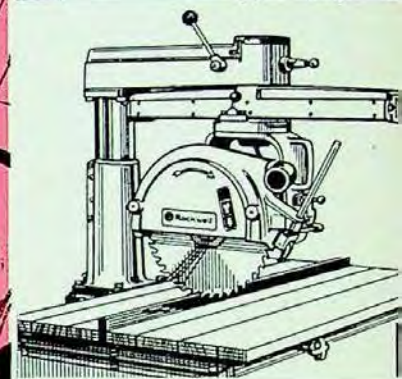
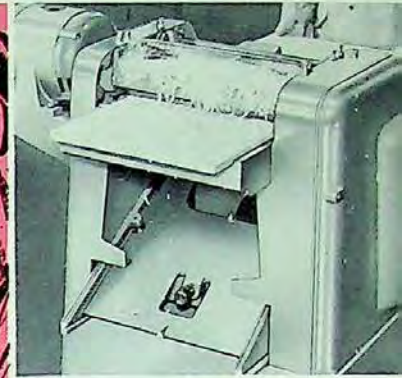
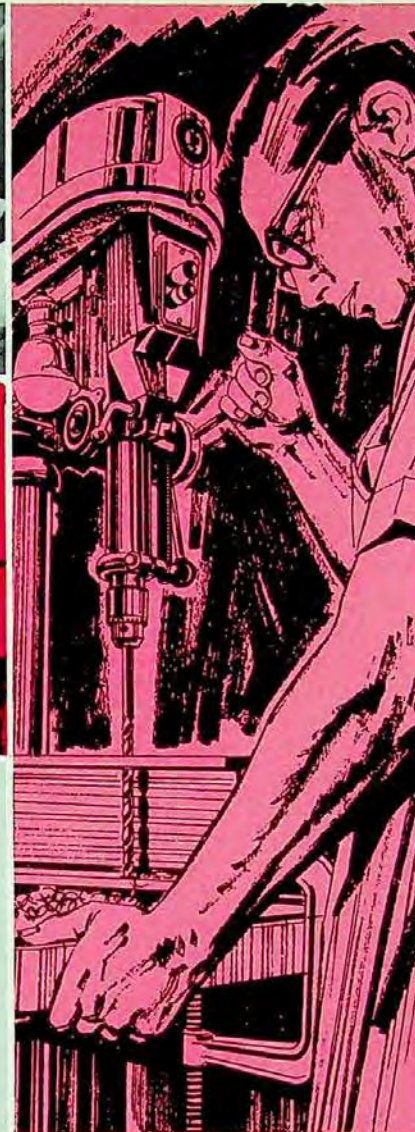
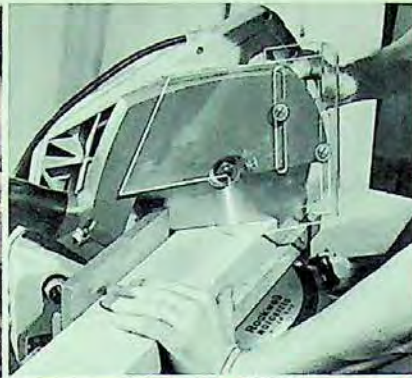


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24-807	C1	7	31-350	C8	3	33-446	I1	4	34-612	G4	3	35-243	G6	2
24-808	C1	7	31-354	C8	3	33-448	I3	3	34-613	G4	3	35-245	G6	2
24-812	C1	7	31-355	C8	3	33-500	I1	3	34-614	G4	3	35-247	G6	2
24-819	C1	7	31-356	C8	3	33-501	I1	3	34-615	G4	3	37-220	F2	3
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24-823	C1	8	31-362	C8	4	33-504	I1	3	34-650	H1	2	37-251	F3	2
24-902	A9	1	31-363	C8	4	33-508	I1	3	34-652	H1	2	37-290	F3	2
24-955	C1	7	31-364	C8	4	33-509	I1	3	34-661	G4	3	37-305	F1	4
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24-959	C1	7	31-370	C8	4	33-523	I2	3	34-671	G4	3	37-802	F3	2
24-960	C1	7	31-371	C8	4	33-526	I2	3	34-707	G3	4	37-806	F3	2
24-961	C1	7	31-372	C8	4	33-527	I2	3	34-708	G4a	3	37-807	F2	4
24-962	C1	7	31-373	C8	4	33-528	I2	3	34-813	I3	4	37-808	F2	4
24-963	C1	7	31-374	C8	4	33-532	I2	3	34-821	I3	4	37-810	F1	4
24-964	C1	7	31-375	C8	4	33-543	I1	4	34-828	G3	4	37-815	F2	4
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28-881	J2	4	33-191	I1	3	34-015	G4a	3	35-190	G6	1	41-102	O1	1
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28-884	J4	4	33-197	B1	4	34-227	G6	2	35-197	G6	1	41-104	O1	1
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46-450	N1	3	49-168	O1	1	49-520	C2	3	49-733	A2	5	49-845	Q1	3
46-455	Q1	1	49-170	O1	1	49-527	D1	1	49-734	A2	5	49-848	C8	3
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49-905	G1	3	50-400	A1	6	66-022	P1	2	70-452	A1	5	87-614	P1	2
49-906	G1	3	50-406	O1	2	66-023	P1	2	70-453	A1	5	87-619	P1	2
49-907	G1	3	50-432	E2	3	66-024	P1	2	70-454	A1	5	93-410	B1	4
49-908	G1	3	50-435	E3	4	66-025	P1	2	70-456	A1	5	93-441	P1	1
49-933	M1	3	50-506	A1	6	66-026	P1	2	70-457	A1	5	93-510	B1	4
49-934	M1	3	50-656	F2	4	66-029	P1	2	70-458	A1	5	93-541	P1	1
49-935	M1	3	50-717	L1	4	66-039	P1	2	82-710	E2	3	93-610	K2	3
49-936	M1	3	50-810	G4	3	66-052	P1	2	82-910	E2	3	93-711	P1	1
49-937	M1	3	50-864	E1	3	66-061	P1	2	82-912	P1	1	96-321	P1	2
49-938	M1	3	50-891	O1	2	66-062	C8	3	83-112	P1	1	96-329	P1	2
49-939	M1	3	51-004	O1	1	66-069	P1	2	83-361	P1	1	96-330	P1	2
49-940	M1	3	51-007	O1	1	66-130	P1	2	83-510	E3	3	96-429	P1	2
49-942	M1	3	51-008	O1	1	66-135	P1	2	83-560	P1	1	96-430	P1	2
49-943	M1	3	51-009	O1	1	66-139	P1	2	83-610	P1	1	96-431	P1	2
49-944	M1	3	51-013	O1	1	66-341	P1	2	83-611	P1	1	96-442	P1	2
49-945	M1	3	52-004	B1	4	66-359	P1	2	83-621	P1	1	96-443	P1	2
49-946	M1	3	52-005	B1	4	66-369	P1	2	83-631	P1	1	96-449	P1	2
49-947	M1	3	52-006	B1	4	66-379	P1	2	83-651	P1	1	96-629	P1	2
49-948	M1	3	52-007	B1	4	66-383	P1	2	83-761	P1	1	96-630	P1	2
49-969	J3	3	52-008	B1	4	66-712	P1	2	85-110	P1	1	96-634	P1	2
49-970	J3	3	52-009	B1	4	66-719	P1	2	86-529	P1	2	96-646	P1	2
49-971	J3	3	52-010	B1	4	66-730	P1	2	86-530	P1	2	96-651	P1	2
49-972	J3	3	52-011	B1	4	66-732	P1	2	86-535	P1	2	96-659	P1	2
49-973	E1	3	52-037	A1	5	66-736	P1	2	86-730	P1	2	96-672	P1	2
49-974	E1	3	52-038	A1	5	66-739	P1	2	86-732	P1	2	96-673	P1	2
49-975	E1	3	52-039	A1	5	66-754	P1	2	86-735	P1	2	96-679	P1	2
49-976	E1	3	52-040	A1	5	66-755	P1	2	86-759	P1	2	96-725	P1	2
49-977	E1	3	52-041	A1	5	66-759	P1	2	86-769	P1	2	96-729	P1	2
49-978	E1	3	52-042	A1	5	70-400	A1	5	86-909	P1	2	96-730	P1	2
49-979	E1	3	52-051	K3	3	70-401	A1	5	86-919	P1	2	96-744	P1	2
49-980	E1	3	52-052	K3	3	70-402	A1	5	86-930	P1	2	96-749	P1	2
49-981	E1	3	52-053	K3	3	70-403	A1	5	86-931	P1	2	96-751	P1	2
49-982	E1	3	52-054	K3	3	70-404	A1	5	86-932	P1	2	96-771	P1	2
49-983	E1	3	52-055	K3	3	70-406	A1	5	86-935	P1	2	96-772	P1	2
49-984	E1	3	52-056	K3	3	70-407	A1	5	86-936	P1	2	96-779	P1	2
49-985	E1	3	60-050	C8	3	70-408	A1	5	86-937	P1	2	96-844	P1	2
50-104	I3	3	62-010	P1	1	70-410	A1	5	86-969	P1	2	96-849	P1	2
50-106	O1	2	62-011	P1	1	70-411	A1	5	86-980	P1	2	96-851	P1	2
50-111	E1	3	62-012	P1	1	70-412	A1	5	86-991	P1	2			

ROCKWELL DELTA INDUSTRIAL MACHINES

KNOWN FOR
THEIR FAMOUS
QUALITY FEATURES

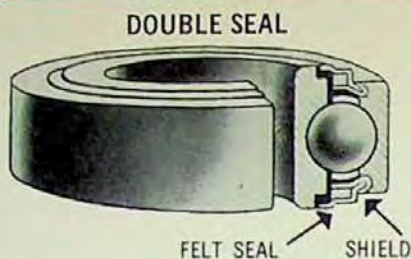
PROOF BASED ON PERFORMANCE

In factories—
in industrial work shops—
on the job with equipment
users report that
Rockwell Delta
Delta Industrial Machines
exhibit their most prized
attributes for accuracy,
repeatability, versatility
and complete maintenance
and repair dependability.
Install them in your
operation and be
proud of their performance
every day.

NO OTHER INDUSTRIAL TOOLS OFFER SO MUCH

Rockwell Delta
Machines provide you with
precision and accuracy
in every operation.
They are designed to
provide you with the
most accurate and
dependable performance
in every operation.
They are designed to
provide you with the
most accurate and
dependable performance
in every operation.

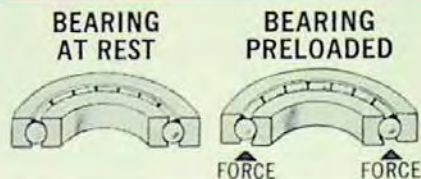
FIVE BIG REASONS FOR ROCKWELL DELTA INDUSTRIAL MACHINE SUPERIORITY



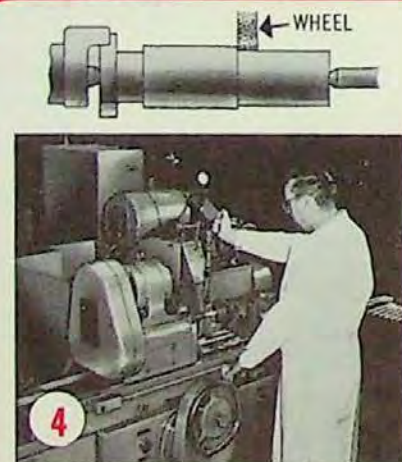
1 LUBRICATED-FOR-LIFE BALL BEARINGS. The bearings in Rockwell Delta Industrial Machines are lubricated-for-life and completely sealed to keep out harmful dust, dirt and grit. This greatly reduces maintenance costs and assures you of long, trouble-free service for your power tool.



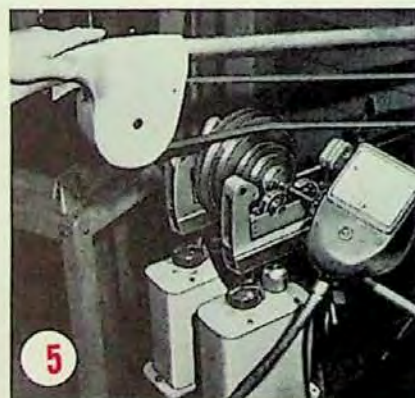
2 PRECISION BORED BEARING SEATS. Rockwell Delta bearing seats are precision or "Diamond" bored. Result: the seat is absolutely smooth. The bearing fits closely, is tightly held and cannot loosen. With the seat perfectly round, true to size and in correct position, you get accurate, smooth and dependable bearing operation.



3 PRELOADED BEARINGS. The preloading of bearings in Rockwell Delta Industrial Machines (see sketch at top) removes inherent "end play." By so doing, the original accuracy of the machine is maintained over a longer period when your usage puts excessive strain on bearing surfaces.

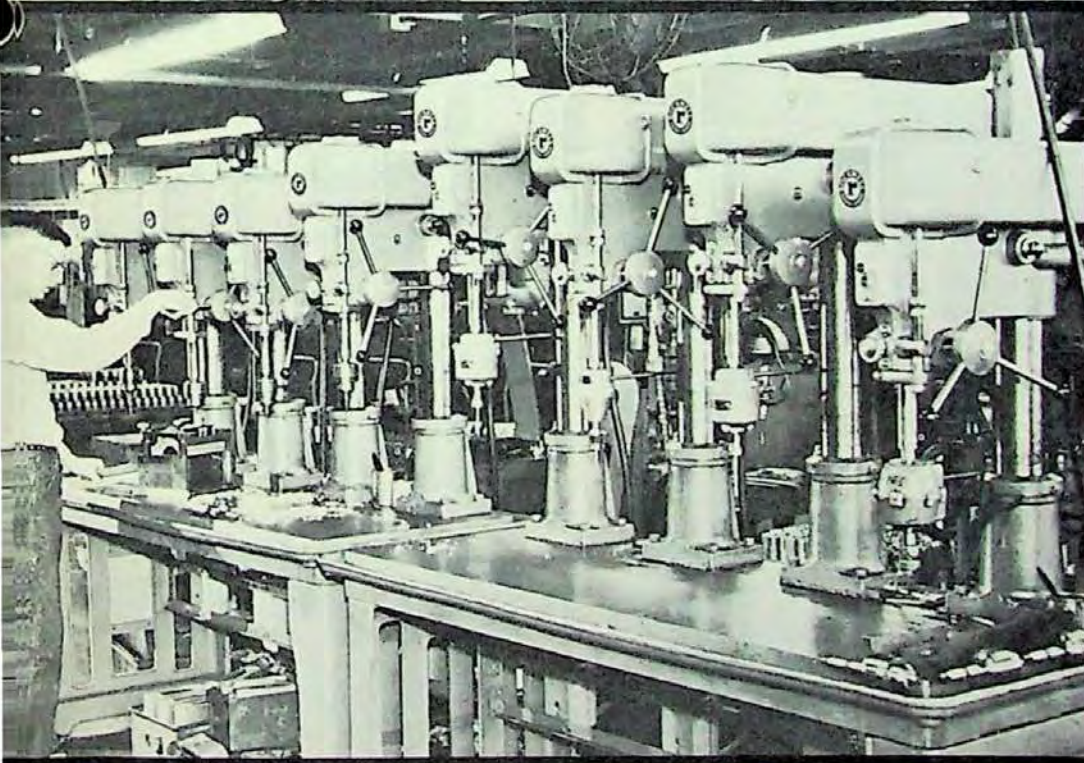
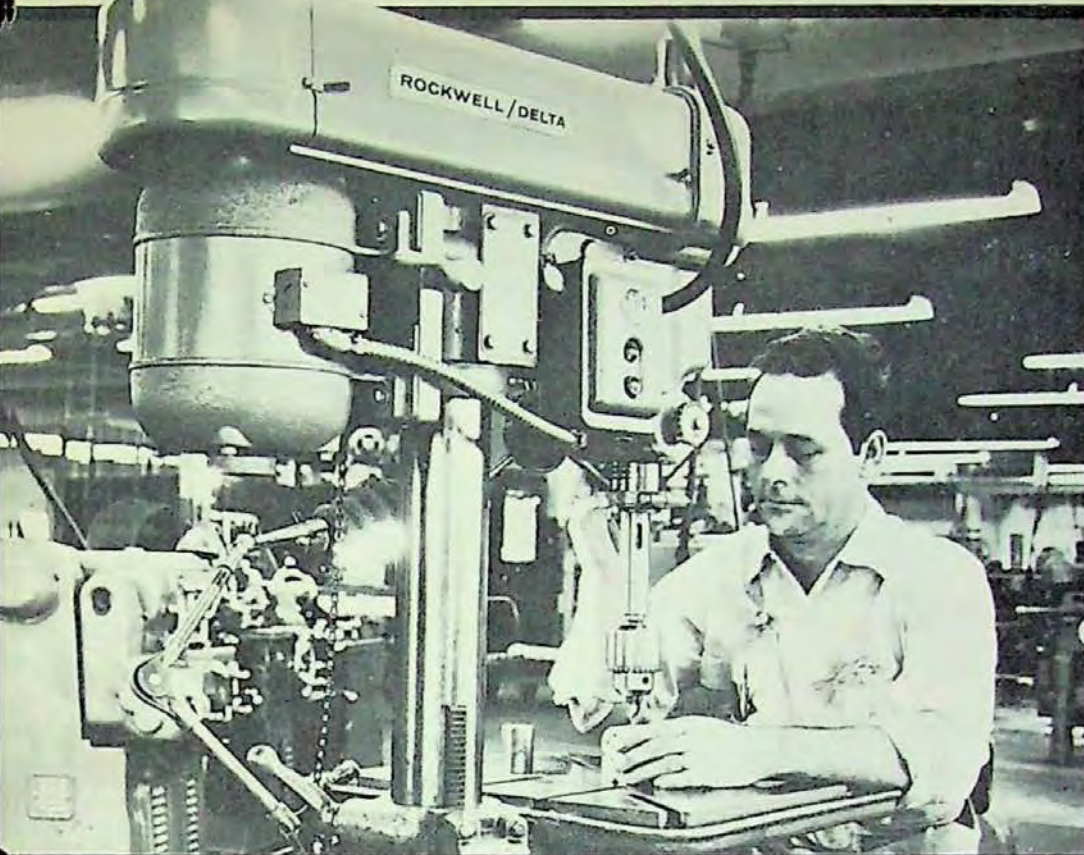


4 PRECISION GROUND SPINDLES, ARBORS and COLLARS. Rockwell precision grinds spindles, arbors and collars with an accurately controlled grinding wheel. Thus, exact sizes of parts are maintained and extremely close tolerances are held between the arbor and inner bearing race—your assurance of full, even contact between arbor and bearing at all times.



5 DYNAMICALLY BALANCED PULLEYS. A high-speed pulley not in perfect balance causes vibration which places a tremendous strain on the bearings. For this reason Rockwell Delta high-speed pulleys are dynamically balanced on a sensitive balancing machine. A small amount of metal is removed where any unbalanced weight is indicated. This helps insure smooth, accurate performance of your Rockwell Delta Industrial Machine.

Provides the precision accuracy demanded in the tool room.



Offers the big capacities needed on the production line.

ROCKWELL DELTA 20" DRILL PRESSES

With Geared Spindle Pulley for Extra Slow Speeds . . . Standard Belt Drive for Conventional Speeds

As matter where you look—in the big shop . . . small shop . . . on the production line . . . or in the tool room.

Rockwell Delta 20" Drill Presses continuously satisfy the needs of all users. Why? Because they offer the **BIG CAPACITIES** . . . the **PRECISION PERFORMANCE** . . . and the **BUILT-IN QUALITY** that these users demand. And only Rockwell Delta 20's offer this exclusive combination:

- **EXTRA BIG** 6" spindle travel
- **WIDEST SELECTION** of speeds available—option of Standard Belt Drive or Geared Spindle Pulley using 1725 or 1140 RPM motors
- **CHOICE** of feeds—Hand Feed or the modern, wide range **Var-Rate Power Feed** that provides all the thrust needed for large drills, sensitivity for small drills, electric interlocking with automation devices, plus remote control.

ROCKWELL DELTA INDUSTRIAL MACHINES

KNOWN FOR
THEIR FAMOUS
QUALITY FEATURES

PROOF BASED ON PERFORMANCE

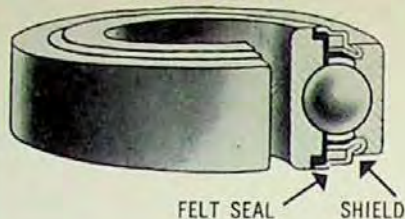
In business as well as in industry, the only way to get the most out of your investment is to get the most out of your tools. Rockwell Delta Industrial Machines are the only tools that give you the most out of your investment. They are built to last, and they are built to perform. They are built to give you the most out of your investment. They are built to last, and they are built to perform. They are built to give you the most out of your investment. They are built to last, and they are built to perform.

NO OTHER INDUSTRIAL TOOLS OFFER SO MUCH

Rockwell Delta Industrial Machines are built to last, and they are built to perform. They are built to give you the most out of your investment. They are built to last, and they are built to perform. They are built to give you the most out of your investment. They are built to last, and they are built to perform. They are built to give you the most out of your investment. They are built to last, and they are built to perform.

FIVE BIG REASONS FOR ROCKWELL DELTA INDUSTRIAL MACHINE SUPERIORITY

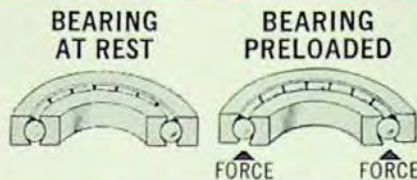
DOUBLE SEAL



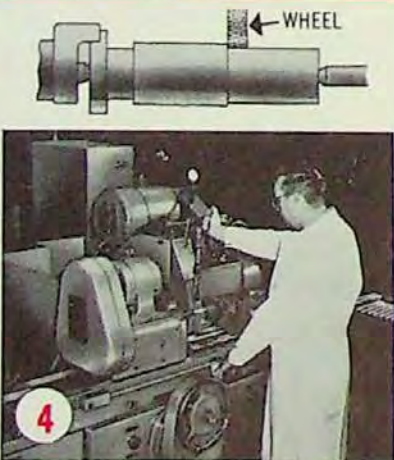
1 LUBRICATED-FOR-LIFE BALL BEARINGS. The bearings in Rockwell Delta Industrial Machines are lubricated-for-life and completely sealed to keep out harmful dust, dirt and grit. This greatly reduces maintenance costs and assures you of long, trouble-free service for your power tool.



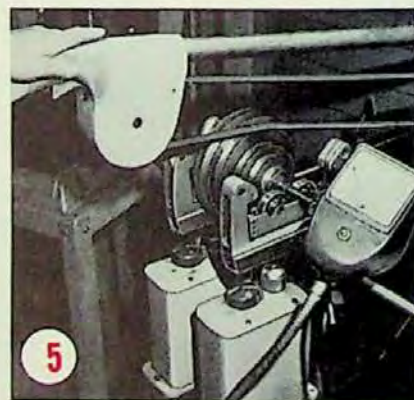
2 PRECISION BORED BEARING SEATS. Rockwell Delta bearing seats are precision or "Diamond" bored. Result: the seat is absolutely smooth. The bearing fits closely, is tightly held and cannot loosen. With the seat perfectly round, true to size and in correct position, you get accurate, smooth and dependable bearing operation.



3 PRELOADED BEARINGS. The preloading of bearings in Rockwell Delta Industrial Machines (see sketch at top) removes inherent "end play." By so doing, the original accuracy of the machine is maintained over a longer period when your usage puts excessive strain on bearing surfaces.

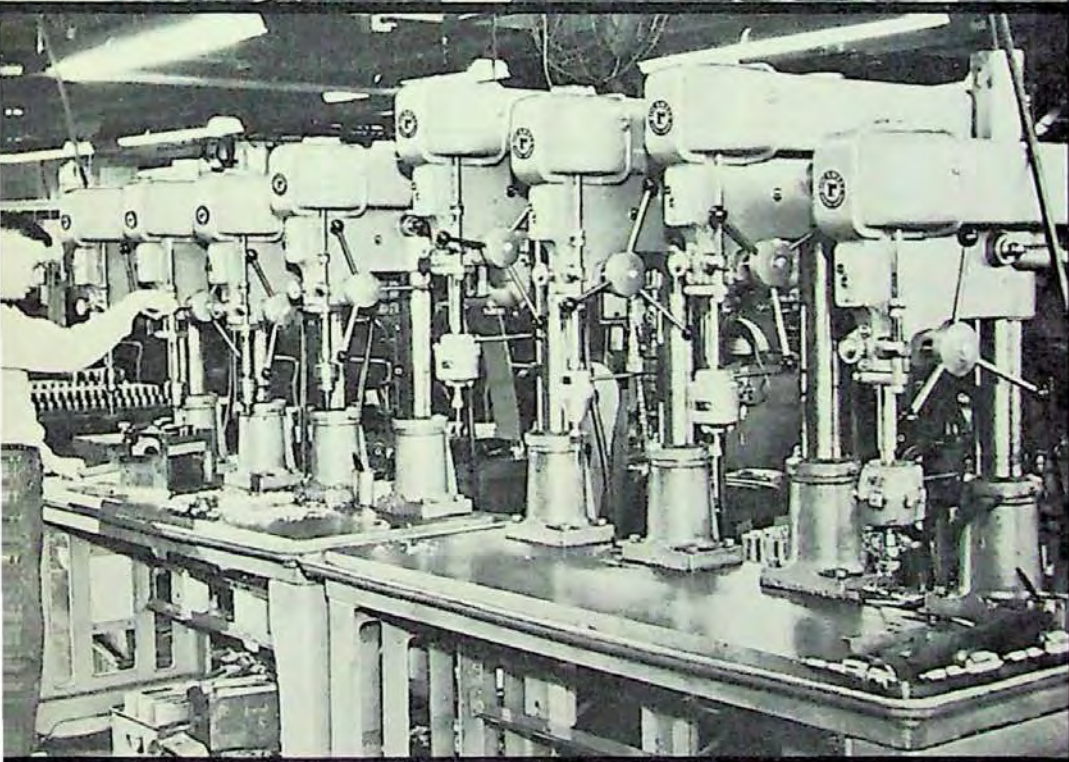
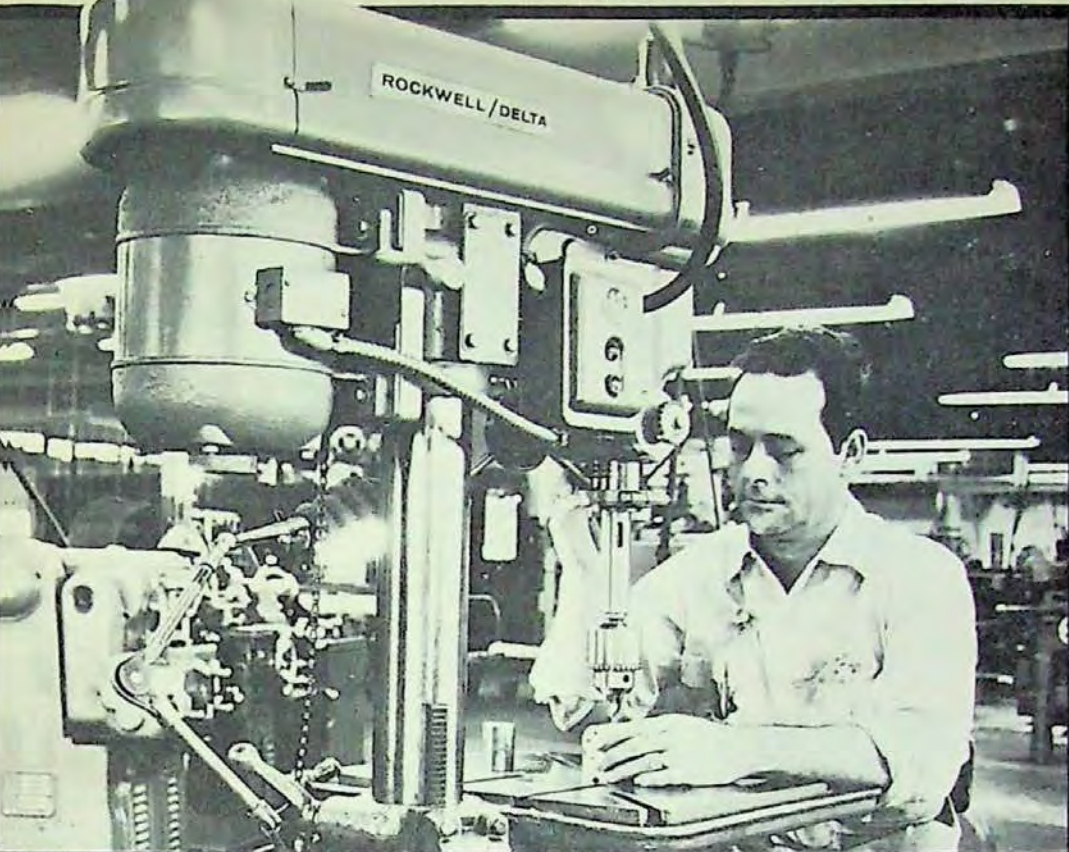


4 PRECISION GROUND SPINDLES, ARBORS and COLLARS. Rockwell precision grinds spindles, arbors and collars with an accurately controlled grinding wheel. Thus, exact sizes of parts are maintained and extremely close tolerances are held between the arbor and inner bearing race—your assurance of full, even contact between arbor and bearing at all times.



5 DYNAMICALLY BALANCED PULLEYS. A high-speed pulley not in perfect balance causes vibration which places a tremendous strain on the bearings. For this reason Rockwell Delta high-speed pulleys are dynamically balanced on a sensitive balancing machine. A small amount of metal is removed where any unbalanced weight is indicated. This helps insure smooth, accurate performance of your Rockwell Delta Industrial Machine.

Provides the precision accuracy demanded in the tool room.



Offers the big capacities needed on the production line.

ROCKWELL DELTA 20" DRILL PRESSES

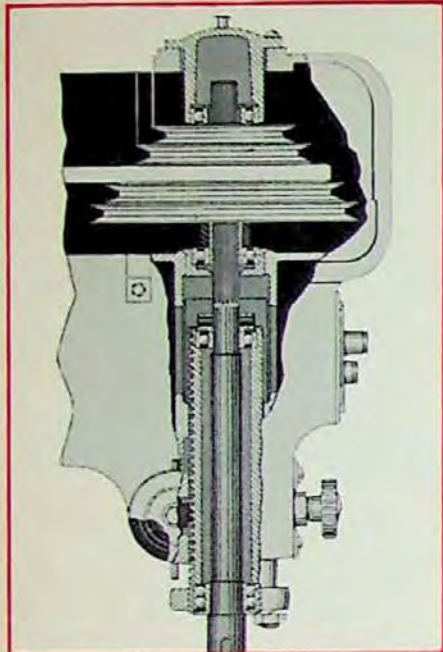
With Geared Spindle Pulley for Extra Slow Speeds . . . Standard Belt Drive for Conventional Speeds

No matter where you look—in the big shop . . . small shop . . . on the production line . . . or in the tool room, Rockwell Delta 20" Drill Presses continually satisfy the needs of all users. Why? Because they offer the **BIG CAPACITIES** . . . the **PRECISION PERFORMANCE** and the **BUILT-IN QUALITY** that these users demand. And only Rockwell Delta 20's offer this exclusive combination:

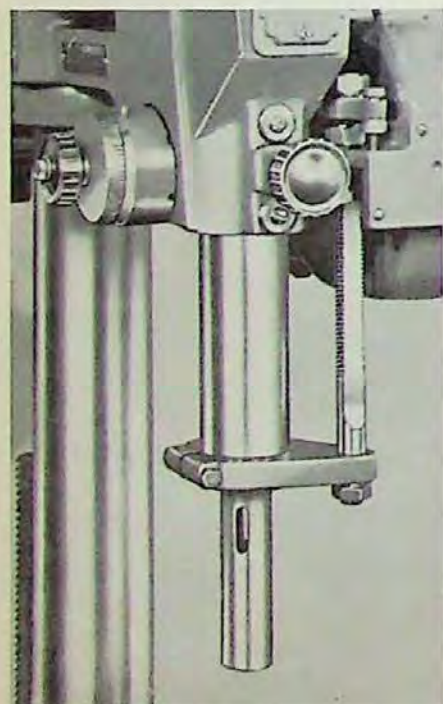
- **EXTRA BIG** 6" spindle travel.
- **WIDEST SELECTION** of speeds available—option of Standard Belt Drive or Geared Spindle Pulley using 1725 or 1140 RPM motors.
- **CHOICE** of feeds—Hand Feed or the modern, wide range Var-Rate Power Feed that provides all the thrust needed for large drills, sensitivity for small drills, electric interlocking with automation devices, plus remote control.

ROCKWELL DELTA 20" DRILL PRESSES

**DELTA QUALITY FEATURES
THAT MAKE THE
20" DRILL PRESS
ESPECIALLY SUITED FOR
PRODUCTION TOOLING**



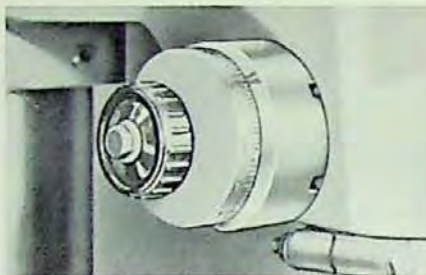
Heavy-Duty Spindle Construction. Ten-spline, manganese steel spindle is $3\frac{1}{2}$ " in diameter. Four-bearing spindle construction, including a double-row, pre-loaded, heavy-duty ball bearing close to the work load, eliminates spindle play and guarantees continued accuracy.



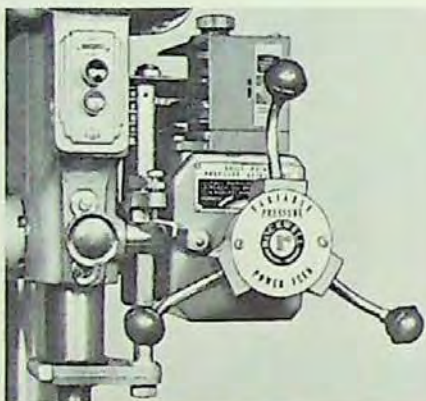
Big Spindle Travel. Spindle travel is a full 6"—ample capacity for such operations as drilling, counterboring and reaming of large work. Note exceptionally large $2\frac{3}{8}$ " diameter quill.



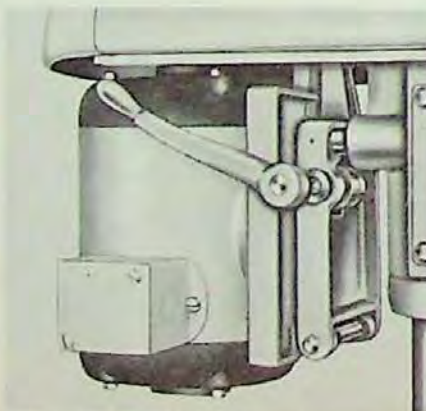
Specially Constructed V-Belt. Steel reinforced, notched V-belt, recommended for the toughest drives in industry, is standard equipment on all Delta 20" Drill Presses at no extra cost.



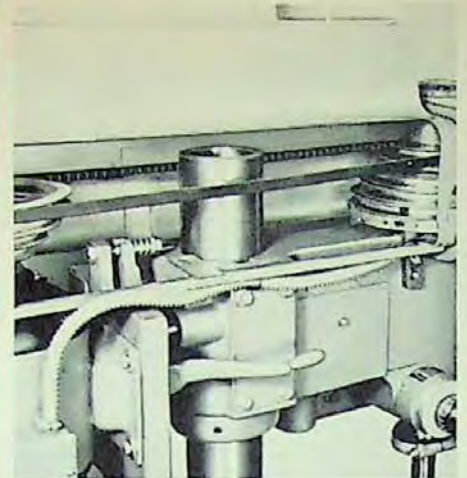
Easy-Read Depth Gauge. Large depth gage, with magnified calibrations, facilitates correct setting and easy reading. Has zero start feature.



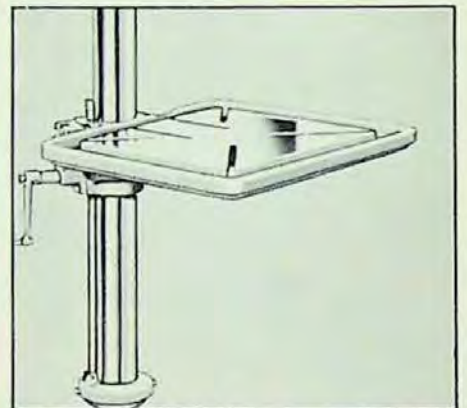
Up-Front Controls. Safety designed "on-off" switch (accessory), large quill lock knob, and easy-to-read depth stop and depth indicator gauges are all conveniently located "up-front" for easier, faster and safer operation.



Quick-Release Motor Mount. A cam-actuated motor mounting device permits easy belt changing with no possibility of damage to the belt. The cam-action also assures proper belt tension at all times for longer belt life.



Extra Slow Drilling Speeds. New planetary gear spindle pulley models provide extra-low range of gear drive speeds in addition to standard direct drive speeds for drilling stainless steels, bronzes and other hard-to-drill materials.



Big Production Table. Extra large table with $19\frac{1}{4}$ " x 22" work surface has diagonal and parallel blind T-slots to facilitate clamping of jigs and fixtures.

DELTA QUALITY EXTRAS

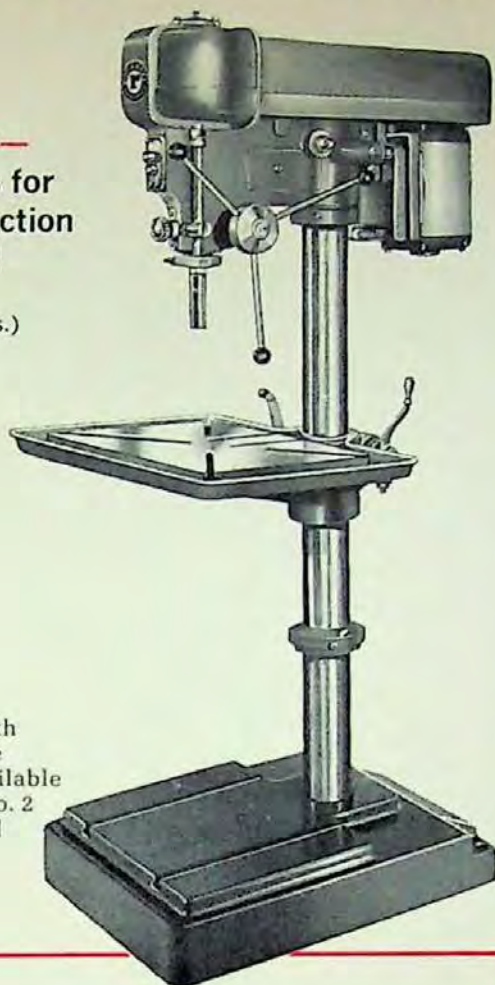
- Massive, one-piece head and precision ground, seamless steel column, with $\frac{1}{2}$ " thick wall, insure rigidity and accuracy during continuous operation.
- Large, $2\frac{3}{8}$ " diameter quill is supported by three precision bored lands in the head. Two adjusting screws may be taken up to compensate for wear after long use.
- Elevating mechanism furnished as standard equipment on all models.
- Pulley and spindle bearings as well as all moving parts of the quill and feed mechanism are lubricated from a single oil hole conveniently located above the spindle.
- Long columns provide extra big capacity for large work—26" from spindle nose to table on bench model—36" on floor model. Spindle nose to base on floor model—45".

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

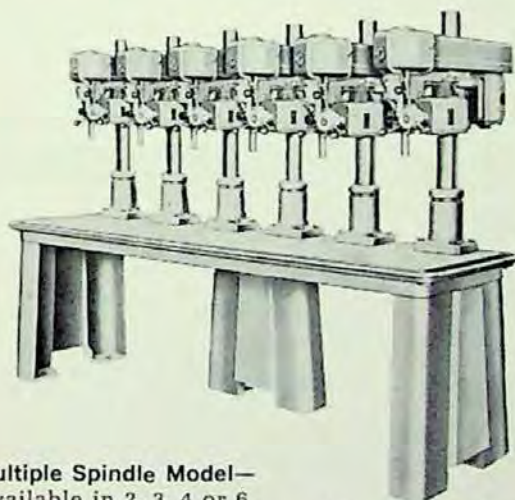
ROCKWELL DELTA 20" DRILL PRESSES

32 MODELS— A Drill Press for Every Production Tooling Job!

(See P. 4 for
additional models.)



Floor Model—With
production table
(tilting table available
as accessory), No. 2
M.T. spindle and
hand feed.



Multiple Spindle Model—
Available in 2, 3, 4 or 6
spindles with production table, standard or
geared spindle pulley, No. 2 or 3 M.T. spindle.
Can be ordered as a unit or as component parts
enabling you to make your own set-up with any
number of spindles.

All models furnished with choice of two types of feed—Hand Feed,
or the modern, wide range Vari-Rate Power Feed.

See Page 5 for ordering information.

Rockwell Delta 20" Drill Presses give you machine tool capacity and ruggedness combined with power tool adaptability and versatility. They're designed to fill the need for flexible production tooling that can supplement, or often replace, heavier fixed machines costing four and five times as much.

Furthermore, Rockwell Delta 20's, especially when equipped with the modern Vari-Rate Power Feed and the *extra slow speed* Geared Spindle Pulley, are more suitable than a machine tool in many instances. Why? Because they offer the user these important advantages: low original investment . . . low maintenance cost . . . flexibility—can easily be converted into a special-purpose machine . . . versatility—can do almost every type of operation performed by a special-purpose machine . . . portability—light in weight for quick placement in the production line to speed up production or relieve the load on heavier, more costly machines . . . immediate delivery—no lengthy lead time required for tooling.

MACHINE DATA

Overall Dimensions:

Bench Type
Height54"; Width23"; Front to rear40"
Floor Type
Height74"; Width22"; Front to rear37"

Table Working Surface, Ground:

Tilting16 x 18"
Production
Overall19 $\frac{1}{4}$ " x 22"
Inside of Coolant Trough15 x 18"
T-Slots (Six)1 $\frac{1}{32}$ "

Base Working Surface:

Bench Model18 x 24"; Floor Model13 $\frac{1}{2}$ x 14 $\frac{3}{4}$ "

Quill:

Stroke (Manual Feed)0 to 6"
Stroke (Power Feed) $\frac{1}{2}$ to 6"
Diameter2 $\frac{3}{8}$ "

Capacities:

Dia. Hole in Cast Iron1"; In Steel $\frac{3}{4}$ "

Spindle Speeds:

With Std. Spindle Pulley—All Models
W/1725 rpm motor500, 800, 1200, 1800, 2600 rpm
W/1140 rpm motor330, 520, 800, 1200, 1700 rpm
With Geared Spindle Pulley—Hand Feed Models
W/1725 rpm motor165, 265, 400, 500, 600, 800,
865, 1200, 1800, 2600 rpm
W/1140 rpm motor110, 175, 265, 330, 395, 530,
575, 790, 1200, 1700 rpm
*With Geared Spindle Pulley—Power Feed Models
W/1725 rpm motor165, 265, 400, 500, 600,
800, 1200, 1800 rpm
W/1140 rpm motor110, 175, 265, 330, 395,
530, 790, 1200 rpm

Power Feed Models:

Feeds:
Variable Rate Typefrom .002 to .020 ipr
Feed Pressure
Infinitely variable from 0 to maximum required

Column:

Wall thickness $\frac{1}{2}$ "; Diameter3 $\frac{3}{4}$ "

Motor Plate:

Accommodates NEMA Frame Motors 182 and 184

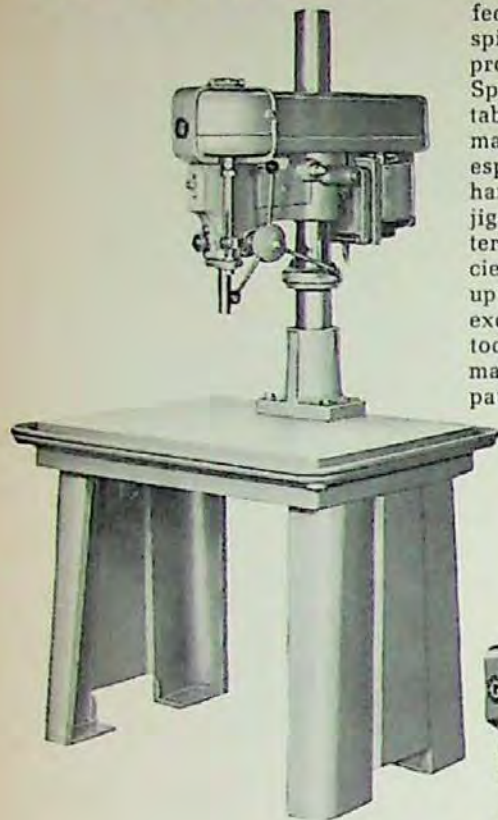
*Eight additional speeds may be obtained by using longer V-belt 49-109 (order separately). Range with 1725 rpm motor is 240 to 2100 rpm, and with 1140 rpm motor, 160 to 1390 rpm.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

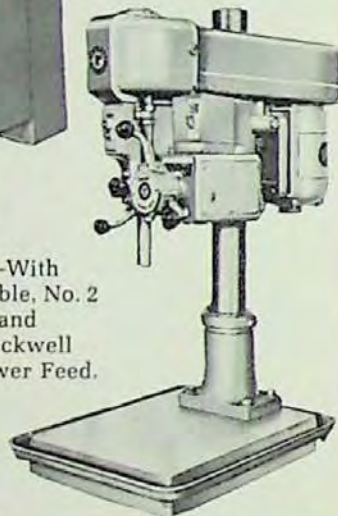
ROCKWELL DELTA 20" DRILL PRESSES

ADDITIONAL 20" DRILL PRESS MODELS

(See Page 3 for Other Models.)



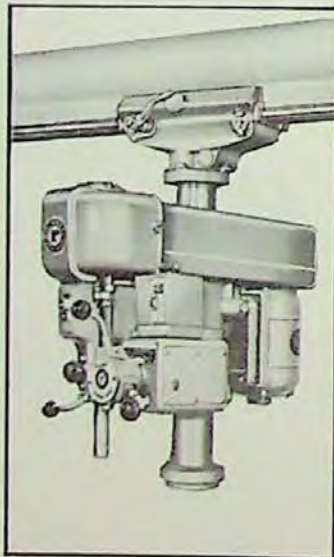
Floor Model—Hand feed with No. 2 M.T. spindle and extra large production table. Spacious 24½" x 35½" table working surface makes machine especially suited for handling large dies, jigs, fixtures and patterns. Increases efficiency while stepping up production. An excellent unit for the tool and die shop, machine shop and pattern shop.



Bench Model—With production table, No. 2 M.T. spindle and "up-front" Rockwell Vari-Rate Power Feed.

Drill Heads for Overhead Models and for Special Set-ups. Using the basic Drill Head Models, the No. 20-661 Raising Mechanism and the No. 20-623 Column and Ball Bearing Carriage Assembly, you can readily build a versatile overhead set-up. Mounted on a jib crane or overhead track, the unit is especially practical for drilling large or heavy work or where 360° rotation is desired.

Because of their adaptability and big capacity, all drill heads can be used effectively in special set-ups to solve radial, angular, horizontal and other particular drilling problems.



All models furnished with choice of two types of feed—Hand Feed, or the modern, wide range Vari-Rate Power Feed.

See opposite page for ordering information.

A1

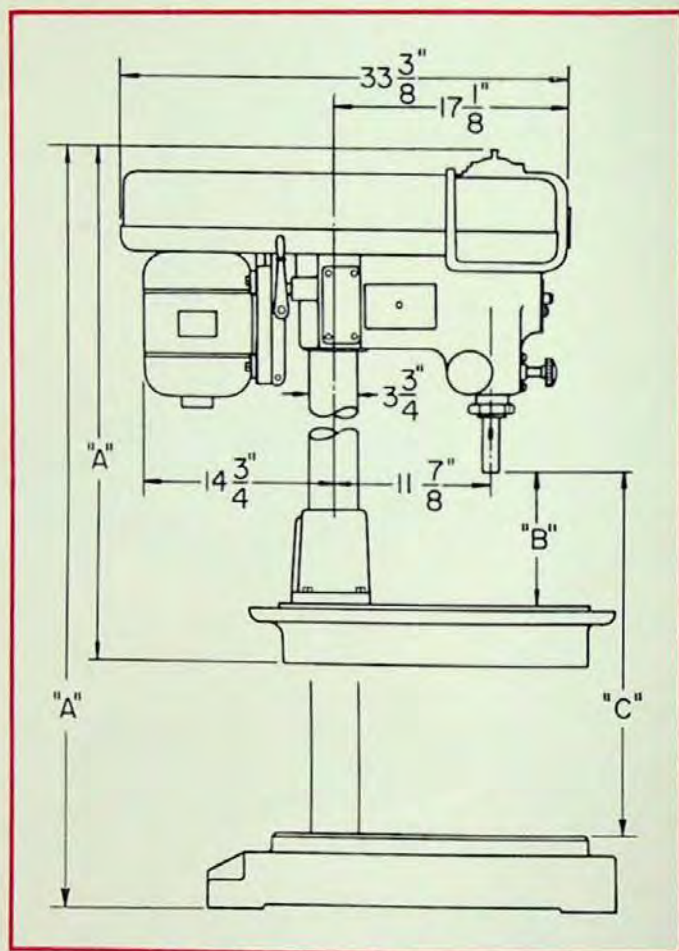
POWER FEED—FACTORY MOUNTED ON ROCKWELL DELTA 20" DRILL PRESSES

CATALOG NUMBER	TYPE OF POWER FEED	WT., LBS.
20-645	*†Variable Rate Type (.002 to .020 ipr)	54

*Feed pressure infinitely variable from 0 to maximum required.

†Above power feed supplied factory mounted only. Not supplied for field mounting. Minimum spacing of multiple spindle 20" power feed heads is 15".

NOTE: For Automation and Remote Control Kits for field mounting, and for complete description of Power Feeds, see accessory section.



DIMENSIONAL DATA

20" DRILL PRESS	NO. 2 MORSE TAPER MODELS			NO. 3 MORSE TAPER MODELS		
	"A" Overall Height	"B" Spindle to Table (max.)	"C" Spindle to Base (max.)	"A" Overall Height	"B" Spindle to Table (max.)	"C" Spindle to Base (max.)
Bench Type w/Production Table	55"	26½"	—	55"	26"	—
Floor Type w/Production Table	74"	36¼"	45¼"	74"	35¼"	44¼"
Floor Type w/Tilt Table	74"	35½"	45¼"	74"	34½"	44¼"

STANDARD EQUIPMENT ON ALL MODELS

No. 49-108 V-belt, No. 49-235 Motor Pulley (¾" bore), No. 20-661 Raising Mechanism and Belt Guard.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA 20" DRILL PRESSES

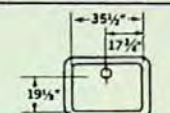
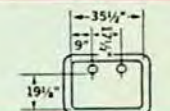
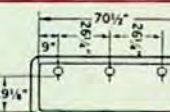
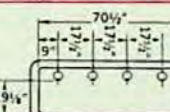
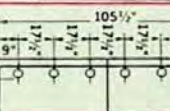
CATALOG LISTING

SINGLE SPINDLE MODELS (Less Motor and Control—See Below)

TYPE	HAND FEED							
	NO. 2 MORSE TAPER				NO. 3 MORSE TAPER			
	STANDARD SPINDLE PULLEY		GEARED SPINDLE PULLEY		STANDARD SPINDLE PULLEY		GEARED SPINDLE PULLEY	
Bench Model (with production table—24" x 18" work surface)	70-401	422 lbs.	70-441	422 lbs.	70-411	422 lbs.	70-451	422 lbs.
Floor Model (with production table—19 1/4" x 22" work surface)	70-407	460 lbs.	70-447	473 lbs.	70-417	460 lbs.	70-457	473 lbs.
Floor Model (with tilting table—16" x 18" work surface; tilts 90° r. & l.)	70-408	464 lbs.	70-448	464 lbs.	70-418	464 lbs.	70-458	464 lbs.
Heads Only (less No. 20-661 raising mechanism)	70-400	180 lbs.	70-440	180 lbs.	70-410	180 lbs.	70-450	180 lbs.

Production tables have 1 7/8" coolant trough with two 3/4" pipe taps at rear.

SINGLE AND MULTIPLE SPINDLE PRODUCTION TABLE FLOOR MODELS (Less Motors and Controls—See Below)

NO. OF SPINDLES	HAND FEED							
	NO. 2 MORSE TAPER				NO. 3 MORSE TAPER			
	STANDARD SPINDLE PULLEY		GEARED SPINDLE PULLEY		STANDARD SPINDLE PULLEY		GEARED SPINDLE PULLEY	
1 Spindle — One-Piece Table One 1/2" Pipe Tap at each rear corner 	70-425	690 lbs.	70-426	702 lbs.	70-427	690 lbs.	70-428	702 lbs.
2 Spindle — One-Piece Table One 1/2" Pipe Tap at each rear corner 	70-402	969 lbs.	70-442	981 lbs.	70-412	969 lbs.	70-452	981 lbs.
3 Spindle — One-Piece Table One 1/2" Pipe Tap at each rear corner 	70-403	1575 lbs.	70-443	1593 lbs.	70-413	1575 lbs.	70-453	1593 lbs.
4 Spindle — One-Piece Table One 1/2" Pipe Tap at each of 4 corners 	70-404	1808 lbs.	70-444	1832 lbs.	70-414	1808 lbs.	70-454	1832 lbs.
6 Spindle — Two-Piece Table One 1/2" Pipe Tap at each of 4 corners 	70-406	2672 lbs.	70-446	2720 lbs.	70-416	2672 lbs.	70-456	2720 lbs.

The 2, 3 and 4 spindle drill presses have one-piece tables. The 6 spindle drill press has a two-piece table. Tables on multiple spindle units have 1 7/8" coolant trough. Table working surface is 32 1/8" from the floor. Six

spindle units have three legs—all other multiple spindle units have two legs. Maximum distance spindle nose to table with No. 3 M.T.—26", with No. 2 M.T.—26 1/2".

MOTORS AND CONTROLS (Factory Mounted and Wired)

(On multiple spindle units, designate head (1st, 2nd, etc.) on which each motor and control group is to be factory mounted.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	115/230	73	49-444
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	115/230	76	49-675
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	115/230	78	52-037
	Push Button Switch Only	Guarded Drip Proof	60—1140	115/230	73	49-729
	Push Button and Overload Switches	Guarded Drip Proof	60—1140	115/230	76	49-676
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1140	115/230	78	52-038
Three Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	59	49-445
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	62	49-737
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	64	52-039
	Push Button Switch and Magnetic Starter w/115V. Transformer	Guarded Drip Proof	60—1725	230/460	66	52-040
	Push Button Switch Only	Guarded Drip Proof	60—1140	230/460	58	49-740
	Push Button and Overload Switches	Guarded Drip Proof	60—1140	230/460	61	49-741
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1140	230/460	63	52-041
	Push Button Switch and Magnetic Starter w/115V. Transformer	Guarded Drip Proof	60—1140	230/460	65	52-042
	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	55	49-744
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	58	49-745
Three Phase, 1 1/2 Horsepower	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	60	49-746
	Push Button Switch and Magnetic Starter w/115V. Transformer	Guarded Drip Proof	60—1725	230/460	62	49-747
	Push Button Switch Only	Guarded Drip Proof	60—1140	230/460	62	49-748
	Push Button and Overload Switches	Guarded Drip Proof	60—1140	230/460	65	49-749
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1140	230/460	67	49-750
	Push Button Switch and Magnetic Starter w/115V. Transformer	Guarded Drip Proof	60—1140	230/460	69	49-751

NOTE: Single phase electricals will be supplied wired for 115V, unless 230V is specified. Three phase electricals will be supplied wired for 230V, unless 208V or 460V is specified. Power Cord and Plug supplied for single

phase only. Motors and Motor Controls for Rockwell Delta 20" Drill Presses may be ordered unmounted. For listing, see sections P and Q.

ROCKWELL DELTA 20" DRILL PRESSES

Components for Building Special-Purpose Machines

(Used with Rockwell Delta 20" Drill Press Heads)

No. 20-625 Column, steel, 3 3/4" x 33", with 1/2" wall. 50 lbs.

No. 20-626 Column, steel, 3 3/4" x 42", with 1/2" wall. 55 lbs.

No. 20-627 Column, steel, 3 3/4" x 66", with 1/2" wall. 102 lbs.

No. 20-628 Column, steel, 3 3/4" x 78", with 1/2" wall. 128 lbs.

No. 20-636 Booster Spindle Return Spring Kit. Includes clock spring with case, pinion shaft stub extension and instructions for field mounting on hand or power feed machines. Provides about 80 to 90 pounds of lift when used with the standard equipment spring. It is especially recommended when multiple spindle heads, tapping heads or other heavy tooling is mounted on quill or spindle of machine. 2 lbs.

No. 20-624 Flange, with screws, for mounting column on table (not for single spindle floor models). 46 lbs.

No. 20-623 Ball Bearing Carriage with 33" column for Overhead Drill Press. 123 lbs.

No. 20-661 Raising Mechanism for head or table of 20" Drill Press. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

No. 20-660 Tilting Table, ground work surface 16" front to back by 18" left to right, slotted, with column bracket and tilt angle scale. Tilts 90° left and right and has index pin for level position. Left side has 4 x 16" ground, vertical work clamping surface. Without 20-661 Raising Mechanism. For single spindle floor model drill presses. 112 lbs.

No. 20-650 Production Table, 15" x 18" ground work surface (including coolant trough, 19 1/4" x 22"), with 4 diagonal and 2 parallel blind T slots for 1/2" bolts. Without 20-661 Raising Mechanism. For single spindle floor model drill presses. 112 lbs.

No. 20-651 Production Table, ground work surface 24" front to back by 18" wide, for single spindle bench model. Does not fit 50-399 Legs. 136 lbs.

No. 20-655 Production Table, one piece, for single spindle set up. Drilled and tapped for one column mounting flange, centered. Ground work surface 24 1/2" x 35 1/2". Fits 50-399 legs. 334 lbs.

No. 20-652 Production Table, one-piece, for two spindle setup. Drilled and tapped for column mounting flanges on 17 1/2" centers. Ground work surface 24 1/2" x 35 1/2". Fits 50-399 Legs. 334 lbs.

No. 20-653 Production Table, one-piece, for three spindle setup. Drilled and tapped for column mounting flanges on 26 1/4" centers. Machined work surface 24 1/2" x 70 1/2". Fits 50-399 Legs. 650 lbs.

No. 20-654 Production Table, one-piece, for four spindle setup. Drilled and tapped for column mounting flanges on 17 1/2" centers. Machined work surface 24 1/2" x 70 1/2". Fits 50-399 Legs. 650 lbs.

No. 20-656 Production Table, two-piece, for six spindle setup. Drilled and tapped for column mounting flanges on 17 1/2" centers. Machined work surface 24 1/2" x 105 1/2". Fits 50-399 and 50-506 Legs. 962 lbs.

No. 20-657 Production Table, right end section, drilled and tapped for two columns on 17 1/2" centers, 25 x 38" ground work surface. 480 lbs.

No. 20-658 Production Table, left end section, drilled and tapped for two columns on 17 1/2" centers, 25 x 38" ground work surface. 323 lbs.

No. 20-659 Production Table, center section, drilled and tapped for two columns on 17 1/2" centers, 25 x 35" ground work surface. 382 lbs.

No. 50-399 Legs, steel, one pair 27 1/2" high. For mounting production tables 20-652, 20-653, 20-654 and 20-656. 100 lbs.

No. 50-506 Leg, steel, 27 1/2" high. For mounting production tables. Cannot be used with table 20-651. 50 lbs.

No. 50-400 Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under Legs 50-399 and 50-506. One pair required for each single leg to raise machine 2". Two blocks can be stacked to raise machine 4". 8 lbs.



Refer to Page 6, Section A3 for important ordering data on tables and minimum center distance for columns. For Coolant Equipment, see Section D1.

Data sheets with dimensions are available to aid in special machine design.

UNIQUE ROCKWELL POWER FEED

(For Catalog Listing, See Page 4)

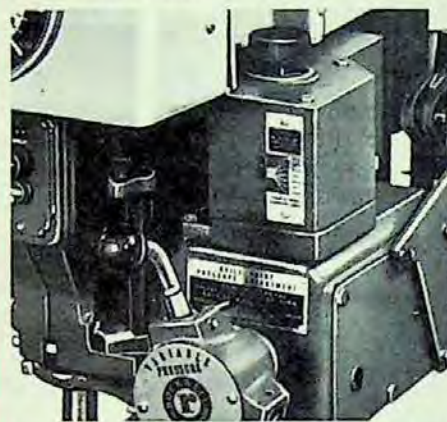
Only the Rockwell Power Feed offers "up-front" control combined with one-hand operation—never before available on a standard 20" drill press! And the Rockwell Variable-Rate Power Feed provides these important benefits:

Saves on Labor Costs—faster and easier to operate, it is especially valuable on set-ups where the operator can do other jobs during the power feed cycle.

Improves Quality—correctly engineered feeds and speeds are maintained to produce holes that are round, true to size and depth, with a high quality finish.

Increases Production—mechanical feed maintains established production rate, is not subject to slow-downs due to operator fatigue.

Equipped with the unique Rockwell Mechanical Power Feed, Delta 20's not only are ideal for conventional drill press operations, but also are perfectly suited for both small hole drilling and for drilling large holes up to the maximum capacity of the machine.



Rockwell Variable-Rate Mechanical Power Feed

Here's what the Rockwell Variable-Rate Mechanical Power Feed gives you:

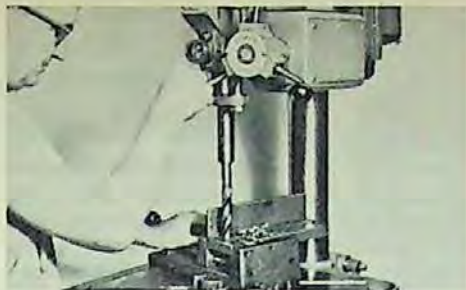
- Offers widest selection of drilling feeds—10 to 1 ratio.
- Permits infinite choice of feeds within the range—.002 to .020 ipr.
- Facilitates feed changes—operator selects desired feed rate while the machine is running.
- Provides "up-front" control combined with one-hand operation.
- Includes adjustable clutch with infinite or "job-tailored" drill point pressure.
- Incorporates provision for remote control or electronic interlocking with automation devices.

FEATURES THAT PROVE THE SUPERIORITY OF THE ROCKWELL POWER FEED

"Up-Front" Control—Rockwell's unique concept in power feeds provides up-front control combined with one-hand operation. Fitting the mechanical control movements to the natural, easy motion of the operator's hand brings "flick-of-the-wrist" control with freedom from fatigue.

Flexibility of Feeds—A simple one-hand movement gives the user all these choices: (1) Accelerated manual rapid approach, then power feed by a simple

ROCKWELL DELTA 20" DRILL PRESSES

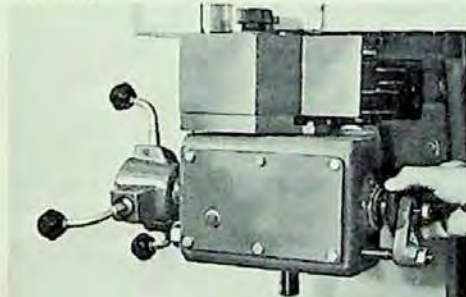


wrist movement (2) Skip drilling—rapid approach, feed, rapid approach, feed. (3) Straight power feed. (4) Straight manual feed.

All of the above choices are immediately available to the operator without any adjustment of the mechanism.



Unmatched Feed Range—Only the Rockwell Variable-Rate Power Feed provides a feed range of 10 to 1 (.002 to .020 ipr), almost double that of any other model available. Within the range, any feed may be selected as opposed to a choice of only 3 to 5 selections on conventional feed drill presses. This permits you to dial the exact feed required while the chip is forming.



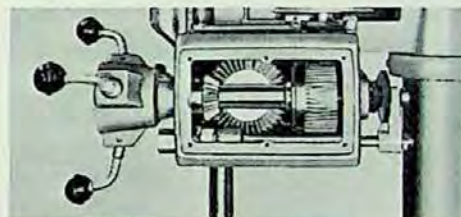
"Job-Tailored" Drill Point Pressure—With the Rockwell Vari-Rate Power Feed, the operator can turn a knurled hand wheel at the back and "tailor" the drill point maximum thrust to whatever the job requires (see top photo above). This means that he can power

feed on a production basis throughout a wide range of hole diameters. He can delicately handle small holes down in the $\frac{1}{16}$ " diameter range (proof—17 jewel Bulova watch crystal did not break in actual test shown above). Then, by a simple adjustment, he can deliver power and thrust for drilling holes up to the maximum capacity of the machine. Infinitely adjustable drill point pressure from 0 to maximum avoids drill breakage, protects all moving parts against overloading, yet, all the thrust ever needed is always available.



Built-In Automation and Remote Control Feature—Only Rockwell offers a mechanical power feed with provision for remote control or interlocking with automation devices such as rotary tables, clamps and work feeds.

Photo shows actuating plunger (at rear) which can be connected with solenoids, electrical control switches, mechanical or hydraulic devices to interlock feed mechanism with automation accessories. The same plunger, an extension of the clutch shaft, permits remote control which completely frees the operator from any manual effort.



Rugged Power Feed Construction—Photo illustrates the rugged, yet simple construction of the unique Rockwell Power Feed.

The double reduction mechanism, with two extra large bevel gears, permits the hand wheel to be ideally proportioned for quick, effortless operation.

INCREASE PRODUCTION BY ADDING THE AUTOMATION AND REMOTE CONTROL KIT TO YOUR ROCKWELL DELTA 20" POWER FEED DRILL PRESSES

This kit, when added to your Rockwell Delta 20" Drill Press, will speed up production and provide added operator convenience. Instructions for easy field mounting are included.

Rockwell Delta Automation and Remote Control Kit Offers These User Benefits:

- It's ideal for interlocking with such automation devices as rotary tables, clamps and work feeds.
- Can be remotely actuated from any control station, enabling operator to perform other functions.
- Power Feed starts instantly when switch is closed.
- Unit can be operated at a frequency of up to ten operations per minute.
- Power Feed may be actuated or disengaged using hand control, if desired, without disconnecting remote control solenoid.
- Use of foot switch enables operator to walk up to drill press with hands loaded, then step on switch to place unit in operation.

No. 49-436 Automation and Remote Control Kit for Rockwell Delta 20" Power Feed Drill Presses. Includes 230 volt, 60 cycle, single phase solenoid; mounting bracket; lever arm with shaft and instructions for field mounting. 17 lbs.

No. 49-437 Automation and Remote Control Kit for Rockwell Delta 20" Power Feed Drill Presses. Same as 49-436, except 460 volt. 17 lbs.



Shown is the Automation and Remote Control Kit with foot switch mounted on a Delta Power Feed Drill Press.



No. 49-436

Photograph illustrates the simplicity of the Rockwell Delta Automation and Remote Control Kit which consists of a solenoid, mounting bracket and lever arm with shaft.

ROCKWELL DELTA 20" DRILL PRESSES

CONVERT YOUR PRESENT ROCKWELL DELTA 20" HAND OR POWER FEED DRILL PRESSES FOR EXTRA SLOW DRILLING SPEEDS WITH THESE NEW PLANETARY GEAR SPINDLE PULLEYS



Hand Feed 20" Head Shown with
Five-Step Geared Spindle Pulley

NOW! Rockwell Delta 20" Drill Presses are available with planetary gear spindle pulleys that provide a 3 to 1 reduction ratio. By reducing the spindle speed and multiplying the torque, the capacity of the Delta 20" Hand or Power Feed Drill Press is increased. You can drill and tap larger holes and handle operations like reaming, spotfacing and counter-boring.

Hand feed models have ten spindle speeds—five in direct drive and five in gear drive. With a 1725 rpm motor, the spindle speed range is from 165 to 2600 rpm, and with an 1140 rpm motor, from 110 to 1700 rpm.

Power feed models are equipped with a 4-step geared spindle pulley and conventional 5-step motor pulley. With the 49-108 V-belt which is standard equipment, eight spindle speeds (four in direct and four in gear drive), ranging from 165 rpm to 1800 rpm with a 1725 rpm motor, are obtained. With an 1140 rpm motor, the eight speeds range from 110 rpm to 1200 rpm.

Additional speeds can be obtained on power feed models by using the longer V-belt 49-109 (order separately if desired) and different steps on the motor pulley. This provides eight additional speeds, up to 2100 rpm in direct drive when using a 1725 rpm motor.

No. 20-635 Five-step Planetary Gear Spindle Pulley for 20" Hand Feed Drill Presses. Used instead of the standard equipment spindle pulley, this accessory provides ten spindle speeds. 15 lbs.

No. 20-634 Four-step Planetary Gear Spindle Pulley for 20" Power Feed Drill Presses. Used instead of the standard equipment spindle pulley, this accessory provides eight spindle speeds with the original equipment V-belt, plus eight additional speeds with the longer

V-belt 49-109 (order separately if desired). 15 lbs.

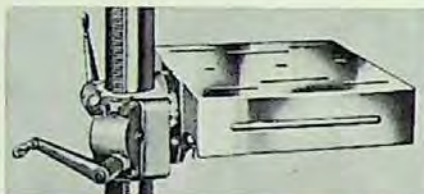
No. 49-109 Spindle V-belt for use with 20-634 Spindle Pulley. Longer in length than Standard Belt 49-108, it is used to obtain higher spindle speeds. Steel reinforced type, 64 $\frac{1}{8}$ " OC. $\frac{3}{4}$ lb.

NOTE: For Catalog Listing of 20" Geared Pulley Drill Presses, see Page 5.

DELTA QUALITY ACCESSORIES THAT MAKE THE 20" DRILL PRESSES EVEN MORE VALUABLE

No. 968 Drill Chuck—3-jaw type, 0 to $\frac{1}{2}$ " capacity, with No. 2 M.T. shank. Includes chuck key. 2 $\frac{1}{2}$ lbs.

No. 17-820 Drill Chuck—3-jaw type, 0- $\frac{1}{2}$ " capacity, with No. 3 M.T. shank. Includes chuck key. Use with straight shank drills in a drill press with No. 3 M.T. spindle. 3 lbs.



No. 20-660 Tilting Table—Table top and one side are finished to plane surfaces at right angles to one another. Tilts 90°, right and left. Ground work surface 16" front to back by 18" left to right, slotted, with tilt angle scale. Without 20-661 Raising Mechanism. For single spindle floor model drill press. 112 lbs.

No. 20-650 Production Table—15 x 18" ground work surface (including coolant trough, 19 $\frac{1}{4}$ x 22"). With 4 diagonal and 2 parallel blind T-slots for $\frac{1}{2}$ " bolts. Without 20-661 Raising Mechanism. For single spindle floor model drill presses. 112 lbs.

No. 20-661 Raising Mechanism—For head or table of 20" Drill Press. Fits Tables 20-660 and 20-650. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

No. 20-636 Booster Spindle Return Spring Kit—Includes clock spring with case, pinion shaft stub extension and instructions for field mounting on hand or power feed machines. Provides about 80 to 90 pounds of lift when used with the standard equipment spring. It is especially recommended when multiple spindle heads, tapping heads or other heavy tooling is mounted on quill or spindle of machine. 2 lbs.

No. 20-420 Quill Assembly—Used to change any No. 3 M.T. spindle model to No. 2 M.T. spindle. Consists of quill with No. 2 M.T. spindle, assembled with collar, ball bearings and flinger collar. 3 lbs.

No. 20-430 Quill Assembly—Used to change any No. 2 M.T. spindle model

to No. 3 M.T. spindle. Consists of quill with No. 3 M.T. spindle, assembled with collar, ball bearings and flinger collar. 6 lbs.

No. 49-235 Motor Pulley—5-step. Specify $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ or 1" bore. 3 $\frac{1}{2}$ lbs.

No. 49-108 Belt—Standard (steel reinforced), 62 $\frac{1}{2}$ " OC. $\frac{3}{4}$ lb.

NOTE: For additional accessories, see Section A9; for Coolant Equipment, see Section D1.



ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

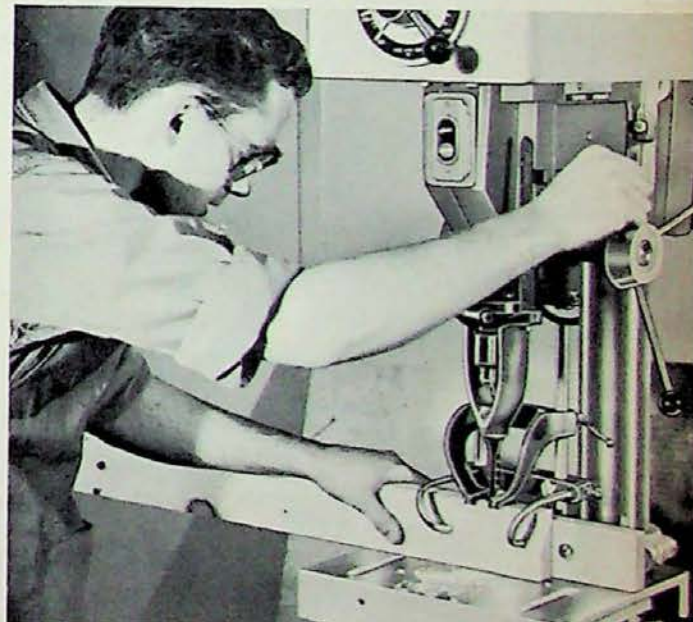
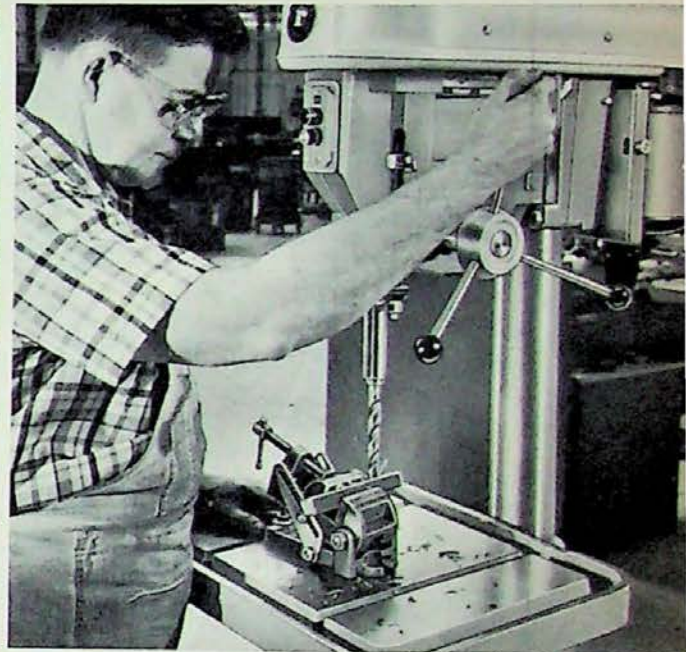
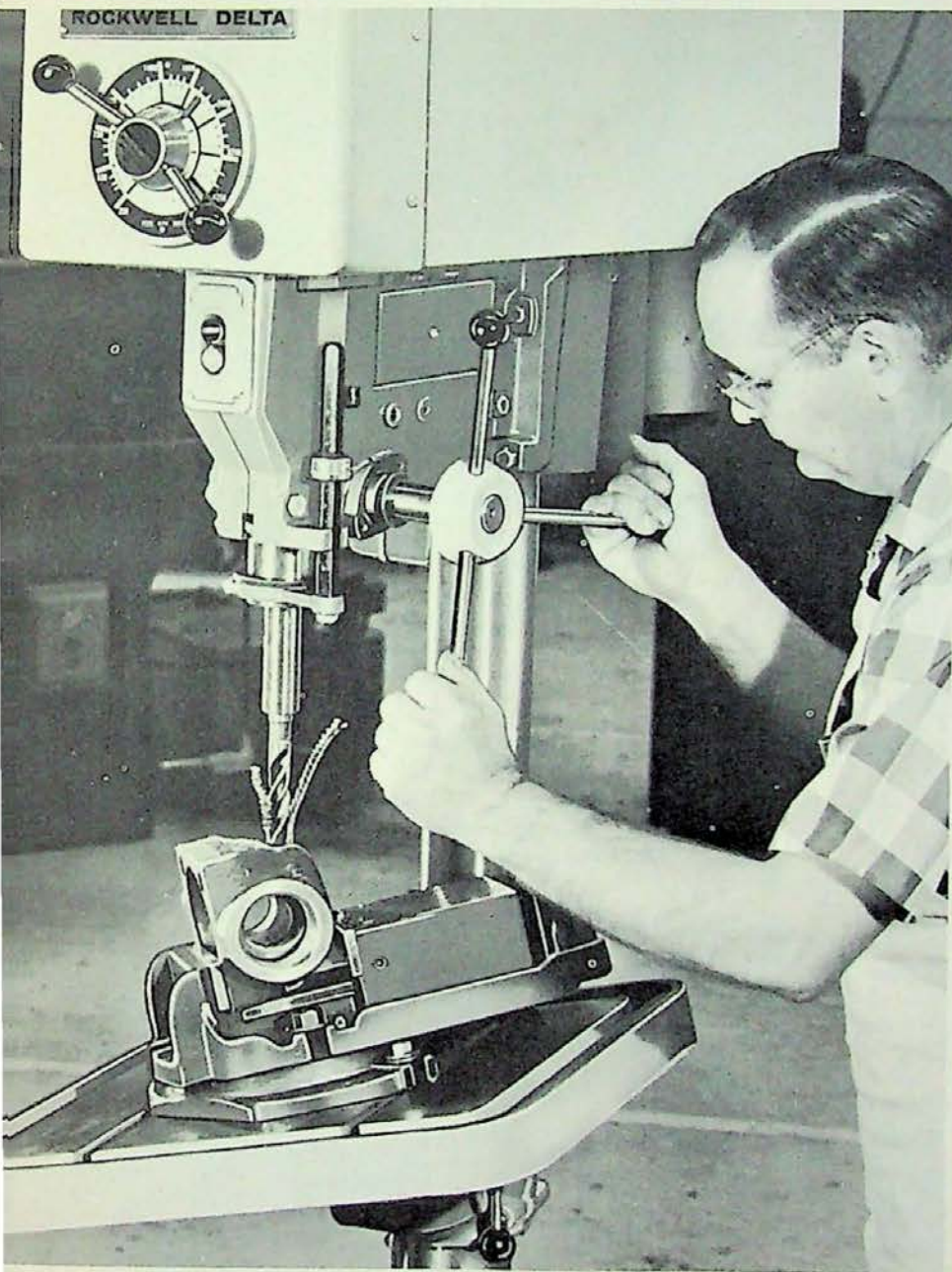
Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shutdowns and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

ROCKWELL DELTA 17" DRILL PRESS LINES

Offer a combination of features that guarantee long service life, consistent precision performance and maximum operating economy.

- **WIDEST** Speed Range—230 to 4250 RPM—on Variable Speed Models.
- **UNIQUE** Double Spindle on all models.
- **UNMATCHED** Six Interchangeable Spindle Adapters on key chuck models.
- **SELF-LOCKING, Positive Depth Stop** on all models.

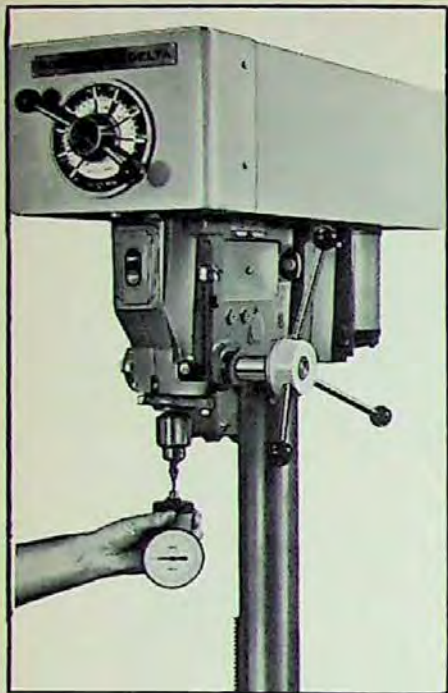
And with the world's only "Triple Variable" Drill Press you get: infinitely variable speed (12-to-1 ratio) ... variable feed rate (.002 to .020 ipr) ... and variable drill point pressure (0 to maximum required).



Let us "Performance-Prove" these profit builders for you today!

ROCKWELL DELTA 17" DRILL PRESSES

DELTA QUALITY FEATURES THAT PROVE THE SUPERIORITY OF DELTA 17" DRILL PRESSES



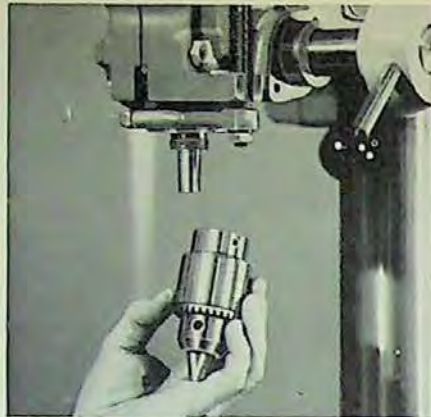
Widest, Test-Proven Speed Range . . . You can prove the tremendous 12-to-1 speed ratio of the Rockwell Delta 17" Variable Speed Drill Press by actual tachometer test.

Benefits: You get the exact speed you need for every kind of drillable material—350 to 4250 RPM with a 1725 RPM motor—230 to 2830 RPM with an 1140 RPM motor. Only Delta gives you a BONUS of extra speeds in both the high and low speed range.



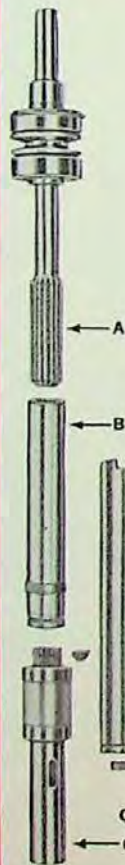
New, Improved Variable Speed Drive . . . With less than one complete turn of the large speed control pilot wheel, you can select any speed instantly while the machine is running. A self-locking cam, plus a "snubber" feature, holds speed settings constant under all load conditions. Proper belt tension is automatically maintained for full power transmission.

Benefits: Industry's widest speed range permits drilling all materials at the correct speed. Speed changes are made while the machine is running to save the operator's time. Control of speed is extra safe because there is no need to manipulate the belt or pulleys by hand.



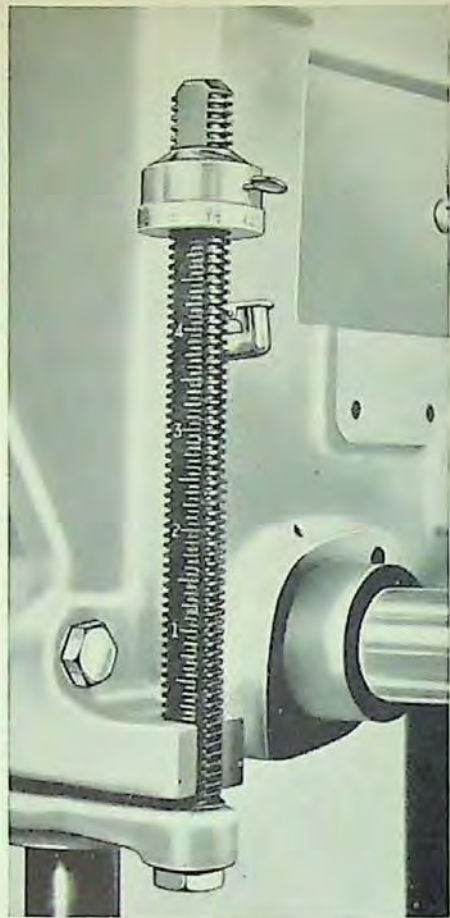
Unmatched Versatility . . . Six interchangeable spindle adapters make Rockwell Delta Key Chuck Models unsurpassed in their ability to do many different jobs.

Benefit: These spindle adapters adapt the 17" Drill Press in seconds for operations varying from drilling to wood planing or routing, including counter-boring, reaming, spot facing, sanding and mortising, as well as buffing and many other operations.



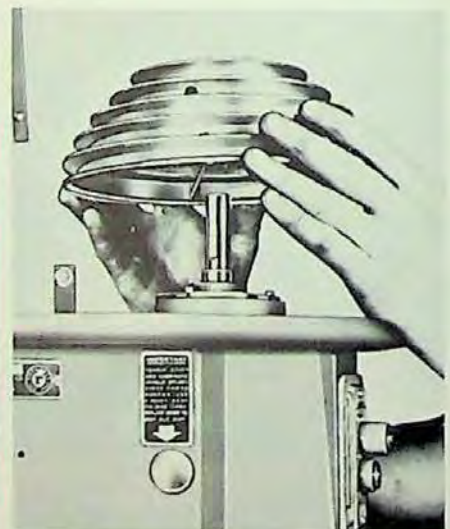
Unique Double Spindle . . . Only Rockwell Delta 17's offer a dual spindle design. Upper spindle (A) takes all belt pull and transmits torque through 16-splined free-floating drive sleeve (B) to rigid, short lower spindle (C). Four lubricated-for-life ball bearings (plus an extra bearing on variable speed models) are used—two on the upper spindle and two on the lower spindle.

Benefits: Short lower spindle design eliminates whipping and insures accuracy. You get chatter-free performance, even on special operations like reaming or countersinking.



"Self-Locking" Depth Stop . . . Unlike competitive depth stops, Delta's self-locking design guarantees that it will never change its setting.

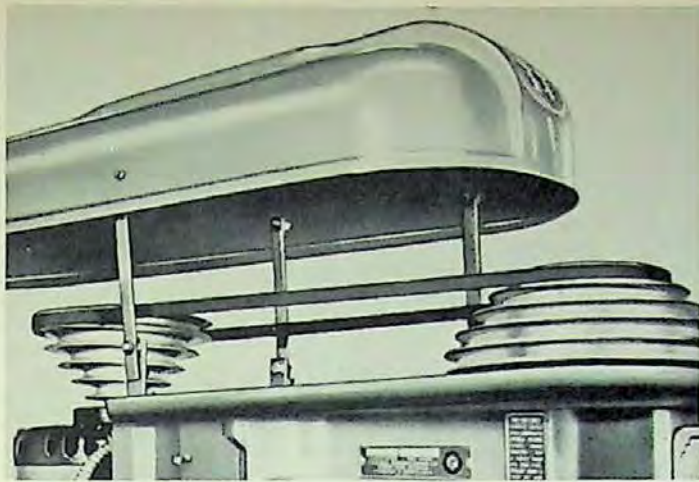
Benefits: Positive setting eliminates ruined work pieces . . . permits fast set-ups for absolute depth control. Sleeve is calibrated to show changes down to .002".



Quick Conversion Pulleys . . . The dynamically balanced pulleys on Rockwell Delta 17" Step Pulley Drill Presses may be changed quickly by simply loosening one set screw.

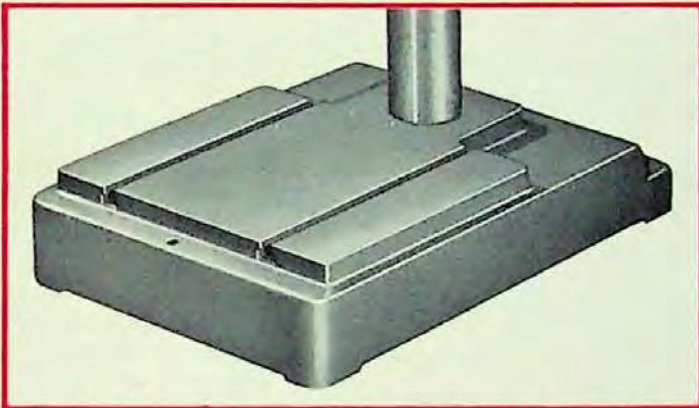
Benefit: You convert quickly from high to slow speed model or vice versa to keep production moving.

ROCKWELL DELTA 17" DRILL PRESSES



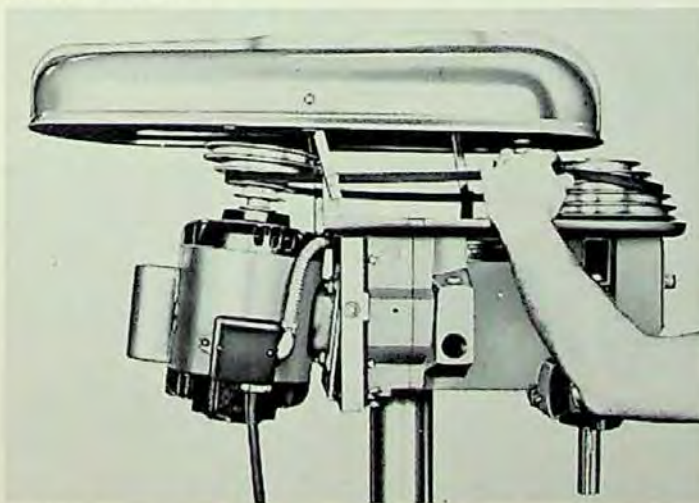
Interference-Free Guard . . . All steel guard swings up high and back, while three specially designed supports and a stop, hold guard in desired "up position."

Benefits: With all interference practically eliminated, operator makes belt and speed changes quickly. Built-in clips automatically lock guard in place when closed.



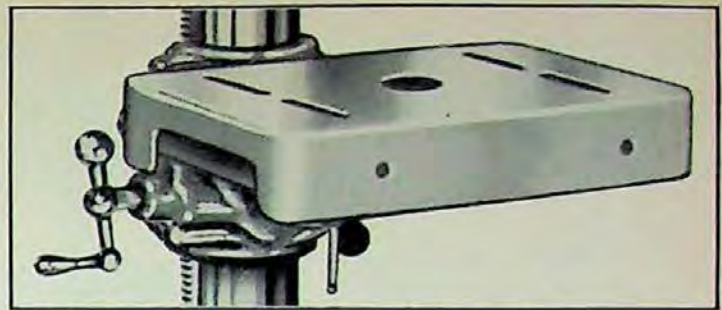
Heavy Duty Base . . . Extra large 17 $\frac{3}{4}$ x 25 $\frac{1}{2}$ " floor base has spacious 13 $\frac{3}{4}$ x 16 $\frac{7}{16}$ " work surface. Two full length T-slots permit quick insertion of T-bolts from either front or rear.

Benefits: Massive, spacious base provides stability for machine, plus rigid mounting for column, guaranteeing greater accuracy at the spindle. Blind T-slots speed up clamping of jigs and fixtures.



Perfected Motor Mount . . . Specially designed, pivot type motor mount on Delta 17" Step Pulley Drill Presses assures longer belt life because belt tension is fully released before changing from one pulley speed to another.

Benefit: Proper running tension on belt is maintained at all times, preventing undue wear on bearings.



Modern Table Design . . . Slots and side ledges make clamping of work easy. Machined front apron has mounting holes. Table tilts 90° right and left for angle drilling. Tapered, expanding bushing provides maximum gripping power for rigid positioning of table at any angle.

Benefit: Quick, accurate clamping of work speeds up production and eliminates work spoilage.



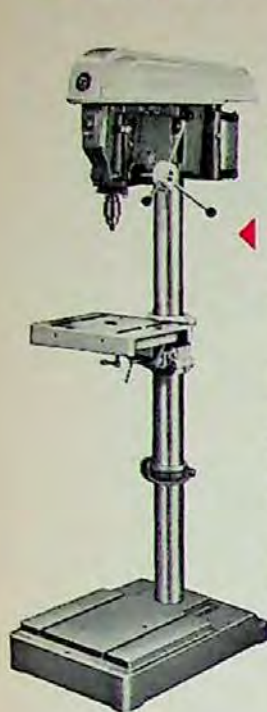
The Only "Triple Variable" Drill Press . . . Only Rockwell Delta 17" Variable Speed Drill Presses with Vari-Rate Power Feed offer you this 3-in-1 combination: ① Variable Speed—230 to 4250 RPM ② Variable Feed—.002 to .020 ipr ③ Variable Drill Point Pressure—0 to maximum.

Benefits: You can select the *exact* drilling speed you need for every material, hard or soft. You can dial the *exact* feed required, while the chip is forming. You can dial the *exact* drill point pressure you desire—extra thrust for large drills, delicate pressure for tiny drills.

PLUS THESE EXTRAS

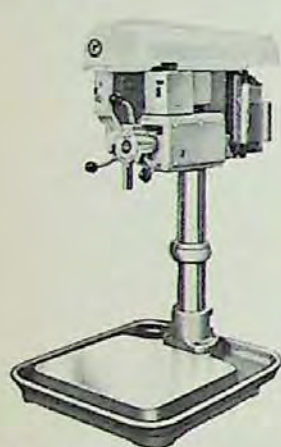
- Quill is rigidly supported by 3 precision-bored lands in the head, providing extra smooth travel.
- Rubber cushion ring absorbs shock between head and quill collar, or mortising chisel holder, while garter spring holds these parts on quill with light clamping pressure. This avoids quill distortion and prolongs bearing life.
- Handy, self-closing oil cup permits single-point lubrication of quill surface and pinion shaft.
- All heads are machined, ready for mounting Rack and Pinion Type Raising Mechanism.

ROCKWELL DELTA 17" DRILL PRESSES



5-Step Pulley Floor Model with tilting table and key chuck spindle. Available with production table and No. 2 M.T. spindle.

Variable Speed Floor Model with production table, No. 2 M.T. spindle and Vari-Rate Power Feed. Available with tilting table and key chuck spindle.



5-Step Pulley Bench Model with production table, No. 2 M.T. spindle and Vari-Rate Power Feed. Available with key chuck spindle and Five-Rate Power Feed.



Variable Speed Multiple Spindle Model—Available in 2, 3, 4, 5 or 6 spindles with $\frac{1}{2}$ " key chuck or No. 2 M.T. spindle, hand or power feed, on both Step Pulley and Variable Speed Models. Can be ordered as cataloged, or custom assembled (either at the factory or in your shop) using any combination of Step Pulley or Variable Speed Heads with any number of spindles from one to a drill press a block long if desired.



Floor Model—Hand feed with No. 2 M.T. spindle and extra large production table. Spacious $23\frac{3}{8}$ " x 36" table working surface makes machine especially suited for handling large dies, jigs, fixtures and patterns. Increases efficiency while stepping up production. An excellent unit for the tool and die shop, machine shop and pattern shop.

In the tool room, experimental department, machine or model shop, and in school or cabinet shops, Rockwell Delta 17" Drill Presses will meet your most demanding requirements. They are the finest machines ever offered in their class.

Here's why: Only the Rockwell Delta Variable Speed 17 provides a 12-to-one speed ratio, enabling you to do superior work with almost any material. Only Rockwell Delta 17's make available a Unique Double Spindle eliminating spindle whip and providing greater accuracy. Only Rockwell Delta makes six interchangeable spindle adapters available to make Delta 17's unsurpassed in their ability to do many different jobs. Only Rockwell Delta offers a "Self-Locking" Depth Stop that never changes its setting.

POWER FEED—FACTORY MOUNTED ON ROCKWELL DELTA 17" DRILL PRESSES

CATALOG NUMBER	TYPE OF POWER FEED	WT., LBS.
17-819	*†Variable Rate Type (.002 to .020 ipr)	56

*Feed pressure infinitely variable from 0 to maximum required.
†Above power feed supplied factory mounted only. Not supplied for field mounting. Minimum spacing of multiple spindle 17" power feed heads is 18".

NOTE: For Automation and Remote Control Kits for field mounting, and for complete description of Power Feed, see accessory section.

MACHINE DATA

Overall Dimensions:

Bench Type:

Height (Step Pulley) $49\frac{3}{8}$ " ; (VS) $51\frac{1}{8}$ "
Width (Step Pulley) $23\frac{1}{2}$ " ; (VS) $23\frac{3}{8}$ "
Front to Rear (Step Pulley) . . . $35\frac{15}{32}$ " ; (VS) $36\frac{3}{8}$ "

Floor Type (with Production Table):

Height (Step Pulley) 70" ; (VS) $71\frac{3}{4}$ "
Width (Step Pulley) $18\frac{1}{4}$ " ; (VS) $20\frac{1}{2}$ "
Front to Rear (Step Pulley) . . . $32\frac{1}{2}$ " ; (VS) $32\frac{3}{8}$ "

Table Working Surface, Ground:

Standard 11 x 14"
Production:
Overall 16 x $20\frac{1}{2}$ "
Inside of Coolant Trough $12\frac{1}{2}$ x 17"
T-Slots (Two on 9" Centers) $\frac{9}{16}$ "

Base Working Surface:

Bench 16 x 18" Floor $13\frac{3}{4}$ x $16\frac{3}{16}$ "

Quill:

Stroke (Manual Feed) . . . 0 to 5" (Power Feed) . . . $\frac{1}{2}$ to 5"
Diameter $2\frac{1}{4}$ "

Capacities:

Key Chuck 0 to $\frac{1}{2}$ "
Dia. Hole in Cast Iron $\frac{7}{8}$ " In Steel $1\frac{1}{16}$ "

Spindle Speeds:

Step Pulley Models:

With 1725 RPM Motor:
High Speed Model . . . 700, 1150, 1750, 2750 and 4250 RPM
Slo Speed Model 385, 600, 935, 1450 and 2240 RPM

With 1140 RPM Motor:

High Speed Model . . . 460, 760, 1140, 1815 and 2800 RPM
Slo Speed Model 255, 400, 615, 960 and 1475 RPM

Variable Speed Models:

With 1725 RPM Motor 350 to 4250 RPM
With 1140 RPM Motor 230 to 2830 RPM

Power Feed Models:

Feeds:
Variable Rate Type from .002 to .020 ipr
Feed Pressure Infinitely variable from 0 to max. required
Column: Diameter $3\frac{1}{2}$ " ; Wall Thickness $1\frac{1}{64}$ "

Motor Plate: Accommodates NEMA 182 Frame Motors.

STANDARD EQUIPMENT

Table raising mechanism on single spindle floor models. Head raising mechanism on multiple spindle and bench models. Self-locking depth stop. Depth gage. Belt guard. All models include belt and motor pulley, $\frac{3}{4}$ " bore. Key chuck models include spanner wrench for spindle adapters.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA 17" DRILL PRESSES

*When Power Feed Is Desired, Order Catalog Number of Power Feed From Opposite Page.

SINGLE SPINDLE MODELS (Less Motor and Control—See Below)

TYPE	NO. 2 MORSE TAPER SLO SPEED	NO. 2 MORSE TAPER HIGH SPEED	1/2" KEY CHUCK SLO SPEED	1/2" KEY CHUCK HIGH SPEED	NO. 2 MORSE TAPER VARIABLE SPEED	1/2" KEY CHUCK VARIABLE SPEED
Standard Tilling Table Floor Models	17-605 268 lbs.	17-606 268 lbs.	17-607 268 lbs.	17-608 268 lbs.	17-227 315 lbs.	17-228 315 lbs.
Production Table Floor Models	17-610 302 lbs.	17-611 302 lbs.	17-612 302 lbs.	17-613 302 lbs.	17-229 396 lbs.	17-230 396 lbs.
Production Table Bench Models	17-630 305 lbs.	17-631 305 lbs.	17-632 305 lbs.	17-633 305 lbs.	17-231 392 lbs.	17-232 392 lbs.
Heads Only	17-600 98 lbs.	17-601 98 lbs.	17-602 102 lbs.	17-603 102 lbs.	17-225 155 lbs.	17-226 155 lbs.

Table working surface—Standard 11 x 14", Production (floor model) 12 1/2 x 17" with one 3/4" pipe tap at rear, Production (bench model) 16 x 18" with two 3/4" pipe taps at rear. Standard table tilts 90° left and right. Production table for floor models tilts 17° left and right.

SINGLE AND MULTIPLE SPINDLE PRODUCTION TABLE FLOOR MODELS (Less Motors and Controls—See Below)

TYPE		NO. 2 MORSE TAPER SLO SPEED	NO. 2 MORSE TAPER HIGH SPEED	KEY CHUCK SLO SPEED	KEY CHUCK HIGH SPEED	NO. 2 MORSE TAPER VARIABLE SPEED	1/2" KEY CHUCK VARIABLE SPEED
1 Spindle— 3/4" Pipe Tap at Rear		17-614 593 lbs.	17-615 593 lbs.	17-616 593 lbs.	17-617 593 lbs.	17-243 640 lbs.	17-244 640 lbs.
2 Spindle — 3/4" Pipe Tap at Rear		17-640 722 lbs.	17-641 722 lbs.	17-642 722 lbs.	17-643 722 lbs.	17-233 836 lbs.	17-234 836 lbs.
3 Spindle — 3/4" Pipe Tap at Each End		17-650 943 lbs.	17-651 943 lbs.	17-652 943 lbs.	17-653 943 lbs.	17-235 1350 lbs.	17-236 1350 lbs.
4 Spindle — Two 3/4" Pipe Tap at Rear		17-660 1300 lbs.	17-661 1300 lbs.	17-662 1300 lbs.	17-663 1300 lbs.	17-237 1628 lbs.	17-238 1628 lbs.
5 Spindle — 3/4" Pipe Tap at Each End		17-680 1755 lbs.	17-681 1755 lbs.	17-682 1755 lbs.	17-683 1755 lbs.	17-239 2140 lbs.	17-240 2140 lbs.
6 Spindle — 3/4" Pipe Tap at Each End		17-690 2249 lbs.	17-691 2249 lbs.	17-692 2249 lbs.	17-693 2249 lbs.	17-241 2691 lbs.	17-242 2691 lbs.

Coolant equipment not included with machines. Order separately (see Section D1). Tables with three or more sections have three steel legs, other machines have two legs. Multiple spindle tables have 1/2" coolant trough all around. Working surface is 32" from floor. Spindle to table maximum with No. 2 Morse Taper or Key Chuck (jaws closed)—25 3/4".

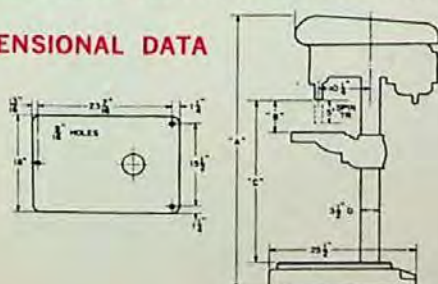
MOTORS/CONTROLS (Factory Mounted-Wired) (On multiple spindle units, designate head (1st, 2nd, etc.) on which each motor and control group is to be factory mounted.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIP. WT., LBS.	CATALOG NUMBER
Single Phase, 3/4 Horsepower	Push Button Switch Only	Guarded Drip Proof	60 - 1725	115/230	53	49-440
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1725	115/230	58	49-726
	Push Button Switch Only	Guarded Drip Proof	60 - 1140	115/230	71	49-404
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1140	115/230	76	49-727
Single Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60 - 1725	115/230	73	49-444
	Push Button and Overload Switches	Guarded Drip Proof	60 - 1725	115/230	76	49-675
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1725	115/230	78	49-728
	Push Button Switch Only	Guarded Drip Proof	60 - 1140	115/230	73	49-729
Three Phase, 3/4 Horsepower	Push Button and Overload Switches	Guarded Drip Proof	60 - 1140	115/230	76	49-676
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1140	115/230	78	49-730
	Push Button Switch Only	Guarded Drip Proof	60 - 1725	230/460	45	49-441
	Push Button and Overload Switches	Guarded Drip Proof	60 - 1725	230/460	48	49-731
Three Phase, 1 Horsepower	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1725	230/460	50	49-732
	P. B. Switch and Mag. Starter w/115V. Trans.	Guarded Drip Proof	60 - 1725	230/460	52	49-733
	Push Button Switch Only	Guarded Drip Proof	60 - 1140	230/460	49	49-408
	Push Button and Overload Switches	Guarded Drip Proof	60 - 1140	230/460	52	49-734
Three Phase, 1 Horsepower	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1140	230/460	54	49-735
	P. B. Switch and Mag. Starter w/115V. Trans.	Guarded Drip Proof	60 - 1140	230/460	56	49-736
	Push Button Switch Only	Guarded Drip Proof	60 - 1725	233/460	59	49-445
	Push Button and Overload Switches	Guarded Drip Proof	60 - 1725	230/460	62	49-737
Three Phase, 1 Horsepower	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1725	230/460	64	49-738
	P. B. Switch and Mag. Starter w/115V. Trans.	Guarded Drip Proof	60 - 1725	230/460	66	49-739
	Push Button Switch Only	Guarded Drip Proof	60 - 1140	230/460	58	49-740
	Push Button and Overload Switches	Guarded Drip Proof	60 - 1140	230/460	61	49-741
Three Phase, 1 Horsepower	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60 - 1140	230/460	63	49-742
	P. B. Switch and Mag. Starter w/115V. Trans.	Guarded Drip Proof	60 - 1140	230/460	65	49-743

NOTE: Single spindle drill presses will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied for 230 V, unless 208 V or 460 V is specified. Power Cord and Plug supplied

for single phase only. Motors and motor controls for Rockwell Delta 17" Drill Presses may be ordered unmounted. For listing, see Sections P and Q. 3/4 HP Motors not recommended for Power Feed or Var. Speed Models.

DIMENSIONAL DATA



17" STEP PULLEY AND VARIABLE SPEED DRILL PRESSES	Model (Step Pulley or Var. Speed)	No. 2 M.T. and 1/2" Key Chuck Models (Jaws Closed)		
		"A" Overall Height	"B" Spindle To Table (Max.)	"C" Spindle To Base (Max.)
Bench Type w/Production Table	SP	49 3/4"	25 1/4"	—
	VS	51 1/4"	25 1/4"	—
Floor Type w/Tilting Table	SP	70"	34 3/4"	45 1/4"
	VS	71 3/4"	34 3/4"	45 1/4"
Floor Type w/Production Table	SP	70"	33"	45 1/4"
	VS	71 3/4"	33"	45 1/4"

ROCKWELL DELTA 17" DRILL PRESSES

COMPONENTS FOR BUILDING SPECIAL-PURPOSE MACHINES

(Used with Rockwell Delta Step Pulley and Variable Speed 17" Drill Press Heads.)

No. 1366 Flange, for mounting column on table, with screws (not for floor type). 10 lbs.

No. 1368 Column, 3½" diameter by 38½" long. 21 lbs.

No. 1367 Column, 3½" diameter by 62" long. 33 lbs.

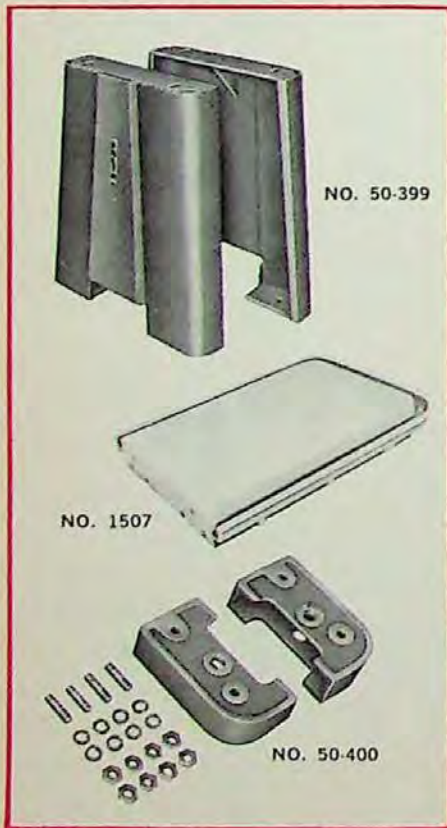
No. 17-818 Column, 3½" diameter by 84" long. 46 lbs.

No. 17-801 Raising Mechanism for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 10 lbs.

No. 17-827 Production Table, one piece, for single spindle set-up. Ground work surface of 23¾" x 36". Fits No. 50-399 Legs. 366 lbs.

No. 1513 Production table, one piece for 2 spindle set up. Ground work surface of 23¾" x 36". Fits No. 50-399 legs. 366 lbs.

No. 1514 Production table. 16 x 18" ground work surface for single spindle bench model 17" drill presses. Does not fit 50-399 legs. 120 lbs.



No. 1515 Production table, one piece for 4 spindle set up. Ground work surface of 23¾" x 77". Fits 50-399 legs. 804 lbs.

No. 1505 Production table, center section, 23¾" front to rear x 30" left to right ground work surface with 1½" coolant trough. 365 lbs.

No. 1507 Production table, end section, 23¾" front to rear x 32½" left to right ground surface with 1½" coolant trough and ¾" pipe tap at end. 352 lbs.

No. 50-399 Legs, steel, one pair, 27½" high for mounting tables 1513 and 1515, also table sections 1505 and 1507. 100 lbs.

No. 50-506 Leg, steel, 27½" high for mounting production tables and sections. 50 lbs.

No. 50-400 Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under legs 50-399 and 50-506. *One pair required for each single leg to raise machine 2"*. Two blocks can be stacked to raise machine 4". 8 lbs.

Refer to Page 6, Section A3 for important ordering data on tables and minimum center distance for columns. For Coolant Equipment, see Section D1.

UNIQUE ROCKWELL POWER FEED

(For Catalog Listing, See Page 4)

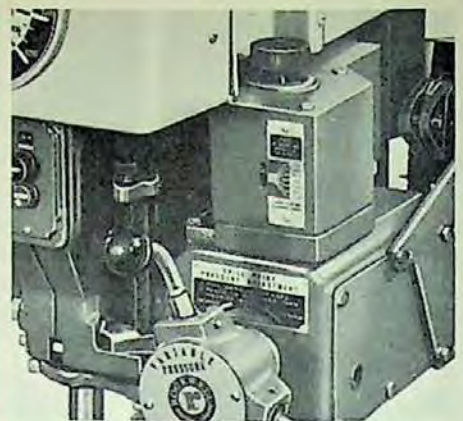
Only the Rockwell Power Feed offers "up-front" control combined with one-hand operation—never before available on a standard 20" drill press! And the Rockwell Variable-Rate Power Feed provides these important benefits:

Saves on Labor Costs—faster and easier to operate, it is especially valuable on set-ups where the operator can do other jobs during the power feed cycle.

Improves Quality—correctly engineered feeds and speeds are maintained to produce holes that are round, true to size and depth, with a high quality finish.

Increases Production—mechanical feed maintains established production rate, is not subject to slow-downs due to operator fatigue.

Equipped with the unique Rockwell Mechanical Power Feed, Delta 17's not only are ideal for conventional drill press operations, but also are perfectly suited for both small hole drilling and for drilling large holes up to the maximum capacity of the machine.



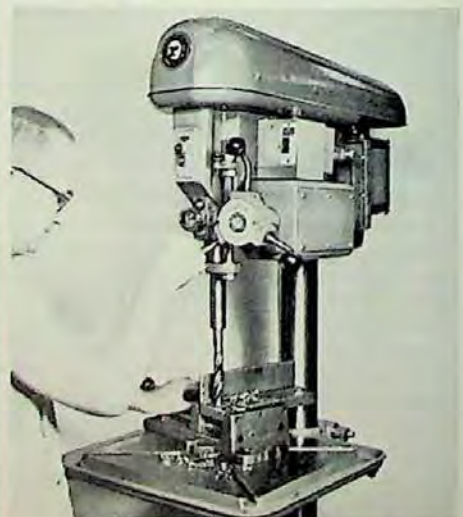
Rockwell Variable-Rate Mechanical Power Feed

Here's what the Rockwell Variable-Rate Mechanical Power Feed gives you:

- Offers widest selection of drilling feeds—10 to 1 ratio.
- Permits infinite choice of feeds within the range—.002 to .020 ipr.
- Facilitates feed changes—operator selects desired feed rate while the machine is running.
- Provides "up-front" control combined with one-hand operation.
- Includes adjustable clutch with infinite or "job-tailored" drill point pressure.
- Incorporates provision for remote control or electronic interlocking with automation devices.

FEATURES THAT PROVE THE SUPERIORITY OF THE ROCKWELL POWER FEED

"Up-Front Control—Rockwell's unique concept in power feeds provides up-front control combined with one-hand operation. Fitting the mechanical control movements to the natural, easy motion of the operator's hand brings "flick-of-the-wrist" control with freedom from fatigue.



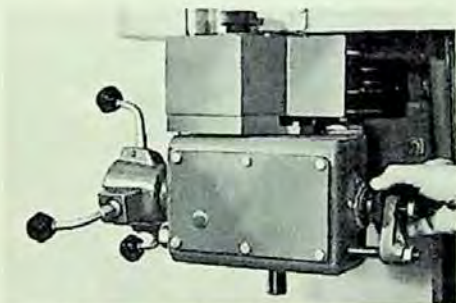
ROCKWELL DELTA 17" DRILL PRESSES

Flexibility of Feeds—A simple one-hand movement gives the user all these choices: (1) Accelerated manual rapid approach, then power feed by a simple wrist movement (2) Skip drilling—rapid approach, feed, rapid approach, feed. (3) Straight power feed. (4) Straight manual feed.

All of the above choices are immediately available to the operator *without* any adjustment of the mechanism.



Unmatched Feed Range—Only the Rockwell Variable-Rate Power Feed provides a feed range of 10 to 1 (.002 to .020 ipr), almost double that of any other model available. Within the range, any feed may be selected as opposed to a choice of only 3 to 5 selections on conventional feed drill presses. This permits you to dial the exact feed required while the chip is forming.



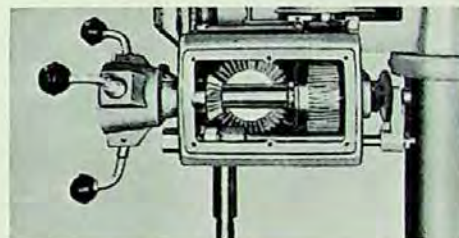
"Job-Tailored" Drill Point Pressure—With the Rockwell Vari-Rate Power Feed, the operator can turn a knurled hand wheel at the back and "tailor" the drill point maximum thrust to whatever the job requires (see top photo above). This means that he can power feed on a production basis throughout a wide range of hole diameters. He can delicately handle small holes down in the $\frac{1}{16}$ " diameter range (proof—17 jewel Bulova watch crystal did not break

in actual test shown above). Then, by a simple adjustment, he can deliver power and thrust for drilling holes up to the maximum capacity of the machine. Infinitely adjustable drill point pressure from 0 to maximum avoids drill breakage, protects all moving parts against overloading, yet, all the thrust ever needed is always available.



Built-In Automation and Remote Control Feature—Only Rockwell offers a mechanical power feed with provision for remote control or interlocking with automation devices such as rotary tables, clamps and work feeds.

Photo shows actuating plunger (at rear) which can be connected with solenoids, electrical control switches, mechanical or hydraulic devices to interlock feed mechanism with automation accessories. The same plunger, an extension of the clutch shaft, permits remote control which completely frees the operator from any manual effort.



Rugged Power Feed Construction—Photo illustrates the rugged, yet simple construction of the unique Rockwell Power Feed.

The double reduction mechanism, with two extra large bevel gears, permits the hand wheel to be ideally proportioned for quick, effortless operation.

INCREASE PRODUCTION BY ADDING THE AUTOMATION AND REMOTE CONTROL KIT TO YOUR ROCKWELL DELTA 17" POWER FEED DRILL PRESSES

This kit, when added to your Rockwell Delta 17" Drill Press, will speed up production and provide added operator convenience. Instructions for easy field mounting are included.

Rockwell Delta Automation and Remote Control Kit Offers These User Benefits:

- It's ideal for interlocking with such automation devices as rotary tables, clamps and work feeds.
- Can be remotely actuated from any control station, enabling operator to perform other functions.
- Power Feed starts instantly when switch is closed.
- Unit can be operated at a frequency of up to ten operations per minute.
- Power Feed may be actuated or disengaged using hand control, if desired, without disconnecting remote control solenoid.
- Use of foot switch enables operator to walk up to drill press with hands loaded, then step on switch to place unit in operation.
- Kit is available for 230 or 460 volt, 60 cycle, single phase operation.

No. 49-436 Automation and Remote Control Kit for Rockwell Delta 17" Power Feed Drill Presses. Includes 230 volt, 60 cycle, single phase solenoid; mounting bracket; lever arm with shaft and instructions for field mounting. 17 lbs.

No. 49-437 Automation and Remote Control Kit for Rockwell Delta 17" Power Feed Drill Presses. Same as 49-436 except 460 volt. 17 lbs.



Shown is the Automation and Remote Control Kit with foot switch mounted on a Delta Power Feed Drill Press.



No. 49-436

Photograph illustrates the simplicity of the Rockwell Delta Automation and Remote Control Kit which consists of a solenoid, mounting bracket and lever arm with shaft.

ROCKWELL DELTA 17" DRILL PRESSES

**DELTA QUALITY
ACCESSORIES
THAT MAKE
DELTA
17" DRILL PRESSES
EVEN MORE
VERSATILE**

No. 968 Drill Chuck—3-jaw type, 0 to $\frac{1}{2}$ " capacity, with No. 2 M.T. shank. Includes chuck key. 2½ lbs.

No. 17-825 Production Table, 12½ x 17" ground work surface (including coolant trough, 16 x 20½") with two parallel T-slots for $\frac{1}{2}$ " T-bolts. Slots are on 9" centers and run from front to back. Table has 1½" coolant trough with one $\frac{3}{4}$ " pipe tap drain hole at left rear corner. Tilts 17° right and left and fits standard bracket on floor type, single spindle drill presses. 65 lbs.

No. 17-801 Raising Mechanism, for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 10 lbs.



No. 17-860 Slo-Speed Attachment. Provides 4.7 to 1 speed reduction for spot facing, reaming, counterboring, core drilling, etc. Fits No. 2 M.T. spindle models only. Speed range with the attachment on drill press, 75 to 475 rpm.

These slow speeds are in addition to the regular speeds obtained when the Slo-Speed Attachment is not on the drill press. Spindle travel with this attachment is 4". No. 17-836 Booster Spindle Return Spring Kit recommended for use with this Slo-Speed Attachment. 10 lbs.

SPINDLE AND ADAPTERS*



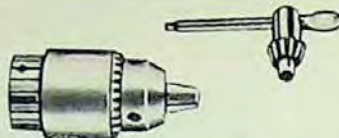
No. 17-880 Spindle, No. 3 M.T., with bearings. Includes instructions for installing on any model of Rockwell Delta 17" Drill Press. 3 lbs.



No. 15-833 Spindle Adapter, No. 2 M.T., with mounting collar tapped $1\frac{1}{16}$ "—20. 1 lb.



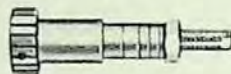
No. 15-832 Spindle Adapter, No. 1 M.T., with mounting collar tapped $1\frac{1}{16}$ "—20. 2 lbs.



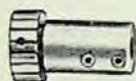
No. 15-830 Drill Chuck, 0½" capacity, with mounting collar tapped $1\frac{1}{16}$ "—20. Includes chuck key. 1½ lbs.



No. 15-835 Spindle Adapter, $\frac{1}{2}$ " shaft and flange, with mounting collar tapped $1\frac{1}{16}$ "—20. For cup, dish or straight grinding wheels. 1 lb.



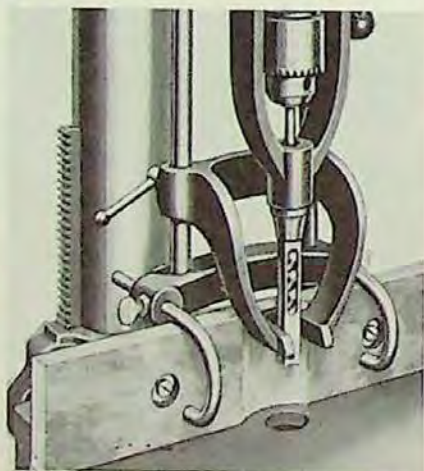
No. 15-836 Spindle Adapter, $\frac{1}{2}$ " shaft and spacing collars, with mounting collar tapped $1\frac{1}{16}$ "—20. For wood shaper cutters with $\frac{1}{2}$ " hole. 1 lb.



No. 15-837 Spindle Adapter, $\frac{1}{2}$ " hole, with mounting collar tapped $1\frac{1}{16}$ "—20. For router bits, wood bits, etc. 1 lb.

No. 15-838 Spanner Wrench, $1\frac{1}{2}$ " x $5\frac{3}{4}$ " long with single lug for $\frac{7}{32}$ " hole. Fits mounting collars of Chuck 15-830 and Adapters 15-832, 15-833, 15-835, 15-836 and 15-837.

*Adapters cannot be used with old style Delta 17" Drill Presses. Fit only $\frac{1}{2}$ " Key Chuck Models with $1\frac{1}{16}$ "—20 threaded spindle nose.



No. 1381 Mortising Attachment, fits key chuck models only. Consists of a heavy fence bolted to the drill press table. Two hooked rods hold work against fence and an adjustable hold-down keeps the work from being raised when the chisel is withdrawn. Capacity under hold-down—6½", from ends of hooked rods to fence—2½".

No. 17-836 Booster Spindle Return Spring Kit. For 17" Drill Presses Serial No. 137-5800 and higher. It provides about 80 to 90 pounds of lift when used with the standard spring. Especially recommended for use with the 17-860 Slo-Speed Attachment or when any heavy tooling like multiple spindle heads or tapping chucks are mounted on the quill or spindle of the machine. Includes clock spring, pinion shaft extension and instructions for field mounting. 2 lbs.



No. 882 Lamp Attachment uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1½ lbs.



No. 17-822 Belt Guard Top Cover Plate. For 17" Variable Speed (Spring Pulley Type) Drill Presses. Includes two oil hole plugs, cover plate for column hole and screws for mounting. 6 lbs.

SPEED CHANGING PARTS

No. 1391 Parts for converting drill press from Slo-Speed to High Speed model. Consists of high speed pulleys and 501 Belt. 7 lbs.

No. 17-862 Parts for converting drill press from High Speed to Slo-Speed model. Consists of slo-speed pulleys and 520 Belt. 10 lbs.

MOTOR PULLEYS

No. 1311 5-Step, for Slo-Speed. Specify $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ or $\frac{7}{8}$ " bore. 3 lbs.

No. 1312 5-Step, for High Speed. Specify $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ or $\frac{7}{8}$ " bore. 3 lbs.

MOTOR PULLEY ASSEMBLIES

No. 41-964 Variable Speed Type— $\frac{3}{4}$ " bore. 8 lbs.

No. 41-965 Variable Speed Type— $\frac{7}{8}$ " bore. 8 lbs.

BELTS

No. 501 V-belt, 51½" OC, for High Speed model. $\frac{1}{2}$ lb.

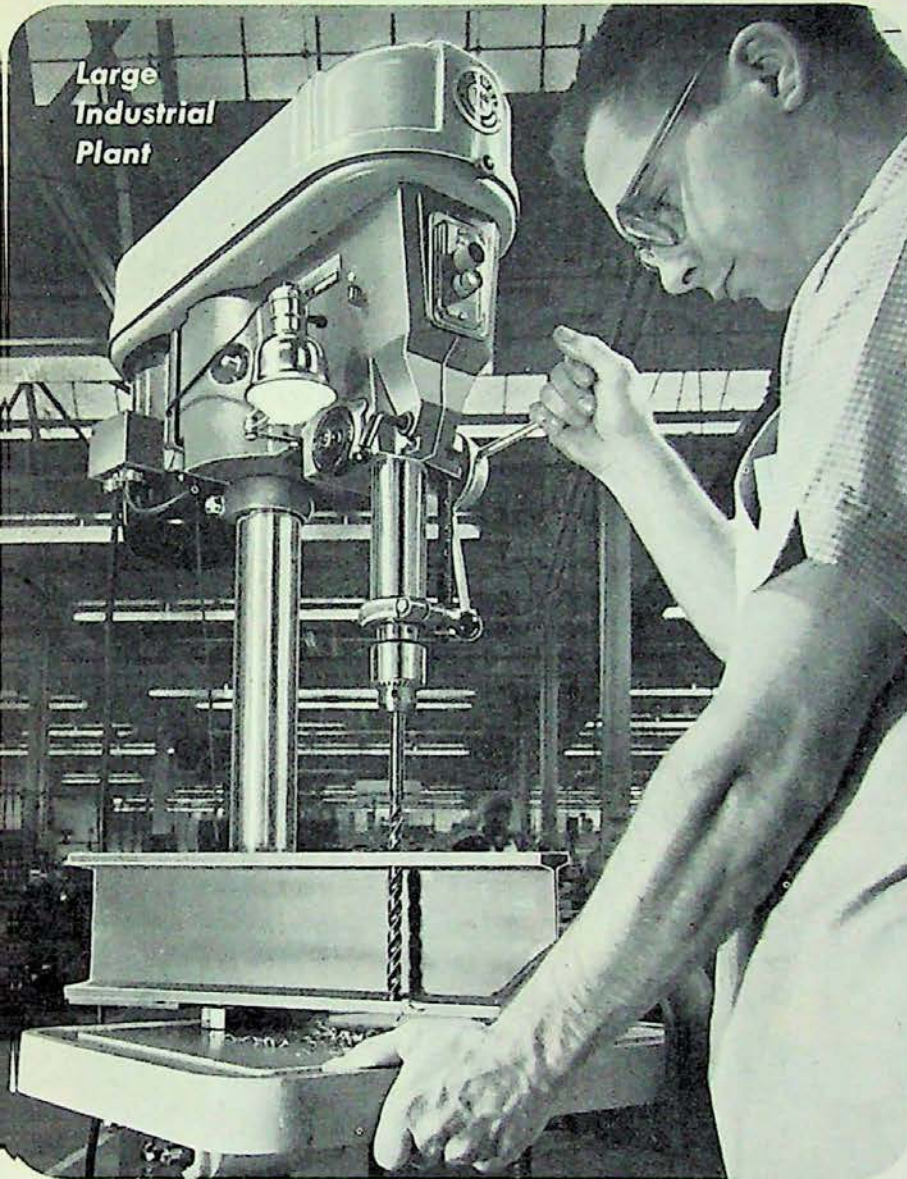
No. 520 V-belt, 54½" OC, for Slo-Speed model. $\frac{1}{2}$ lb.

No. 49-159 Variable Speed Belt, 55" OC. 1½ lbs.

Note: For additional accessories, see Section A9; for Coolant Equipment, see Section D1.

NEW, IMPROVED ROCKWELL DELTA 15" DRILL PRESSES THE "6 PLUS 6" AND "VS6"

Meet the Needs of Every User . . . Large or Small



Large
Industrial
Plant



Small
Job
Shop



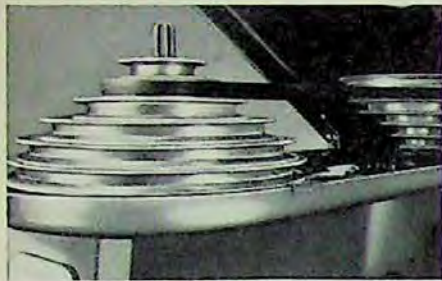
School
Shop

The new Rockwell Delta "6 PLUS 6" and "VS6" will outperform any other 15" step pulley or variable speed drill press on the market! Here's why: ■ An "industry first" 6 speeds—11.8 to 1 speed ratio on "6 PLUS 6" . . . an unmatched 10 to 1 speed ratio on "VS6" to handle all materials. ■ BIG 6" stroke for deep hole drilling and clearing jigs and fixtures. ■ Exclusive "Self-Locking" Depth Stop that *always* holds its setting . . . calibrated to show changes down to .002".

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

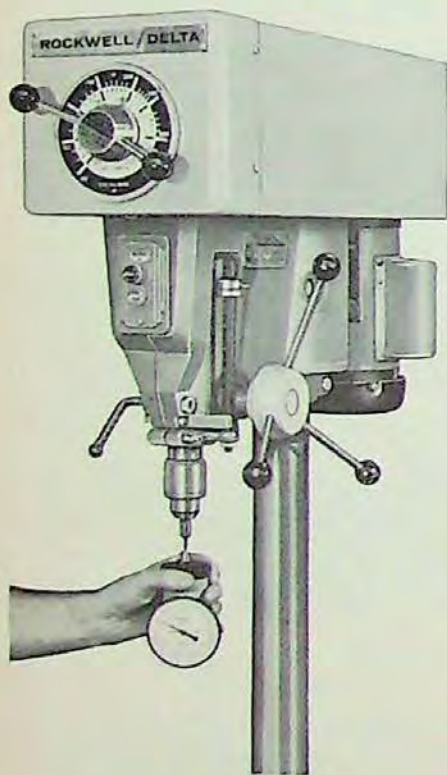
NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES

**DELTA QUALITY FEATURES
THAT GUARANTEE
BIG PERFORMANCE
ON EVERY JOB!**



Six Speeds—An Industry First . . . Only Delta's "6 PLUS 6" offers this unbelievably wide range of speeds with a low-cost 1725 RPM motor—425, 600, 1100, 2050, 3900 and 5500 RPM—11.8 to 1 speed ratio.

Benefits: You can choose an *extra slow speed* for drilling very hard materials . . . an *extra fast speed* for working soft materials . . . or an *optimum speed* for any size bit and material. This *one machine* does the work of *two former machines* (low and high speed).



Widest, Test-Proven Speed Range . . . The Delta is the only 15" Variable Speed Drill Press which gives you a *true 10-to-1 speed ratio*, *proven by actual test*.

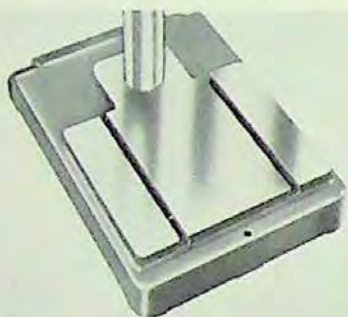
Benefits: You get the *exact speed* you need for *every drilling job* on *any material*—450 to 4700 RPM with a 1725 RPM motor—300 to 3100 with an 1140 RPM motor. *Only Delta* gives you a **BONUS** of extra speeds in both the high and low speed range.

A3



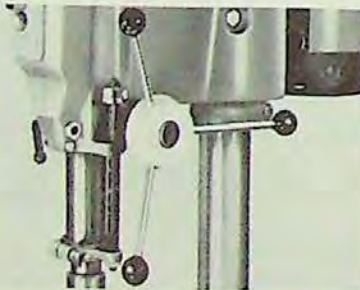
New, Improved Variable Speed Drive . . . Less than one complete turn of the large speed control pilot wheel lets you select *any spindle speed instantly* while machine is running. A self-locking cam, plus a "snubber" feature, holds speed settings *constant* under all load conditions. Proper belt tension is *automatically maintained* for *full power transmission*.

Benefits: Industry's *widest speed range* permits drilling *all materials* at the *correct speed*. Speed changes are made while the machine is running to save operator's time. Control of speed is *extra safe* because there is no need to manipulate the belt or pulleys by hand.



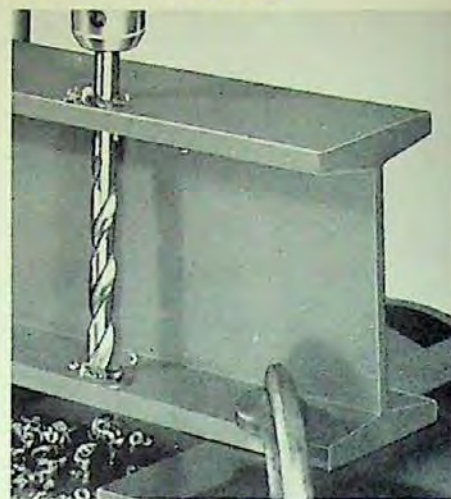
Massive Base . . . Heavy 15½ x 22½" floor base has spacious 11¼ x 14" work surface. Two full length T-slots permit quick insertion of T-bolts from either front or rear.

Benefits: Husky, extra large base provides stability for machine and rigid mounting for column, guaranteeing greater accuracy at the spindle. Blind T-slots speed up clamping of jigs and fixtures.



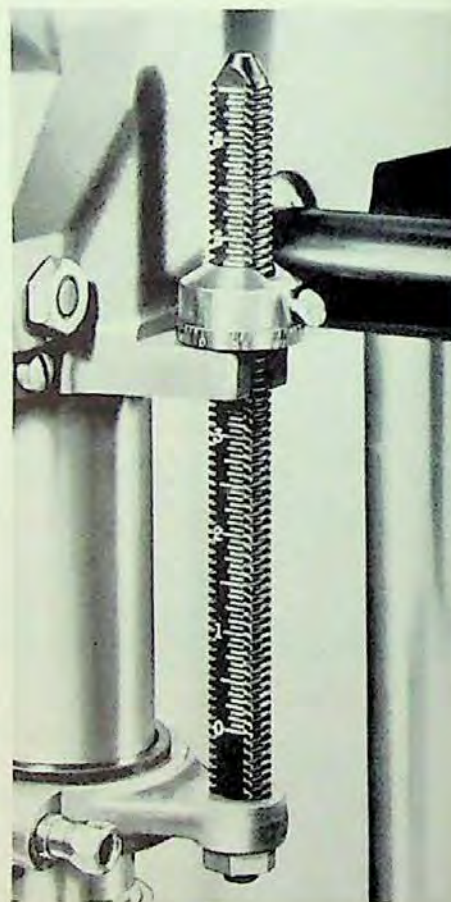
Convenient Pilot Wheel . . . Three spoke hand wheel provides a suitable feed position for both short and tall operators. Its three levers also make it ideal for "walk-down" feeding.

Benefits: Triple lever feed lets operator select most comfortable feed position to reduce fatigue. Three spoke feed, unlike single lever feeds, makes it especially suitable for "walk-down" feeding of extra hard materials. One or two levers can be removed as may be needed to clear fixtures, etc.



Extra Long Quill Travel . . . The New "6 + 6" and "VS6" provide a *full "6" stroke*.

Benefits: You can drill 35% deeper than with standard 15" machines. You get the *extra depth* you need for deep hole jobs like skip and gang drilling . . . **PLUS**, the *extra stroke* required for clearing jigs and fixtures.



"Self-Locking" Depth Stop . . . Unlike competitive depth stops, Delta's self-locking design guarantees that it will *never change its setting*.

Benefits: Positive setting eliminates ruined work pieces . . . permits *fast setups* for absolute depth control. Stop is calibrated to show changes down to .002".

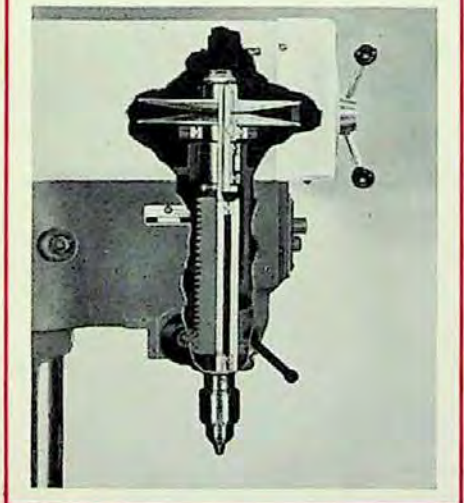
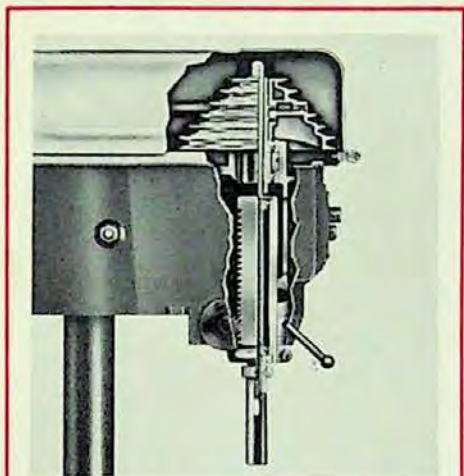
ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES



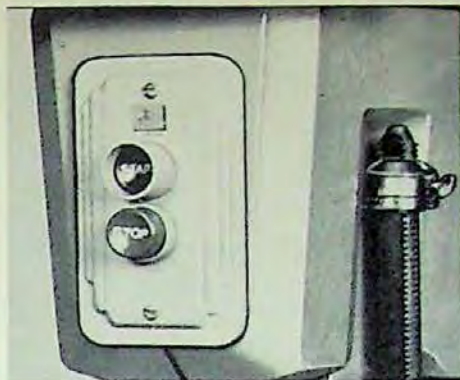
Large 11 x 14" Tilting Table . . . Slots and side ledges make clamping of work easy. Tilt scale gives accurate readings to 90° right and left, and tapered, expanding bushing provides maximum gripping power for rigid positioning of table at any angle.

Benefit: Quick, accurate clamping of work speeds up production. Tilting feature facilitates drilling at any angle.



Extra Large Spindle Bearings . . . "6 PLUS 6" and "VS6" spindle and spindle pulley are supported by four over-sized, preloaded, lubricated-for-life ball bearings. Pulley bearings are extra heavy duty and more than 2" in diameter. Massive quill is a full 2" in diameter. "VS6" has the same excellent construction, PLUS an extra bearing below the spindle pulley.

Benefits: This fine combination of features assures freedom from chatter; long, maintenance-free life and maximum pressure at the drill point.



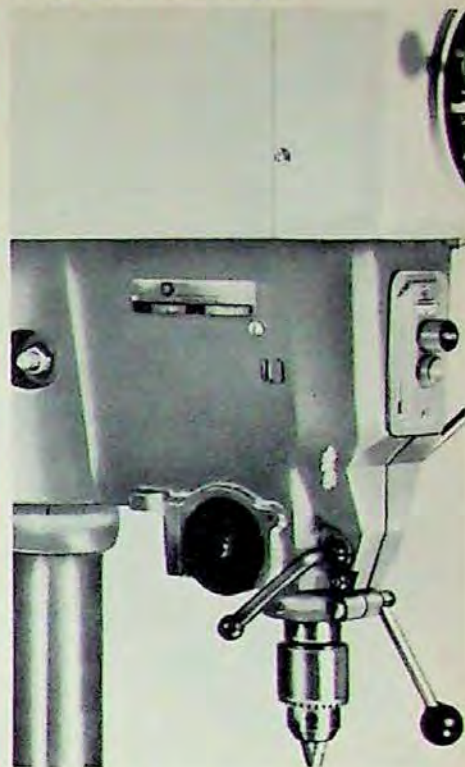
Safe Push Button Switch . . . Mounts in front of head, conveniently accessible to right or left hand of operator.

Benefit: Has a shrouded start button to prevent accidental starts and a protruding stop button for quick, emergency stops.



Quick-Release, Adjustable Motor Mount . . . Belt tension release is provided by the pivoting motor mounting plate which has a reverse, self-locking taper on the spring-loaded, rubber-tipped plunger that quickly restores correct belt tension.

Benefit: Permits changing of belt position in seconds to save valuable production time—no tools are required. Convenient speed chart aids machine operator in selecting correct speed for working all types of materials.



Rugged Head Construction . . . The head of the "6 PLUS 6" and "VS6" is a massive, one-piece casting.

Benefit: This superior construction assures maximum rigidity, guaranteeing holes that are ROUND, TRUE TO SIZE and PERFECTLY STRAIGHT.

PLUS THESE EXTRAS

- Multiple-spline drive that provides positive torque transmission and exact spindle alignment, assuring less vibration, smooth operation and more power at the spindle.
- Precision ground spindle and dynamically balanced motor and spindle pulleys.
- Worm screw adjustment feature that makes it easy to set the correct tension on the spindle return spring.
- Extra long columns for added capacity and operator comfort. Columns have $\frac{5}{8}$ " wall thickness.
- Rubber cushion ring that absorbs shock between head and stop rod collar and between head and mortising chisel holder while lock feature firmly holds these parts on quill to guarantee proper adjustment.

NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES



**Variable Speed
6" Stroke Floor Model** with tilting table and key chuck spindle. Available with production table and No. 2 M.T. spindle on both "6 PLUS 6" and "VS6" Models.

**6-Step Pulley
6" Stroke Floor Model** with production table and key chuck spindle. Available with tilting table and No. 2 M.T. spindle on both "6 PLUS 6" and "VS6" Models.



**6-Step Pulley
6" Stroke Bench Model** with production table and key chuck spindle. Available with No. 2 M.T. spindle on both "6 PLUS 6" and "VS6" Models.



**Variable Speed
6" Stroke Bench Model** with tilting table and key chuck spindle. Available with No. 2 M.T. spindle on both "6 PLUS 6" and "VS6" Models.

**Variable Speed
6" Stroke Multiple Spindle Model** . . . available in 2, 3, 4, 5, 6, or 8 spindles with 1/2" key chuck or No. 2 M.T. spindle on both "6 PLUS 6" and "VS6" Models. Can be ordered as cataloged, or custom assembled using any combination of "VS6" and "6 PLUS 6" Heads with any number of spindles from one to a drill press a block long if desired.



Choose from 44 models and get the machine best suited for your job!

Now! you can overcome the squeeze on your profits due to higher material, labor and marketing costs. How? By cutting costs at the only remaining level—the production line.

Rockwell Delta's two new, improved 15" Drill Presses—the "6 PLUS 6" and "VS6"—make such production savings possible through their exceptional capacity and versatility. They provide the extra wide range of speeds needed for drilling everything from hardened tool steel to aluminum, plastic and wood. They offer the extra drilling depth required for deep-hole applications like skip and gang drilling . . . also the extra stroke necessary for clearing jigs and fixtures.

Let us PERFORMANCE-PROVE these "champions" for you today . . . show you how they can help your profit picture!

MACHINE DATA

Overall Dimensions:

Bench Model (With Tilting Table):

Height ("6 PLUS 6") 40"; ("VS6") 42 1/2"

Width 14"

Front to Rear ("6 PLUS 6") . . . 25 1/8"; ("VS6") . . . 27 7/8"

Floor Model:

Height ("6 PLUS 6") 71 1/2"; ("VS6") 74"

Width (Tilting Table) 15 1/2"

Width (Production Table) 21 1/2"

Front to Rear ("6 PLUS 6") 26"; ("VS6") 27 7/8"

Table Working Surface, Ground:

Tilting 11 x 14"

Production (Overall) 15 1/2" x 21 1/2"

Production (Inside of Coolant Trough) 12 x 18"

Base Working Surface:

Bench Type, Ground,

(3/16" T-Slots on 8" Centers) 10 1/4 x 12 3/4"

Bench Type, Ground, (With Coolant Trough) 14 x 16"

Floor Type, (3/16" T-Slots on 8" Centers) 11 1/4 x 14"

Quill:

Stroke 6"

Diameter 2"

Capacities:

Key Chuck 0 to 1 1/2"

Dia. Hole in Cast Iron 5/8"

Dia. Hole in Steel 1/2"

Spindle Speeds ("6 PLUS 6"):

With 1725 RPM Motor: 425, 600, 1100, 2050, 3900

and 5500 RPM

With 1140 RPM Motor: 280, 395, 725, 1355, 2575

and 3635 RPM

Spindle Speeds ("VS6"):

With 1725 RPM Motor 450 to 4700 RPM

With 1140 RPM Motor 300 to 3100 RPM

Column:

Wall Thickness 5/32"

Diameter 2 3/4"

Motor:

Accommodates NEMA 56 Frame Motors

STANDARD EQUIPMENT

All models include spanner wrench for spindle adapters, belt and pulley guard, belt and motor pulley. (Motor pulley supplied with 5/8" bore unless 1/2" bore is specified.)

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES

SINGLE SPINDLE 6-STEP PULLEY MODELS (Less Motor and Control—See Below)

STANDARD TILTING TABLE—BENCH MODEL	STANDARD TILTING TABLE—FLOOR MODEL	PRODUCTION TABLE—FLOOR MODEL	PRODUCTION TABLE—BENCH MODEL—14 x 16" TABLE	HEAD ONLY
15-490 •No. 2 M.T. Spindle 151 lbs.	15-494 •No. 2 M.T. Spindle 188 lbs.	15-496 •†No. 2 M.T. Spindle 248 lbs.	15-492 **No. 2 M.T. Spindle 223 lbs.	15-488 No. 2 M.T. Spindle 72 lbs.
15-491 •½" Key Chuck 151 lbs.	15-495 •½" Key Chuck 188 lbs.	15-497 •†½" Key Chuck 248 lbs.	15-493 **½" Key Chuck 223 lbs.	15-489 ½" Key Chuck 72 lbs.

SINGLE SPINDLE VARIABLE SPEED MODELS (Less Motor and Control—See Below)

15-470 •No. 2 M.T. Spindle 170 lbs.	15-466 •No. 2 M.T. Spindle 208 lbs.	15-468 •†No. 2 M.T. Spindle 258 lbs.	15-472 **No. 2 M.T. Spindle 230 lbs.	15-474 No. 2 M.T. Spindle 81 lbs.
15-471 •½" Key Chuck 170 lbs.	15-467 •½" Key Chuck 208 lbs.	15-469 •†½" Key Chuck 258 lbs.	15-473 **½" Key Chuck 230 lbs.	15-475 ½" Key Chuck 81 lbs.

*Includes 1010 Safety Collar. †Includes 1008 Table Raising Mechanism. ‡Counter balance for raising and lowering head is included.
•1½" coolant trough with ¾" pipe on each side. **1½" coolant trough with two ¾" pipe tap at rear. All models include belt and motor pulley.

MULTIPLE SPINDLE MODELS (Less Motors and Controls—See Below)

NO. OF SPINDLES	6-STEP PULLEY NO. 2 M.T. SPINDLE	VARIABLE SPEED NO. 2 M.T. SPINDLE	6-STEP PULLEY ½" KEY CHUCK SPINDLE	VARIABLE SPEED ½" KEY CHUCK SPINDLE
2 Spindle — ¾" Pipe Tap at Rear	15-498 522 lbs.	15-476 526 lbs.	15-499 522 lbs.	15-477 526 lbs.
3 Spindle — ¾" Pipe Tap at Rear	15-500 990 lbs.	15-478 995 lbs.	15-501 990 lbs.	15-479 995 lbs.
4 Spindle — ¾" Pipe Tap at Rear	15-502 1160 lbs.	15-480 1170 lbs.	15-503 1160 lbs.	15-481 1170 lbs.
5 Spindle — Two ¾" Pipe Taps at Ends	15-504 1425 lbs.	15-482 1434 lbs.	15-505 1425 lbs.	15-483 1434 lbs.
6 Spindle — Two ¾" Pipe Taps at Ends	15-506 1926 lbs.	15-484 1936 lbs.	15-507 1926 lbs.	15-485 1936 lbs.
8 Spindle — Two ¾" Pipe Taps at Ends	15-508 2154 lbs.	15-486 2174 lbs.	15-509 2154 lbs.	15-487 2174 lbs.

All models include belts and motor pulleys. Spindle to table maximum with No. 2 M.T. Spindle, 23½".

Spindle to table maximum with ½" key chuck, 24¾".

The 2, 3 and 4 spindle drill presses all have one piece tables. The 5, 6

and 8 spindle drill presses have sectional tables. Tables on multiple spindle units have 1½" coolant trough. Working surface is 32" from the floor. Counterbalance for raising and lowering heads is included. Sectional table units with three sections have three steel legs—all other multiple spindle units have two legs.

MOTORS AND CONTROLS (Factory Mounted and Wired)

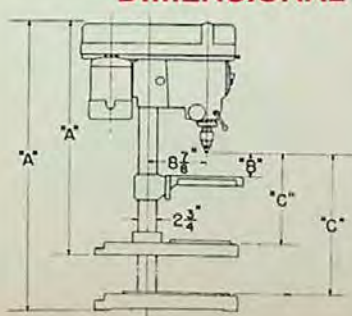
(On multiple spindle units, designate head (1st, 2nd, etc.) on which each motor and control group is to be factory mounted.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES & MOTOR RPM	VOLTAGE	SHIP. WT. (LBS.)	CAT. NO.	CAT. NO. *SPECIAL
Single Phase, ½ Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1140	115/230	46	49-449	
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60—1140	115/230	55	49-702	49-801
Single Phase, ¼ Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	31	49-703	
	Push Button Switch & Magnetic Starter	TEFC	60—1725	115/230	40	49-704	49-802
Three Phase, ½ Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1140	230/460	33	49-403	
	Push Button & Overload Switches	Guarded Drip Proof	60—1140	230/460	39	49-709	49-803
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60—1140	230/460	42	49-710	49-804
	Push Button Switch & Magnetic Starter (w/115V Transformer)	Guarded Drip Proof	60—1140	230/460	52	49-711	49-805
Three Phase, ¼ Horsepower	Push Button Switch Only	TEFC	60—1725	230/460	29	49-712	
	Push Button & Overload Switches	TEFC	60—1725	230/460	35	49-713	49-806
	Push Button Switch & Magnetic Starter	TEFC	60—1725	230/460	38	49-714	49-807
	Push Button Switch & Magnetic Starter (w/115V Transformer)	TEFC	60—1725	230/460	48	49-715	49-808

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and motor controls for Rockwell Delta 6" Stroke 15" Drill Presses may be ordered unmounted. For listing, see Sections P and Q.

*Magnetic Starters or Overload Switches used in "special" kits are mounted behind the motor. These kits are recommended only for 8-spindle multiple spindle drill presses, or other 15" multiple spindle drill presses where the center to center distance between columns is less than 13 inches.

DIMENSIONAL DATA



Model	½" KEY CHUCK MODELS			NO. 2 MORSE TAPER MODELS				
	"A" Overall Height	"B" Spindle To Table (max.)	"C" Spindle To Base (max.)	"A" Overall Height	"B" Spindle To Table (max.)	"C" Spindle To Base (max.)		
"6 PLUS 6" and "VS6" 15" DRILL PRESSES	Bench Type With Production Table	VS6	50¾	24¾	—	50¾	23½	—
	Bench Type With Standard Tilting Table	6+6	48¾	24¾	—	48¾	23½	—
Floor Type With Production Table	VS6	74	37½	47	74	36¾	46¾	
	6+6	71½	37½	47	71½	36¾	46¾	
Floor Type With Standard Tilting Table	VS6	74	43¾	47	74	42¾	46¾	
	6+6	71½	43¾	47	71½	42¾	46¾	

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES

MAKE SPECIAL-PURPOSE MACHINES WITH THESE DRILL PRESS COMPONENTS

(Used with Rockwell Delta "6 PLUS 6" and "VS6" 15" Drill Press Heads)

No. 15-804 Column, 2 3/4" x 33 3/4", with 5/8" wall thickness. 11 lbs.

No. 15-805 Column, 2 3/4" x 38 3/4", with 5/8" wall thickness. 15 lbs.

No. 15-806 Column, 2 3/4" x 65 1/4", with 5/8" wall thickness. 21 lbs.

No. 15-810 Column, 2 3/4" x 78", with 5/8" wall thickness. 26 lbs.

No. 1010 Collar, head or table support, for column. 2 lbs.

No. 1019 Flange, for mounting column on table, with screws, 10 lbs.

No. 1030 Counterbalance, complete assembly includes spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 38 3/4". 9 lbs.

No. 1516 Production Table*, 14 x 16" ground work surface, for single spindle bench models. This table cannot be mounted on 50-399 Legs. 110 lbs.

No. 1517 Production Table*, 19 3/8 x 28" ground work surface, for two spindle models. For bench or floor models, fits 50-399 Legs. 274 lbs.

No. 15-814 Production Table*, 23 x 54" ground work surface, for three or four spindle models. For bench or floor models, fits 50-399 Legs. 490 lbs.

No. 1505 Production Table, center section, 23 3/8" front to rear x 30" left to right ground work surface with 1 1/2" coolant trough. 365 lbs.

No. 1507 Production Table, end section, 23 3/8" front to rear x 32 1/2" left to right ground work surface with 1 1/2" coolant trough and 3/4" pipe tap at end. 352 lbs.

Sturdy table center and end sections with accurately ground work surfaces can be used for multiple spindle drill presses or machines. On these sections any type of 15" or 17" head can be easily installed and on centers which meet your individual needs. This means that the maximum amount of flexibility is assured—you can have all 15" or 17" heads on one machine or a combination of both—you can have them spaced at any distance you desire—close together or far apart. Minimum center to center distances for columns are: Super Hi-Speed 14"-9"; 15"-12"; 17"-15"; Power Feed 17"-18"; 20"-13"; Power Feed 20"-15".



IMPORTANT . . . Give these specifications with order: (1) number of drill press heads needed, (2) if 15, 17 or 20" heads, (3) spacing between heads, (4) if table is to be completely assembled, (5) if table should be drilled and tapped for mounting flanges.

No. 50-506 Leg, Steel, 27 1/2" high for mounting production tables. Cannot be used with 14" Super-Hi drill press tables. 50 lbs.

No. 50-399 Legs, Steel, one pair, 27 1/2" high for mounting production tables. Cannot be used with 14" Super-Hi drill press tables. 100 lbs.

No. 50-400 Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under legs 50-399 and 50-506. One pair required for each single leg to raise machine 2". Two blocks can be stacked to raise machine 4". 8 lbs.

*These tables can be supplied blank or drilled and tapped for Delta mounting flange 1019.

DATA SHEETS WITH DIMENSIONS ARE AVAILABLE TO AID IN SPECIAL MACHINE DESIGN.

DELTA QUALITY ACCESSORIES PROVIDE INCREASED JOB PERFORMANCE

MOTOR PULLEYS

No. 41-832 6-Step—1/2" bore. 3 1/2 lbs.

No. 41-833 6-Step—5/8" bore. 3 1/2 lbs.

MOTOR PULLEY ASSEMBLIES

No. 41-952 Variable Speed Type, with spring, 1/2" bore. 6 lbs.

No. 41-953 Variable Speed Type, with spring, 5/8" bore. 6 lbs.

No. 1010 Collar—Head or table support. For 2 3/4" dia. column. 2 lbs.

No. 15-809 Tilting Table—11x14" ground surface, complete with column bracket. Ledges at sides and slots make clamping of work easy. Tilt angle scale indicates to 90° both right and left. Fits any 15" drill press with 2 3/4" column. 39 lbs.

No. 15-801 Table, 10 x 10 1/2" ground surface, non-tilting type, with integral column bracket. Ledges at sides and slots make clamping of work easy. Holes on front apron facilitate work or fixture mounting. Fits any 15" drill press with 2 3/4" column. 25 lbs.

No. 15-850 Production Table—12 x 18" ground work surface (including coolant trough, 15 1/2 x 21 1/2"), for single spindle floor model drill presses (without 1008 Raising Mechanism). 67 lbs.

No. 1008 Raising Mechanism—For 15-850 Production Table. Includes rack, collar and bearing. 10 lbs.

No. 1030 Head Counterbalance Attachment—Complete assembly including spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 38 3/4". 9 lbs.



No. 882 Lamp Attachment—Uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1 1/2 lbs.



No. 15-830 Drill Chuck—Key Chuck, 0-1/2" capacity, 3-jaw type, with threaded mounting collar and key. 1 1/2 lbs.

SPINDLE ADAPTERS



No. 15-832 Adapter with No. 1 M.T. hole, with threaded mounting collar. 2 lbs.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES



No. 15-833 Adapter with No. 2 M.T. hole, with threaded mounting collar. 1 lb.



No. 15-835 Adapter, $\frac{1}{2}$ " shaft and flange. For cup, dish or straight grinding wheels. With mounting collar tapped $1\frac{1}{16}$ "-20. 1 lb.

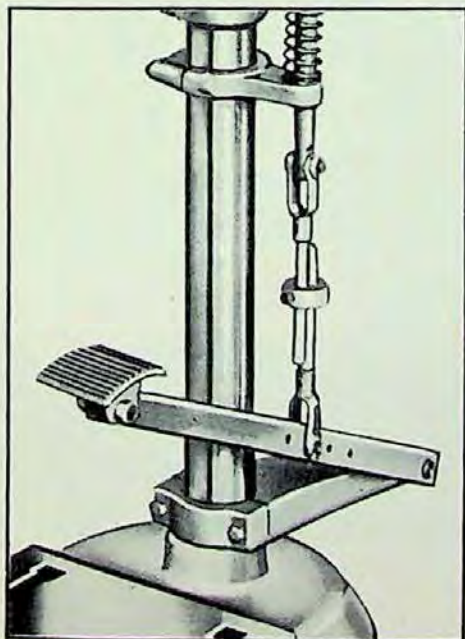


No. 15-836 Adapter with collars and threaded mounting collar for shaper cutters with $\frac{1}{2}$ " hole. 1 lb.

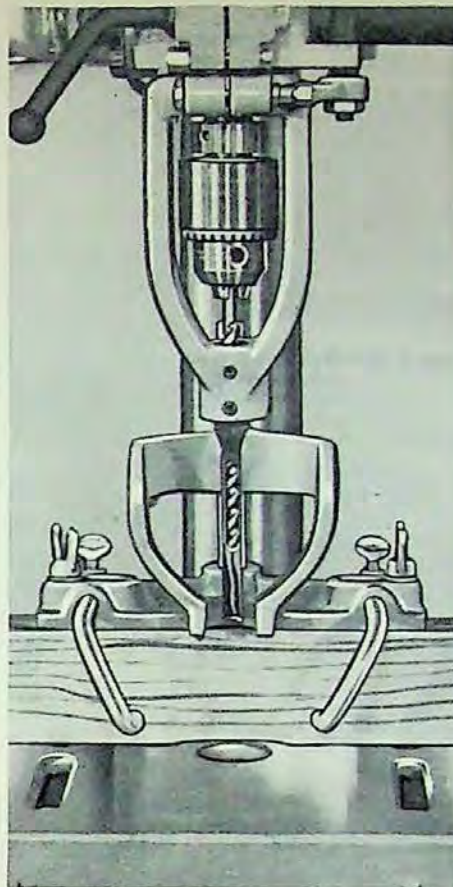


No. 15-837 Adapter, $\frac{1}{2}$ " hole, with threaded mounting collar for router and spur bits, etc. 1 lb.

No. 15-838 Spanner Wrench— $1\frac{1}{2}$ " x $5\frac{3}{4}$ " long, with single lug for $\frac{7}{32}$ " hole. Recommended for threaded mounting collar of Drill Chuck 15-830 or Adapters 15-832, 15-833, 15-835, 15-836 and 15-837. $\frac{1}{4}$ lb.



No. 15-820 Foot Feed—For floor type models with 64" column. Maximum quill travel with foot feed connected is 6". Consists of foot pedal, rods, mounting brackets and spring. 36 lbs.



No. 15-840 Mortising Attachment—This attachment converts the 15" Drill Press into an accurate mortising machine. Capacity under hold-down— $4\frac{3}{4}$ ", from ends of hooked rods to fence— $2\frac{3}{4}$ ". Used with key chuck models only. No. 15-820 Foot Feed recommended for mortising with single spindle models. Includes fence with mounting bolts, hooked rods, hold-down and chisel holder. $8\frac{1}{2}$ lbs.

MULTI-SPEED ATTACHMENTS

(Not for variable speed models)

Especially recommended for jobs like spot facing, counterboring, reaming and core drilling.



No. 15-802 Multi-Speed Attachment—For 6-step pulley models. Provides eight speeds from 125 RPM to 5800 RPM with 1725 RPM motor or 85 to 3800 RPM with 1140 RPM motor. Includes motor pulley with $\frac{1}{2}$ " bore. 7 lbs.

No. 15-803 Multi-Speed Attachment—For 6-step pulley models. Same as 15-802 except motor pulley has $\frac{5}{8}$ " bore. 7 lbs.



No. 15-846 Belt Guard Top Cover Plate—For 15" Variable Speed (Spring Pulley Type) Drill Presses. Includes hole plugs and screws for mounting. 4 lbs.

BELTS

No. 49-091 V-belt— $28\frac{1}{16}$ " OC, rear, for No. 15-802 Multi-Speed Attachment. $1\frac{1}{2}$ lbs.

No. 49-092 V-belt— $33\frac{1}{2}$ " OC, front, for No. 15-802 Multi-Speed Attachment. $1\frac{1}{2}$ lbs.

No. 49-093 V-belt—6-step pulley type, $45\frac{1}{8}$ " OC. $1\frac{1}{2}$ lbs.

No. 49-415 Belt—Variable speed type, $45\frac{5}{8}$ " OC. 1 lb.

No. 15-825 Full Belt and Pulley Guard—For step-pulley models only. Encloses spindle pulley, V-belt and motor pulley. 9 lbs.

NOTE: For additional accessories, see Section A9.

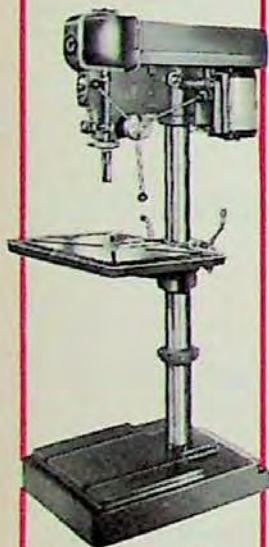
ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shut-downs and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW, IMPROVED ROCKWELL DELTA 6" STROKE 15" DRILL PRESSES

*See the Complete
Rockwell Delta Quality
Drill Press Line Today!*



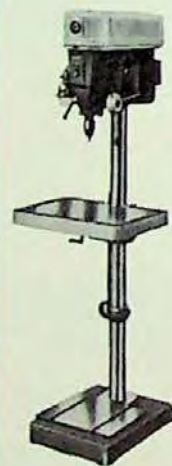
DELTA 20" DRILL PRESS LINE—48 Models Available . . . Hand or power feed, standard or geared spindle pulley, production or tilt table, single or multiple spindle with No. 2 or 3 M.T.



DELTA 17" VARIABLE SPEED DRILL PRESS LINE—18 Models Available . . . Hand or power feed, standard or production table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA 17" STEP-PULLEY DRILL PRESS LINE—36 Models Available . . . Hand or power feed, high or slow speed, standard or production table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA 15" DRILL PRESS LINES—52 Models Available . . . Variable speed and step-pulley utility and deluxe, production or tilt table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA UNIDRILL®—4 Models Available . . . Hand feed, 4 or 6-step pulley, high or slow speed, key chuck or No. 2 M.T. spindle.

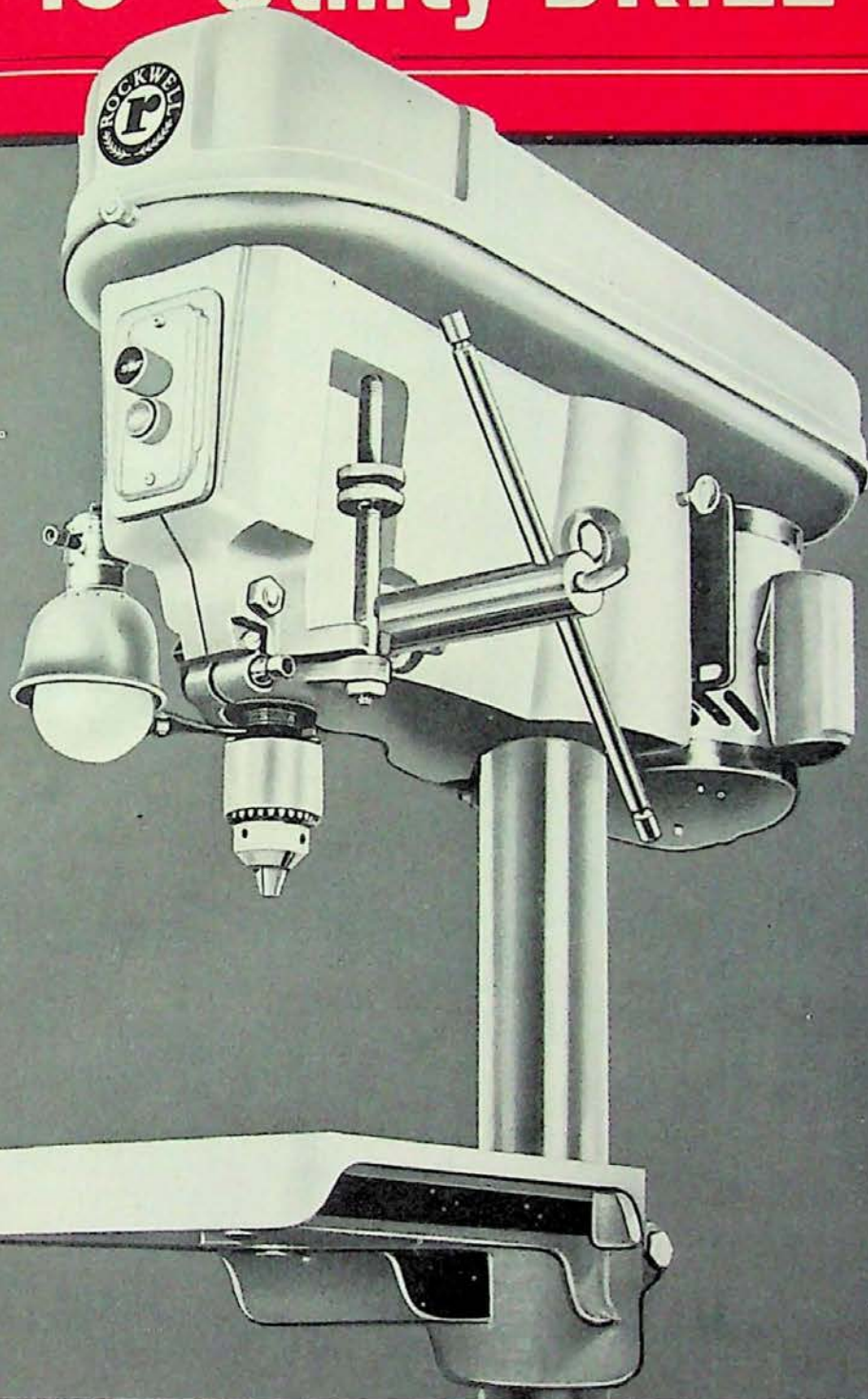


DELTA RAM TYPE RADIAL DRILL PRESS LINE—4 Models Available . . . Hand feed, 6" spindle travel, T-slot production table, key chuck or No. 2 M.T. spindle.

DELTA 14" SENSITIVE DRILL PRESS LINE—8 Models Available . . . Hand feed, production table, single or multiple spindle with key chuck.



ROCKWELL DELTA 15" Utility DRILL PRESS



OFFERS

- Rugged, heavy duty construction throughout.
- Exceptional versatility.
- Famous built-in Delta "quality" features.
- All at exceptionally low cost!

Truly versatile, this Rockwell Delta 15" Utility Drill Press is unsurpassed in its ability to do many useful jobs. Six interchangeable spindle adapters and dozens of accessories convert it in seconds for scores of operations varying from metal drilling to wood shaping. It's the ideal machine for every shop, large or small.

ROCKWELL DELTA 15" UTILITY DRILL PRESS

DELTA QUALITY FEATURES THAT MAKE THE 15" UTILITY DRILL PRESS YOUR BIGGEST DRILL PRESS VALUE!



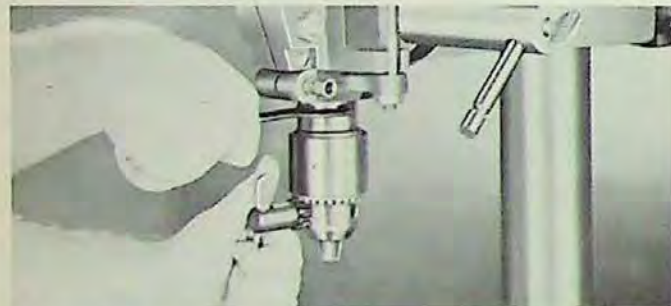
Full Belt Guard (on some models). Full length and counter-balanced, it swings up, out of the way for easy speed changing. Gives complete protection.



Pivoting Motor Mounting Plate. Permits quick belt tension release for easy speed changes. A spring-loaded plunger, with reverse taper lock feature, holds belt tension constant.



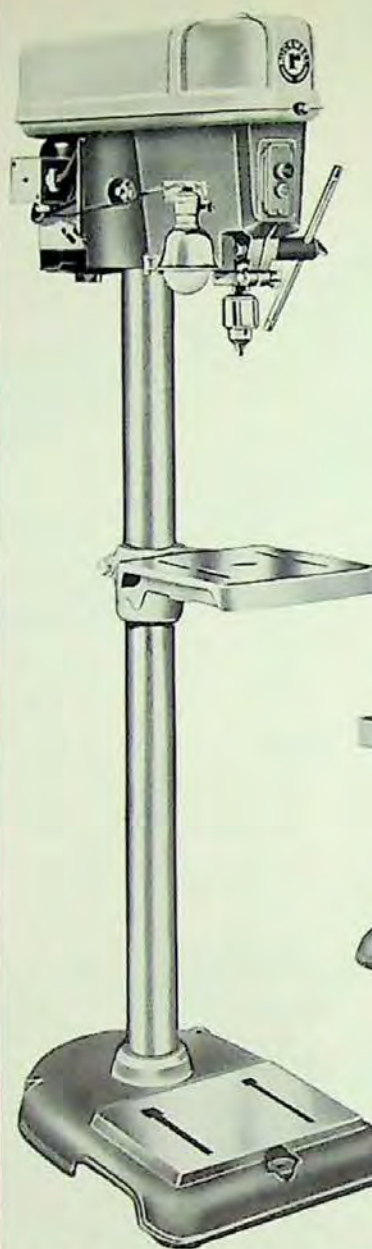
Many-Purpose Work Table. Side ledges and slots facilitate clamping of work to table. Accurately ground surface permits drilling to close tolerances.



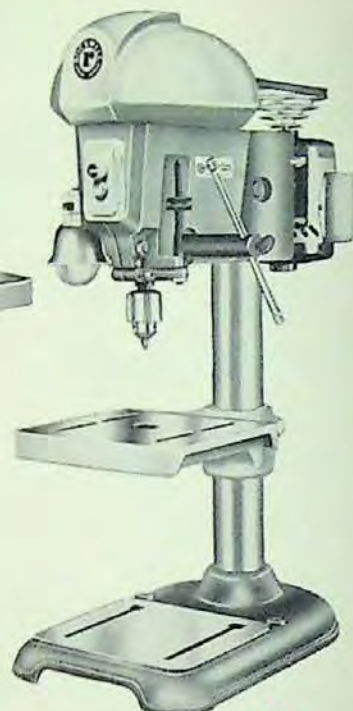
Quick Change Spindle Adapter. Any of six interchangeable spindle adapters may be changed in seconds for dozens of operations varying from metal drilling to wood shaping.

PLUS THESE IMPORTANT DELTA EXTRAS:

- Choice of high speed—slow speed—floor or bench model—front or full hinged guard.
- 6 Spindle adapters for unequalled versatility.
- Delta Quality construction throughout.
- Husky 2" quill for rigid spindle support.
- Easy adjustment to compensate for quill wear.
- Extra large spindle pulley bearing.
- Floating drive that transmits torque with no belt pull on spindle.
- Provision in head for Push Button Switch (optional accessory) to provide maximum safety and convenience for operator.



Floor Model—Equipped with standard table (tilting table available as accessory) and full belt guard. Available with high or slow-speed and 1/2" key chuck.



Bench Model—Equipped with standard table (tilting table available as accessory) and front belt guard. Available with high or slow-speed and 1/2" key chuck.

Big! Rugged! Built to Last!

These are the qualities that every user wants and gets in the Rockwell Delta 15" Utility Drill Press. It's a man-sized machine designed for heavy duty production work—perfect for schools and commercial wood or metalworking shops, yet priced right down to the small shop budget.

You get Delta Quality construction throughout—lubricated-for-life ball bearings . . . dynamically balanced spindle pulley . . . floating spindle drive . . . big 2" quill . . . full 4 7/16" quill stroke and many other important features.

Don't let the low price tag of this Rockwell Delta 15" Utility Drill Press mislead you. It will capably handle many of the production jobs ordinarily done by heavy, fixed machines. It can easily be moved in and out of the production line to relieve production bottlenecks. And it offers the job versatility required in commercial and school shops.

Investigate this BIG VALUE!

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA 15" UTILITY DRILL PRESS

MACHINE DATA

Overall Dimensions:

Front Guard Models

Bench Type

Height37³/₄" ; Width13"
 Front to Rear23¹/₈"

Floor Type

Height68³/₄"
 Width

Standard Table15¹/₂"

Production Table—Available as

an Accessory21¹/₂"

Front to Rear22⁷/₈"

Full Guard Models

Bench Type

Height37¹/₂" ; Width13"
 Front to Rear24¹/₈"

Floor Type

Height68¹/₂"
 Width

Standard Table15¹/₂"

Production Table—Available as

an Accessory21¹/₂"

Front to Rear23⁷/₈"

Table Working Surface:

Standard10 x 10¹/₂"

Production—Available as an Accessory

Ground Surface12 x 18"

Ground Surface, including

Coolant Trough15¹/₂ x 21¹/₂"

Base Working Surface:

Bench Type9 x 10" ; Floor Type8¹/₂ x 12"

Quill:

Stroke4⁷/₁₆" ; Diameter2"

Capacities:

Key Chuck0 to 1¹/₂"

Dia. Hole in Cast Iron1¹/₂"

Dia. Hole in Steel3¹/₈"

Chuck to Table (Max.)

Bench Model11¹/₂" Floor Model42⁵/₁₆"

Chuck to Base (Max.)

Bench Model17" ; Floor Model47¹/₄"

Spindle Speeds:

With 1725 rpm Motor

High Speed Model.....680, 1250, 2400, 4600 rpm

Slow Speed Model.....470, 780, 1300, 1950 rpm

With 1140 rpm Motor

High Speed Model.....450, 825, 1585, 3040 rpm

Slow Speed Model.....310, 515, 860, 1290 rpm

Column Diameter.....2³/₄"

Motor:

Accommodates NEMA Frame Motors 48 and 56

CATALOG LISTING

SINGLE SPINDLE 4-STEP PULLEY 4-5/16" STROKE MODELS (Less Motor and Control—See Below)

BENCH MODELS	FLOOR MODELS	HEADS ONLY
Standard Table 1/2" Key Chuck	Standard Table 1/2" Key Chuck	1/2" Key Chuck
15-027 Slo-Speed Front Belt Guard 138 lbs.	15-037 Slo-Speed Front Belt Guard 168 lbs.	15-017 Slo-Speed Front Belt Guard 70 lbs.
15-028 High-Speed Front Belt Guard 138 lbs.	15-038 High-Speed Front Belt Guard 168 lbs.	15-018 High-Speed Front Belt Guard 70 lbs.
15-067 Slo-Speed Full Belt Guard 138 lbs.	15-077 Slo-Speed Full Belt Guard 168 lbs.	15-057 Slo-Speed Full Belt Guard 70 lbs.
15-068 High-Speed Full Belt Guard 138 lbs.	15-078 High-Speed Full Belt Guard 168 lbs.	15-058 High-Speed Full Belt Guard 70 lbs.

STANDARD EQUIPMENT

Slo-Speed Models and Heads include 49-167 V-belt, 41-703 Motor Pulley, 5/8" bore, unless 1/2" bore is specified. High-Speed Models and Heads include 49-168 V-belt, 41-703 Motor Pulley, 3/8" bore, unless 1/2" bore is specified. Front or Full Belt Guard also included.

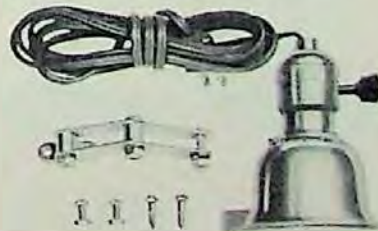
MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES & MOTOR RPM	VOLTAGE	SHIP. WT. (LBS.)	CATALOG NUMBER
Single Phase, 1/2 Horsepower	Push Button Switch Only	TEFC	60 — 1725	115/230	26	49-700
	Push Button Switch & Magnetic Starter	TEFC	60 — 1725	115/230	35	49-701
	Push Button Switch Only	Guarded Drip Proof	60 — 1140	115/230	46	49-449
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60 — 1140	115/230	55	49-702
Three Phase, 1/2 Horsepower	Push Button Switch Only	TEFC	60 — 1725	230/460	24	49-705
	Push Button & Overload Switches	TEFC	60 — 1725	230/460	30	49-706
	Push Button Switch & Magnetic Starter	TEFC	60 — 1725	230/460	33	49-707
	Push Button Switch & Magnetic Starter (w/115V Transformer)	TEFC	60 — 1725	230/460	43	49-708
	Push Button Switch Only	Guarded Drip Proof	60 — 1140	230/460	33	49-403
	Push Button & Overload Switches	Guarded Drip Proof	60 — 1140	230/460	39	49-709
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60 — 1140	230/460	42	49-710
	Push Button Switch & Magnetic Starter (w/115V Transformer)	Guarded Drip Proof	60 — 1140	230/460	52	49-711

NOTE: Single phase drill presses will be wired for 115V, unless 230V is specified. Three phase drill presses will be wired for 230V, unless 208V or 460V is specified. Power cord and plug is supplied for single phase

drill presses only. Motors and Motor Controls for Delta 15" Utility Drill Presses may be ordered unmounted. For listing see Sections P1 and Q1.

**DELTA
 QUALITY ACCESSORIES
 THAT PROVIDE
 INCREASED
 JOB PERFORMANCE**



No. 882 Lamp Attachment—Uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1¹/₂ lbs.

SPINDLE ADAPTERS



No. 15-832 Adapter with No. 1 M.T. hole, with threaded mounting collar. 2 lbs.

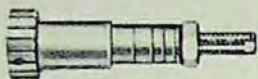


No. 15-833 Adapter with No. 2 M.T. hole, with threaded mounting collar. 1 lb.

ROCKWELL DELTA 15" UTILITY DRILL PRESS



No. 15-835 Adapter, 1/2" shaft and flange. For cup, dish or straight grinding wheels. With mounting collar tapped 1 1/16"-20. 1 lb.



No. 15-836 Adapter with collars and threaded mounting collar for shaper cutters with 1/2" hole. 1 lb.



No. 15-837 Adapter, 1/2" hole, with threaded mounting collar for router and spur bits, etc. 1 lb.



No. 15-830 Drill Chuck—Key Chuck, 0-3/2" capacity, 3-jaw type, with threaded mounting collar and key. 1 1/2 lbs.

No. 15-838 Spanner Wrench—1 1/2" x 5 3/4" long, with single lug for 7/8" hole. Recommended for threaded mounting collar of Drill Chuck 15-830 or Adapters 15-832, 15-833, 15-835, 15-836 and 15-837. 1/4 lb.

No. 15-820 Foot Feed—For floor type models with 64" column. Maximum quill travel with foot feed connected is 6". Consists of foot pedal, rods, mounting brackets and spring. 36 lbs.

No. 15-840 Mortising Attachment—This attachment converts the 15" Drill Press into an accurate mortising machine. Capacity under hold-down—4 3/4", from ends of hooked rods to fence—2 3/4". Used with key chuck models only. No. 15-820 Foot Feed recommended for mortising with single spindle models. Includes fence with mounting bolts, hooked rods, hold-down and chisel holder. 8 1/2 lbs.

No. 1010 Collar—Head or table support. For 2 3/4" dia. column. 2 lbs.

No. 1030 Head Counterbalance Attachment—Complete assembly including spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 36 3/4". 9 lbs.

No. 969 Pilot Wheel 3-spoke type with handle knobs. 4 lbs.

No. 15-809 Tilting Table—11x14" ground surface, complete with column bracket. Ledges at sides and slots make clamping of work easy. Tilt angle scale indicates to 90° both right and left. Fits any 15" drill press with 2 3/4" column. 39 lbs.

No. 15-850 Production Table—12 x 18"

ground work surface (including coolant trough, 15 1/2 x 21 1/2"), for single spindle floor model drill presses (without 1008 Raising Mechanism). 67 lbs.

No. 1008 Raising Mechanism—For 15-850 Production Table. Includes rack, collar and bearing. 10 lbs.

MULTI-SPEED ATTACHMENTS

Especially recommended for jobs like spot facing, counterboring, reaming and core drilling.

No. 15-848 Multi-Speed Attachment for High-Speed 15" Drill Press. 12 speeds from 275 to 10,500 rpm (the 10,500 rpm should be used only for occasional work due to the excessive wear on bearings). Includes mounting bracket, ball bearing cone pulley and two V-belts. 5 1/2 lbs.

No. 15-849 Multi-Speed Attachment for Slo-Speed 15" Drill Press. 12 speeds from 185 to 4600 rpm. Includes mounting bracket, ball bearing cone pulley and two V-belts. 5 1/2 lbs.

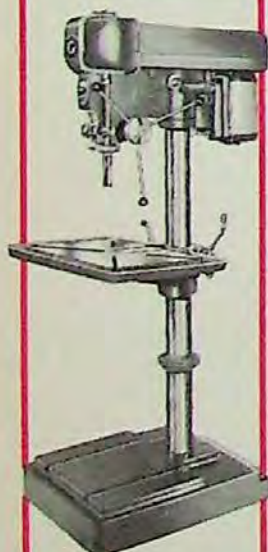
No. 49-167—V-Belt for Slo-Speed Model. 1/2 lb.

No. 49-168—V-Belt for High-Speed Model. 1/2 lb.

No. 15-825 Full Belt and Pulley Guard—For step-pulley models only. Encloses spindle pulley, V-belt and motor pulley. 9 lbs.

NOTE: For additional accessories see Section A9.

See the Complete
Rockwell Delta Quality
Drill Press Line Today!



DELTA 20" DRILL PRESS LINE—48 Models Available . . . Hand or power feed, standard or geared spindle pulley, production or tilt table, single or multiple spindle with No. 2 or 3 M.T.



DELTA 17" VARIABLE SPEED DRILL PRESS LINE—18 Models Available . . . Hand or power feed, standard or production table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA 17" STEP-PULLEY DRILL PRESS LINE—36 Models Available . . . Hand or power feed, high or slow speed, standard or production table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA 15" DRILL PRESS LINES—52 Models Available . . . Variable speed and step-pulley utility and deluxe, production or tilt table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA UNIDRILL—4 Models Available . . . Hand feed, 4 or 6-step pulley, high or slow speed, key chuck or No. 2 M.T. spindle.



DELTA RAM TYPE RADIAL DRILL PRESS LINE—4 Models Available . . . Hand feed, 6" spindle travel, T-slot production table, key chuck or No. 2 M.T. spindle.



DELTA 14" SENSITIVE DRILL PRESS LINE—8 Models Available . . . Hand feed, production table, single or multiple spindle with key chuck.

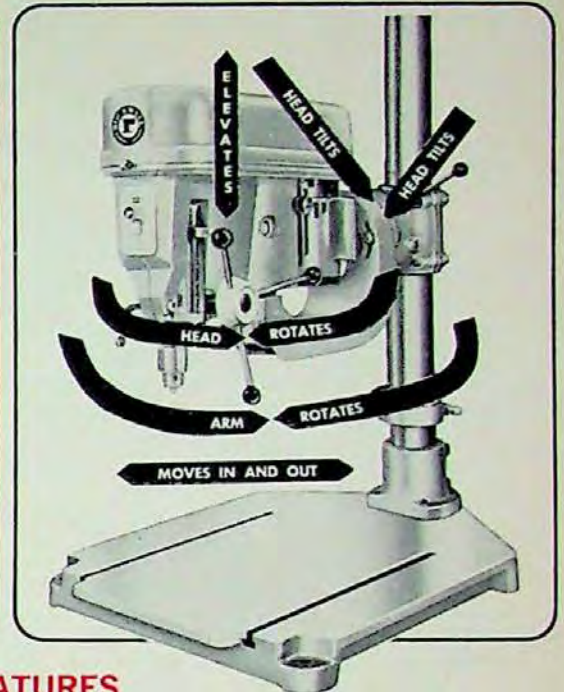
Unique ROCKWELL DELTA UNIDRILL®



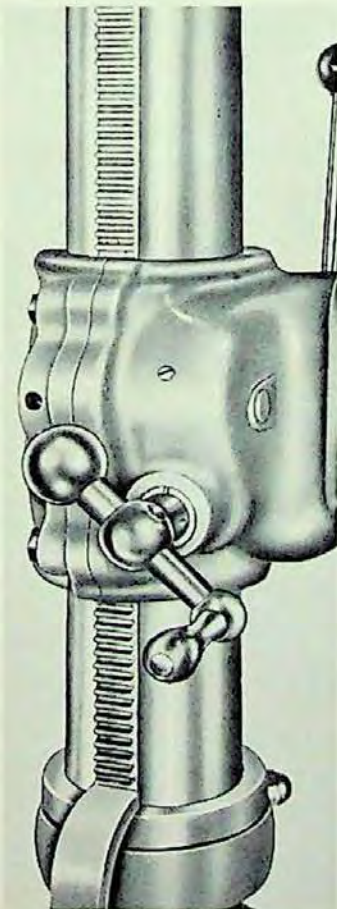
**GIVES YOU FIVE-WAY FLEXIBILITY
... MOVE OR TILT THE DRILL,
NOT THE WORK!**

Because of the UNIDRILL'S® unique flexibility, an operator can position the cutting tool to the work in five different ways—more than any other radial drill press. He can: (1) Move the entire mechanism up and down on the main column; (2) Swivel the mechanism a full 360 degrees around the main column; (3) Rotate the head around the mounting post; (4) Move the head in and out from the column; (5) Most unusual of all, he can tilt the head 45 degrees left or right, making angle drilling an easy operation and eliminating the need for expensive jigs for holding work pieces at different angles.

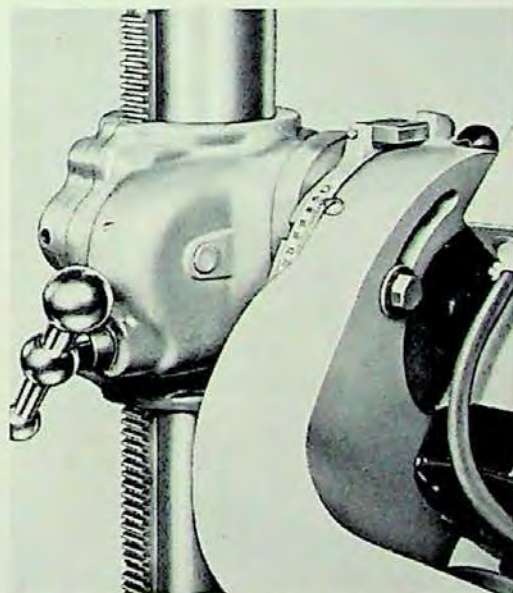
Let us show you this versatile machine today!



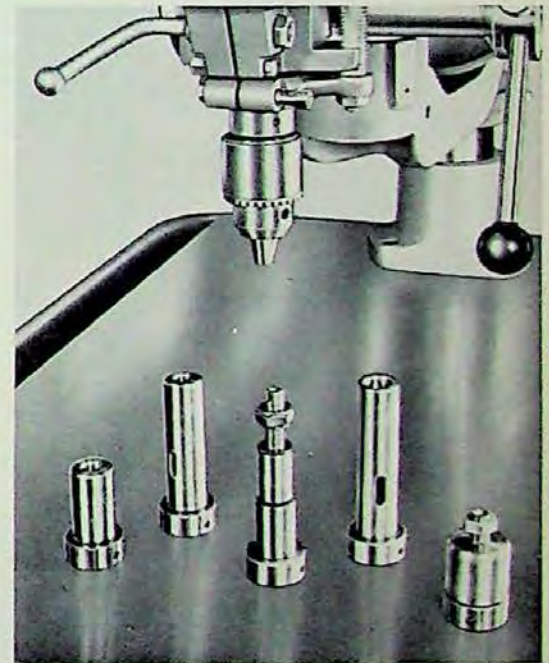
TYPICAL DELTA QUALITY FEATURES



Husky Arm Controls. Photograph at left shows massive ball bearing for easy swiveling of arm, large crank handle for quick elevation of arm, and fast-acting ball end handle for rigid clamping of arm to column.



Head Angle Tilt Accurately Controlled. A rigid swivel block permits fast, positive setting of head, tilts 45° left, 45° right or in the vertical position. Large, easily read scale, with adjustable pointer, facilitates setting head at intermediate angles.



Wide Versatility. The Rockwell Delta UNIDRILL® is unsurpassed in its ability to do many different jobs. Six interchangeable spindle adapters adapt the UNIDRILL® in seconds for operations varying from drilling to wood planing or routing, including counter-boring, reaming, spot facing, sanding and plug cutting, as well as buffing and many other operations.

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA UNIDRILL®

Drills to Center of a 49" Circle

Only Rockwell Delta's unique UNIDRILL® offers the extra flexibility and wide versatility needed by these typical users... tool rooms, pattern shops, wood shops, machine shops and maintenance departments.

This versatile radial drill press fills the gap between expensive machine tool type radial drill presses and light duty machines. See this outstanding value today.

STANDARD EQUIPMENT

Utility Bench Models: Slo-Speed Models include 49-167 V-belt and 41-703 Motor Pulley, 5/8" bore, unless 41-702 1/2" bore is specified. High-Speed Models include 49-168 V-belt and 41-703 Motor Pulley, 5/8" bore, unless 41-702 1/2" bore is specified. Also Front Belt Guard that covers spindle pulleys.

Deluxe Bench Models: Include 49-093 V-belt and 41-833 Motor Pulley, 5/8" bore, unless 41-832 1/2" bore motor pulley is specified. Also Full Belt Guard that covers belt and both pulleys.



No. 15-130
Utility Bench Model
UNIDRILL®



No. 15-107
Deluxe Bench Model
UNIDRILL®

CATALOG LISTING

UTILITY 4-SPEED 4 5/16" STROKE BENCH MODELS* (Less Motor and Control—See Below)

DELUXE 6-SPEED 6" STROKE BENCH MODELS* (Less Motor and Control—See Below)

SPEED	1/2" KEY CHUCK	1/2" KEY CHUCK	No. 2 M.T. SPINDLE
Slo-Speed	15-132—275 lbs.	15-107—364 lbs.	15-108—362 lbs.
High-Speed	15-130—275 lbs.		

*For floor model set-ups, order No. 50-399 pair of steel legs.

MOTORS AND PUSH BUTTON SWITCHES (Factory Mounted and Wired)

MOTOR	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WEIGHT	CATALOG NUMBER
Single Phase, 1/2 HP	Guarded Drip Proof	60—1725	115/230	25	49-769
Three Phase, 1/2 HP	Guarded Drip Proof	60—1725	230/460	23	49-770
Three Phase, 1/2 HP	Guarded Drip Proof	60—1140	230/460	33	49-403

NOTE: Single phase electricals will be wired for 115 V, unless 230 V is specified. Three phase electricals will be wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug supplied for single phase only.

Motors and motor controls for Rockwell Delta UNIDRILLS may be ordered unmounted. For listing, see Sections P and Q.

MACHINE DATA

Overall Dimensions:

Height 48 3/4"; Width 23 1/2"
Front to Rear 38"

Capacities and Range:

Key Chuck 0 to 1/2"
Dia. Hole in Cast Iron 1/2"
Dia. Hole in Steel 3/8"

*Column to G₂ of Spindle

Maximum . . . 24 7/8"; Minimum . . . 10"

Spindle Nose to Table

(DeLuxe Models)

No. 2 M.T. 1/2" to 24 1/8"
1/2" Key Chuck 1 1/16" to 25 3/16"

Spindle Nose to Table

(Utility Models)

No. 2 M.T. 2 5/16" to 25 15/16"
1/2" Key Chuck 3 3/8" to 27"

Column 3 1/2" x 38 1/2"

Table:

Surface (Front of Column Flange) . . 23 1/2" Wide x 25 1/8" Deep
T-Slots (2) 1/2" on 14 1/2" Centers
Clamping Ledges (3) . . . Front and Both Sides

Quill (Deluxe Models):

Stroke 6"; Diameter 2"

Quill (Utility Models):

Stroke 4 5/16"; Diameter 2"

Spindle Speeds (Deluxe Models):

With 1725 rpm Motor . . 425, 600, 1100, 2050, 3900 and 5500 rpm
With 1140 rpm Motor . . 280, 395, 725, 1355, 2575 and 3635 rpm

Spindle Speeds (Utility Models):

Slo-Speed Model (With 1725 rpm Motor) . 470, 780, 1300 and 1950 rpm

Slo-speed Model (With 1140 rpm Motor) . . 310, 515, 860 and 1290 rpm
High-Speed Model (With 1725 rpm Motor) 680, 1250, 2400 and 4600 rpm
High-Speed Model (With 1140 rpm Motor) . 450, 825, 1580 and 3040 rpm

Head Tilts 90°:

Positive Stops at 45° Left; Vertical; and 45° Right

Motor Plate:

Accommodates NEMA Frame Motors 48 and 56

*NOTE: Subtract 3/4" for column flange, which extends 5" above table surface.

ROCKWELL DELTA UNIDRILL® COMPONENTS FOR ASSEMBLING OTHER MACHINE MODELS

No. 14-846 Basic UNIDRILL® Kit complete. Consists of column mounting flange with screws, 3 1/2" x 38 1/2" column, raising mechanism, yoke and arm assembly, head swivel ball bearing, head swivel clamp handle, 2 3/4" x 12" head mounting column and head hold-down collar. 133 lbs.

HEADS

No. 15-018 Utility Head for High-Speed UNIDRILL, with front belt guard, 1/2" key chuck, 49-168 V-belt, 41-703 motor pulley, 5/8" bore. 70 lbs.

No. 15-017 Utility Head for Slo-Speed UNIDRILL, with front belt guard, 1/2"

key chuck, 49-167 V-belt, 41-703 motor pulley, 5/8" bore. 70 lbs.

No. 15-489 Deluxe Head for 6-Speed UNIDRILL, with deluxe belt guard, 1/2" key chuck, 49-093 V-belt and 41-833 motor pulley, 5/8" bore. 72 lbs.

No. 15-488 Deluxe Head for 6-Speed UNIDRILL, with deluxe belt guard, No. 2 M.T. spindle, 49-093 V-belt and 41-833 motor pulley, 5/8" bore. 72 lbs.

TABLES†

No. 14-845 Standard T-slot Table with front and side clamping ledges, ground work surface 23 1/2" wide by 25 1/8" deep (front of column flange). Fits 50-399 Legs. 190 lbs.

No. 14-847 Production Table, with 1 1/2" coolant trough all around, ground work surface 23 3/8" wide by 36" front to back. Tapped for UNIDRILL® column mounting flange. Fits 50-399 Legs. 320 lbs.

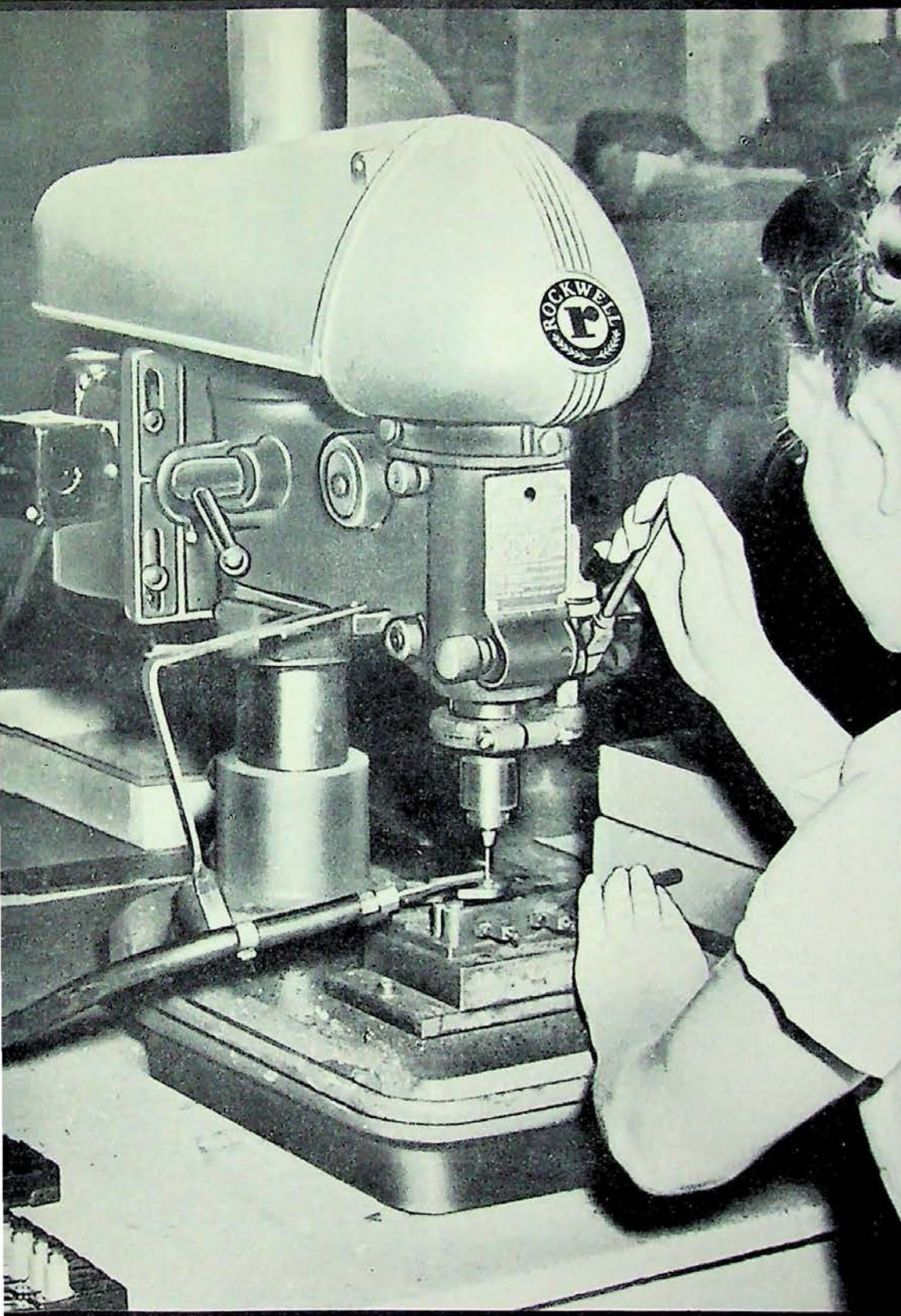
LEGS AND RISER BLOCKS

No. 50-399 Legs, steel, one pair, 27 1/2" high, for mounting Tables 14-845 and 14-847. 100 lbs.

No. 50-400 Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under 50-399 Legs. One pair required for each single leg to raise machine 2". Two blocks can be stacked to raise machine 4". 8 lbs.

†Other drill press tables may be utilized.

For Drill Press Accessories, See Section A9; For Coolant Equipment, See Section D1.



ROCKWELL DELTA 14" SUPER-HI SENSITIVE DRILL PRESS

Makes accurate, small hole drilling easy in jewelry, electronic devices, engine parts, fittings or other "problem jobs."

Now, with new capacity!

Drills tiny No. 80 (.0135") holes. New spindle nose accommodates these Albrecht keyless chucks:

- No. 30-J1,
No. 80 to 1/8" capacity.
- No. 50-J1,
No. 80 to 3/16" capacity.
- No. 65-J1,
No. 80 to 1/4" capacity.

ROCKWELL DELTA 14" SUPER-HI SENSITIVE DRILL PRESS

DELTA QUALITY FEATURES THAT MAKE THE SUPER-HI SENSITIVE DRILL PRESS AN OUTSTANDING VALUE

- **Quill Counterbalanced**—through holes are drilled without quill drop at breakthrough point. Drill breakage eliminated.
- **Quill** selected and lapped into head.
- **Quill** locks at any position.
- **Four Ball Bearings**, specially selected, preloaded, and lubricated-for-life.
- **Dynamically Balanced**, fully machined, aluminum pulleys.
- **Spindle Pulley** taper-hole mounted.
- **14-Spline Spindle Drive** through feather-light floating sleeve.
- **Specially Selected Chuck** mounted on zero precision, tapered spindle nose.
- **Comfortable**, knurled feed wheel and separate feed lever provided. Lever adjustable to most convenient position.
- **Head** adjustable to any height on column.
- **Table** has accurately ground work surface and coolant trough with tapped drain hole.
- **Motor** specially selected and dynamically balanced.

MACHINE DATA

Column diameter	2 $\frac{3}{4}$ "
Quill stroke	2 $\frac{1}{4}$ "
Capacity:	
Chuck holds	from $\frac{1}{4}$ " down to #80 (.0135")
Spindle to column	7"
Spindle to table	20 $\frac{1}{2}$ "
Motor rating	$\frac{1}{2}$ HP
Spindle speeds:	
With 3450 rpm motors:	
Standard	12000, 8000 and 5000 rpm
*Available	10000, 7000 and 4500 rpm
†Available	9000, 6200 and 4000 rpm

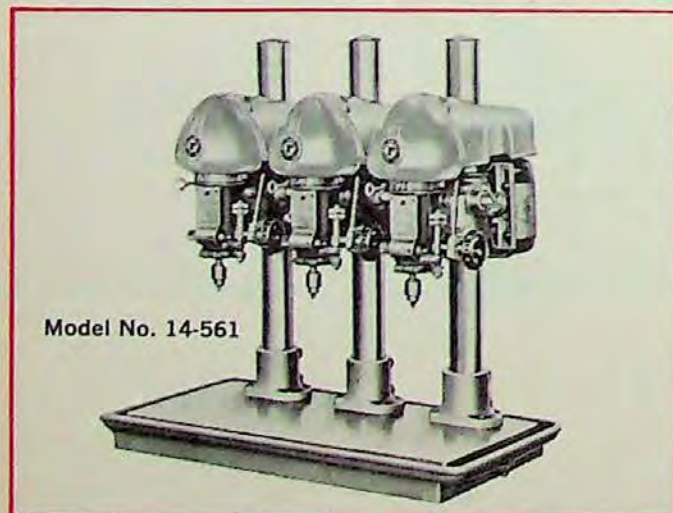
*Order No. 14-829 Pulley extra.

†Order No. 14-830 Pulley and Belt Set extra.

STANDARD EQUIPMENT

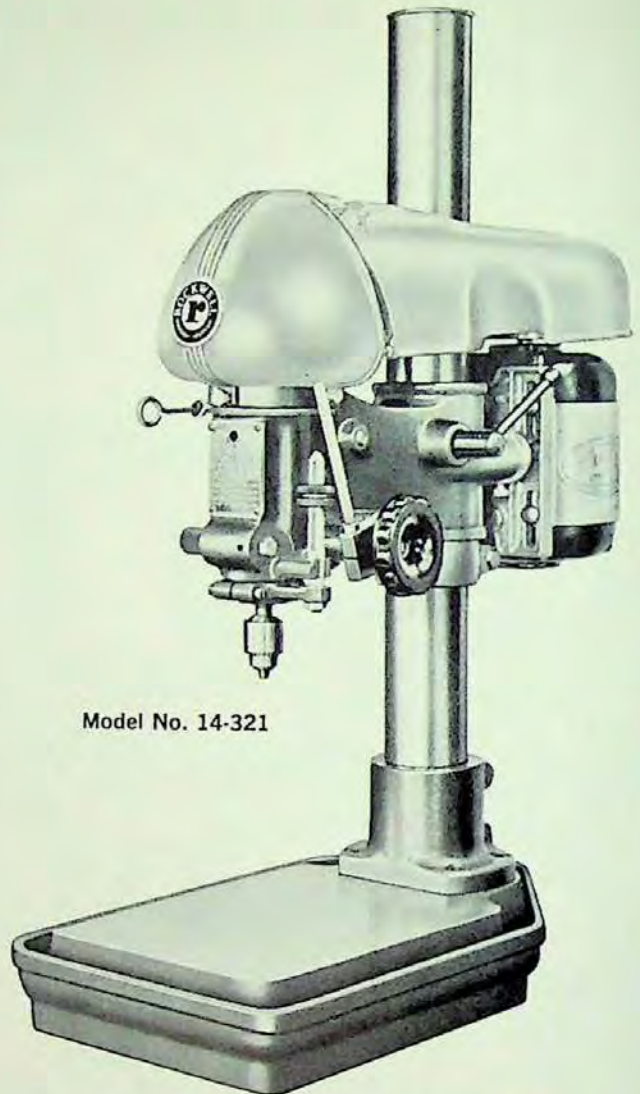
Motor pulley; spindle pulley; flat belt; chuck with key; adjustable depth-of-hole stop; belt and pulley guards; head support collar; column-hole plug; motor with on-and-off switch, cord and plug*; and switch rod*.

*Switch, cord and plug, and switch rod are not standard equipment with three phase models.



Model No. 14-561

This sensitive drilling machine . . . with speeds up to 12,000 rpm . . . can solve your special problems



Model No. 14-321

- Drills tiny holes
- Drills accurate holes
- Speeds up production
- Reduces drill breakage
- Eliminates work spoilage

This Rockwell Delta Super-Hi Sensitive Drill Press meets the special problems of small hole drilling. It's ideal for manufacturers of jewelry, carburetors, brass fittings, electronic devices and specialty parts where small hole drilling is a problem.

While recommended for all drillable materials, it is especially suitable for non-ferrous metals like brass, copper, aluminum and all the precious metals. Also ideal for phenolics.

No other machine offers high speeds, sensitivity, accuracy and vibration-free operation at anywhere near the price.

As a special bonus for owners of standard presses, the separate heads shown on the opposite page, complete with motors, fit all 2 $\frac{3}{4}$ " diameter columns. No need to discard present columns, tables and bases.

See This BIG VALUE Today!

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

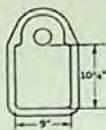
ROCKWELL DELTA 14" SUPER-HI SENSITIVE DRILL PRESS

CATALOG LISTING

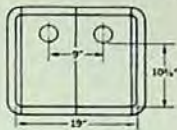
These models of the Super-Hi Drill Press include standard equipment as listed on page at left.

NOTE: Take drills from No. 80 to $\frac{1}{4}$ ". Coolant Pump and Tank can be used when production type table is used with Super-Hi Drill press. Table Drain Hole — Single spindle model has two $\frac{3}{8}$ " Pipe Tap at rear—two, three and four-spindle models have two $\frac{1}{2}$ " Pipe Tap at rear. See Section D1 for Coolant Equipment, Accessories and Dimensions.

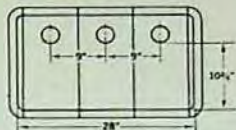
SINGLE SPINDLE
(1 Piece Table)



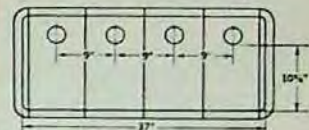
2 SPINDLE
(Sectional Table)



3 SPINDLE
(Sectional Table)



4 SPINDLE
(Sectional Table)



With $\frac{1}{3}$ H.P. Single Phase Motor 115/230 V 60 Cy. 3450 R.P.M.—SPINDLE SPEEDS: 12,000, 8,000 and 5,000 R.P.M. With Switch Rod.

Number Table Surface Ship. Wt.	14-321 10 $\frac{3}{4}$ x 9 152	14-551 10 $\frac{3}{4}$ x 19 488	14-561 10 $\frac{3}{4}$ x 28 900	14-571 10 $\frac{3}{4}$ x 37 1180
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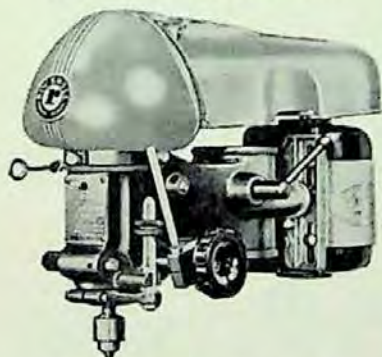
With $\frac{1}{3}$ H.P. 3 Phase Motor 230/460 V, 60 Cy, 3450 R.P.M.—SPINDLE SPEEDS: 12,000, 8,000 and 5,000 R.P.M. Switch and Switch Rod not furnished. No. 49-838 Manual Starter and No. 49-633 Mounting Bracket Recommended.

Number Table Surface Ship. Wt.	14-326 10 $\frac{3}{4}$ x 9 152	14-502 10 $\frac{3}{4}$ x 19 488	14-503 10 $\frac{3}{4}$ x 28 900	14-504 10 $\frac{3}{4}$ x 37 1180
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You can make up your own single or multiple spindle Super-Hi Drill Press by ordering component parts as listed below.

SUPER-HI DRILL PRESS HEADS

Fit Rockwell Delta 14", 15" Or Any
2 $\frac{3}{4}$ " Drill Press Column



STANDARD EQUIPMENT FOR HEADS

Each unit includes specially balanced motor, belt guard, belt and pulley set for the speed listed, and special key chuck taking drills from No. 80 to $\frac{1}{4}$ ". 115V 8-foot cord, 3-prong grounding type plug, switch and 1331 switch rod furnished on single phase motors only.

No. 14-821 Head only with $\frac{1}{3}$ HP, Single Phase, 3450 rpm, 115/230V, 60 Cycle Motor and Switch Rod. Speeds: 12,000, 8,000 and 5,000 rpm. 115 lbs.

No. 14-826 Head only with $\frac{1}{3}$ HP, 3 Phase, 3450 rpm, 230/460 V, 60 Cycle Motor. Switch and Switch Rod not furnished but 49-838 Switch is recommended. Speeds: 12,000, 8,000 and 5,000 rpm. 103 lbs.

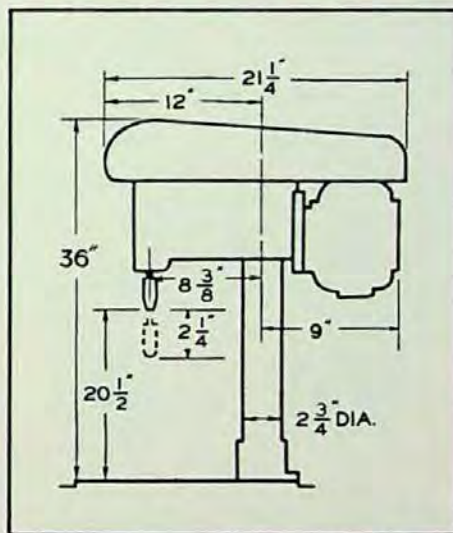


TABLE SECTIONS AND COLUMN PARTS

Minimum center to center distance for column is 9".

No. 14-836 Table Section, 9" x 15 $\frac{5}{8}$ ", for Super-Hi—no ends. 50 lbs. (For other sections, see Page 6, Section A3.)

No. 14-837 Two End Sections, $\frac{1}{2}$ " x 15 $\frac{5}{8}$ ", for Super-Hi sectional table. 25 lbs. (For other sections, see Page 6, Section A3.)

No. 14-840 One Piece Table, 9" x 10 $\frac{3}{4}$ ". 40 lbs.

No. 15-804 Column, 2 $\frac{3}{4}$ " dia. x 33 $\frac{3}{4}$ " long, with $\frac{5}{32}$ " wall thickness. 11 lbs.

No. 15-805 Column, 2 $\frac{3}{4}$ " x 38 $\frac{3}{4}$ ", with $\frac{5}{32}$ " wall thickness. 15 lbs.

No. 15-806 Column, 2 $\frac{3}{4}$ " x 65 $\frac{1}{4}$ ", with $\frac{5}{32}$ " wall thickness. 21 lbs.

No. 15-810 Column, 2 $\frac{3}{4}$ " x 78", with $\frac{5}{32}$ " wall thickness. 26 lbs.

No. 1010 Head-Support Collar for Column. 2 lbs.

No. 1019 Column Mounting Flange and Screws. 10 lbs.

PULLEY AND BELT UNITS

No. 14-829 Spindle Pulley for 3450 rpm motors offering speeds: 10,000, 7,000 and 4,500 rpm. $\frac{1}{2}$ lb.

No. 14-830 Spindle Pulley and 14-834 Belt for 3450 rpm motors offering speeds: 9,000, 6,200 and 4,000 rpm. $\frac{1}{2}$ lb.

No. 14-833 Std. Flat Belt, 39" long. $\frac{1}{4}$ lb.

No. 14-834 Flat Belt, 39 $\frac{1}{2}$ " long. $\frac{1}{4}$ lb.

THREE PHASE CONTROLS

No. 49-838 Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.

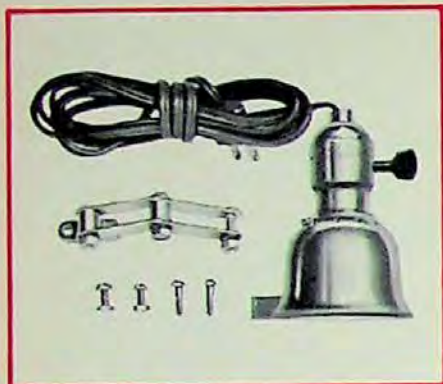
No. 49-665 Starter, Magnetic. For 60 cy. 208-230/460 V. Provides low-voltage, no-voltage and overload protection. Does not include No. 49-842 start-stop control station. Specify motor number and voltage when ordering. 11 $\frac{1}{2}$ lbs.

No. 49-842 Magnetic Starter Control Push Button Switch Kit. Provides integral start-stop control station for 49-665 Starter. 1 lb.

No. 49-633 Mounting Bracket. Used with 49-665 and 49-838 Starters on single spindle drill presses only. 3 lbs.

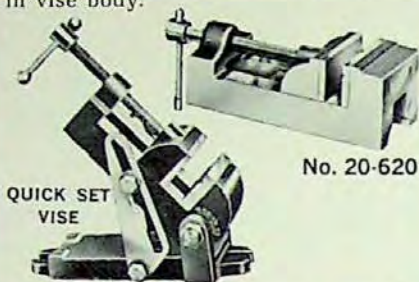
ROCKWELL DELTA 14" SUPER-HI SENSITIVE DRILL PRESS

**DELTA
QUALITY ACCESSORIES
PROVIDE INCREASED
JOB PERFORMANCE**



No. 882 Lamp Attachment—Uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1½ lbs.

Handy, Quick-Set Vises—Raise to any angle. Side of vise accurately graduated for angle work. Accurately machined with base, body and sliding jaws of semi-steel—clamping jaws of hardened steel. Clamping screw has fine pitched thread and long bearing in vise body.

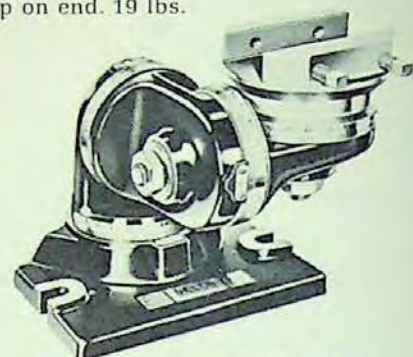


No. 20-620

NO.	JAW	OPENING	LENGTH	SHIP. WT.
†1024	1 x 1½"	1⅝"	4⅞"	4 lbs.
1025	1 x 1½"	1⅝"	4⅞"	6½ lbs.
1026	1⅞ x 2½"	2½"	6¼"	9 lbs.
20-620	1¾ x 4"	4"	10⅞"	19 lbs.

†No. 1024 same as No. 1025 but without raising feature.

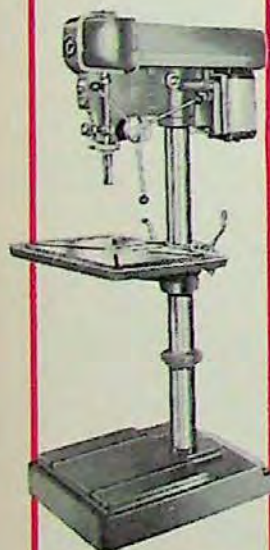
No. 20-620 4" Drill Press Vise with steel jaw plates. Plate for fixed jaw has vertical and horizontal grooves for holding round pieces. Recommended for drilling, tapping, milling, bench work and other operations. Vise is machined so that it can be placed in the normal position on either side, or it can be stood up on end. 19 lbs.



No. 24-902 Univise—A truly universal vise for drilling, grinding, milling, other operations. 16 lbs.

**See the Complete
Rockwell Delta Quality
Drill Press Line Today!**

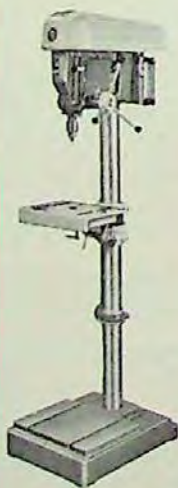
**DELTA 14" SENSITIVE
DRILL PRESS LINE**—
8 Models Available . . .
Hand feed, production
table, single or multiple
spindle with key chuck.



**DELTA 20" DRILL
PRESS LINE**—48 Models
Available . . . Hand or
power feed, standard or
geared spindle pulley,
production or tilt table,
single or multiple spindle
with No. 2 or 3 M.T.



**DELTA 17" VARIABLE
SPEED DRILL PRESS
LINE**—18 Models Avail-
able . . . Hand or power
feed, standard or pro-
duction table, single or
multiple spindle with key
chuck or No. 2 M.T.



**DELTA 17" STEP-PUL-
LEY DRILL PRESS LINE**
—36 Models Available . . .
Hand or power feed, high
or slow speed, standard
or production table, single
or multiple spindle with
key chuck or No. 2 M.T.



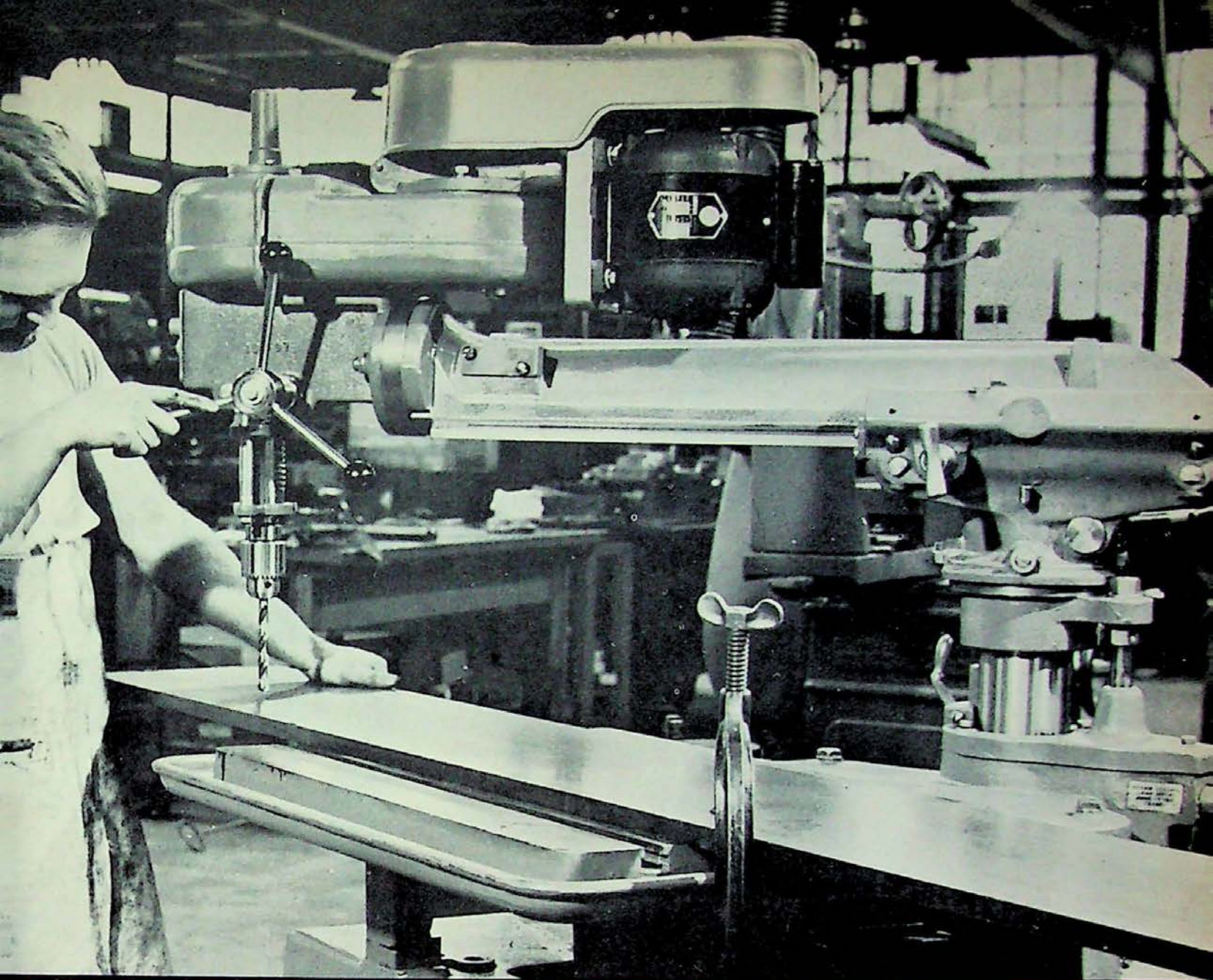
**DELTA 15" DRILL
PRESS LINES**—52 Models
Available . . . Variable
speed and step-pulley
utility and deluxe, pro-
duction or tilt table, single
or multiple spindle with
key chuck or No. 2 M.T.



**DELTA UNIDRILL®—4
Models Available . . .**
Hand feed, 4 or 6-step
pulley, high or slow speed,
key chuck or No. 2 M.T.
spindle.



**DELTA RAM TYPE
RADIAL DRILL PRESS
LINE**—4 Models Avail-
able . . . Hand feed, 6"
spindle travel, T-slot pro-
duction table, key chuck
or No. 2 M.T. spindle.



RAM TYPE **ROCKWELL DELTA RADIAL DRILL PRESS**

HERE'S A UNIT THAT GIVES YOU MACHINE TOOL CAPACITY AND PERFORMANCE COMBINED WITH POWER TOOL ADAPTABILITY AND VERSATILITY

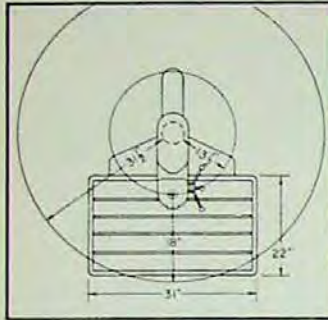
Check its extra big drilling capacity plus its extra wide speed range.

You'll agree that it offers the flexibility you need to supplement or replace fixed machines costing more than twice as much.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

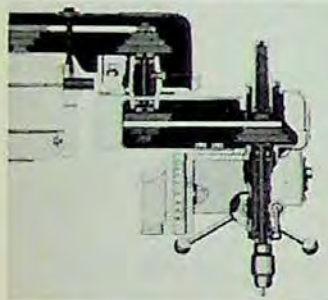
ROCKWELL DELTA RAM TYPE RADIAL DRILL PRESS

FEATURES THAT PROVIDE THE PERFORMANCE AND VERSATILITY OF MACHINES COSTING MORE THAN TWICE AS MUCH!



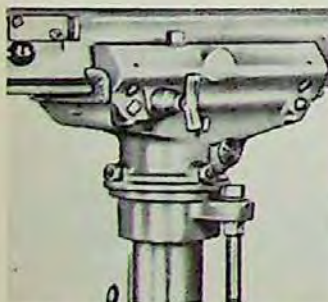
(Left) **Wide Drilling Range for Full Versatility.** The ram has a big 18" travel that permits drilling to the enter of a 62" circle. Head, ram and cradle swing a full 360° around the column for drilling anywhere on the massive table or on work that must be kept on the floor.

(Right) **Head Tilt Adjustments Are Easily Made.** Head tilts a full 45° right or left. Easy-to-read head tilt angle scale permits setting of head at exact angle desired. Double locks—one on each side of head—securely lock head to prevent angle deviation under heavy loads.



(Left) **Jack Shaft Assembly Provides Wide Multiple-Speed Range.** The built-in ball bearing Jack Shaft assembly provides for easy selection of 16 different speeds from 175 to 8200 rpm with a 1725 rpm motor (115 to 5400 rpm with an 1140 rpm motor). You get the right speed for every drilling operation.

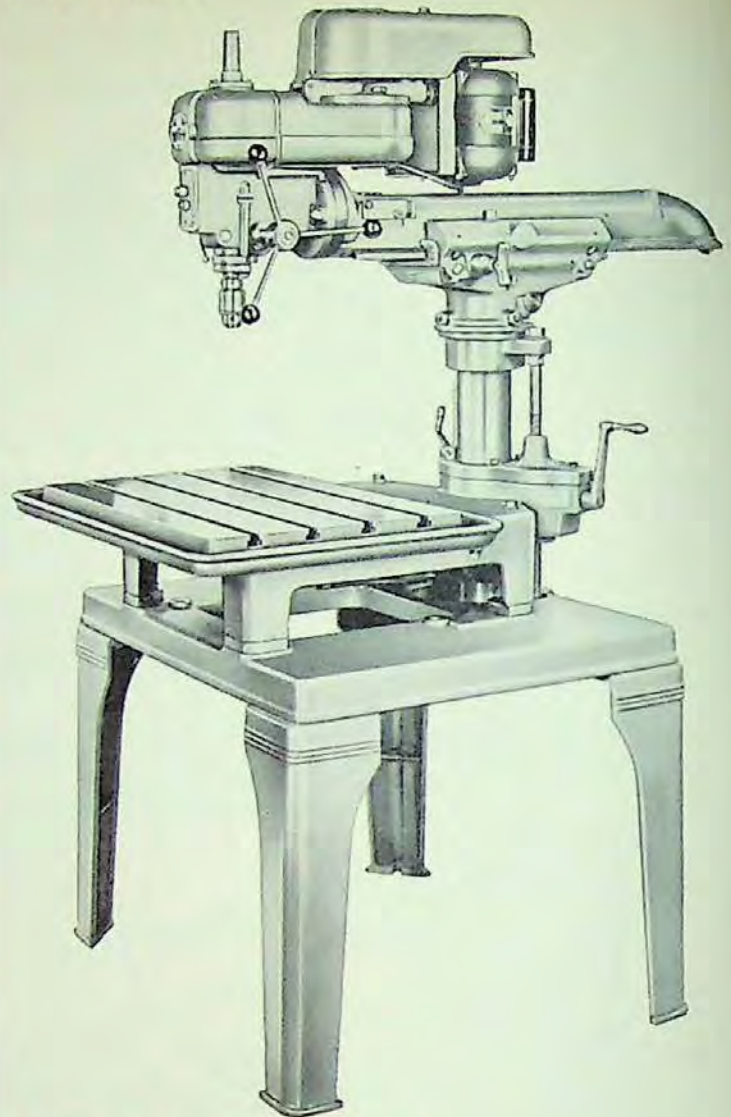
(Right) **Convenient Controls for Extra Operating Ease.** 6" spindle travel model, with single point spindle lubrication, has calibrated depth indicator which shows exact drill penetration. Also features a quill lock knob, two quill wear adjustment screws and an adjustable spindle return stop control.



(Left) **Ball Bearing Construction Facilitates Ram and Drill Head Movement.** Cradle has eight ball bearings placed on an eccentric to permit take-up for wear and provide easy glide movement of ram. Thirty-eight ball bearings in support collar facilitate movement of drill head in a complete circle.

(Right) **Massive Table—Convenient Head Raising Mechanism.** Big 18 x 26" cast iron, machined table has four "T" slots and oil trough tapped to accommodate 1/2" pipe. Handle on right permits rapid raising or lowering of head mechanism.

A7



Drills to Center of a 62" Circle

Rugged built, this economically-priced radial drill press offers the extras usually found only in heavy, fixed machinery:

Extra Drilling Capacity. You can take the drill head right to the work . . . tilt it up to 45° right or left . . . swivel the head 360° for operations either on or off the table.

Extra Wide Speed Range. Built-in jack shaft assembly provides 16 different speeds from as low as 115 rpm to as high as 8200 rpm—the right speed for any job.

Extra Big Capacity. You have your choice of standard 30-inch or the long 42-inch column for extra spindle nose to table capacity, also a big 6" quill stroke with a ram travel of 18". This means you can handle even the BIGGEST jobs.

If you need a radial drill press that's ideal for rapid, precision drilling of large, heavy stock, sheet stock, panels and similar materials, ask for complete information on this Rockwell Delta machine today!

STANDARD EQUIPMENT

All models (excluding Radial Drill Heads) include head, jack shaft assembly, ram, cradle, column, table, raising mechanism, belt guards, 41-772 motor pulley, 287 V-belt (31 1/8" OC) and 49-105 V-belt (30 3/8" OC). Key chuck models include spanner wrench for spindle adapters. No. 65-863 Floor Stand not included.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA RAM TYPE RADIAL DRILL PRESS

CATALOG LISTING

MODEL	MODELS (LESS FLOOR STAND) (Less Motor and Control—See Below)				HEADS WITH AND WITHOUT JACKSHAFT (Less Motor and Control—See Below)			
	COLUMN LENGTH AND TYPE OF SPINDLE				RADIAL DRILL HEADS ONLY (INCLUDING 49-105 V-BELT)		RADIAL DRILL HEADS WITH JACK SHAFT (INCLUDING BELT GUARDS, 41-772 MOTOR PULLEY, 287 AND 49-105 V-BELTS)	
	30-INCH		42-INCH		TYPE OF SPINDLE		TYPE OF SPINDLE	
	NO. 2 MORSE TAPER	1/2" KEY CHUCK	NO. 2 MORSE TAPER	1/2" KEY CHUCK	NO. 2 MORSE TAPER	1/2" KEY CHUCK	NO. 2 MORSE TAPER	1/2" KEY CHUCK
6" Spindle Travel Model	15-114 560 lbs.	15-115 560 lbs.	15-116 600 lbs.	15-117 600 lbs.	15-120 71 lbs.	15-121 71 lbs.	15-124 121 lbs.	15-125 121 lbs.

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES & MOTOR RPM	VOLTAGE	SHIP. WT. (LBS.)	CATALOG NUMBER
Single Phase, 1/2 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	115/230	32	49-716
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60—1725	115/230	38	49-717
	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	28	49-718
	Push Button & Overload Switches	Guarded Drip Proof	60—1725	230/460	31	49-719
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60—1725	230/460	34	49-720
Three Phase, 1/2 Horsepower	Push Button Switch & Magnetic Starter w/115V Transformer	Guarded Drip Proof	60—1725	230/460	36	49-721
	Push Button Switch Only	Guarded Drip Proof	60—1140	230/460	35	49-722
	Push Button & Overload Switches	Guarded Drip Proof	60—1140	230/460	38	49-723
	Push Button Switch & Magnetic Starter	Guarded Drip Proof	60—1140	230/460	41	49-724
	Push Button Switch & Magnetic Starter w/115V Transformer	Guarded Drip Proof	60—1140	230/460	43	49-725

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power Cord and Plug supplied

for single phase only. Motors and motor controls for Rockwell Delta Ram Type Radial Drill Presses may be ordered unmounted. For listing, see Sections P and Q.

MACHINE DATA

Overall Dimensions

Height (with 30" column).....	74"
Width.....	33"
Front to Rear.....	58"

Capacities

Key Chuck.....	0 to 1/2"
Dia. Hole in Cast Iron.....	1/2"
Dia. Hole in Steel.....	3/8"
Column to ϕ of Spindle	
Maximum (Ram Forward).....	31"
Minimum (Ram Back).....	13"
*Spindle Nose to Table	
With 30" Column.....	2 5/8" to 13 1/8"
With 42" Column.....	2 5/8" to 23 3/4"

Vertical Travel of Head Using Raising Mechanism .10"

Column.....3 3/4" dia.

Table

Ground Work Surface.....26" wide x 18" deep
Has Four Parallel 1/2" T-slots on 4" centers
1 3/4" Coolant Trough All Around with 1/2" Pipe Tap

Quill

Stroke.....6"
Diameter.....1 1/16"

Spindle Speeds.....16

Spindle Speeds

With 1725 rpm Motor: 175, 365, 380, 600, 695, 765,
1030, 1250, 1380, 1450, 2200, 2300, 2800, 4000, 4750,
8200 rpm

With 1140 rpm Motor: 115, 240, 250, 395, 455, 505,
680, 825, 910, 960, 1450, 1520, 1850, 2640, 3130, 5400
rpm

Head Tilts 90°.....45° Left, Vertical, 45° Right

*NOTE: With 1/2" Key Chuck Spindle, jaws closed.
Add 7/16" to all spindle nose to table dimensions
for No. 2 M.T. Spindle.

DELTA QUALITY ACCESSORIES PROVIDE INCREASED JOB PERFORMANCE

No. 65-863 Floor Stand—For all Ram
Type Radial Drill Presses. 216 lbs.

KEY CHUCKS

No. 968 Drill Chuck—3-jaw type, 0 to
1/2" capacity, with No. 2 M.T. shank. In-
cludes chuck key. 2 1/2" lbs.



No. 15-830 Drill Chuck, 0-1/2" capacity,
with mounting collar tapped 1 1/16"—20.
Includes chuck key. 1 1/2 lbs.

SPINDLE ADAPTERS

No. 15-832 Spindle Adapter, No. 1 M.T.,
with mounting collar tapped 1 1/16"—20.
2 lbs.



No. 15-833 Spindle Adapter, No. 2 M.T.,
with mounting collar tapped 1 1/16"—20.
1 lb.



No. 15-837 Spindle Adapter, 1/2" hole,
with mounting collar tapped 1 1/16"—20.
For router bits, wood bits, etc. 1 lb.

ROCKWELL DELTA RAM TYPE RADIAL DRILL PRESS

ACCESSORIES—Continued

No. 15-838 Spanner Wrench— $1\frac{1}{2}$ " x $5\frac{3}{4}$ " long, with single lug for $\frac{7}{32}$ " hole. Recommended for threaded mounting collar of Drill Chuck 15-830 or Adapters 15-832 and 15-833. $\frac{1}{4}$ lb.



No. 20-620



QUICK SET
VISE

Handy, Quick-Set Vises—Raise to any angle. Side of vise accurately graduated for angle work. Accurately machined with base, body and sliding jaws of semi-steel—clamping jaws of hardened steel. Clamping screw has fine pitched thread and long bearing in vise body.

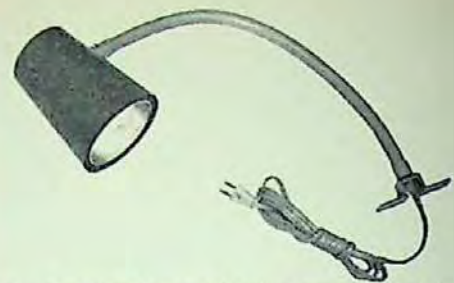
NO.	JAW	OPENING	LENGTH	SHIP. WT.
†1024	1 x $1\frac{1}{2}$ "	$1\frac{3}{8}$ "	$4\frac{3}{8}$ "	4 lbs.
1025	1 x $1\frac{1}{2}$ "	$1\frac{3}{8}$ "	$4\frac{3}{8}$ "	6½ lbs.
1026	$1\frac{7}{16}$ x $2\frac{1}{2}$ "	$2\frac{1}{2}$ "	$6\frac{1}{4}$ "	9 lbs.
20-620	$1\frac{3}{4}$ x 4"	4"	$10\frac{3}{4}$ "	19 lbs.

†No. 1024 same as No. 1025 but without raising feature.

No. 20-620 4" Drill Press Vise with steel jaw plates. Plate for fixed jaw has vertical and horizontal grooves for holding round pieces. Recommended for drilling, tapping, milling, bench work and other operations. Vise is machined so that it can be placed in the normal position, on either side, or it can be stood up on end. 19 lbs.



No. 24-902 Univise—A truly universal vise for drilling, grinding, milling, other operations. 16 lbs.



No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.

MOTOR PULLEYS

No. 41-772 Four-Step— $\frac{1}{2}$ " bore. 1 lb.

No. 41-773 Four-Step— $\frac{5}{8}$ " bore. 1 lb.

BELTS

No. 287 V-Belt, $31\frac{1}{8}$ " OC, for Ram Type Radial Drill Presses (rear belt). $\frac{1}{2}$ lb.

No. 49-105 V-Belt, $30\frac{1}{8}$ " OC, for Ram Type Radial Drill Presses (front belt). $\frac{1}{2}$ lb.

For Coolant Equipment, see Section D1.

See the Complete
Rockwell Delta Quality
Drill Press Line Today!



DELTA 20" DRILL PRESS LINE—48 Models Available . . . Hand or power feed, standard or geared spindle pulley, production or tilt table, single or multiple spindle with No. 2 or 3 M.T.



DELTA 17" VARIABLE SPEED DRILL PRESS LINE—18 Models Available . . . Hand or power feed, standard or production table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA 17" STEP-PULLEY DRILL PRESS LINE—36 Models Available . . . Hand or power feed, high or slow speed, standard or production table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA 15" DRILL PRESS LINES—52 Models Available . . . Variable speed and step-pulley utility and deluxe, production or tilt table, single or multiple spindle with key chuck or No. 2 M.T.



DELTA UNIDRILL—4 Models Available . . . Hand feed, 4 or 6-step pulley, high or slow speed, key chuck or No. 2 M.T. spindle.



DELTA 14" SENSITIVE DRILL PRESS LINE—8 Models Available . . . Hand feed, production table, single or multiple spindle with key chuck.



DELTA RAM TYPE RADIAL DRILL PRESS LINE—4 Models Available . . . Hand feed, 6" spindle travel, T-slot production table, key chuck or No. 2 M.T. spindle.

ROCKWELL DELTA DRILL PRESS ACCESSORIES

DELTA QUALITY ACCESSORIES THAT PROVIDE INCREASED JOB PERFORMANCE

Handy, Quick-Set Vises—Raise to any angle. Side of vise accurately graduated for angle work. Accurately machined with base, body and sliding jaws of semi-steel—clamping jaws of hardened steel. Clamping screw has fine pitched thread and long bearing in vise body.



NO. 20-620



QUICK SET VISE

NO.	JAW	OPENING	LENGTH	SHIP. WT.
†1024	1 x 1½"	1⅝"	4⅞"	4 lbs.
1025	1 x 1½"	1⅝"	4⅞"	6½ lbs.
1026	1⅞ x 2½"	2½"	6¼"	9 lbs.
20-620	1¾ x 4"	4"	10¾"	19 lbs.

†No. 1024 same as No. 1025 but without raising feature.

No. 20-620 4" Drill Press Vise with steel jaw plates. Plate for fixed jaw has vertical and horizontal grooves for holding round pieces. Recommended for drilling, tapping, milling, bench work and other operations. Vise is machined so that it can be placed in the normal position, on either side, or it can be stood up on end. 19 lbs.



NO. 24-902

No. 24-902 Univise . . . First truly universal vise for grinding, drilling and milling. Can be set at any angle desired. Vise can be returned exactly to its original setting for duplicate grinding. Each station had a 360° circular scale. 16 lbs.



Machine Spur Bits—Production type. Made of selected steel. Have brad point and two cutting spur lips. Approximately 6" long with ½" shank. Weight per set 3 lbs.

No. 804 ¼" No. 807 ⅞" No. 810 ⅝"
 No. 805 ⅜" No. 808 ½" No. 812 ¾"
 No. 806 ⅝" No. 809 ⅞"

No. 818—Complete set of 8 machine spur bits.



Plug Cutters—Used for making wood plugs and dowels. ½ x 2" shank, barrel 2¼" long. Cuts plugs 2" thick and dowels 2" long.

No. 814 ⅝" dia. No. 816 ⅝" dia. No. 819 1" dia.
 No. 815 ½" dia. No. 817 ¾" dia.

No. 822—Complete set of 5 plug cutters, 2½ lbs.

SANDING DRUMS AND ABRASIVE SLEEVES FOR INSIDE AND CURVED WORK ON YOUR DRILL PRESS

Perfect work is easy with these sanding drums. No fasteners to bump—no uneven expansion. In these drums, each rubber section is separated from its neighbor by bakelite washers, with non-corrosive metal bushings next to the arbor. Disks expand uniformly, run dead true, produce perfect work.



No. 830 Drum, 3" dia. x 3", with one sleeve. Fits ½" dia. shaft. 2 lbs.

No. 831 Sleeves, ½ doz., 3 x 3". 40 grit coarse garnet. ½ lb.

No. 832 Sleeves, ½ doz., 3 x 3". 60 grit medium garnet. ½ lb.

No. 833 Sleeves, ½ doz., 3 x 3". 50 grit al. ox. (for metal). ½ lb.



No. 835 Drum, 1¾" dia. x 2", with one sleeve. Fits ½" dia. shaft. 1¾ lbs.

No. 836 Sleeves, ½ doz., 1¾ x 2". 40 grit med. garnet. ¼ lb.

No. 837 Sleeves, ½ doz., 1¾ x 2". 60 grit fine garnet. ¼ lb.

No. 838 Sleeves, ½ doz., 1¾ x 2". 50 grit al. oxide (for metal). ¼ lb.

No. 11-834 Auxiliary Shaft—½ x 2½" with milled flat entire length. For mounting sanding drums or any set screw mounted accessory with ½" hole.



No. 840 Drum, 1⅞" dia. x 2½", with one sleeve. With ½" shank to fit hollow spindle or chuck. ½ lb.

No. 841 Sleeves, ½ doz., 1⅞ x 2½". 50 grit med. garnet. ½ lb.

No. 842 Sleeves, ½ doz., 1⅞ x 2½". 80 grit fine garnet. ½ lb.

No. 847 Sleeves, ½ doz., 1⅞ x 2½". 50 grit al. oxide (for metal). ½ lb.

NARROW SANDING DRUMS AND SLEEVES

Drums of solid rubber for use in 3-jaw chuck.

No. 679 Drum, 1½" dia. x 1", with one sleeve, ⅝" shank. ½ lb.



No. 682 Sleeves, ½ doz., 1½ x 1". 40 grit al. oxide. ¼ lb.

No. 683 Sleeves, ½ doz., 1½ x 1". 80 grit al. oxide. ¼ lb.

No. 680 Drum, 2⅜" dia x 1", with one sleeve. ⅝" shank. ½ lb.

No. 684 Sleeves, ½ doz., 2⅜ x 1". 40 grit al. oxide. ¼ lb.

No. 685 Sleeves, ½ doz., 2⅜ x 1". 80 grit al. oxide. ¼ lb.

No. 681 Drum, 3" dia. x 1", with one sleeve, ⅝" shank, ¾ lb.

No. 686 Sleeves, ½ doz., 3 x 1". 40 grit al. oxide. ½ lb.

No. 687 Sleeves, ½ doz., 3 x 1". 80 grit al. oxide. ½ lb.



Mortising Chisels—Production type. Made of selected steel. Shank of chisel is ⅝ x 1¼".

No. 504—¼ x ¼", mortises 1⅞" deep.

No. 505—⅝ x ⅝", mortises 1⅞" deep.

No. 506—⅝ x ⅝", mortises 3" deep.

No. 508—½ x ½", mortises 3" deep.

Mortising Chisel Bits—Of selected steel. Bit operates inside chisel.

No. 514—¼" bit x ⅜" dia. shank.

No. 515—⅝" bit x ¼" dia. shank.

No. 516—⅝" bit x 1⅞" dia. shank.

No. 518—½" bit x 1⅞" dia. shank.

Router Bits—For routing, round end mortising and grooving. ½ x 1½" shank. Use with 15-837 Adapter.

No. 474 ¼" dia. **No. 477** ⅞" dia.

No. 475 ⅜" dia. **No. 478** ½" dia.

No. 476 ⅝" dia.

No. 480—Complete set of 5 router bits. 2 lbs.

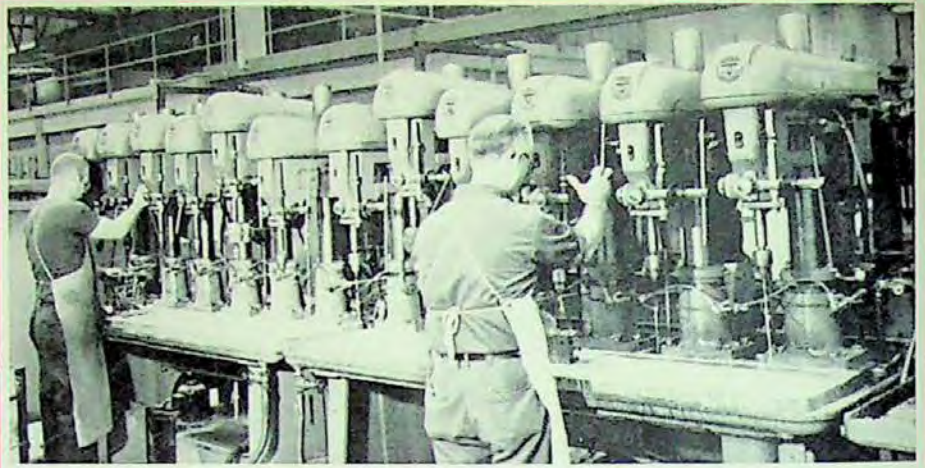
No. 992 Cup Grinding Wheel—3½ x 1½" with ½" hole. Aluminum oxide, 60 grit, Grade K. Use with 15-835 Adapter. 2 lbs.

ROCKWELL DELTA INDUSTRIAL MACHINES ARE USED EVERYWHERE

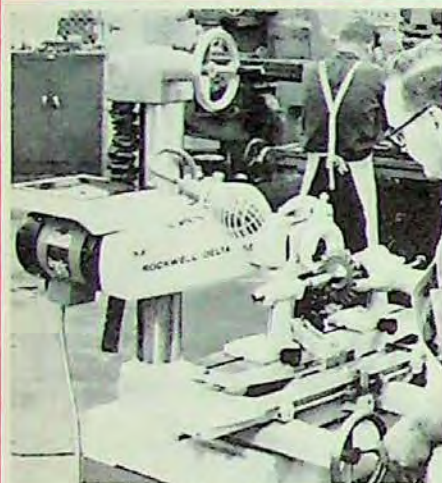
In Industry—Building Trades—Schools—Custom and Job Shops



MAINTENANCE DEPARTMENT



PRODUCTION SHOP



TOOL MAINTENANCE DEPARTMENT

Whatever your particular operation may be—cutting . . . drilling . . . grinding . . . finishing—Delta produces a wood or metalworking machine suited to meet your most exacting requirements. Shown are just a few of the hundreds of such applications to which users put the world's most complete industrial tool line of 61 machines . . . 302 models . . . over 1400 accessories.



WOOD SPECIALTY SHOP



SCHOOL SHOP



TOOL ROOM



MILL WORKSHOP



METAL FABRICATOR



PATTERN SHOP

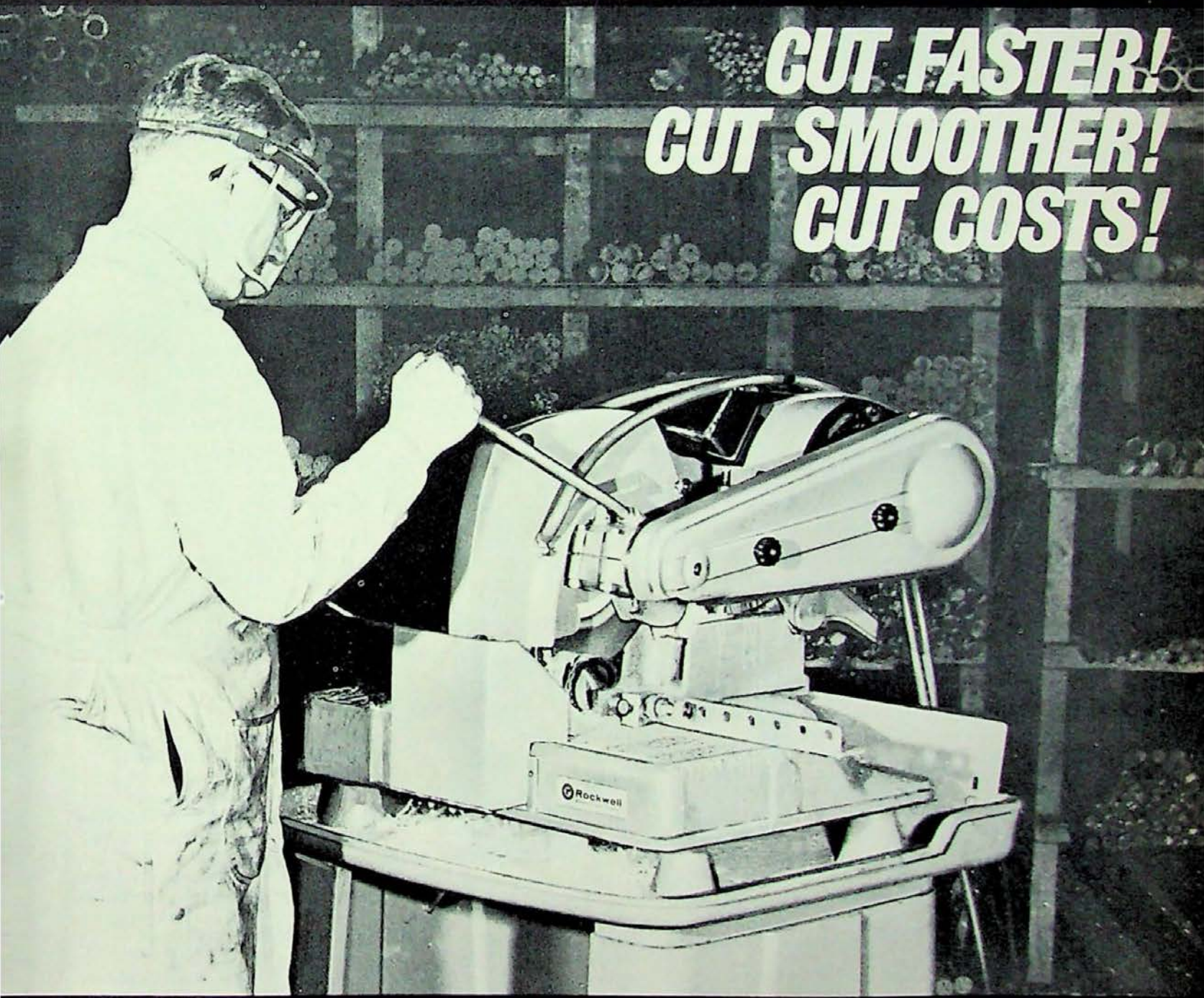


BUILDER

ROCKWELL DELTA 12" CUT-OFF MACHINES

Now! You can modernize your method of doing dry or wet abrasive cutting or the cutting of non-ferrous metals and wood. With Rockwell Delta Cut-Off Saws you cut off better than with power hack saws, band saws, lathes, grinders or torches. Let us "Performance-Prove" one of the four "cost-saving" models for you today!

**CUT FASTER!
CUT SMOOTHER!
CUT COSTS!**

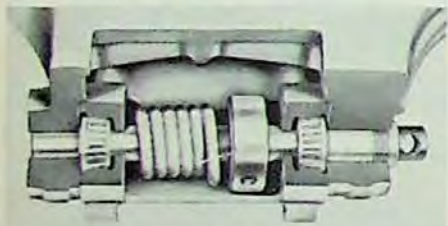


ROCKWELL DELTA 12" CUT-OFF MACHINES

**DELTA QUALITY FEATURES
THAT SAVE
PRODUCTION TIME
AND PROMOTE
OPERATING ECONOMY**



Extra Large Capacity—You get these BIG capacities with the Rockwell Delta 12" Cut-Off Machine: wood and plastics—2 x 8"; non-ferrous tubing and solid round bars—3 1/4"; ferrous tubing—3 1/4" and solid round bars 1020 steel—1 1/2"; angles—3 x 3"; channels—4". These are verified capacities which can be maintained at a production rate using a 5 HP motor (3 HP for wood, plastic, and thin-walled non-ferrous tubing). No machine limited to 2, 3, or 3 1/2" HP can match this performance.



Tapered Bearings Assure Precision Accuracy—Pivot shaft is mounted on rigid, widely spaced Timken Tapered Roller Bearings. Selected for their adjustability, these bearings eliminate all play and assure perfect cutting accuracy. Torsion spring on pivot shaft adjusts in either direction to counter-balance motor. This provides correct, light feed pressure, assuring ease of operation.



Full, Even Power Transmission—Triple, matched, V-belt Drive utilizes the full power of the motor, eliminates transmission of any vibration from motor to cutting wheel. Dynamically balanced motor and arbor pulleys have V-grooved diameters concentric with center hole for long life and smooth running. Mitering never disturbs belt alignment.

B1



Heavy Duty 1" Arbor—Precision ground, the husky 1" arbor is supported by extra large, pre-loaded, lubricated-for-life ball bearings that are mounted in Delta's Unique Cartridge Assembly. Pre-loading of bearings by means of steel sleeves for the inner and outer races removes all play and guarantees accuracy and long life with minimum vibration. Notice the port hole and slotted wheel flange, part of the coolant system for non-ferrous cutting.

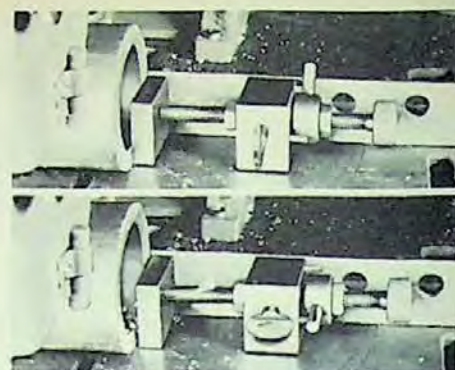


Exclusive Hollow Arbor Spray Coolant—Only Rockwell Delta Cut-Off Machines offer this patented feature which makes cutting of non-ferrous metals a simple operation. Oil drips from reservoir and enters hollow blade arbor. Then it flows from two staggered port holes, 180° apart but not in line, to lubricate both sides of the blade. The fan action of the blade throws a mist of oil on the work piece, preventing the development of heat and greatly increasing the cutting performance and life of the saw blade.



"Swinging Arbor" for Mitering—The complete Cut-Off Machine Arbor and Work Head swivels as one unit through a 90° arc. This means that work always moves in a straight line across the table, eliminating awkward swinging of stock when mitering. Double calibrated scale permits direct reading for miter cuts from 0° to 45°, right and left.

Safety Engineered Throughout—The specially designed wheel guard complies with ASA safety standards. Although it lifts up to permit front loading of stock, a "nose" drops to the table in front of the work to protect the operator during actual cutting.



Exclusive Retractable Size Gage—Accurately and quickly gages stock in lengths from 0 to 14". When finger is in "up" position (see top illustration), work is held against stop block. When finger is switched to "down" position, stock block moves slightly away. This avoids pinching of wheel as work piece expands due to cutting friction of abrasive wheel.



Exclusive Replaceable Arbor—Rockwell Delta Cut-Off machines incorporate in their arbor design a proven special Cartridge Assembly. When necessary, this assembly can be replaced in minutes, practically eliminating down time. The assembly contains Delta's Five Famous Quality Features—lubricated-for-life ball bearings, precision bored bearing seats, pre-loaded bearings, precision ground arbor and dynamically balanced pulley. Assembly also is sealed against dirt and full flood of water.

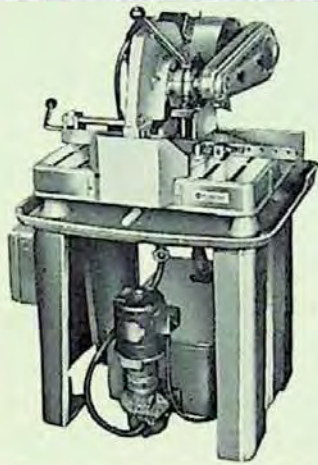
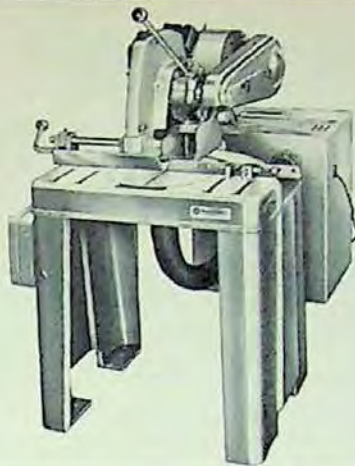
DELTA QUALITY EXTRAS

- Table has a BIG 11 x 27" working surface with four pairs of parallel T-slots for easy clamping of work.
- Motor mounts on and swings with arbor bracket to maintain belt alignment and tension throughout cutting arc.
- Arbor bracket support has hollow construction to form dust spout at rear. "Soup dish" guard under table forms second dust spout.
- Retractable size gage has screw adjustment greater than center of holes in fence.
- Rugged work clamp is double action (push or pull), cam type with "Universal" 3-position clamp.
- Air cylinder feeds, hydraulic check cylinders, air-mist coolant attachments, air clamps, and other automation devices may be easily attached for labor saving and quality control on high production work.

ROCKWELL DELTA 12" CUT-OFF MACHINES

Dry Abrasive Cut-Off Machine—Excellent for cutting steel (stainless, high speed, tool, etc.), wire rope, angle iron, iron pipe, ceramics, Tobin bronze, and many other hard materials. Cuts a square inch of steel in less than four seconds.

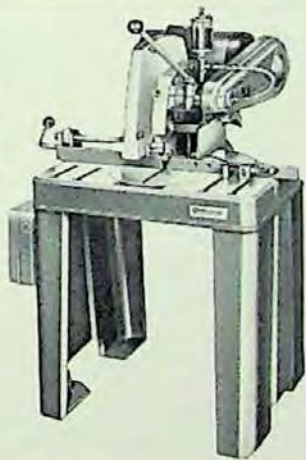
For Accessory Dust Collector and Attachment Package, See Section "D".



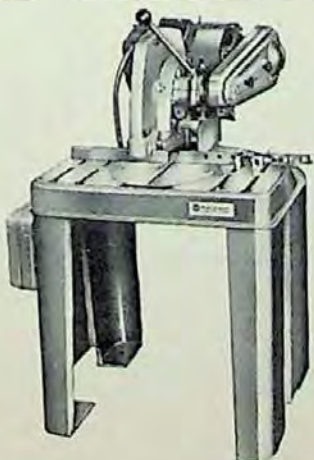
Wet Abrasive Cut-Off Machine—Provides for a full flow of coolant on the work. Used on the same hard materials handled on the Dry Abrasive Cut-Off Machine. Sacrifices speed for smooth cutting with minimum burr, long wheel life.

For Accessory Coolant Pump and Tank, See Section "D".

Non-Ferrous Cut-Off Machine—Ideal for cutting aluminum, plastics, mica, Dow metal, etc. Patented coolant attachment assures an extremely fast, accurate cut with burr-free "polished smoothness" on all non-ferrous metals.



Wood Cut-Off Machine—(Order Nos. 20-100, 50-399, 294, 41-627, plus electricals desired)—For handling all materials sawed with conventional wood cutting blades. Specially designed guard permits front loading of long stock. For high production cut off and mitering. Cuts off a 2 x 8" plank in less than one second.



For Dry and Wet Abrasive Cutting and for Cutting Non-Ferrous Metals and Wood

If you have the problem of cutting off materials to proper length, in your small shop or your large industrial plant, Rockwell Delta 12" Cut-Off Machines will do a faster, more accurate and smoother job than any other cut-off method.

Here's why—the BIG 3¼" capacity makes this machine ideal for doing hundreds of jobs... the *extra powerful motors* assure *maintained* cutting speeds, even on the heaviest cuts... the *unmatched* combination of Delta Quality Features guarantees quick, accurate cutting of practically any material.

In metalworking shops this method is replacing hand and power type hack saws, vertical and horizontal band saws, acetylene torches, presses, shears, lathes, screw machines, mills, grinders and similar equipment. Where cutting of non-ferrous metals, wood, plastic and allied materials is necessary, the Cut-Off Method is replacing hand, portable, band, circular and radial saws.

If you want *increased production*, *improved quality* and *lowered costs*, replace your present cutting off set-up with a modern Rockwell Delta Cut-Off Machine.

MACHINE DATA

Overall Dimensions (With Legs):

Width.....35"; Front to Rear.....35"; Height.....50"

Capacities (For 90° Cutting):

Wood and Plastic2 x 8"

Non-Ferrous Metals (With Saw Blade):

Tubing (Maximum Diameter)3¼"

Solid Round Bar (Maximum Diameter)3¼"

Ferrous Metals (With Abrasive Wheel):

Tubing (Maximum Diameter)3¼"

Solid Round Bar 1020 Steel (Maximum Diameter) . . .1½"

Angles3 x 3"

Channels4"

Speeds:

With 1725 rpm Motor and 6" Motor Pulley:

Arbor Speed, rpm4,000

Rim of 12" Blade or Wheel, sfpm12,600

Blade or Wheel Diameter (Maximum)12"

Arbor Hole1"

Wheel Flanges, Diameter3½" and 5"

Miters (Swinging Arbor)45° Left and 45° Right

Table:

Working Surface in Front of Fence11 x 27"

Height (Without Coolant Pan)32"

Height (With Coolant Pan)36"

Has Four Pairs of Parallel T-Slots and Double Calibrated Miter Scale.

Motor:

Mounting Plate Accommodates

NEMA Frame Motors 213 and 215.

STANDARD EQUIPMENT

All Models include wheel guard, belt guard, fence with size gauge, 3½" wheel flanges and 5" wheel flanges with coolant slots.

CATALOG LISTING

No. 20-100 12" Cut-Off Machine. Includes wheel guard, belt guard, fence with size gauge, 3½" wheel flanges, and 5" wheel flanges with coolant slots. 272 lbs.

Continued on next page

ROCKWELL DELTA 12" CUT-OFF MACHINES

CATALOG LISTING—Continued

No. 20-220 12" Cut-Off Machine for Dry Abrasive Cutting (With Legs). Same as No. 20-100 except with No. 50-399 pair of steel legs 27½" high, No. 20-801 clamp fixture, No. 294 (set of 3) 51⅝" OC V-belts, and No. 41-627 6" 3-belt motor pulley 1⅝" bore with ¼" keyway. Without abrasive wheel, motor and switch. 390 lbs.

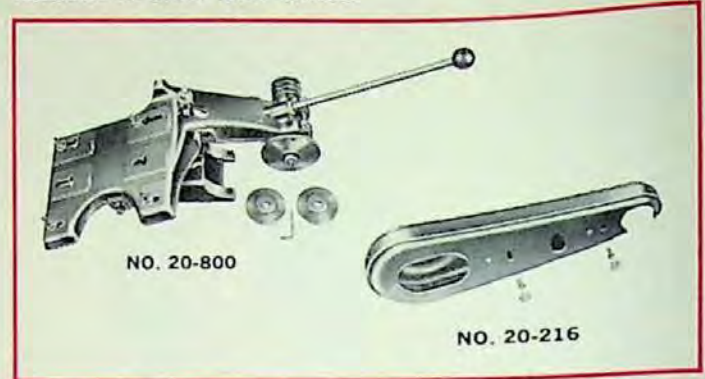
No. 20-222 12" Cut-Off Machine for Wet Abrasive Cutting (With Legs). Same as No. 20-100 except with No. 50-399 pair of steel legs 27½" high, No. 20-801 clamp fixture, No. 294 (set of 3) 51⅝" OC V-belts, No. 41-627 6" 3-belt motor pulley 1⅝" bore with ¼" keyway, and No. 20-840 coolant pan. Without abrasive wheel, motor and switch. 531 lbs.

No. 20-221 12" Cut-Off Machine for Non-Ferrous Cutting (With Legs). Same as No. 20-100 except with No. 50-399 pair of steel legs 27½" high, No. 20-801 clamp fixture, No. 294 (set of 3) 51⅝" OC V-belts, No. 41-627 6" 3-belt motor pulley 1⅝" bore with ¼" keyway, and No. 20-832 coolant attachment. Without saw blade, motor and switch. 394 lbs.

WORK HEAD AND GUARDS FOR BUILDING SPECIAL PURPOSE MACHINES

This work head is used on all Rockwell Delta Cut-Off Machines. It is also offered as a separate unit for those

users who wish to design a special-purpose cut-off machine to meet their needs.



No. 20-800 Work Head, including ball bearing arbor assembly, 2⅜" 3-belt arbor pulley, 3½" and 5" wheel flanges, feed handle, motor mounting plate, pivot shaft with Timken roller bearings and adjustable torsion spring, adjustable rubber stops and base casting. Motor and controls are not supplied factory mounted on Work Head. 69 lbs.

No. 20-802 Blade Guard, complete with lifting spring and mounting parts. 33 lbs.

No. 20-216 Guard for Belts and Pulleys, complete with mounting bolts. 25 lbs.

MOTORS AND CONTROLS (Factory Mounted and Wired)

(For general purpose applications, 5 HP is recommended; use 3 HP for saw blade cutting of wood, plastic and thin-wall non-ferrous tubing only.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 3 Horsepower	Push Button Manual Starter w/Overload	Guarded Drip Proof	60-1725	115/230	132	52-004
	Magnetic Starter with Push Button Control	Guarded Drip Proof	60-1725	115/230	133	52-005
Three Phase, 3 Horsepower	Push Button Manual Starter w/Overload	Guarded Drip Proof	60-1725	230/460	111	52-006
	Magnetic Starter with Push Button Control	Guarded Drip Proof	60-1725	230/460	113	52-007
	Magnetic Starter with Push Button Control (w/115 V Transformer)	Guarded Drip Proof	60-1725	230/460	116	52-008
Three Phase, 5 Horsepower	Push Button Manual Starter w/Overload	Guarded Drip Proof	60-1725	230/460	120	52-009
	Magnetic Starter with Push Button Control	Guarded Drip Proof	60-1725	230/460	122	52-010
	Magnetic Starter with Push Button Control (w/115 V Transformer)	Guarded Drip Proof	60-1725	230/460	126	52-011

NOTE: Single phase electricals will be supplied wired for 230V only. Three phase electricals will be wired for 230V, unless 208V or 460V is specified. Power cord and plug not supplied. Motors and motor controls

for Rockwell Delta 12" Cut-Off Machines may be ordered unmounted. For listing, see Sections P and Q.

DELTA QUALITY ACCESSORIES THAT INCREASE THE VALUE OF THE 12" CUT-OFF MACHINE

No. 20-817 Abrasive Wheel for dry cutting, general purpose, for soft and hard steel and hard bronze, ⅝" x 12" dia. with 1" hole. 1¼ lbs.

No. 20-819 Abrasive Wheel for dry cutting, used for long wheel life where burr is permissible. For all steels and hard bronze, ⅝" x 12" dia. with 1" hole. 2 lbs.

No. 20-820 Abrasive Wheel for dry cutting, used where maximum freedom from burr is more important than long wheel life. For thin steel tubing and molding. ⅝" x 12" dia. with 1" hole. 2 lbs.

No. 20-846 Saw Blade for non-ferrous metal, 12" dia., ⅝" thick x 1" hole, 100 teeth, for cutting large solids. 2 lbs.

No. 20-847 Saw Blade for non-ferrous metal, 12" dia., ⅝" thick x 1" hole, 150 teeth, best general purpose blade. 3 lbs.

No. 20-848 Saw Blade, same as 20-847 except high speed steel, hard rim. 2 lbs.

No. 20-849 Saw Blade for non-ferrous metal, 12" dia., ⅝" thick x 1" hole, 200 teeth, for cutting thin wall tubing. 2 lbs.

No. 33-197 Saw Blade for wood, 12" dia. x 1" hole, combination type. 1½ lbs.

No. 33-246 Saw Blade for wood, 12" dia. x 1" hole, cross cut type. 2 lbs.

No. 34-842 Saw Blade for wood and plastic, 12" dia. x 1⅝" hole (with bushing to fit 1" arbor), 24 carbide-tipped teeth, combination type. 4 lbs.

No. 20-801 Clamp Fixture. 19 lbs.

No. 20-832 Coolant Attachment, for non-ferrous metal. Includes sight gravity feed oiler, mounting post, coolant line, nozzle and fittings. 3½ lbs.

No. 294 V-belts (matched set of 3), 51⅝" OC, for 6" motor pulley. 1¾ lbs.

No. 289 V-belts (matched set of 3), 46⅝" OC, for 3" motor pulley. 1½ lbs.

No. 41-627 Motor Pulley, 6", 3-belt type, 1⅝" bore with ¼" keyway. 6 lbs.

No. 41-637 Motor Pulley, 3", 3-belt type, 1⅝" bore with ¼" keyway. 3 lbs.

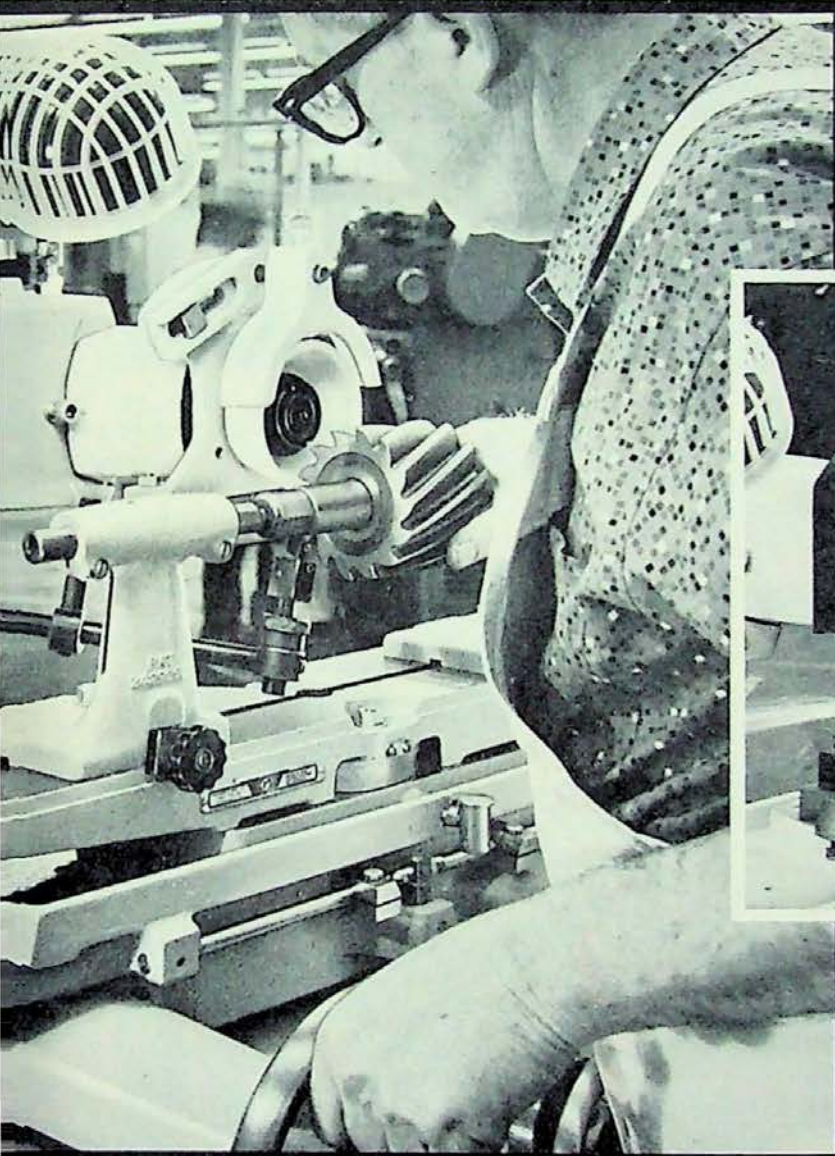
No. 50-399 Legs, steel, one pair, 27½" high. 100 lbs.

No. 50-400 Riser Blocks (two pair required), cast iron, one pair, 2" high, with studs, nuts and lock washers for mounting under legs. 8 lbs.

NOTE: For Dust Collector recommended for all dry abrasive cutting and for coolant Pump for wet cutting, see Section "D".

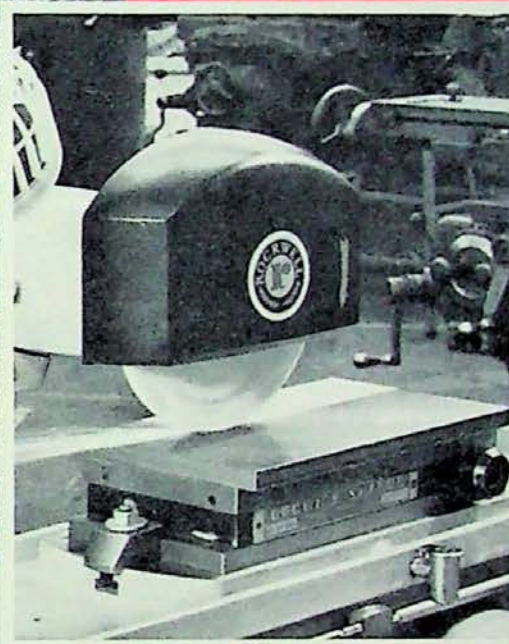
NEW

ROCKWELL DELTA TG-3 TOOLMAKER* GRINDERS



"A Family of 3 Machines!"

Rockwell Delta Single Point Tool Grinder — grinds carbide-tipped, high speed steel or alloy steel single-point cutting tools. Especially recommended for grinding chip breaker grooves.



Rockwell Delta Surface Grinder — produces a 16 micro-inch finish or better to handle practically all surface grinding requirements in the average shop.

Rockwell Delta Tool and Cutter Grinder — an excellent unit for sharpening mills, reamers, saw blades and other multiple-point cutting tools.

Only Rockwell Delta TG-3 TOOLMAKER Grinders offer all these exclusives:

*Trademark

- Widest speed range available—3300, 3700 and 5600 RPM—to handle any grinding job.
- Unique 360° rotation of head and spindle for *correct* tool and cutter grinding.
- Exclusive "Center Mist" Coolant Attachment for cooler, more efficient grinding with longer wheel life.
- Preferred Teflon-lined V and flat ways on table for long life and effortless feed.
- Plus many additional Rockwell engineered extras!

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW ROCKWELL DELTA TG-3 TOOLMAKER GRINDERS

DELTA QUALITY FEATURES ASSURE PRECISION GRINDING AND SHARPENING

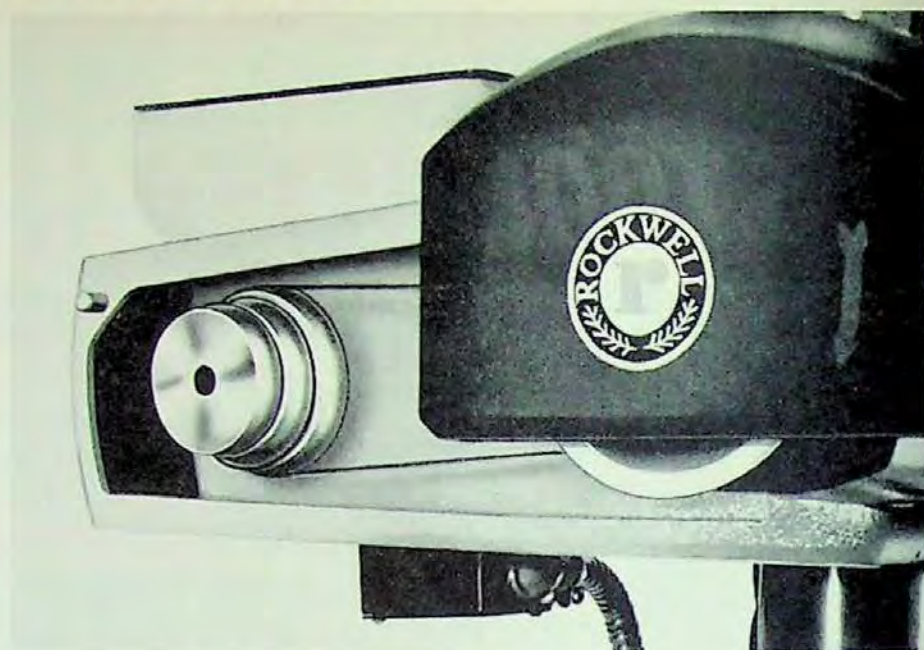


Safety and Convenience Features—Both the elevating and cross feed screws are completely enclosed by a protective sleeve to keep out harmful abrasive dust. The totally enclosed motor is mounted upside down, providing a handy tray for wrenches, indicators and work pieces. Efficient Coolant Attachment provides just the right amount of coolant to keep diamond wheels cool for chip-breaker grinding.



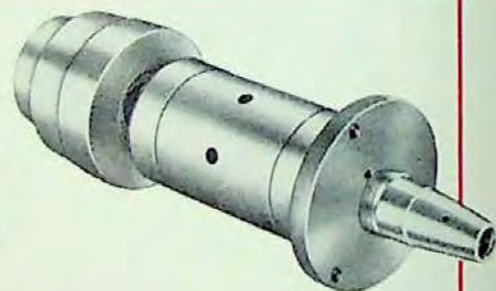
Quick Operating Hand Wheel; Precision Down Feed Control—Large hand wheel facilitates rapid, vertical travel of head for rough settings while Micrometer Down Feed Knob (with no back lash) permits fine settings. Extra large micrometer collar is easy to read, graduated in .0005", and has "slip" feature for zero start reading.

C1



Exclusive Three-Speed Range—Unlike other machines, Rockwell's TG-3 provides matched three-step cone pulleys with a flat belt drive to the spindle. You get these benefits: Three spindle speeds—3300, 3700 and 5600 RPM—the right SFPM for the different diameters of straight, dish and cup wheels. The flat belt drive assures vibration-free spindle operation.

Heavy Duty, Ball Bearing Spindle—The massive spindle, which is carefully ground and balanced, is mounted on preloaded, duplex, precision ball bearings to assure high quality grinding year after year. Sealed bearing construction protects the spindle from abrasive dust and prevents coolant from washing lubricant out of the bearing.

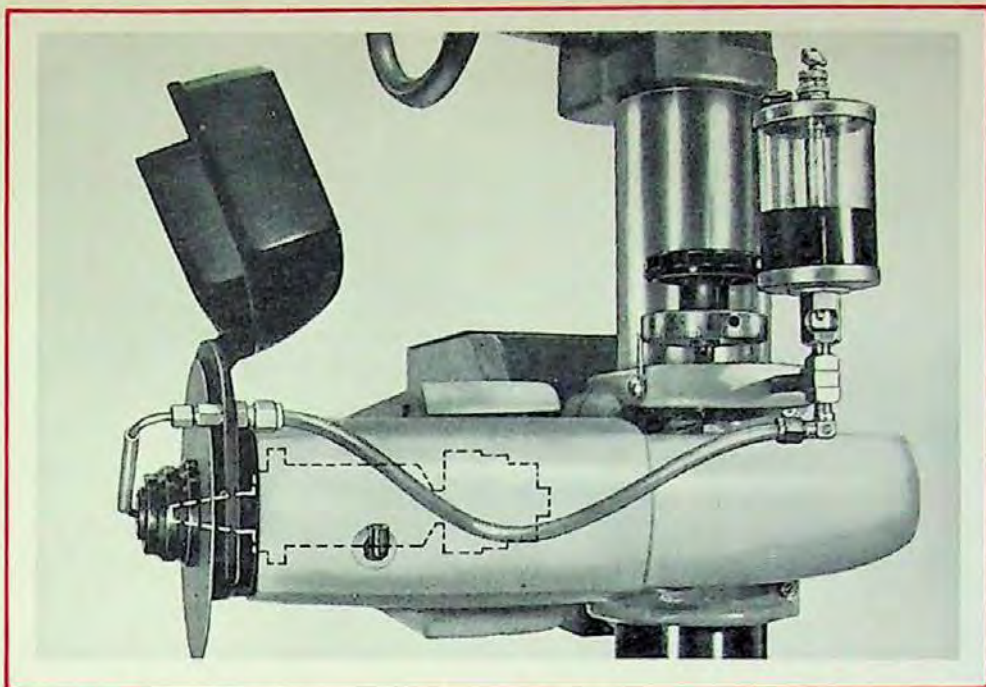


Time and Money-Saving Wheel Adapters—Rockwell makes available interchangeable, taper mounted wheel adapters which fit snugly on the ground, tapered spindle. These adapters save time and money because once a wheel is mounted and dressed, it can be removed, then mounted *without* resetting or redressing—especially important where diamond wheels are used.

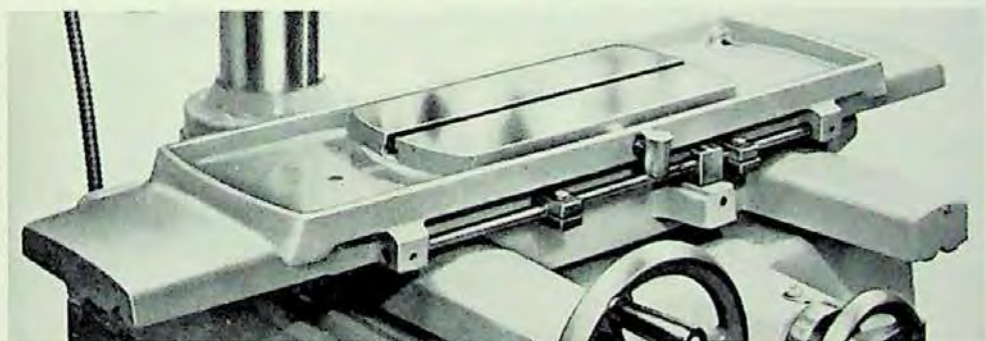


Unique Rotation of Head and Spindle—The TG-3's use of a round column, versus competitive A-frame construction, gives it a versatility and ease of set-up not available with other grinders. This is true because the column, with work head and spindle, can be rotated away from the normal "zero" position as shown by the witness marks. It is easy to provide wheel clearance for tool and cutter grinding, and the work head can even be rotated a full 360° for special jobs.

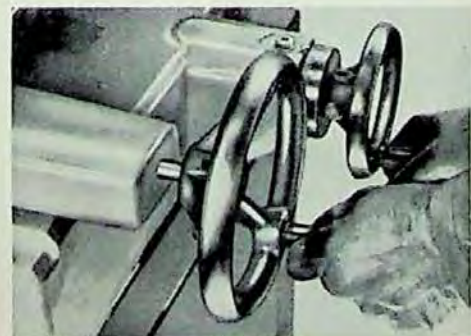
NEW ROCKWELL DELTA TG-3 TOOLMAKER GRINDERS



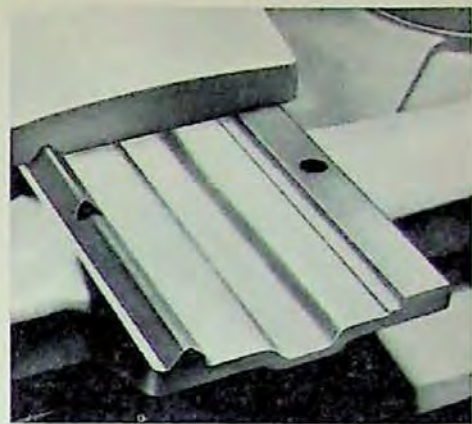
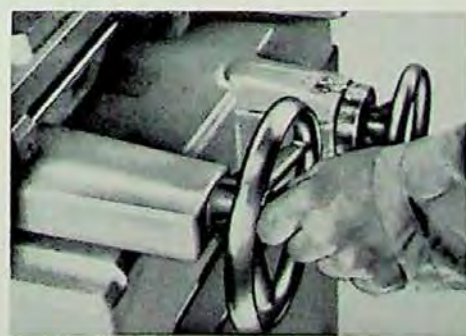
Unique "Center Mist" Coolant—Only Rockwell's TG-3 offers a "center mist" coolant attachment developed especially for chip-breaker grinding with diamond wheels. It improves surface grinding quality, too. Coolant drips from reservoir through tube and enters hollow spindle. Then, it flows out through two staggered port holes, 180° apart. Wheel flanges, recessed in the center with grooves extending to the outer rims, carry the coolant down both sides as well as through the porous wheel. The fan action of the wheel breaks the coolant down into a fine mist which cools the work *exactly at the point of grinding*, much better than coolants sprayed or flooded onto the general grinding area.



Many-Purpose Table—Has a 5 $\frac{3}{4}$ " x 13" surface, finish ground by its own spindle to within 16 microinches. Designed with T-slot to facilitate clamping of work or the mounting of work-holding fixtures. Coolant trough permits wet or dry grinding (side and end shields can easily be added for wet grinding). Adjustable, spring-loaded stops act as cushion . . . are especially suited for tool and cutter grinding.



Multi-Position Handle—You can select the most comfortable position of the handle on the table feed hand wheel, in a matter of seconds. Just pull out the handle, set it where you want it, and let it snap back into engagement. This is especially important when the operator is grinding small pieces and must continually "short stroke" the table. Large micrometer sleeve on cross feed is easy to read and has "zero" start feature.



Smooth Operating Table and Cross Slide—Table and cross slide have precision ground V and flat ways (no troublesome gibs to adjust). Ways are Teflon-lined, practically eliminating wear and providing smooth, effortless table feed.

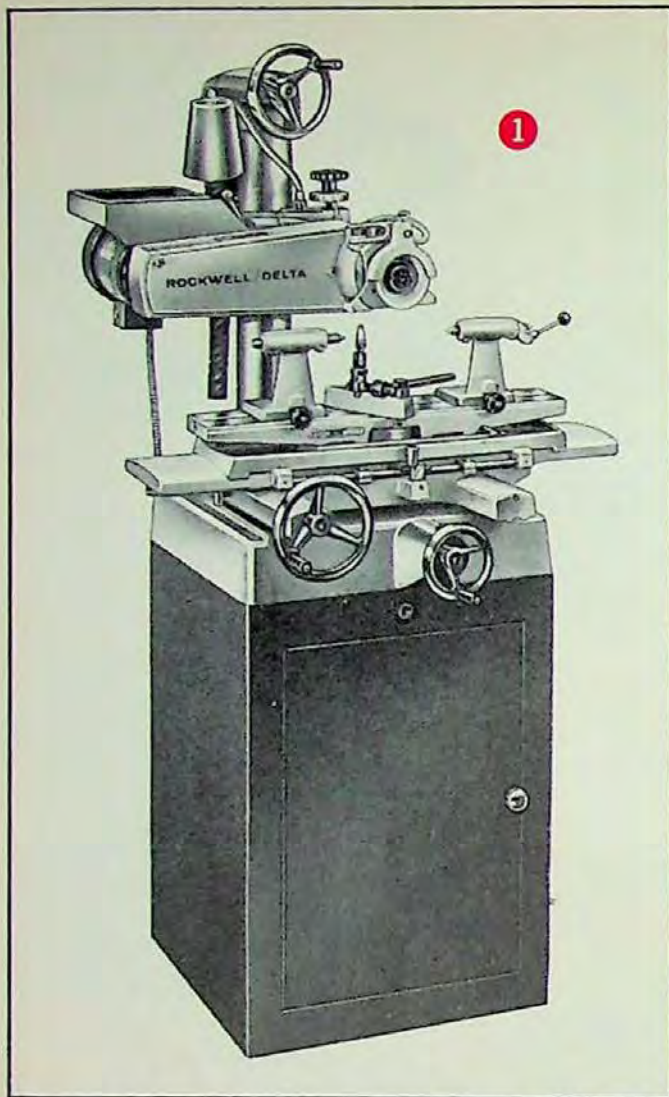


Specially Designed Base—Massive, scientifically ribbed base provides extra rigid support for the $\frac{3}{4}$ " thick cast iron column and grinding head. Built-in leveling jacks at rear corners (not shown) guarantee proper alignment for precision grinding.



Large, Deluxe Cabinet Base—The TG-3 rests on a heavy, rigidly reinforced steel base. Vibration pads, furnished for placement under each corner, isolate the grinder, protecting it from floor vibrations caused by trucks, elevators, punch presses and similar machinery. This assures smooth grinder performance. Two large shelves provide ample storage room. Large door has a cam type, rattle-proof latch.

NEW ROCKWELL DELTA TG-3 TOOLMAKER GRINDERS



1

No. 24-151 TG-3 TOOLMAKER® Tool and Cutter Grinder shown with Accessory 25-857 Lamp Attachment and Electricals.

- 1 A Tool and Cutter Grinding Machine
- 2 A Surface Grinding Machine
- 3 A Single Point Tool Grinding Machine

Only Rockwell offers you a complete line of three individual grinding machines ... each suited to meet your particular grinding requirements.

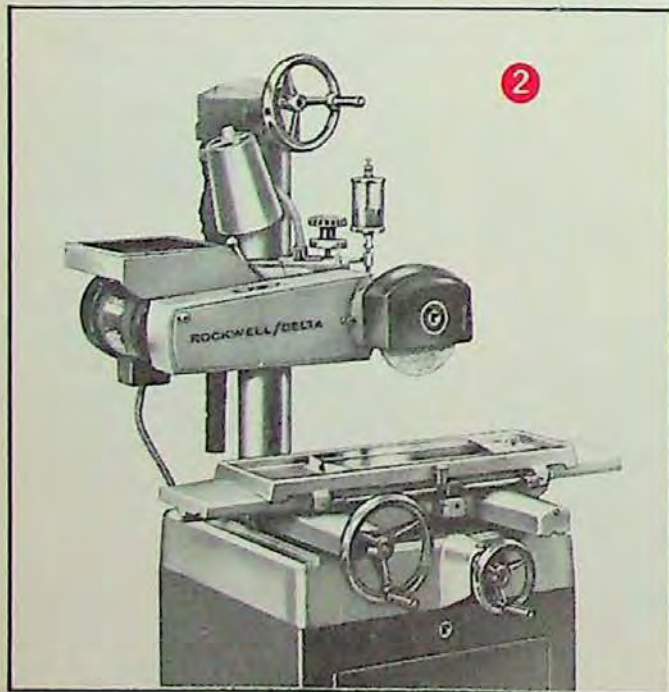
The TOOLMAKER Surface Grinder, for example, is an excellent machine for the small shop while larger, high production plants find it ideal as a secondary unit to relieve bottlenecks or to use when larger grinding equipment is tied up.

The TOOLMAKER Tool and Cutter Grinder, which consists of the TG-3 Surface Grinder and Tool and Cutter Grinding parts, efficiently sharpens all types of mills, reamers, taps, saw blades and other multiple-point cutting tools. It does this right in your plant to reduce operating costs.

The TOOLMAKER Single Point Tool Grinder, which consists of the TG-3 Surface Grinder with the Univise and "Center Mist" Coolant Attachment, capably precision grinds the chip-breaker groove in carbide-tipped and other tool bits. It will do this without delay to keep production moving.

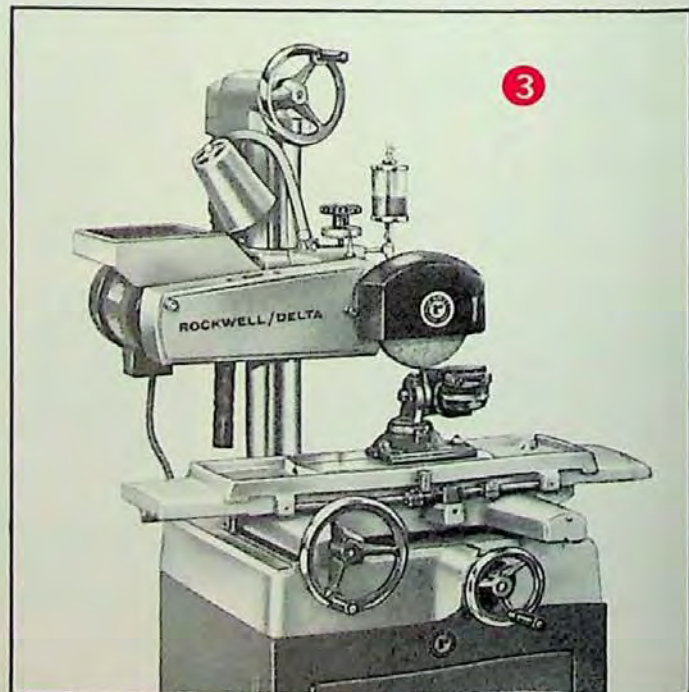
Many machines are available which perform only one function—surface grinding, tool and cutter sharpening or the grinding of chip-breaker grooves. Only Rockwell offers you three individual machines, tailored to handle your specific grinding needs. If you prefer, you can purchase the TG-3 TOOLMAKER Surface Grinder only, plus the various accessories, and do all three types of grinding on this one machine. You can do this at less cost than on comparable single-purpose machines.

Let us PERFORMANCE-PROVE a TG-3 TOOLMAKER Grinder for you today!



2

No. 24-150 TG-3 TOOLMAKER® Surface Grinder shown with Accessory 25-857 Lamp Attachment, 24-823 Coolant Attachment and Electricals.



3

No. 24-152 TG-3 TOOLMAKER® Single Point Tool Grinder shown with Accessory 25-857 Lamp Attachment and Electricals.

*Trademark

C1

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW ROCKWELL DELTA TG-3 TOOLMAKER GRINDERS

CATALOG LISTING

*BASIC MACHINES (Less Motor and Control—See Below)

No. 24-150 TOOLMAKER Surface Grinding Machine on cabinet, less electricals. Includes motor pulley ($\frac{5}{8}$ " bore), flat belt, guard for belt and pulleys, guard for straight wheel, wheel adapter, holder for diamond wheel dresser, $\frac{1}{2}$ pint oil for spindle bearings, wrenches and instruction manual. 800 lbs.

No. 24-151 TOOLMAKER Tool and Cutter Grinding Machine. Consists of 24-150 Basic Surface Grinder on cabinet with 24-822 Tool and Cutter Grinding components. Components are partially mounted. 882 lbs.

No. 24-152 TOOLMAKER Single Point Tool Grinding Machine. Consists of 24-150 Basic Surface Grinder on Cabinet with

24-823 Coolant Attachment, mounted and ready to use, and 24-902 Univise. 819 lbs.

*NOTE: Shipped only with specially balanced motor and motor control which are factory mounted, wired and tested.

STANDARD EQUIPMENT

All Toolmaker grinders include storage type cabinet with shelves and door, four anti-vibration pads, motor pulley ($\frac{5}{8}$ " bore), flat belt, guard for belt and pulleys, guard for straight 7" wheel, wheel adapter, holder for diamond wheel dresser, oil for spindle bearings, wrenches, T-bolts (2) and instruction manual. No. 24-822 Tool and Cutter Grinding Attachment is included with No. 24-151 Tool and Cutter Grinding Machine. No. 24-823 Coolant Attachment and No. 24-902 Univise are included with No. 24-152 Single Point Tool Grinding Machine.

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES & MOTOR RPM	VOLTAGE	SHIP. WT. (LBS.)	CATALOG NUMBER
Single Phase, $\frac{1}{2}$ Horsepower	Push Button Switch Only	Totally Enclosed	60—3450	115/230	32	49-752
	Push Button Switch and Magnetic Starter	Totally Enclosed	60—3450	115/230	37	49-753
Three Phase, $\frac{1}{2}$ Horsepower	Push Button Switch Only	Totally Enclosed	60—3450	230/460	32	49-754
	Push Button and Overload Switches	Totally Enclosed	60—3450	230/460	37	49-755
	Push Button Switch and Magnetic Starter	Totally Enclosed	60—3450	230/460	39	49-756
	Push Button Switch and Magnetic Starter (w/115V Transformer)	Totally Enclosed	60—3450	230/460	41	49-757

NOTE: Single Phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for

230 V, unless 208 V or 460 V is specified. Power Cord and Plug supplied for single phase only.

MACHINE DATA

Table

Ground Work Surface $5\frac{3}{4}$ " x 13"
 T-Slot (One) $\frac{7}{16}$ "
 Longitudinal Travel (Rack and Pinion) $13\frac{1}{2}$ "
 Ways (Teflon Lined) One Flat and One V
 Height from Floor 40"

Cross Slide

Transverse Travel (Covered Lead Screw) 7"
 Micrometer Collar Each Rev. .100";
 Each Grad. .001"
 Ways One Flat and One V

Head (On 4" Column with Key and Gib)

Vertical Travel (Covered Lead Screw) 15"
 Down Feed (Zero-Backlash Lead Screw) $\frac{5}{8}$ "
 Micrometer Collar Each Rev. .050";
 Each Grad. .0005"
 Rotation 360°

Capacities

Surface Grinds 6 x 13", With 13" Under 7" Wheel
 Max. Dia. Cutter Sharpens
 Between *Centers With Cup Wheel 8";
 With Dish Wheel 10"
 With *Tool and Cutter Attach. and *Unihead 16"
 Takes Magnetic Chuck 5 x 10" or 6 x 12"

Spindle

Ball Bearings Oil Bath, Preloaded, Angular Contact
 Wheel Adapter (Mounts on Spindle Nose Taper)
 Takes Wheels With Hole $1\frac{1}{4}$ "
 Has Flanges for
 Straight Wheel $7 \times \frac{1}{2}$ "
 Cup Wheel $4 \times 1\frac{1}{2}$ "
 Dish Wheel $6 \times \frac{1}{2} \times \frac{5}{16}$ "
 Speeds (With 3450 RPM Motor) . . . 3300, 3700 and 5600 RPM

Motor $\frac{1}{2}$ HP, 3450 RPM, Special Balance,
 Delta No. 6 Frame, Totally Enclosed

Overall Dimensions

Height67"
 Width (Table in Center Position)34"
 Front to Rear $36\frac{1}{2}$ "

Cabinet Base Dimensions

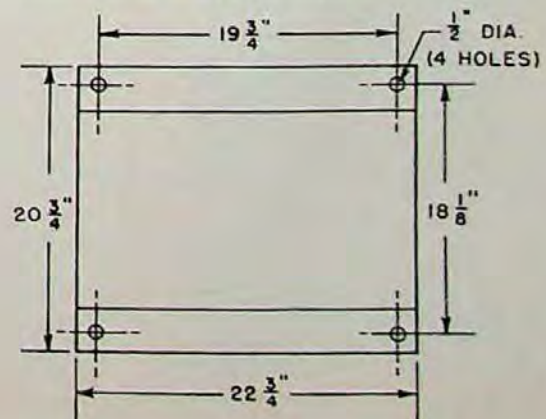
Width $22\frac{3}{4}$ "
 Front to Rear $20\frac{1}{2}$ "

Shipping Weight With Electricals

(Approx.) 800 lbs.

*Accessory Item

LOCATION OF FLOOR MOUNTING HOLES



ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

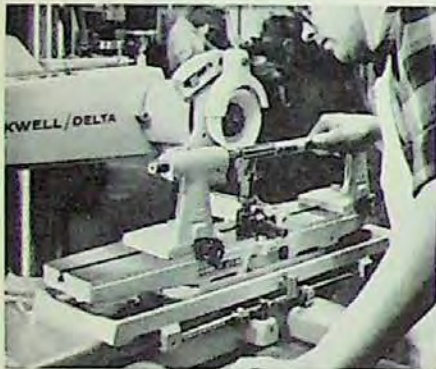
NEW ROCKWELL DELTA TG·3 TOOLMAKER GRINDERS

**YOU CAN DO ALL THESE OPERATIONS
WITH ROCKWELL DELTA TG·3 TOOLMAKER GRINDERS:**

TOOL AND CUTTER GRINDING



Grinding a spiral milling cutter.



Grinding a reamer.



Sharpening a 16" carbide-tipped saw blade using the 24-955 Unihead.



Grinding an angular cutter using the 24-955 Unihead.

SURFACE GRINDING



Grinding a precision surface on flat stock (magnetic chuck not sold by Rockwell).



Applying a perfectly true, smooth finish to a part (magnetic chuck not supplied by Rockwell).

SINGLE POINT TOOL GRINDING



Using a diamond wheel to grind the chip-breaker groove on a tool bit using the 24-902 Univise.



Grinding a new cutting edge on a carbide-tipped tool bit using the 24-902 Univise.

Practically every conceivable grinding or sharpening operation can be accomplished with Rockwell Delta TG·3 TOOLMAKER Grinders. Why? Because Rockwell offers you a selection of *three* individual machines, designed specifically for tool and cutter grinding, surface grinding or chip-breaker grinding. These machines come equipped with specially designed and patented work holding devices—Tool and Cutter Grinding Attachment, Unihead and Univise—that are unmatched in flexibility and versatility. You can set them at any angle or position to handle practically any grinding or sharpening job. And there are dozens of other cost-saving accessories, too.

Add up all of these benefits and you will agree that Rockwell Delta TG·3 TOOLMAKER Grinders deserve a place in your operation.

NEW ROCKWELL DELTA TG-3 TOOLMAKER GRINDERS

MOTOR AND BELT REPLACEMENT PARTS

No. 24-800 consists of ½ HP, 115/230 V, single phase motor; motor pulley and 49-085 Belt, balanced together for field installation.

No. 24-803 consists of ½ HP, 230/460 V, three phase motor; motor pulley and 49-085 Belt, balanced together for field installation.

No. 24-802. Same as 24-801 except 575 V.

No. 49-085 Flat Belt, ¾" wide, 35" OC.

DELTA QUALITY ACCESSORIES THAT MAKE TG-3 TOOLMAKER GRINDERS UNMATCHED IN VERSATILITY

No. 24-807 Wheel, 7 x ½", aluminum oxide, 1¼" hole, for soft material, balanced to within 1/8-ounce inch. 2 lbs.

No. 24-808 Wheel, 7 x ½", aluminum oxide, 1¼" hole, for hard material, balanced to within 1/8-ounce inch. 2 lbs.

No. 24-973 Standard Dish Wheel, Type 12, 6 x ½ x ⅝", aluminum oxide, 1¼" hole. 5 lbs.

No. 24-974 Standard Cup Wheel, Type 11, 4 x 1½", aluminum oxide, 1¼" hole. 5 lbs.

No. 24-820 Adapter for wheels with 1¼" hole. Has 2½" flange for straight wheels, 4 x 1½" type 11 cup wheels and 6 x ½ x ⅝" type 12 dish wheels, plus a 2⅞" flange for 3½ x 1½" cup wheels. Same as adapter supplied with 24-150 Surface Grinder, except has holes and slots needed for use with 24-823 Coolant Attachment. Order extra adapters for each kind of wheel to be used to obviate centering or dressing wheel each time it is mounted on spindle. 2 lbs.

No. 24-805 Diamond-pointed Wheel Dresser, with ⅞ x 2" body. ½ lb.



No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.

No. 24-812 Spindle and Way Oil, Velocite-E. ½ pt. can.

No. 24-819 Attachment Package for Dust Collector. 19 lbs. See Section D1 for complete information.

NOTE: See Section D1 for Dust Collectors recommended for Toolmaker Grinders.

THE UNIHEAD® WITH INDEXING FEATURE IS UNIVERSALLY ADJUSTABLE WORK HEAD

The Unihead is a universally adjustable work head designed for use with the Toolmaker Cutter Grinder and other makes of machines, especially if the No. 24-970 Tooth Stop Unit is used with it.

Unit consists of a heat treated sleeve arranged with a No. 9 Brown & Sharpe taper accurately mounted in lubricated-for-life ball bearings. The adjustable index stop collar and dog can be disengaged or set in any position that is convenient to the operator. It is equipped with a 12-tooth index collar with selector plate which permits the dog to engage automatically either 2, 3, 4, 6 or 12 selected equal spaces. Other plain collars (without selector plate) are available as listed.

Has a push-out nut arranged at the back of the sleeve for pushing out tightly fitted adapters. Swivel bracket with 360 graduations. Base with removable keys that engage the table. Can also be used with Tool and Cutter Grinding Attachment 24-822.

NO. 24-955



No. 24-955 Unihead arranged with sealed-for-life ball bearings and sleeve for No. 9 B & S taper. With one 12-tooth collar with selector plate to engage 2, 3, 4, 6 or 12 selected equal spaces. 27 lbs.

No. 24-970 tooth stop unit not furnished. Indexing collars listed below cover a varied range of combination spacing and should be ordered separately as required.

INDEXING COLLARS

No. 24-957 Plain, 36-tooth, for 2, 3, 4, 6, 9, 12, 18 and 36 equal spaces. ¾ lb.

No. 24-958 Plain, 34-tooth, for 17 and 34 equal spaces. ¾ lb.

No. 24-959 Plain, 33-tooth, for 3, 11 and 33 equal spaces. ¾ lb.

No. 24-960 Plain, 32-tooth, for 2, 4, 8, 16 and 32 equal spaces. ¾ lb.

No. 24-961 Plain, 30-tooth, for 3, 5, 6, 10, 15 and 30 equal spaces. ¾ lb.

No. 24-962 Plain, 28-tooth, for 4, 7, 14 and 28 equal spaces. ¾ lb.

No. 24-963 Plain, 26-tooth, for 13 and 26 equal spaces. ¾ lb.

No. 24-964 Plain, 24-tooth, for 2, 3, 4, 6, 8, 12 and 24 equal spaces. ¾ lb.

No. 24-965 Collar, blank. ¾ lb.

ADAPTERS

No. 24-967 Adapter for Unihead with No. 9 B & S outside taper arranged with 1"-8 R.H. threaded end to receive 6" Face Plate (No. 937). 1¼ lbs.

No. 24-968 Adapter for Unihead with No. 9 B & S outside taper arranged with No. 33 Jacobs taper to receive drill chucks. 1¼ lbs.

TOOTH STOP UNIT

The Unihead uses the same tooth stop unit regularly furnished with the Tool and Cutter Grinder Attachment (No. 24-822). If the Unihead is to be used on another make of machine, it may be advisable to obtain the No. 24-970 Tooth Stop Unit.



NO. 24-970

No. 24-970 Tooth Stop Unit consisting of 1 bracket, 2 bars, 1 clamp and tooth stop with 2 fingers (included with No. 24-822 Grinder Attachment). 5 lbs.

THE UNIVISE® FIRST TRULY UNIVERSAL VISE FOR GRINDING, DRILLING AND MILLING

NO. 24-902



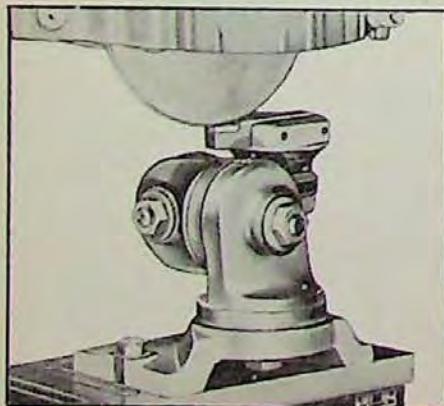
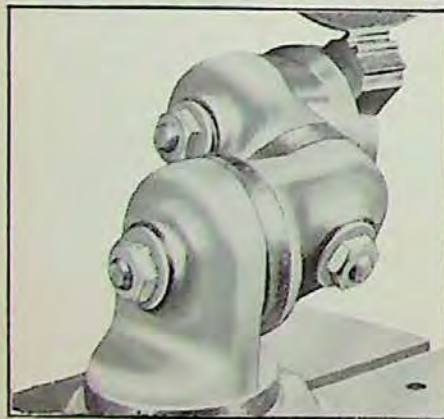
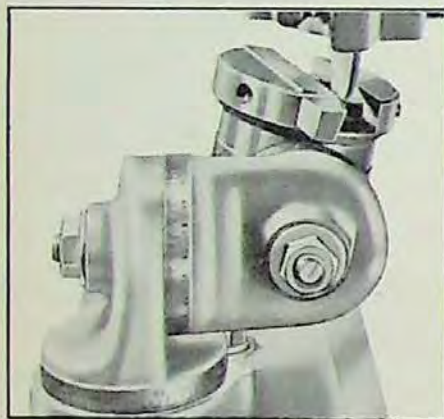
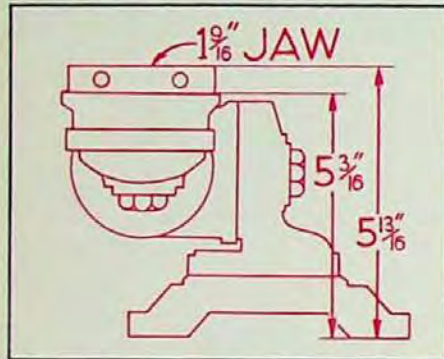
The Univise is a heavy, rigid, massive vise completely universal so that it can be set at ANY angle desired. It is composed of four separate parts, each of which can be rotated and independently set so that there are four separate distinct planes of adjustment. This means that ANY angle desired can be easily and readily obtained. It means, also, that for duplicate grinding the vise can be returned EXACTLY to its original setting. Each part has a circular scale of 360 degrees. Each station is

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

NEW ROCKWELL DELTA TG-3 TOOLMAKER GRINDERS

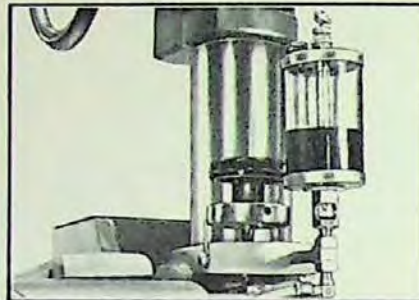
marked so that by making a record of the setting of each scale it is impossible to make an error. Thus, settings can be made direct from the blueprint without fuss or bother. Two of the parts rotate a full 360 degrees. It is $5\frac{13}{16}$ " high, 6" wide and $7\frac{1}{4}$ " long. Jaws take up to $1\frac{1}{2}$ " tools. Fits any surface or tool grinder. Has detachable keys in base which can be removed to permit use on a drill press or other machine without table slots, or on a magnetic chuck.

No. 24-902 Univise, complete. 16 lbs.



"CENTER MIST" COOLANT ATTACHMENT

With instructions for field mounting on any TG-3 Grinder. Supplied as standard equipment on 24-152 TOOLMAKER Single Point Tool Grinder.

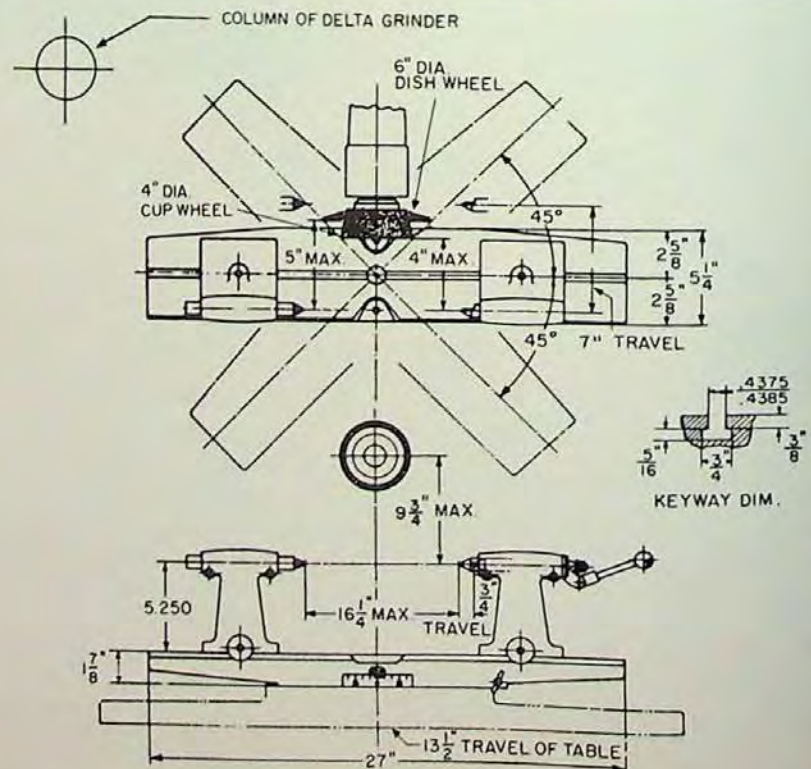
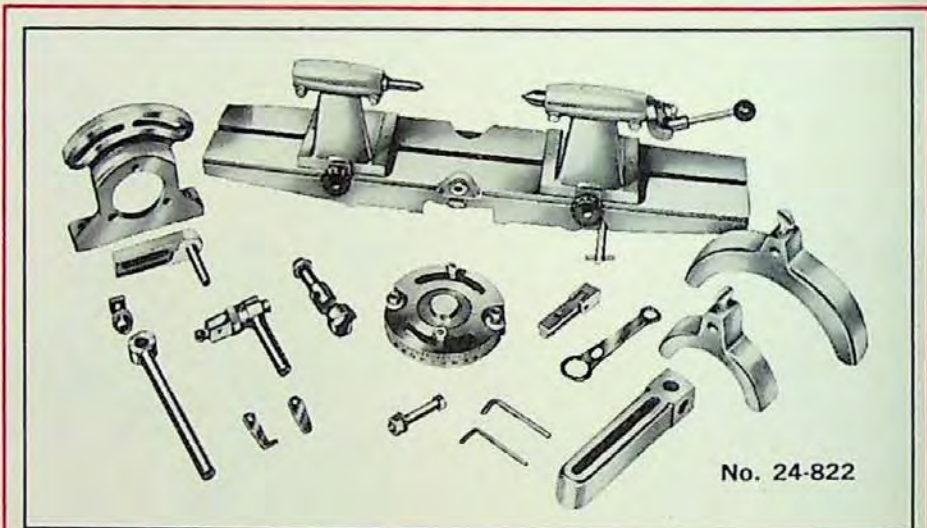


No. 24-823 Coolant Attachment complete with sight gravity feed oiler, coolant line, fittings, 24-820 Wheel Adapter with holes and slots for coolant, and instructions. 5 lbs.

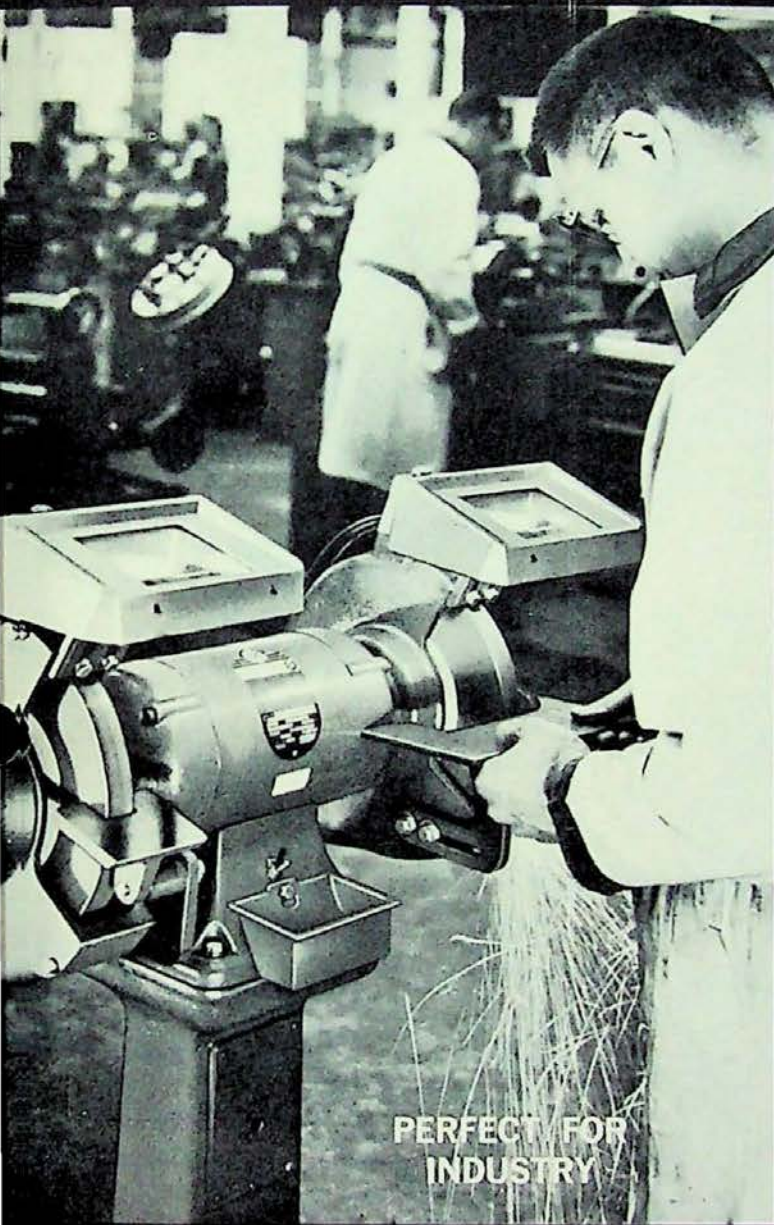
GRINDER ATTACHMENT CONVERTS STANDARD SURFACE GRINDER TO A TOOL AND CUTTER GRINDER

The Tool and Cutter Grinding Attachment is designed and engineered to permit conversion of the basic Toolmaker Surface Grinder for tool and cutter grinding work. This complete attachment, when added to the basic Toolmaker Surface Grinder, provides the workholding features for sharpening many types of small tools and cutters.

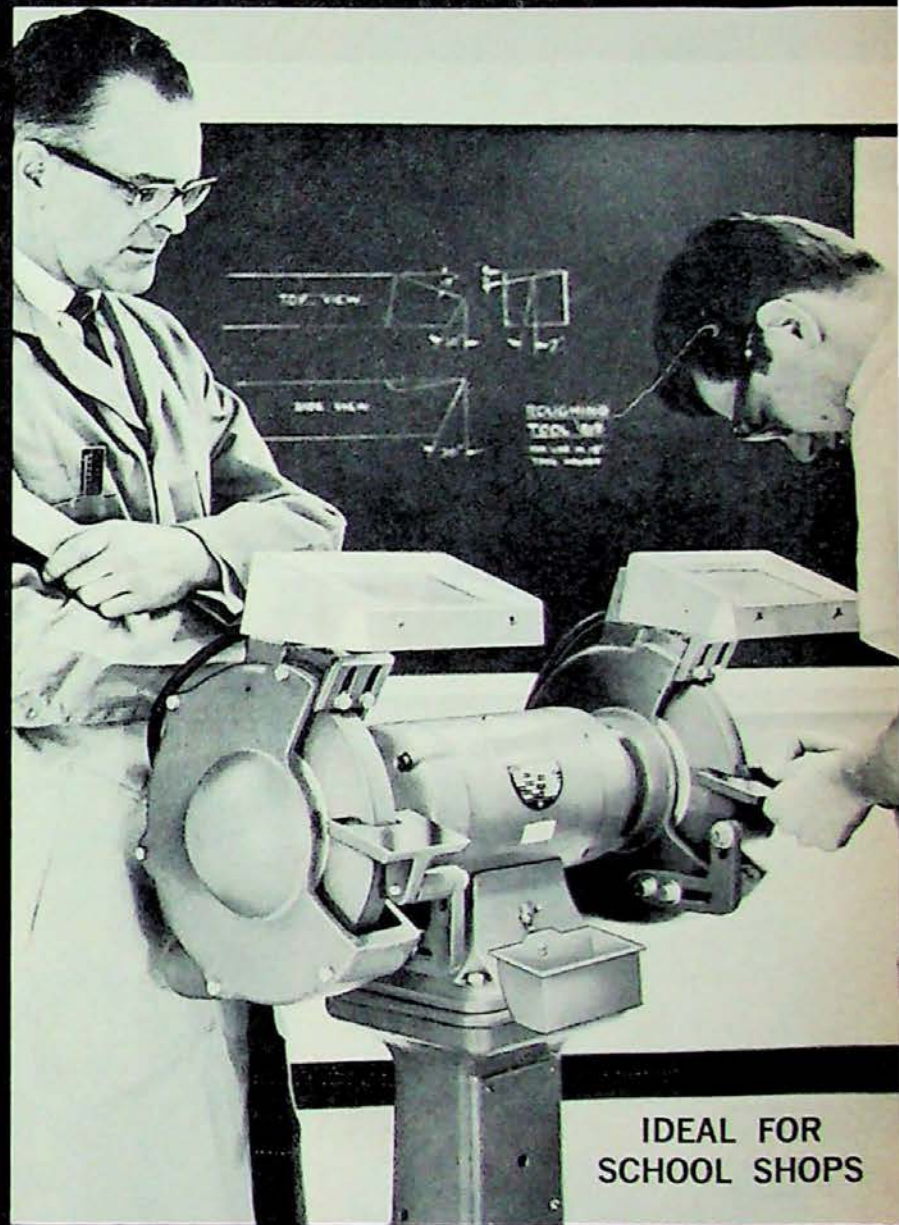
No. 24-822 Toolmaker Tool and Cutter Grinding Attachment consisting of swivel table with head and tail stocks and No. 24-970 tooth stop unit, 2 wheel guards and support bracket. Standard on 24-151 Grinder. Can be added to 24-150 and 24-152 Toolmaker Grinders. 82 lbs.



ROCKWELL DELTA 1 HP 10" GRINDER



PERFECT FOR
INDUSTRY



IDEAL FOR
SCHOOL SHOPS

Here's a grinder that is a TOP PERFORMER in any league. Why? Because only the Rockwell Delta 10" Grinder offers

- A dual voltage, "thin-line" motor that provides a FULL 2" CLEARANCE BETWEEN WHEELS AND MOTOR.

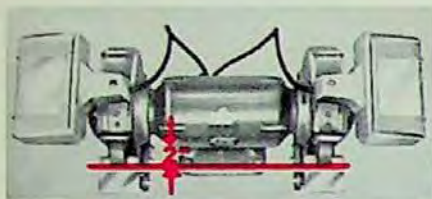
- Fully adjustable tool rests that assure EXTRA VERSATILITY TO HANDLE MANY JOBS.

- An extra safe design that COMPLIES WITH ALL SAFETY CODES.

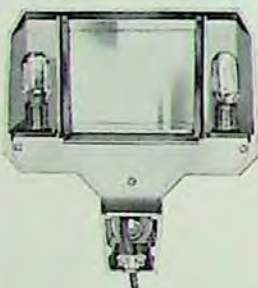
- Rugged, heavy duty construction for YEARS OF LONG, TROUBLE-FREE SERVICE.

ROCKWELL DELTA 1 HP 10" GRINDER

**DELTA
QUALITY FEATURES
THAT ASSURE LONG,
TROUBLE-FREE
GRINDER PERFORMANCE**



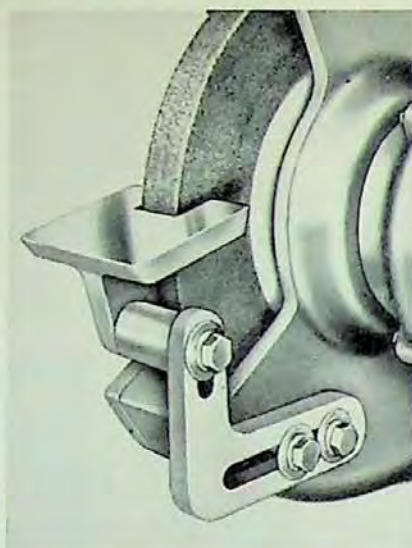
Modern "Thin-Line" Motor: Heavy duty, dual voltage motor is slim in design, providing a full 2" space between wheels and motor, ample clearance for grinding odd-shaped items and long stock. Totally enclosed motor has double sealed ball bearings to keep out harmful abrasive dust. Twin-Lite® Safety Shields may be easily swung out of the way, yet are instantly available when required.



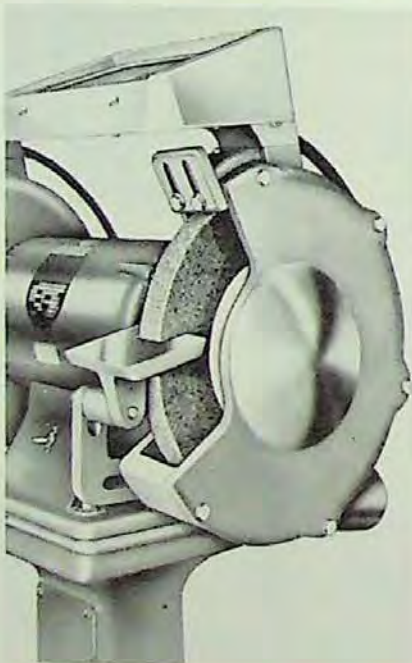
Famous Twin-Lite® Safety Shields: Designed to operate independently of the shop lighting system, they have no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.



Handy Water Pot: Included as standard equipment is the conveniently located water pot. Centrally positioned at the front of the base, it is immediately accessible to the operator, who need not change his position, whether he is using the right- or left-hand grinding wheel.



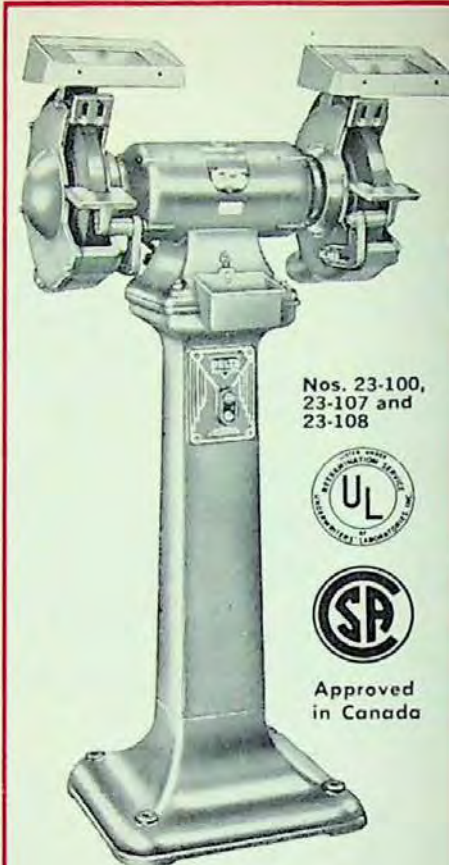
Many-Purpose Tool Rests: Fully machined tool rests adjust both horizontally and vertically and tilt for exact grinding angle desired. They lock rigidly in place, yet may be quickly removed for accessory attachments. Note wrap-around ledges that permit grinding on sides as well as face of wheel.



Excellent Safety Features: This new Delta grinder, which complies with all safety codes, is unmatched for safety in design. Shatterproof glass in eye-shields, heavy cast iron guards with integral dust chutes, removable extra thick side plates and adjustable spark deflectors provide for maximum operator safety.

DELTA QUALITY GRINDER EXTRAS

- Motors are dual voltage, re-connectable type.
- Single phase motor is preferred capacitor-start type.

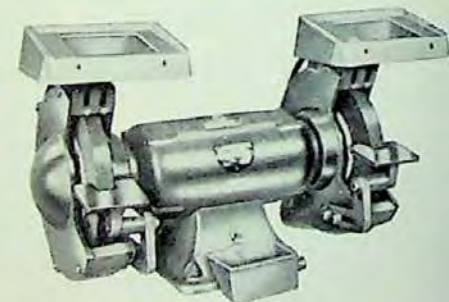


Nos. 23-100,
23-107 and
23-108



Approved
in Canada

1 H.P. 10" Grinder
shown with
accessory
Twin-Lite®
Safety Shields and Pedestal.



1 H.P. 10" Grinder
shown with accessory
Twin-Lite® Safety Shields.

Tool rooms, experimental departments, foundries, garages and schools are just a few of the many users who appreciate the new Rockwell Delta 10" Grinder. Why? Because it will capably handle all grinder operations—stock removal . . . snagging . . . sharpening of tool bits . . . shaping of special parts . . . cleaning of rust and scale . . . and dozens of additional jobs.

Here's why! This new 10" Grinder incorporates all the right features for quick, easy, efficient operation, year after year.

Only Delta gives you Twin-Lite® Safety Shields, a modern "thin-line" motor, fully adjustable tool rests, plus heavy duty construction throughout.

ROCKWELL DELTA 1 HP 10" GRINDER

MACHINE DATA

Motor:

Horsepower 1
 RPM 1725
 Shaft: Diameter $\frac{3}{4}$ "
 Extends beyond Wheel Flange. $2\frac{1}{2}$ "
All Motors, Except 208 V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor Start Type.

Wheels:

Size 10" Diameter, 1" Face, $\frac{3}{4}$ " Hole
 Balance $\frac{1}{8}$ -ounce inch
 Distance Between Centers 18"

Wheel Flanges, Diameter:

Inner $3\frac{9}{16}$ "
 Outer $3\frac{1}{2}$ "

Dimensions, Overall, Bench Type:

Height (Without Twin-Lites) $12\frac{1}{4}$ "
 Width 24"
 Front to Back 13"
 Base:

Overall Space on Bench. $8\frac{1}{2}$ " x $8\frac{1}{2}$ "
 Centers of Mounting
 Holes $6\frac{3}{4}$ " x $6\frac{3}{4}$ "

Dimensions, Overall, Pedestal Type:

Height (Without Twin-Lites) 46"
 Width 24"
 Front to Back 13"
 Base:

Overall Space on Floor: Width. 16"
 Front to Back 14"
 Centers of Floor Mounting Holes:
 Left to Right 12"
 Front to Back 10"

STANDARD EQUIPMENT

Grinders are furnished with two wheels balanced to $\frac{1}{8}$ -ounce inch, wheel guards, spark deflectors, tool rests and water pot. Single phase models are wired for 230V operation and include two-pole on-and-off toggle switch and 8-foot power cable with 230V grounding type tandem blade plug. Three phase models include 16" motor leads for power connections. **Twin-Lite® Safety Shields** and bulbs must be ordered separately.

DELTA QUALITY GRINDER ACCESSORIES PROVIDE INCREASED JOB PERFORMANCE

No. 23-817 Aluminum Oxide Wheel, 1"x10", 24 G, P grade, $\frac{3}{4}$ " hole, balanced to $\frac{1}{8}$ -ounce inch. 10 lbs.



No. 23-818 Aluminum Oxide Wheel, 1"x10", 46 G, M grade, $\frac{3}{4}$ " hole, balanced to $\frac{1}{8}$ -ounce inch. 10 lbs.

CATALOG LISTING

NO.	TYPE	MOTOR — 1 HP	SPEED RPM	MOTOR SWITCH	SHIPPING WEIGHT
23-100	Bench	115/230V, 60 cycle, Single Phase	1725	Toggle	130
*23-107	Bench	230/460V, 60 cycle, 3 Phase	1725	None	129
*23-108	Bench	208V, 60 cycle, 3 Phase	1725	None	129
*23-103	Bench	575V, 60 cycle, 3 Phase	1725	None	129
23-127	Pedestal	115/230V, 60 cycle, Single Phase	1725	Toggle	197
‡23-133	Pedestal	230/460V, 60 cycle, 3 Phase	1725	Starter	201
‡23-134	Pedestal	230/460V, 60 cycle, 3 Phase	1725	Starter	201
‡23-135	Pedestal	208V, 60 cycle, 3 Phase	1725	Starter	201

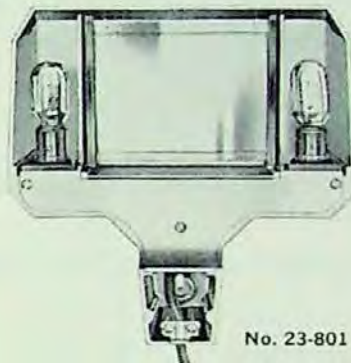
*Use No. 49-671 Push Button Switch or 49-838 Manual Starter or 49-665 Magnetic Starter. Integral Push Button Switch 49-842 or Remote Control Push Button Switch 49-672 is required with the magnetic starter. Specify grinder catalog number and voltage when ordering.

‡Manual Push Button Starter is shipped mounted in pedestal, with proper thermal elements for motor overload protection.

†With thermal elements for 230V operation.

‡With thermal elements for 460V operation.

xWith thermal elements for 208 V operation.

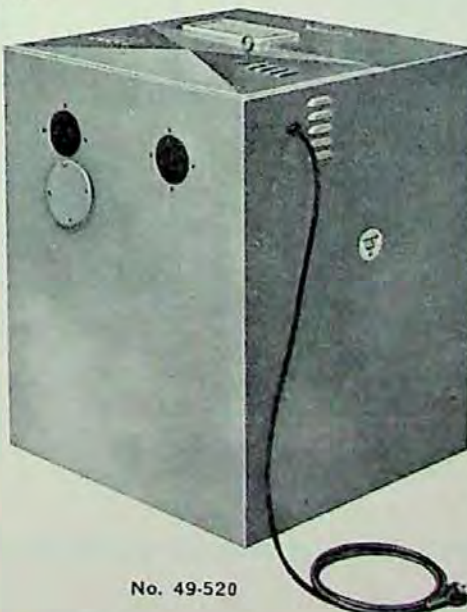


No. 23-801

No. 23-801 Twin-Lite® Safety Shield (two required), with mounting block and $\frac{1}{2}$ " box connector. Without bulbs. (Order one No. 49-330 Switch when Twin-Lites® are to be used on a three phase grinder.) 6 lbs.

No. 1280 Appliance Type Bulb, clear glass, 25 watt, 115-125V, with double contact bayonet ("plug-in") base. Four required. $\frac{1}{4}$ lb.

No. 23-805 Pedestal. Used to convert 10" Bench Grinder to pedestal type. 67 lbs.



No. 49-520

No. 49-520 Dust Collector for single phase operation, $\frac{1}{8}$ HP, 115/230V, 60 cy, 3450 rpm. Includes on-and-off switch, switch rod, 115V 8-foot cord and 3-prong grounding type plug, mounted and wired. 120 lbs.

No. 49-527 Motor Driven Dust Collector for three phase operation, $\frac{1}{8}$ HP, 230/460 V, 60 cy, 3450 rpm. Includes 3-pole on-and-off switch, switch rod and 8-foot 4-conductor grounding type cord, wired to switch for 230 V. Less plug. 120 lbs.

No. 49-529 Extra Standard Filter for dust collector. 8 lbs.

No. 49-531 Holder with two expanded fiber filter pads for dust collector. Recommended for fine dust. 7 lbs.

No. 23-802 Attachment Package for dust collectors. 8 lbs.



No. 1294 Edge Tool Grinding Attachment. For sharpening plane irons, wood chisels, etc., up to $3\frac{1}{4}$ " wide. See Page 3, Section C3 for complete description. 6 lbs.



No. 1664 Wheel Dresser Holder. Used with No. 3121 Wheel Dresser. 1 lb.

No. 3121 Diamond Pointed Wheel Dresser. Should be used with No. 1664 Holder. 1 lb.

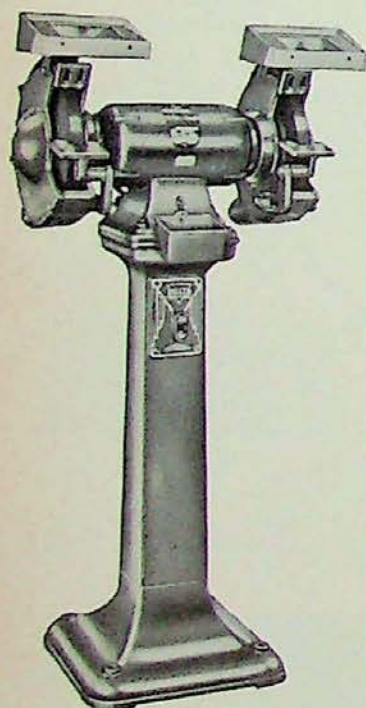
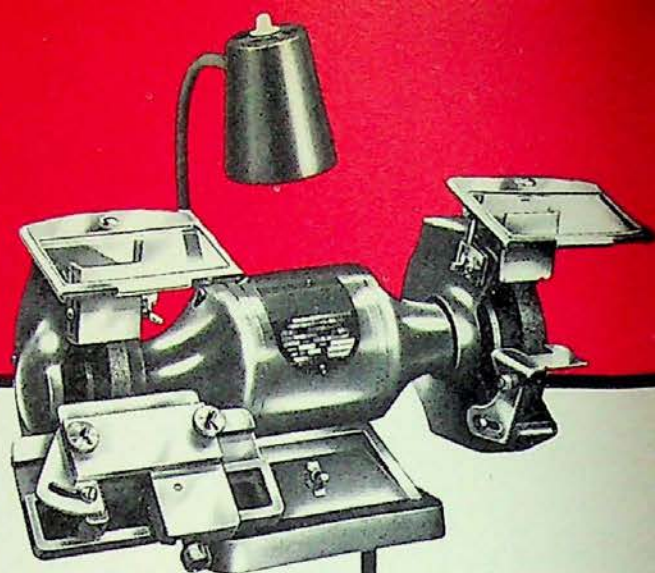
No. 49-330 Two-Pole Toggle Switch, one hole mounting, bat type lever. Required for separate on-and-off control of No. 23-801 Twin-Lites when used on three phase grinders. $\frac{1}{4}$ lb.

**See the Complete Rockwell Delta
Quality Grinder Line Today!**

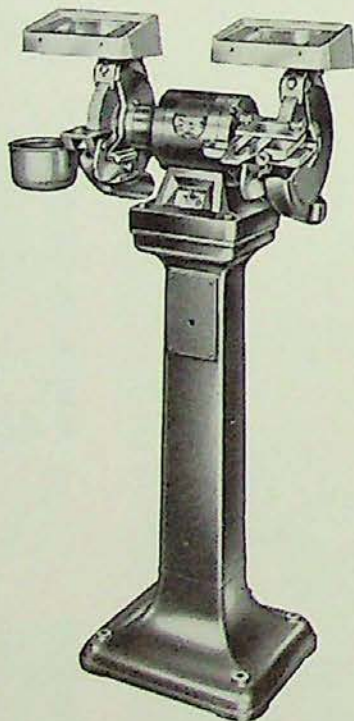


Rockwell 1/3 HP 6" Grinder. A low-cost grinder that's perfect for grinding, buffing and polishing.

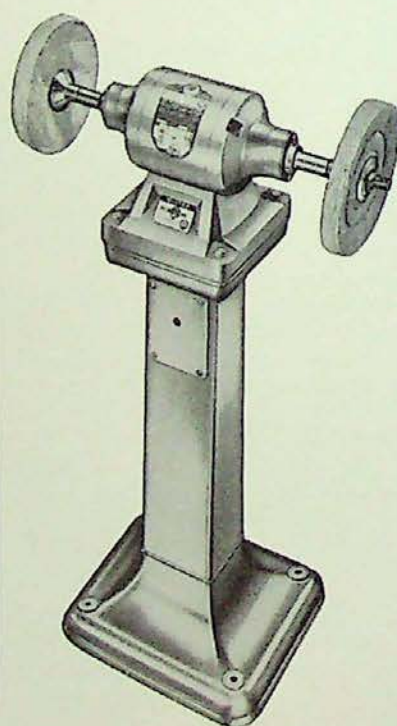
ROCKWELL 6" EDGE TOOL BENCH GRINDER. Ideal for general grinding. Perfect for sharpening edge tools up to 3 1/4" wide.



ROCKWELL DELTA 1 HP 10" GRINDER. Heavy duty motor and extra capacity make it excellent for every grinding or buffing job.



ROCKWELL DELTA 1/2 HP 7" STANDARD GRINDER. Excellent for all general purpose grinding in every shop.



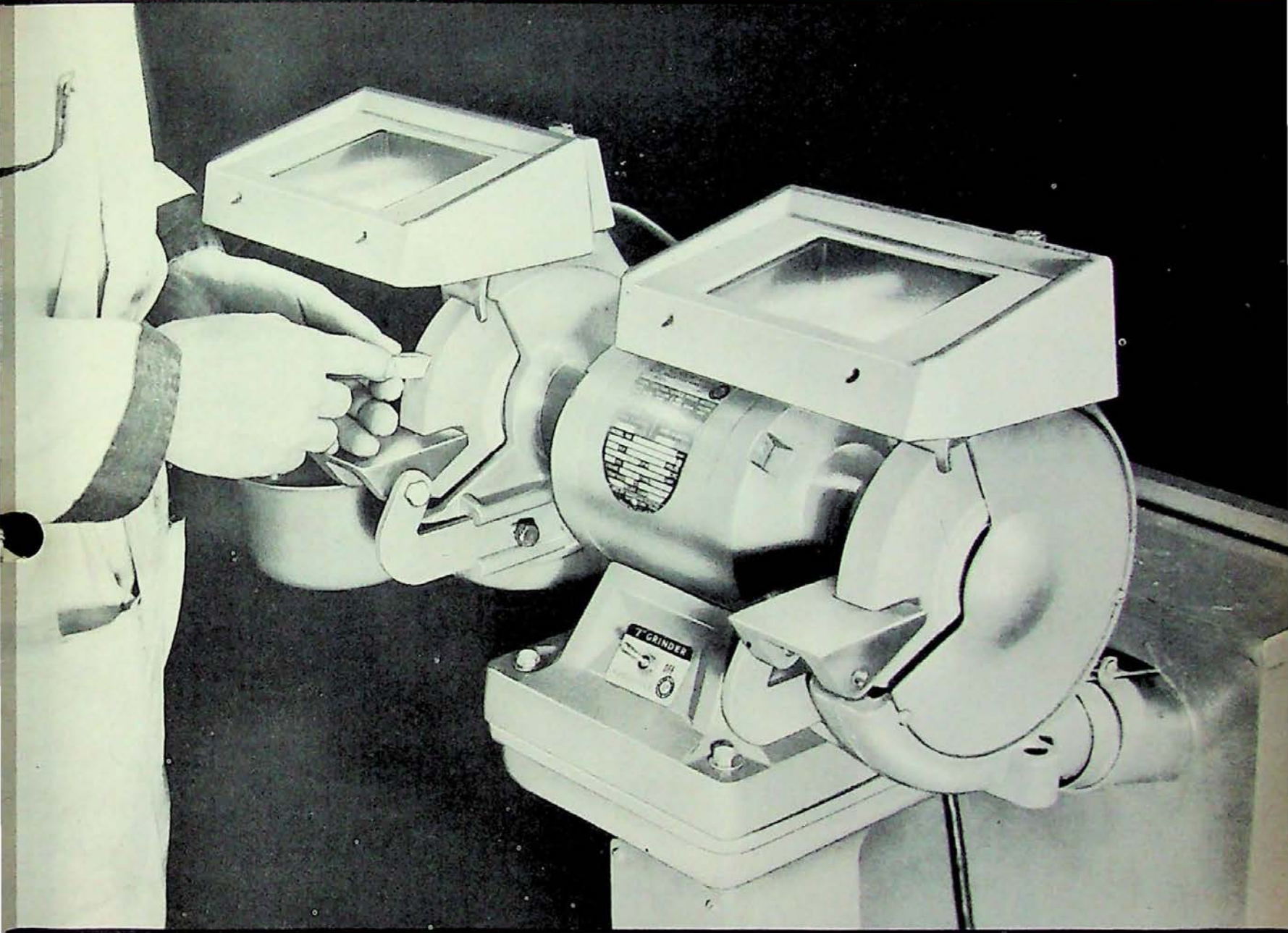
ROCKWELL DELTA 1/2 HP LONG SHAFT BUFFER. Offers extra room for all buffing, cleaning and polishing operations.



ROCKWELL DELTA TOOL GRINDER. For grinding carbide-tipped high-speed single cutting tools.



ROCKWELL DELTA **7" STANDARD GRINDER**



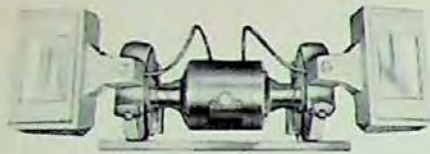
Check any toolroom, experimental department, production line or school shop, and it is quite likely that you will see a Rockwell Delta 7" Standard Grinder in action. Why? Because its built-in quality and

accuracy of performance, together with its unsurpassed safety features, have made it the *accepted standard* on the market.

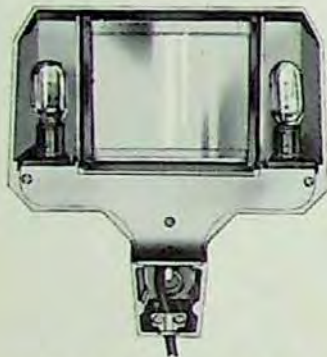
Let us **PERFORMANCE-PROVE** it for you today!

ROCKWELL DELTA 7" STANDARD GRINDER

**DELTA QUALITY FEATURES
THAT MAKE THE
7" STANDARD GRINDER
YOUR BEST BUY!**



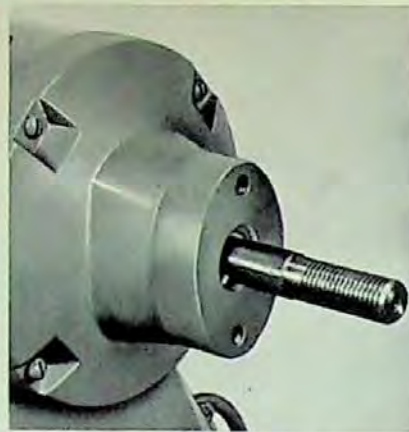
"Thin-Line" Motor: The slim design of the motor, combined with the extra long end bells, assures ample clearance for grinding odd-shaped items and long stock. Totally enclosed, it incorporates double sealed ball bearings, plus an extra seal, to keep out harmful abrasive dust. Note how Twin-Lite® Safety Shields may be easily swung out of the way, yet are instantly available when required.



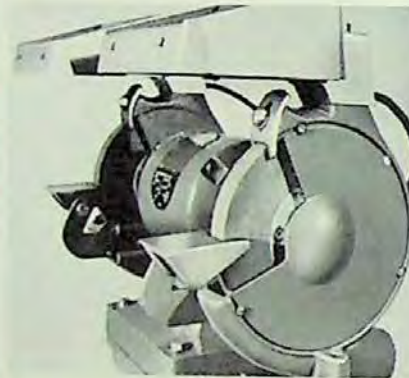
Famous Twin-Lite® Safety Shields: Designed to operate independently of the shop lighting system, they have no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.



Precision Ground Tool Rests: These fully machined tool rests feature a single mounting screw that locks them rigidly in place, yet they may be quickly removed for accessory attachments. They adjust completely for the exact grinding angle desired. Note the special ledges that permit grinding on both sides as well as the face of the wheel.



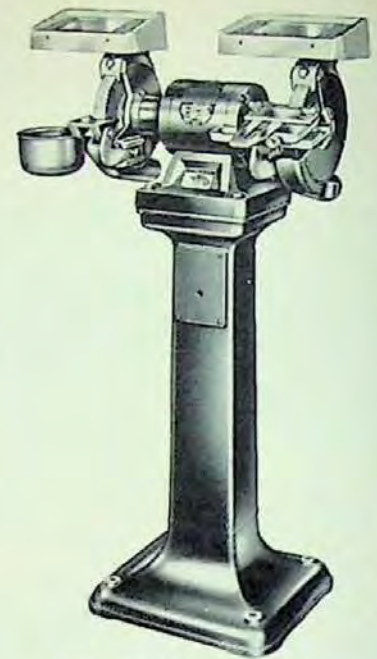
Specially Designed End Bells: Unique End Bell Hubs are oval in cross section—thick from top to bottom for extra rigidity—thin from front to back to give an extra measure of room for manipulating odd-shaped work pieces. These hubs extend out extra far, provide more room between the grinding wheel and the motor.



Advanced Safety Features: This unmatched combination of safety features makes the Rockwell Delta Grinder the safest 7" grinder on the market! Shatterproof glass in patented eye-shields, heavy cast iron guards with integral dust chutes, removable steel side plates, and adjustable spark deflectors provide maximum safety to the operator.

DELTA QUALITY GRINDER EXTRAS

- Single phase, 115/230 V motor is capacitor start type requiring low starting current—won't dim lights like split-phase motors.
- Balanced motor, and wheels which are balanced to within 1/8-ounce inch, assure extra smooth operation.
- Large, over-size wheel flanges eliminate wheel breakage, meet ASA safety code specifications.
- Wheel guard chutes utilize the natural fan action of the grinding wheels, make installation of dust collectors an easy job.
- Handy water pot conveniently mounts on either side.



No. 23-220 Pedestal Model 7" Standard Grinder equipped with accessory Plane Blade Grinding attachment.



No. 23-200 Bench Model 7" Standard Grinder.

Here's the Finest, Safest, Most Accurate 7" Grinder That You Can Buy! Why? Because it has built into it all the famous Rockwell Delta Quality features that have made Delta 7" grinders the *accepted standard* in thousands of the nation's shops for more than 25 years.

Check it feature for feature with any other 7" grinder on the market. Listen to its quiet, smooth operation. You'll see why leaders in industry, schools and commercial shops continually make it their *first choice!*

STANDARD EQUIPMENT

Grinders are furnished with a water pot, Twin-Lite® safety shields, wheel guards, tool rests and two wheels. Single phase models are wired for 115V operation and include on-and-off switch with 115V 8-foot grounding cord and 3-prong plug.

Note: Four No. 1280 Lamp Bulbs must be ordered separately.

ALSO MADE IN CANADA

ROCKWELL DELTA 7" STANDARD GRINDER

MACHINE DATA

Motor:

Horsepower 1/2
 Shaft
 Diameter 5/8"
 Extends Beyond Flange 1 3/4"
 Frame Diameter 5 2 3/32"

All Motors, Except 208 V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor Start Type.

Wheels:

Size 7" Dia., 1" Face, 5/8" Hole
 Balance 1/8-Ounce Inch
 Distance Between Centers 14 1/2"

Pedestal Type:

Base 14 1/4" x 16"
 Width 23 1/4"; Depth 15"
 Height 47 1/2"
 Tool Rest From Base 40"

Bench Type:

Base 8 1/2" x 8 1/2"
 Width 23 1/4" Depth 11"
 Height 13 3/4"
 Tool Rest From Base 6 5/8"

CATALOG LISTING

NO.	TYPE	MOTOR 1/2 HP	SPEED RPM	MOTOR SWITCH	SHIP. WT. LBS.
23-200	Bench	115/230V, 60 cy, Sgl. Ph.	1725	Toggle	82
23-201	Bench	115/230V, 60 cy, Sgl. Ph.	3450	Toggle	82
23-202	Bench	115/230V, 50 cy, Sgl. Ph.	2850	Toggle	88
23-206	Bench	230/460V, 60 cy, 3 Ph.	3450	*None	82
23-207	Bench	230/460V, 60 cy, 3 Ph.	1725	*None	82
23-208	Bench	208V, 60 cy, 3 Ph.	3450	*None	82
23-209	Bench	208V, 60 cy, 3 Ph.	1725	*None	82
23-220	Pedestal	115/230V, 60 cy, Sgl. Ph.	1725	Toggle	149
23-221	Pedestal	115/230V, 60 cy, Sgl. Ph.	3450	Toggle	149
23-222	Pedestal	115/230V, 50 cy, Sgl. Ph.	2850	Toggle	159
23-223	Pedestal	208V, 60 cy, 3 Ph.	3450	*Starter	146
23-224	Pedestal	230/460V, 60 cy, 3 Ph.	3450	*Starter	146
23-225	Pedestal	230/460V, 60 cy, 3 Ph.	3450	*Starter	146

§Use No. 49-671 Push Button Switch or 49-838 Manual Starter or 49-665 Magnetic Starter. Integral Push Button Switch 49-842 or Remote Control Push Button Switch 49-672 is required with the Magnetic Starter. Specify grinder catalog number and voltage when ordering starter.

*Separate toggle switch is furnished for Twin Lites®.

†With thermal elements for 230V operation.

‡With thermal elements for 460V operation.

•With thermal elements for 208V operation.

CONVENIENT ALL-INCLUSIVE NUMBERS

No. 23-240 Bench Grinder, same as No. 23-200, except includes No. 1294 Edge Tool Grinding Attachment. 101 lbs.

No. 23-244 Pedestal Grinder, same as No. 23-220, except includes 1294 Edge Tool Grinding Attachment. 167 lbs.

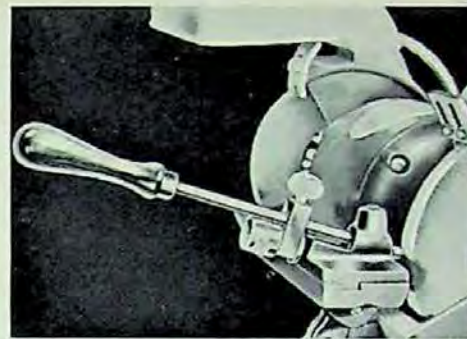
DELTA QUALITY ACCESSORIES THAT MAKE THE 7" STANDARD GRINDER EVEN MORE VALUABLE

No. 1267 Vitreous Aluminum Oxide

Wheel, 5/8" x 7", 46 G, Grade N, 5/8" hole. Special friable wheel for cool grinding of drills, plane blades, chisels, etc. 2 lbs.

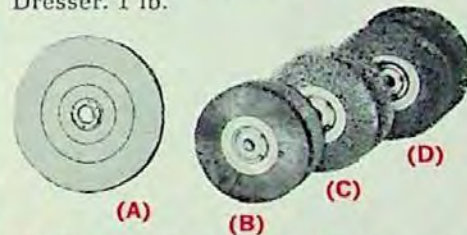
No. 23-815 Aluminum Oxide Wheel, 1 x 7", 60 G, Grade N, 5/8" hole. 4 lbs.

No. 23-816 Aluminum Oxide Wheel, 1 x 7", 46 G, Grade M, 5/8" hole. 4 lbs.



No. 3121 Diamond Pointed Wheel Dresser. For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is 9 1/2" long with a comfortable handle. 1 lb.

No. 1664 Holder for Diamond Wheel Dresser. Used with No. 3121 Wheel Dresser. 1 lb.

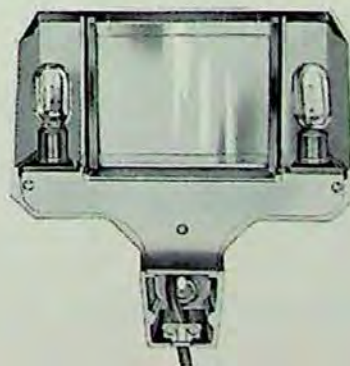


(A) No. 23-825 8" Buffing Wheel for 5/8" arbor, 3/4" face, 48 ply, fine muslin, cushion type with three circles of lock-stitched sewing. Includes one pair of toothed flanges for 5/8" arbor and instructions for use. A professional quality, general purpose buff recommended for light cutting down and for finish coloring. 1 lb.

(B) No. 1236 Wire Brush, 6" diameter, fine, 5/8" hole. 1 lb.

(C) No. 1237 Wire Brush, 6" diameter, medium, 5/8" hole. 1 lb.

(D) No. 1238 Wire Brush, 6" diameter, coarse, 5/8" hole. 1 lb.



No. 1250 Twin-Lite® Safety Shield (two required). Without bulbs. 5 lbs.

No. 1280 Appliance Type Bulb, clear glass, 25 watt, 115-125V, with double contact bayonet ("plug-in") base. 1/4 lb.

No. 23-805 Pedestal. Used to convert 7" Standard Bench Grinder to a pedestal type. 67 lbs.



No. 1294 Edge Tool Grinding Attachment. Ideal for school shops, cabinet shops, and all types of woodworking shops. Although especially recommended for sharpening plane irons, this attachment also does an excellent job of grinding wood chisels, putty knives, scrapers and similar items up to 3 1/4" wide. See Page 4, Section C6 for applications.

Slide is notched for wooden handles of wood chisels, including "butts" which have a very short chisel blade. Adjustable quadrant permits accurate grinding of angle knives, assures absolute right angle position for straight knives. Knurled nut gives hairline adjustment for amount of "cut." Blade or chisel being ground can be lifted off and inspected at any time without disturbing the micrometer adjustment of clamp and carriage. No. 1267 Vitreous Aluminum Oxide Wheel is recommended. Can be used with No. 3121 Diamond Wheel Dresser instead of No. 1664 Wheel Dressing Tool Holder. 6 lbs.



No. 1296 Drill Grinding Attachment. So accurately made and easy to operate that anyone can do a perfect drill sharpening job. Grinds with the face of the wheel. Micrometer settings insure evenly ground lips. Amount of lip clearance on drill is just right, with enough of the heel cut away to provide clearance without weakening the cutting edge. With it you can grind straight shank twist drills to fit your job—with clearance and point angles at any degree you need. Capacity—1/8" to 5/8" drills. Furnished with No. 1664 Holder for Wheel Dresser. Order No. 3121 Diamond Wheel Dresser separately. 12 lbs.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA 7" STANDARD GRINDER

DELTA ACCESSORIES—continued

No. 1292 Motorless, Gravity Type Dust Collector for pedestal grinder. A self-contained unit that need not be connected to the shop blower system. No power is required. Efficient filters trap virtually all of the fine dust. Complete with filter, bracket and screws. 32 lbs.

No. 1293 Replaceable Filter for above. 3 lbs.

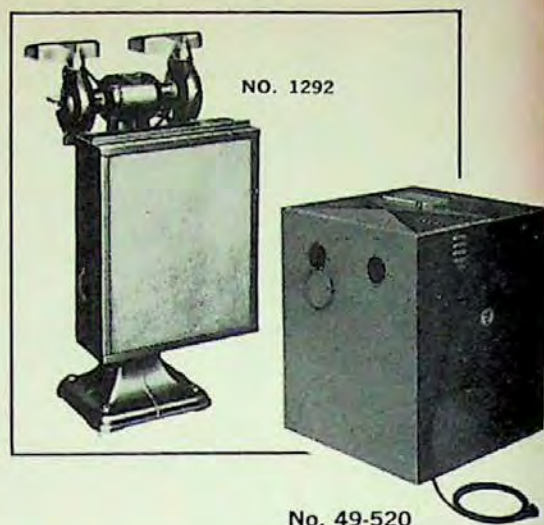
No. 49-520 Motor Driven Dust Collector for single phase operation, 1/3 HP, 115/230V, 60 cy, 3450 rpm. Includes on-and-off switch, switch rod, 115V 8-foot cord and 3-prong grounding type plug, mounted and wired. 120 lbs.

No. 49-527 Motor Driven Dust Collector for three phase operation, 1/3 HP, 230/460 V, 60 cy, 3450 rpm. Includes 3-pole on-and-off switch, switch rod and 8-foot 4-conductor grounding type cord, wired to switch for 230 V. Less plug. 120 lbs.

No. 49-529 Extra Standard Filter for motor driven dust collector. 8 lbs.

No. 49-531 Holder with two expanded filter pads for motor driven dust collector. Recommended for fine dust. 7 lbs.

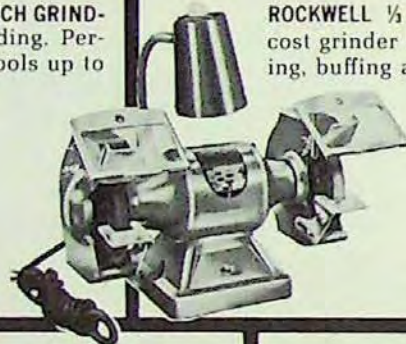
No. 23-802 Attachment Package for motor driven dust collectors. 8 lbs.



See the Complete Rockwell Delta Quality Grinder Line Today!



ROCKWELL 6" EDGE TOOL BENCH GRINDER. Ideal for general grinding. Perfect for sharpening edge tools up to 3 1/4" wide.



ROCKWELL 1/2 HP 6" GRINDER. A low-cost grinder that's perfect for grinding, buffing and polishing.



Rockwell Delta 1/2 HP 6" Tool Grinder. For grinding carbide-tipped and high-speed single point cutting tools.

Rockwell Delta 1 HP 10" Grinder. Heavy duty motor and extra capacity make it excellent for every grinding or buffing job.



Rockwell Delta 1/2 HP 7" Standard Grinder. Excellent for all general purpose grinding in every shop.



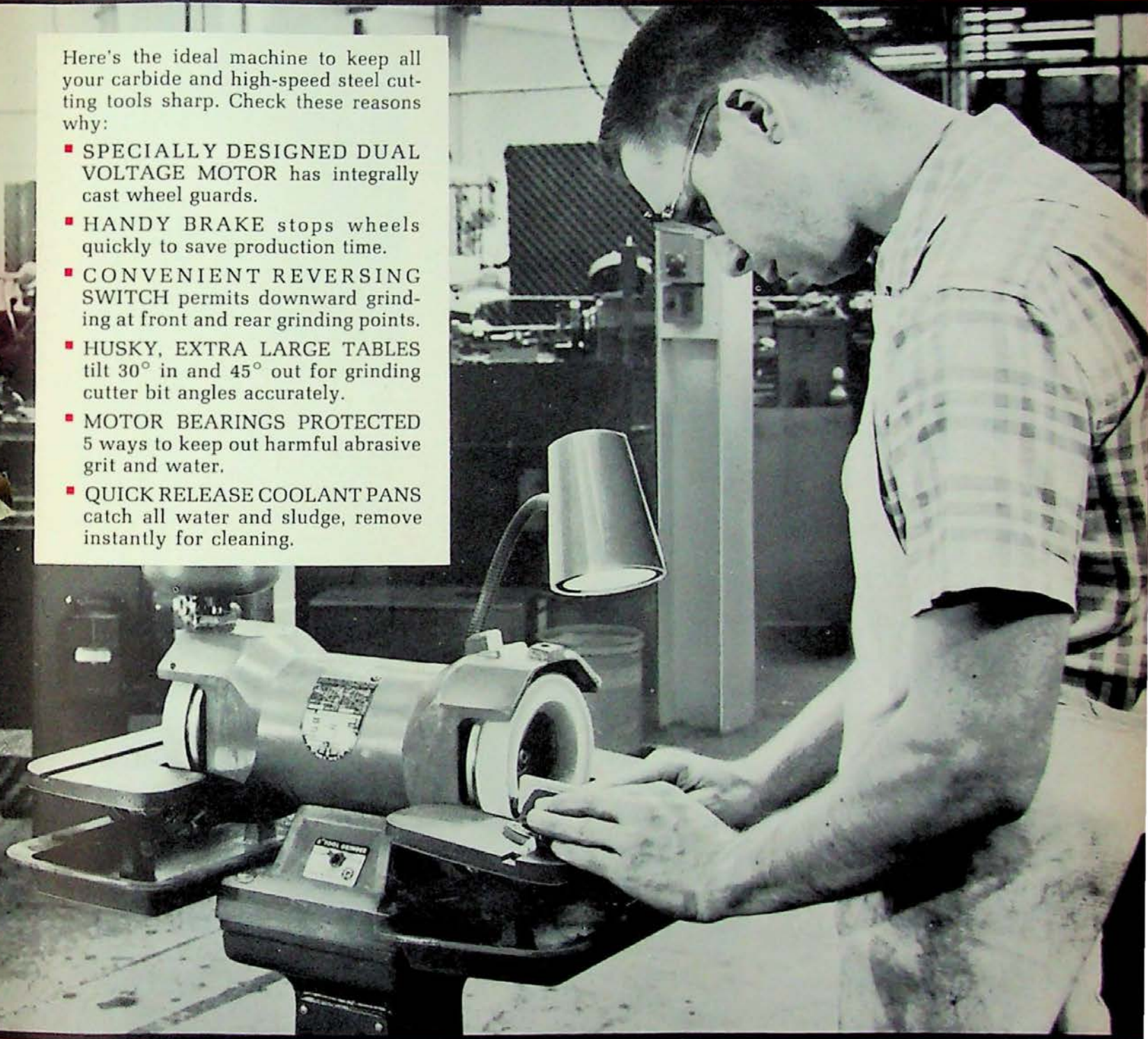
Rockwell Delta 1/2 HP Long Shaft Buffer. Offers extra room for all buffing, cleaning and polishing operations.



ROCKWELL DELTA 6" TOOL GRINDER

Here's the ideal machine to keep all your carbide and high-speed steel cutting tools sharp. Check these reasons why:

- **SPECIALLY DESIGNED DUAL VOLTAGE MOTOR** has integrally cast wheel guards.
- **HANDY BRAKE** stops wheels quickly to save production time.
- **CONVENIENT REVERSING SWITCH** permits downward grinding at front and rear grinding points.
- **HUSKY, EXTRA LARGE TABLES** tilt 30° in and 45° out for grinding cutter bit angles accurately.
- **MOTOR BEARINGS PROTECTED** 5 ways to keep out harmful abrasive grit and water.
- **QUICK RELEASE COOLANT PANS** catch all water and sludge, remove instantly for cleaning.

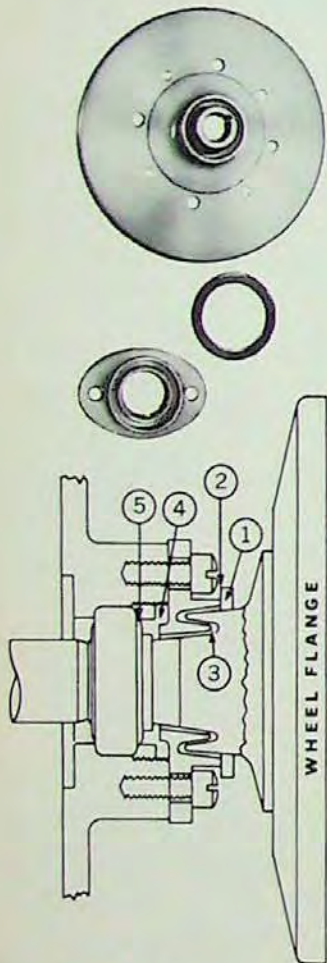


ROCKWELL DELTA 6" TOOL GRINDER

DELTA QUALITY FEATURES THAT ASSURE PRECISION GRINDING PERFORMANCE



Specially-Designed Motor: Totally enclosed motor has heavy, integrally cast end bells which double as husky, safe wheel guards. All motors are dual voltage, re-connectable type. Single phase motors are powerful capacitor-start type that won't dim lights and that reach full grinding speed quickly.



Motor Bearings Protected 5 ways: It is impossible for water or abrasive grit to reach the motor bearings. Here's why: (1) Neoprene slinger washer throws water off by centrifugal force. (2) Positive contact of washer against seal closes opening to labyrinth. (3) Labyrinth type, centrifugally designed bearing seal interlocks with wheel flange. (4) Space between labyrinth seal and motor bearing is packed with grease. (5) Actual motor bearing is sealed as final protective measure.



Wheel Centering Ring (Shown in Place): A ring is provided to automatically center wheels when mounted. Flanges have two sets of mounting holes, one for silicon-carbide or aluminum-oxide wheels and one for diamond wheels.



Husky, Extra Large Tables: Made of cast iron, they ride on widely spaced trunnions for maximum rigidity in operation. Easy-to-read scales at both ends facilitate tilting to 30° in and 45° out for grinding cutter bit angles easily, accurately and safely. A 1/2 x 3/16" groove accommodates jigs and fixtures. Wheel changing is easy because tables lift off machine without need for using wrenches.



Handy Brake; Convenient Reversing Switch: Positive brake quickly stops wheels to save valuable production time. Switch instantly reverses wheel rotation so wheel is turning downward at both front and rear grinding points. Therefore, operator's hands are always safely placed outside and away from upward traveling face of wheel.



Quick-Release Coolant Pans: Designed to catch all water and sludge. Knurled knobs permit their quick removal for washing away from grinder. This saves operator's time, also keeps machine and working area clean and dry for added safety.

ROCKWELL DELTA 6" TOOL GRINDER

DELTA FEATURES—continued



Specially Designed Sliding Angle Jig (Standard Equipment): Tilt angle scale, with adjustable pointer, facilitates accurate grinding of compound angles up to 45°, right or left. Movable face plate can be adjusted to bring support of cutting tool as close to wheel as desired. This feature assures better grinding with greater safety for the operator.



Diamond Pointed Wheel Dresser: This accessory dresses aluminum oxide and silicon carbide wheels. With the aid of the Wheel Dressing Tool Holder, it quickly sharpens the face of the wheel and trues it exactly parallel to table groove. Thus, tool bits can be sharpened to exact specifications.

DELTA QUALITY GRINDER EXTRAS

- To assure smooth, vibration-free operation, aluminum wheel flanges are dynamically balanced, then faced off after assembly. Light in weight, they permit quicker starting and stopping.
- Lamp Attachment has a flexible gooseneck for providing a full flood of light at the four grinding points. Nylon cool-shield on lamp prevents burned fingers.
- Handy Water Pot With Faucet conveniently mounts on either side. A tapered brass mounting post securely holds it in place.
- Balanced motor, and wheels which are balanced to within 1/8-ounce inch, assure extra smooth operation.



Wheels Not Furnished With Grinder (Order Separately).

If you grind or lap carbide-tipped tool bits or sharpen either high-speed steel or alloy steel single-point cutting tools, the Rockwell Delta 6" Tool Grinder is the ideal machine for you.

As a Small Shop Owner You Can Do Your Own Grinding Economically and Quickly, Right in Your Own Shop, the Way You Prefer. It reduces operating costs because it makes possible internal grinding, therefore, a smaller investment in tools is required. It increases production. There's no loss of production time because tools are ground right in the plant. It increases efficiency. Tools can be sharpened to exact specifications without delay.

As a Large Shop Owner You Can Use the Rockwell Delta 6" Tool Grinder to Relieve the Bottleneck on Your Larger Grinders. When the tool room has your large grinders tied up, you can use the Delta Grinder to handle the smaller jobs. The use of smaller grinding wheels will save dollars in wheel costs, particularly when diamond wheels are used.

As a School Shop Instructor You Can Teach Accurate Grinding on the Rockwell Delta 6" Tool Grinder. When you ask your students to grind a specific rake, clearance, or point angle, there will be no guesswork on their part. They can get it by setting the table and the sliding angle jig. Their work will have a single face, not many faces. Your students' work will meet the high standards you demand.

With a Rockwell Delta 6" Tool Grinder You Can Sharpen Tools to Your Specifications. As a toolmaker, model maker, lathe operator or maintenance man, you can do precision grinding or diamond finishing of carbide-tipped tool bits, high-speed, alloy steel or carbon steel single-point cutting tools right in your plant to keep work moving through your shop. This inexpensive grinder also is ideal for sharpening boring bars, star drills, blades, and for roughing multiple point tools.

MACHINE DATA

Motor:

Horsepower 1/2
 Totally Enclosed (TENV)
 All Motors are Dual Voltage with Reconnectable Feature.
 Single Phase Motors are Capacitor Start type.

Wheels Recommended:

Size: 6" Diameter, 1" Thick, 1" Face, with 1 1/4" Hole
 Type: Plate Mounted (D6A2C Diamond Wheels)
 Bolt Circle 3 1/4"
 Holes in Plate (4)
 For Diamond Wheels 1/2", Countersunk
 For Sil. Carb. and Alum. Ox. Wheels 1 3/16", Straight

Wheel Flanges:

6" Diameter, Tapped for Mounting Wheels
 Aluminum, Dynamically Balanced

Tables:

Tilt 45° Out and 30° In
 Size 7 1/4" x 12 3/4"
 Groove for Sliding Angle Jig 3/16" x 1/2"

Dimensions, Overall, Bench Type

Height (Without Lamp) 14 1/4"
 Width .. 24 3/4" Front to Back .. 15"
 Base
 Overall Space on Bench 8 1/2" x 8 1/2"
 Centers of Mounting Holes 6 3/4" x 6 3/4"

Dimensions, Overall, Pedestal Type

Height (Without Lamp) 47 1/4"
 Width .. 24 3/4" Front to Back .. 15"
 Base
 Overall Space on Floor
 Width .. 16" Front to Back .. 14"
 Centers of Floor Mounting Holes
 Left to Right 11 7/8"
 Front to Back 10"

CATALOG LISTING

NO.	TYPE	MOTOR—1/2 HP	SPEED RPM	SHIP. WT. LBS.
23-501	Bench	115/230 V, 60 Cy, Sgl. Ph.	3450	90
23-502	Bench	230/460 V, 60 Cy, 3 Ph.	3450	90
23-504	Bench	575 V, 60 Cy, 3 Ph.	3450	90
23-509	Bench	208 V, 60 Cy, 3 Ph.	3450	90
23-521	Pedestal	115/230 V, 60 Cy, Sgl. Ph.	3450	157
23-522	Pedestal	230/460 V, 60 Cy, 3 Ph.	3450	157
23-524	Pedestal	208 V, 60 Cy, 3 Ph.	3450	157

STANDARD EQUIPMENT

All models have one each lamp attachment, water pot, sliding angle jig and on-and-off reversing switch. Single phase models are wired for 115 V operation and include 115 V 8-foot grounding cord and 3-prong plug. **Note:** When overload protection is desired, use No. 49-669 Overload Switch. Specify grinder catalog number and voltage when ordering switch.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA 6" TOOL GRINDER

DELTA QUALITY ACCESSORIES FOR INCREASED GRINDER VERSATILITY

No. 1661 Wheel, 1 x 6", 60 grit, silicon-carbide, grade H 12, 1" face, 1 1/4" hole. 10 lbs.

No. 1662 Wheel, 1 x 6", 120 grit, silicon-carbide, grade H 12, 1" face, 1 1/4" hole. 10 lbs.

No. 23-841 Wheel, 1 x 6", 46 grit, aluminum-oxide (for roughing), grade G, 1" face, 1 1/4" hole. 10 lbs.

No. 23-842 Wheel, 1 x 6", 80 grit, aluminum-oxide (for finishing), grade J, 1" face, 1 1/4" hole. 10 lbs.

No. 23-805 Pedestal, for converting 6" Bench Grinder to pedestal type. 69 lbs.



NO. 1664 and
NO. 3121

No. 3121 Wheel Dressing Tool, diamond pointed. 1 lb.

No. 1664 Holder, for Diamond Wheel Dresser. 1 lb.



No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug.

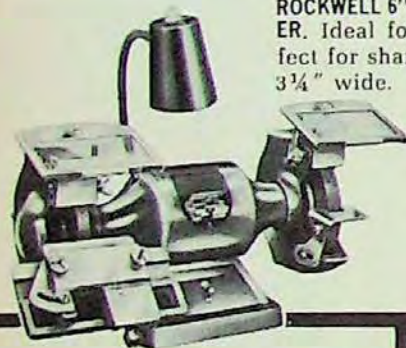
Uses standard bulb (not included) up to 75 watts. 3 lbs.

No. 1663 Water Pot, with faucet. Same as furnished with machine. 5 lbs.

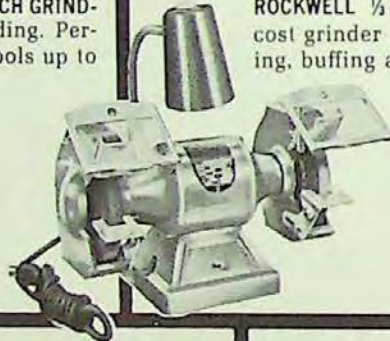


No. 31-804 Sliding Angle Jig. Same as furnished with machine. 4 lbs.

See the Complete Rockwell Delta Quality Grinder Line Today!



ROCKWELL 6" EDGE TOOL BENCH GRINDER. Ideal for general grinding. Perfect for sharpening edge tools up to 3/4" wide.



ROCKWELL 1/2 HP 6" GRINDER. A low-cost grinder that's perfect for grinding, buffing and polishing.



Rockwell Delta 1/2 HP 6" Tool Grinder. For grinding carbide-tipped and high-speed single point cutting tools.

Rockwell Delta 1 HP 10" Grinder. Heavy duty motor and extra capacity make it excellent for every grinding or buffing job.

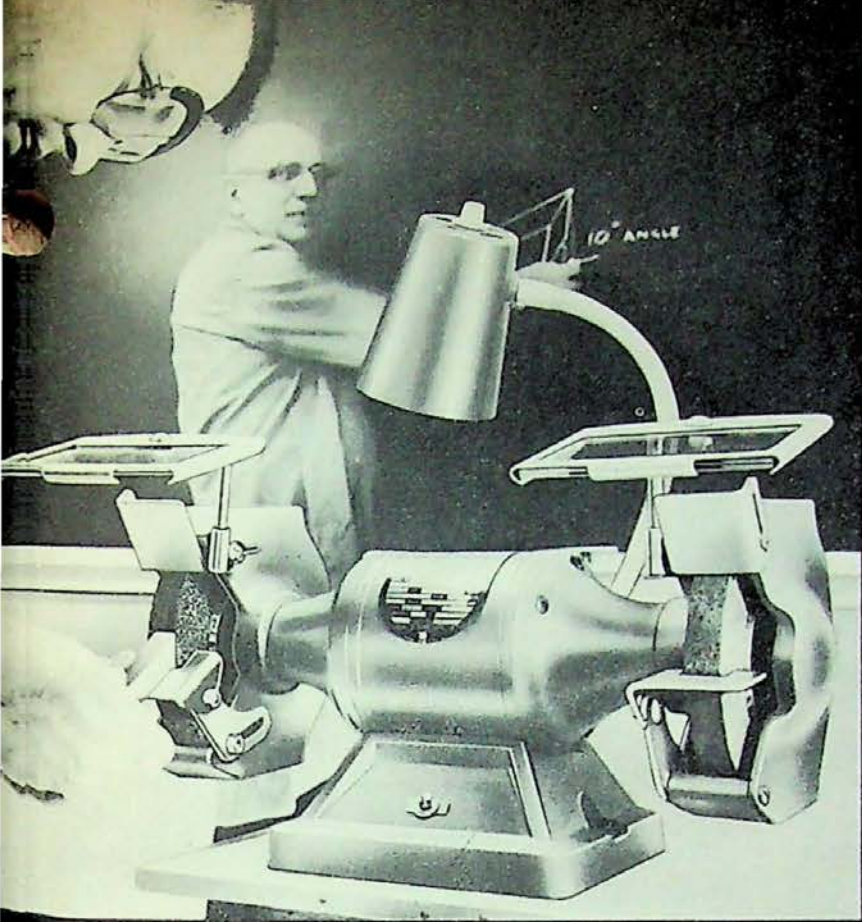


Rockwell Delta 1/2 HP 7" Standard Grinder. Excellent for all general purpose grinding in every shop.



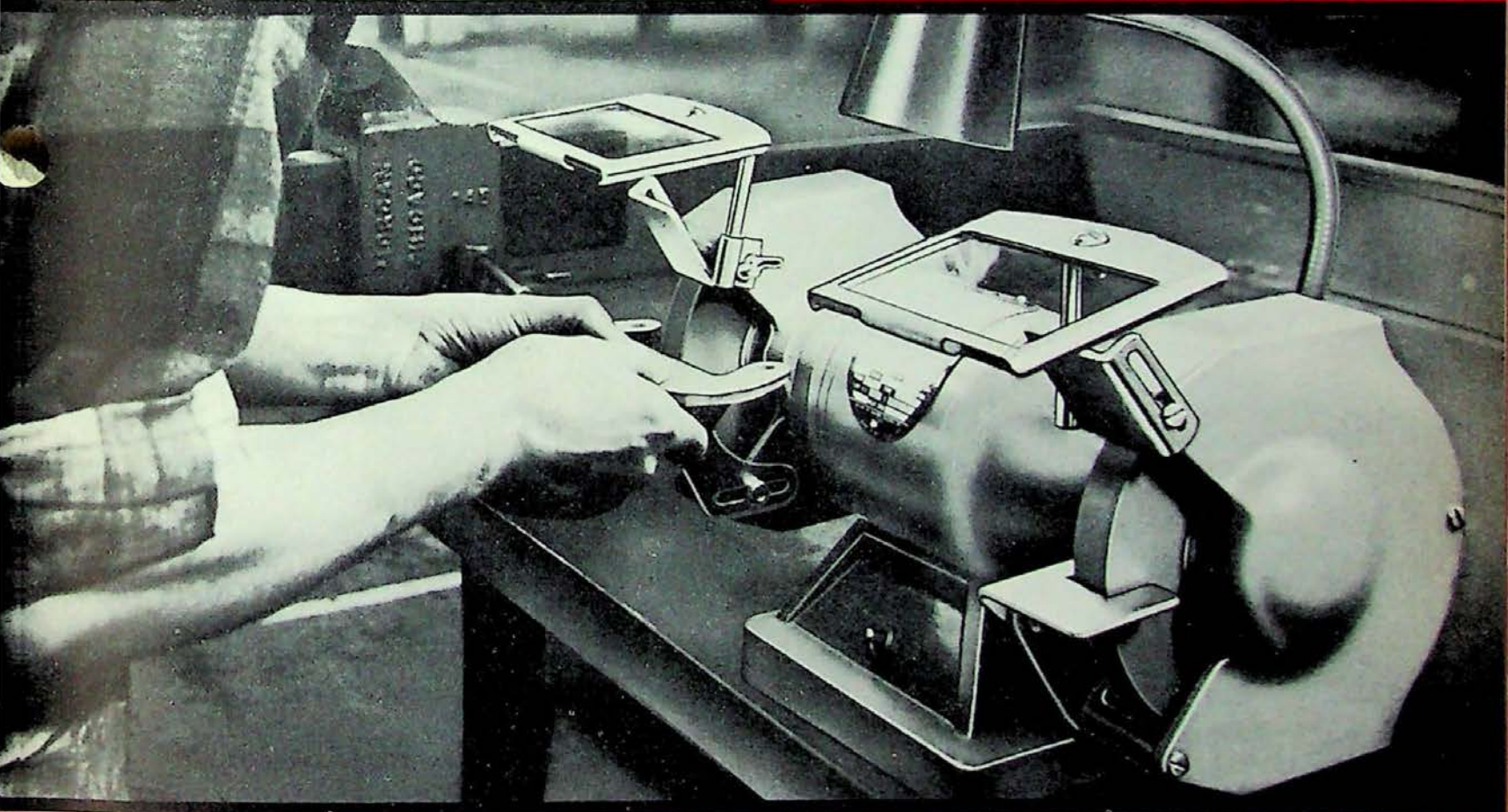
Rockwell Delta 1/2 HP Long Shaft Buffer. Offers extra room for all buffing, cleaning and polishing operations.





ROCKWELL 6" BENCH GRINDER

- It's so Low in Cost, every shop owner can afford it!
- It's so Ruggedly Built, it will stand up day after day, year in and year out!
- It Performs so Well, it answers the grinding needs of every user!



MEETS ALL INDUSTRIAL REQUIREMENTS • IDEALLY SUITED FOR SCHOOL SHOPS

ROCKWELL 6" BENCH GRINDER

ROCKWELL QUALITY FEATURES ASSURE SMOOTH GRINDER PERFORMANCE



Shatterproof Eyeshield ... Each specially designed eyeshield contains two sections of shatterproof glass that are completely enclosed within a protective metal frame. Mounting post provides additional positioning flexibility.

Benefit: Shatterproof eyeshield safeguards operator's eyes while providing complete positioning flexibility for grinding on front or sides of wheel.



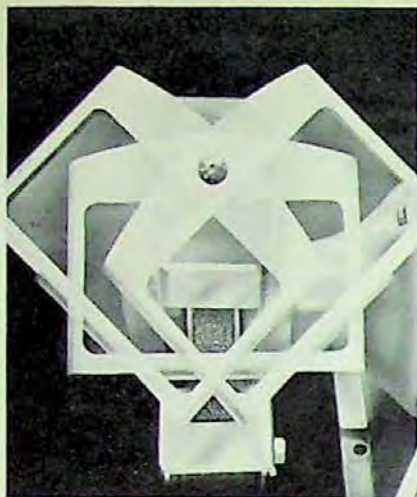
Thin Motor Design ... Heavy duty motor is thin in design and completely enclosed.

Benefits: You have ample clearance for grinding long stock, even after wheel wear. Totally enclosed motor, which has shielded, lubricated-for-life ball bearings, keeps out harmful abrasive dust.



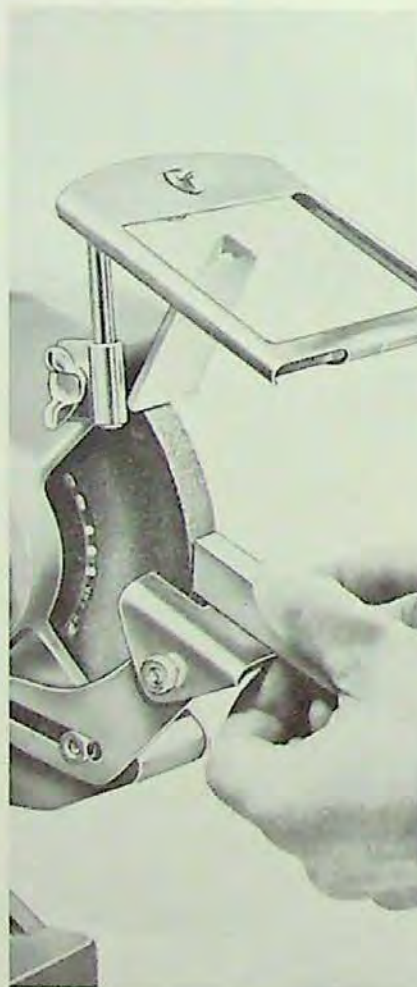
Small End Bells ... The long, tapered end bells provide an extra amount of room between the motor and grinding wheel.

Benefit: You have ample clearance for grinding large or odd-shaped work pieces easily and quickly.



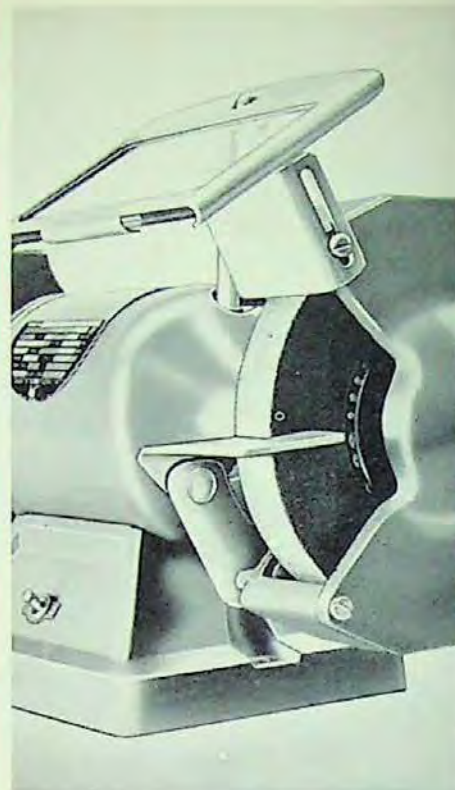
Flexible Eyeshields ... Fully adjustable, they move up, down, left or right, to any desired position.

Benefit: You can position eyeshields to the exact angle desired for safe, accurate grinding.



Fully Adjustable Tool Rests ... Adjust both horizontally and vertically ... tilt for exact angle desired. Designed with wrap-around ledges.

Benefits: Complete adjustability feature enables you to position rests at any grinding angle desired. Wrap-around ledges permit grinding on sides as well as face of wheel.



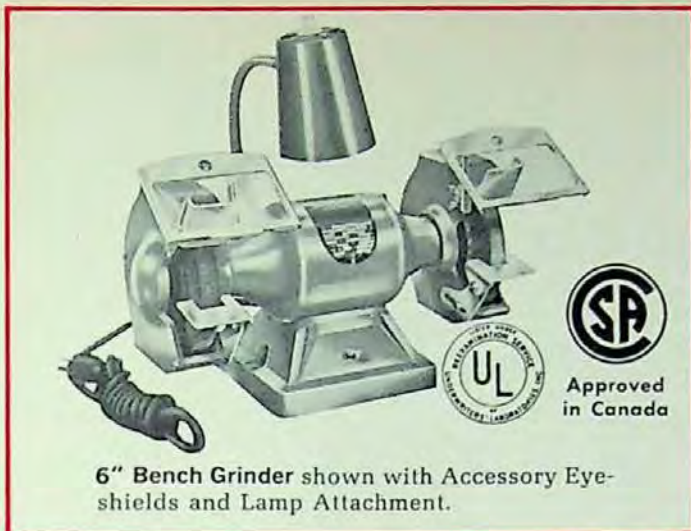
Designed for Safety ... Maximum safety is guaranteed by the shatterproof eyeshields, adjustable spark deflectors, cast iron wheel guards and removable end plates.

Benefits: The Rockwell 6" Bench Grinder complies with all safety codes—U.L., C.S.A. and A.S.A.—provides maximum safety for the operator.

ROCKWELL QUALITY GRINDER EXTRAS

- **Rugged Motor Design**—Built for heavy duty grinding in industrial, commercial and school shops.
- **Quick-Mounting Eyeshields**—Can be mounted in a few minutes *without* requiring any disassembly of grinder.
- **Excellent Bearing Construction**—Large, lubricated-for-life ball bearings assure smooth grinder performance.
- **Wheel Guards Quickly Removed**—Enable grinder to be quickly converted for use as a buffer or polisher.
- **Precision Balanced Wheels**—Balanced to within 1/8-ounce inch to assure extra smooth running—36 grit wheel for coarse grinding—60 grit wheel for fine grinding.
- **Three Conductor Cord**—8-foot, jacketed type cord with 3-prong grounding type plug, is U.L. and C.S.A. approved.
- **Lamp Mounting Feature**—Grinder base is drilled and tapped for mounting accessory Lamp Attachment.
- **Many Accessories Available**—Only Rockwell offers a complete line of accessories for increased grinder performance.

ROCKWELL 6" BENCH GRINDER



6" Bench Grinder shown with Accessory Eyeshields and Lamp Attachment.

This Rockwell 6" Bench Grinder is an *all-purpose unit* . . . excellent for grinding, polishing and buffing. It's ideally suited for use in tool rooms, experimental departments, foundries, garages, on farms, and in school and home workshops. Here's why: Its accuracy is insured by the balanced grinding wheels, a precision ground shaft and sealed-for-life ball bearings. Maximum safety is guaranteed by such features as adjustable spark deflectors, cast iron wheel guards, removable end plates and fully adjustable tool rests. Shatterproof eyeshields and lamp attachment provide additional operator safety. Only that portion of the grinding wheel being used is actually exposed.

Increase the efficiency of your operation. Place one of these low-cost, versatile grinders at every bench in your shop!

MACHINE DATA

Motor:

Horsepower $\frac{1}{2}$
 Volts 115, Cycles 60, AC, 1 Phase
 RPM 3450
 Arbor . . . $\frac{5}{8}$ " Dia. Ends Threaded $\frac{1}{2}$ "-20 Left and Right

Wheels:

Size 6" Diameter, $\frac{3}{4}$ " Face, $\frac{1}{2}$ " Hole
 Balance $\frac{1}{8}$ -Ounce Inch
 Distance Between Centers $13\frac{1}{8}$ "

Wheel Flanges:

Diameter 3"

Dimensions, Overall:

Left to Right
 With Eyeshields $23\frac{1}{4}$ "
 Without Eyeshields 17"
 Front to Rear $8\frac{3}{4}$ "
 Height $9\frac{3}{8}$ "

Base:

Width $7\frac{3}{8}$ "
 Front to Back $6\frac{5}{8}$ "
 Mounting Holes (2), Center to Center $6\frac{3}{8}$ "

STANDARD EQUIPMENT

Grinders are furnished with two wheels (36 and 60 grit), wheel guards, spark deflectors, tool rests, on-and-off switch and 8-foot cord with 115 V grounding type plug. *Eyeshields and Lamp Attachment must be ordered separately.*

CATALOG LISTING

BASIC MACHINE

No. 23-635 6" Bench Grinder. With $\frac{1}{2}$ HP motor, on-and-off switch, 8-foot cord with 115 V grounding type plug, wheel guards, spark deflectors, tool rests and two wheels—36 grit and 60 grit. Less eyeshields and lamp attachment. 45 lbs.

BASIC ACCESSORIES

No. 23-800 Eyeshields.

One pair, with brackets and screws. 3 lbs.

No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.



CONVERT YOUR ROCKWELL 6" BENCH GRINDER TO AN EDGE TOOL GRINDER

You can do this simply by replacing the left wheel with the special No. 23-828 Wheel and the left tool rest with the No. 23-845 Edge Tool Grinding Attachment. No. 3121 Diamond Dresser also recommended.



No. 23-845 Edge Tool Grinding Attachment, Ideal for school shops, cabinet shops, and all types of woodworking shops. Although especially recommended for sharpening plane irons, this attachment also does an excellent job of grinding wood chisels, putty knives, scrapers and similar items up to $3\frac{1}{4}$ " wide. See Page 4, Section C6 for applications.

Slide is notched for wooden handles of wood chisels, including "butts" which have a very short chisel blade. Adjustable quadrant permits accurate grinding of angle knives, assures absolute right angle position for straight knives. Knurled nut gives hairline adjustment for amount of "cut." Blade or chisel being ground can be lifted off and inspected at any time without disturbing the micrometer adjustment of clamp and carriage. No. 23-828 resinoid bonded wheel is recommended. Can be used with No. 3121 Diamond Wheel Dresser instead of No. 1664 Wheel Dressing Tool Holder. 6 lbs.

No. 23-828 Aluminum Oxide Wheel, $\frac{1}{2}$ " x 6", 54 G, Grade K, $\frac{1}{2}$ " hole. A specially selected, resinoid bonded wheel recommended for sharpening edge tools at the standard speed of 3450 rpm, or for other work where cool grinding is important. 2 lbs.



No. 3121 Diamond-Pointed Wheel Dresser. For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is $9\frac{1}{2}$ " long with a comfortable handle. 1 lb.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL 6" BENCH GRINDER

**ROCKWELL QUALITY ACCESSORIES
THAT MAKE THE 6" BENCH GRINDER
EVEN MORE VALUABLE**

GRINDING, BUFFING, WIRE AND FIBER WHEELS

No. 23-826 Aluminum Oxide Wheel. $\frac{3}{4}$ x 6", 36G, Grade O, $\frac{1}{2}$ " hole. 2 $\frac{1}{2}$ lbs.

(A) No. 23-827 Aluminum Oxide Wheel. $\frac{3}{4}$ x 6", 60G, Grade O, $\frac{1}{2}$ " hole. 2 $\frac{1}{2}$ lbs.



(B) No. 3114 Wire Brush. 6" diameter, fine, $\frac{1}{2}$ " hole. 1 lb.

(C) No. 3113 Wire Brush. 6" diameter, coarse, $\frac{1}{2}$ " hole. 1 lb.

(D) No. 3115 Fiber Brush. 6" diameter, $\frac{1}{2}$ " hole. 1 lb.

(E) No. 4005 Buffing Wheel. 6" diameter, $\frac{1}{2}$ " thick, circular stitching, $\frac{1}{2}$ " hole. 2 lbs.

BUFFING COMPOUNDS

No. 4004 Buffing Compound Kit. Consisting of four $\frac{1}{4}$ pound bars, with instructions. Includes one each of red rouge, white rouge, emery and tripoli bars. 19 ounces.



No. 4007 Red Rouge Buffing Compound. One pound bar, with instructions. Recommended for coloring gold, silver and other precious metals. 19 ounces.

No. 4008 White Rouge Buffing Compound. One pound bar, with instructions. Recommended for cutting down and coloring stainless steel, chromium, nickel plate, brass, aluminum and plastics. 19 ounces.

No. 4009 Emery (Black) Buffing Compound. One pound bar, with instructions. Recommended for coarse polishing to remove rust, scale, scratches and burrs from iron, steel and other hard metals. 19 ounces.

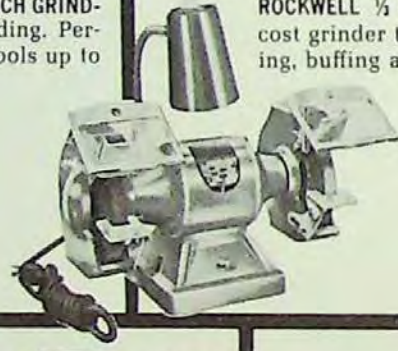
No. 4010 Tripoli (Brown) Buffing Compound. One pound bar, with instructions. Recommended for cutting down and coloring of aluminum, brass, copper, pewter, plastics, hard rubber, animal horn and wood. 19 ounces.

See the Complete Rockwell Delta Quality Grinder Line Today!

ROCKWELL 6" EDGE TOOL BENCH GRINDER. Ideal for general grinding. Perfect for sharpening edge tools up to $3\frac{1}{4}$ " wide.



ROCKWELL $\frac{1}{2}$ HP 6" GRINDER. A low-cost grinder that's perfect for grinding, buffing and polishing.



Rockwell Delta 1 HP 10" Grinder. Heavy duty motor and extra capacity make it excellent for every grinding or buffing job.



Rockwell Delta $\frac{1}{2}$ HP 7" Standard Grinder. Excellent for all general purpose grinding in every shop.



Rockwell Delta $\frac{1}{2}$ HP Long Shaft Buffer. Offers extra room for all buffing, cleaning and polishing operations.



Rockwell Delta $\frac{1}{2}$ HP 6" Tool Grinder. For grinding carbide-tipped and high-speed single point cutting tools.



NEW ROCKWELL **6" Edge Tool BENCH GRINDER**



Designed Especially for the School Shop

Also ideal for the commercial wood or cabinet shop and the home workshop, too. Check these Rockwell Quality-Built Exclusives!

- **Big Capacity** . . . handles edge tools up to 3 $\frac{1}{4}$ " wide.
- **Straight-Line, Micrometer In-Feed** . . . assures that correct clearance angle is always maintained.
- **Unique "Butt" Chisel Design Feature** . . . accommodates short-bladed chisels with ease.
- **Exclusive Built-In Protractor** . . . lets the operator pre-set the proper cutting edge angle for angle sharpening.
- **Thin Motor Design** . . . provides ample clearance for grinding long stock and odd-shaped work pieces.

ROCKWELL DELTA INDUSTRIAL MACHINES

NEW ROCKWELL 6" EDGE TOOL BENCH GRINDER

**ROCKWELL
QUALITY FEATURES THAT
ARE EXCLUSIVE WITH
THE 6" EDGE TOOL
BENCH GRINDER**



Straight-Line, Micrometer In-Feed—Only Rockwell offers an Edge Tool Grinding Attachment that precision feeds the cutting tool onto the wheel in a *straight* line.

Benefits: Correct clearance angle is maintained once it is pre-set into the attachment—does not change with in-feed like pivoting-type attachments. Work set-up may be removed and inspected at any time *without* disturbing the micrometer adjustment.



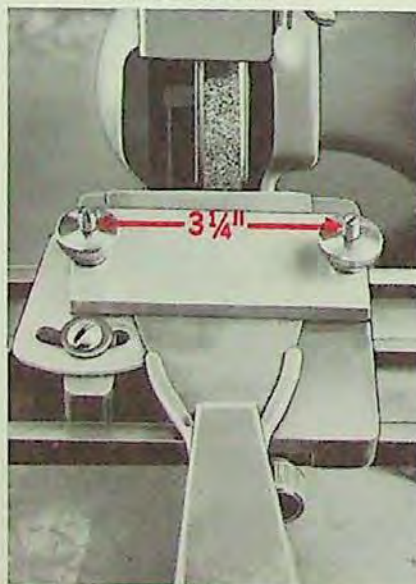
Special Design Facilitates Sharpening "Butt" Chisels—Note that the Rockwell Edge Tool Grinding Attachment contains a *special* notch in the slide that permits the sharpening of short-bladed chisels or "butts."

Benefit: Only Rockwell offers this special design feature which permits the clamping of "butts" such as wood chisels which otherwise would have to be sharpened free-hand. This feature cuts costs, too, because long-bladed cutting tools can be sharpened, even after the blade has been considerably ground away.



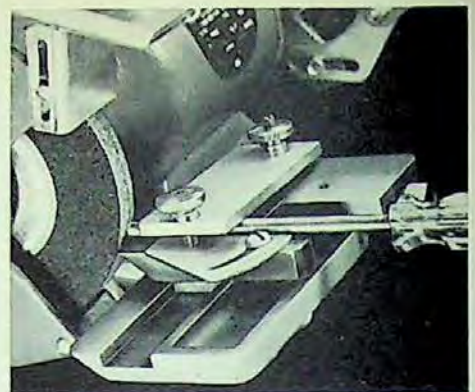
Protractor Makes Angle Grinding Easy—The Rockwell Edge Tool Grinding Attachment includes an angle plate that permits *pre-setting* the proper cutting edge angle when sharpening special cutting tools like wood skewers.

Benefit: Only Rockwell enables you to precision grind the exact compound cutting edge angle perfectly every time. This not only saves time but tools are not ground away unnecessarily due to mistakes by the operator.



Big Capacity—Edge Tool Grinding Attachment accommodates edge tools up to 3 1/4" wide.

Benefit: Unlike smaller capacity competitive models, with Rockwell's Edge Tool Grinder you can sharpen extra wide cutting tools like cabinet scrapers, paint scrapers etc.—up to a full 3 1/4" width.



Handy Wheel Dressing Feature—Only the Rockwell Edge Tool Grinding Attachment holds and feeds the Diamond-Pointed Wheel Dresser at exactly the proper negative rake angle.

Benefit: Wheels are quickly and properly dressed, assuring *perfect* sharpening of edge type cutting tools, even by beginner operators.



Thin Motor Design—Heavy duty motor is thin in design and completely enclosed.

Benefits: You have ample clearance for grinding long stock, even after wheel wear. Totally enclosed motor, which has shielded, lubricated-for-life ball bearings, keeps out harmful abrasive dust.

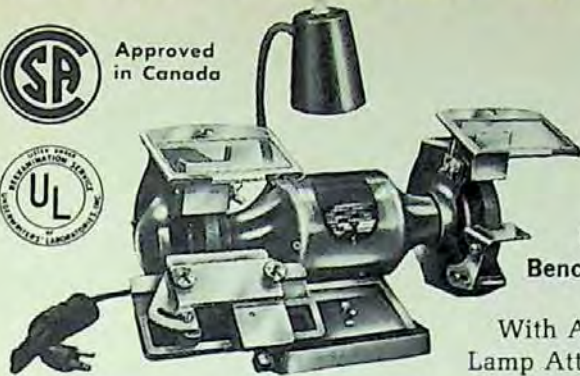
ROCKWELL QUALITY GRINDER EXTRAS

- **Rugged Motor Design**—Built for heavy duty grinding in industrial, commercial and school shops.
- **Quick-Mounting Eyeshields**—Can be mounted in a few minutes *without* requiring any disassembly of grinder.
- **Excellent Bearing Construction**—Large, lubricated-for-life ball bearings assure smooth grinder performance.
- **Wheel Guards Quickly Removed**—Enable grinder to be quickly converted for use as a buffer or polisher.
- **Precision Balanced Wheels**—Balanced to within 1/8-ounce inch to assure extra smooth running—36-grit wheel for general-purpose grinding and a special, resinoid-bonded, 54-grit wheel for extra cool operation as required for grinding edge tools.
- **Three Conductor Cord**—8-foot, jacketed type cord with 3-prong grounding type plug.
- **Lamp Mounting Feature**—Grinder base is drilled and tapped for mounting accessory Lamp Attachment.
- **Many Accessories Available**—Only Rockwell offers a complete line of accessories for increased grinder performance.

NEW ROCKWELL 6" EDGE TOOL BENCH GRINDER



Approved
in Canada



6"
Edge Tool
Bench Grinder
Shown
With Accessory
Lamp Attachment.

Versatility is the one word that best describes the Rockwell 6" Edge Tool Bench Grinder. Why? Because it has a 36-grit wheel on the right for general-purpose grinding and a special 54-grit resinoid wheel on the left for cool, precision sharpening of edge tools. The 3450 RPM motor provides the proper speed for all types of general grinding applications and the correct speed for sharpening edge tools without burning because of the special resinoid wheel that is provided. When you consider the many other built-in extras—3¼" edge tool capacity . . . straight-line, micrometer in-feed . . . special, notched grinding attachment to handle "butt" chisels . . . protractor for angle grinding . . . "thin-line" motor for extra grinding clearance . . . balanced grinding wheels . . . precision ground motor shaft . . . sealed-for-life ball bearings . . . shatterproof eyeshields . . . cast iron wheel guards . . . removable end plates . . . and adjustable tool rest, you realize the tremendous value this machine represents.

MACHINE DATA

Capacity	Grinds Edge Tools up to 3¼" Wide
Motor:	
Horsepower	½
Volts	115, 60 cycles, AC, 1 Phase
RPM	3450
Arbor	⅝" Dia., Ends Threaded ½"—20 Left and Right
Wheels:	
Size	6"; Diameter
Balance	½" Hole
Distance Between Centers	13"
Wheel Flanges: Diameter	3"
Dimensions, Overall:	
Left to Right (With Eyeshields)	23¼"
Front to Rear	8¾"
Height (Without Eyeshields)	9⅝"
Base:	
Width	7⅝"
Front to Back	6⅝"
Mounting Holes (2), Center to Center	6⅝"

STANDARD EQUIPMENT

Grinders are furnished with two wheels (one 54 grit, ½" face, and one 36 grit, ¾" face), wheel guards, spark deflectors, one tool rest, eyeshields, edge tool grinding attachment, on-and-off switch and 8-foot cord with 115 V grounding type plug. (No. 25-857 Lamp Attachment and No. 3121 Diamond Dresser not included.)

CATALOG LISTING

BASIC MACHINE

No. 23-636 6" Edge Tool Bench Grinder complete. With instructions for operating and ready to plug in and run on 115 V, 60 cycle, single phase current. 52 lbs.

BASIC ACCESSORIES

No. 25-857 Lamp Attachment for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.



No. 3121 Diamond-Pointed Wheel Dresser. For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is 9½" long with a comfortable handle. 1 lb.

CONVERT YOUR PRESENT ROCKWELL 6" BENCH GRINDER TO AN EDGE TOOL GRINDER

You can do this simply by replacing the left wheel with the special No. 23-828 Wheel and the left tool rest with the No. 23-845 Edge Tool Grinding Attachment. No. 3121 Diamond Dresser also recommended.

No. 23-828 Aluminum Oxide Wheel, ½" x 6", 54 G, Grade K, ½" hole. A specially selected, resinoid bonded wheel recommended for sharpening edge tools at the standard speed of 3450 rpm, or for other work where cool grinding is important. 2 lbs.

No. 23-845 Edge Tool Grinding Attachment. Same as supplied as standard equipment on 23-636 Grinder. 6½ lbs.

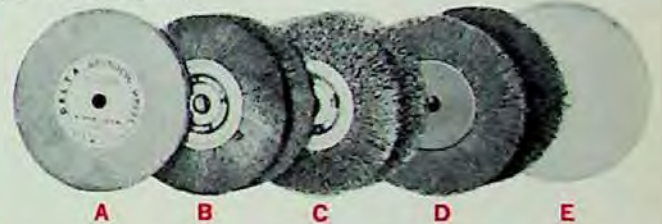
ROCKWELL QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE

No. 23-800 Eyeshields. One pair, with brackets and screws. 3 lbs.

GRINDING, BUFFING, WIRE AND FIBER WHEELS

No. 23-826 Aluminum Oxide Wheel. ¾" x 6", 36G, Grade O, ½" hole. 2½ lbs.

(A) No. 23-827 Aluminum Oxide Wheel. ¾" x 6", 60G, Grade O, ½" hole. 2½ lbs.



- (B) No. 3114 Wire Brush. 6" diameter, fine, ½" hole. 1 lb.
- (C) No. 3113 Wire Brush. 6" diameter, coarse, ½" hole. 1 lb.
- (D) No. 3115 Fiber Brush. 6" diameter, ½" hole. 1 lb.
- (E) No. 4005 Buffing Wheel. 6" diameter, ½" thick, circular stitching, ½" hole. 2 lbs.

BUFFING COMPOUNDS

No. 4004 Buffing Compound Kit. Consisting of four ¼ pound bars, with instructions. Includes one each of red rouge, white rouge, emery and tripoli bars. 19 ounces.



No. 4007 Red Rouge Buffing Compound. One pound bar, with instructions. Recommended for coloring gold, silver and other precious metals. 19 ounces.

No. 4008 White Rouge Buffing Compound. One pound bar, with instructions. Recommended for cutting down and coloring stainless steel, chromium, nickel plate, brass, aluminum and plastics. 19 ounces.

No. 4009 Emery (Black) Buffing Compound. One pound bar, with instructions. Recommended for coarse polishing to remove rust, scale, scratches and burrs from iron, steel and other hard metals. 19 ounces.

No. 4010 Tripoli (Brown) Buffing Compound. One pound bar, with instructions. Recommended for cutting down and coloring of aluminum, brass, copper, pewter, plastics, hard rubber, animal horn and wood. 19 ounces.

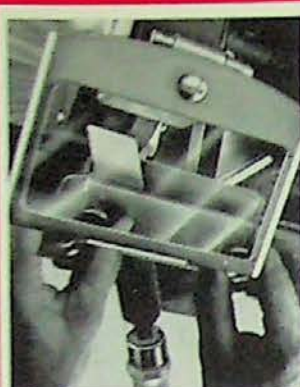
ONLY THE ROCKWELL 6" EDGE TOOL BENCH GRINDER CAN DO SO MANY JOBS SO WELL!



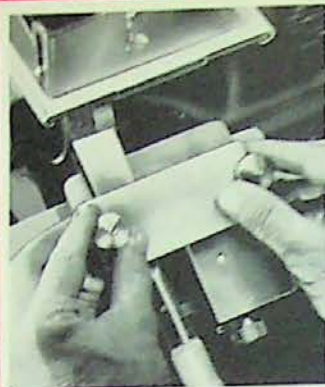
Putting an absolutely square, new edge on a screw driver is a simple operation with the Rockwell Edge Tool Grinder.



The ability to tilt the attachment to any angle, then feed in on a straight line results in correct sharpening of plane irons every time.



With the aid of the built-in angle plate you can pre-set the exact cutting edge angle required, then sharpen tools like this wood turning chisel easily and quickly.



Tools such as this wood chisel, are clamped so that they are perfectly square and held at the proper angle. Work may be removed and checked without disturbing the micrometer adjustment.

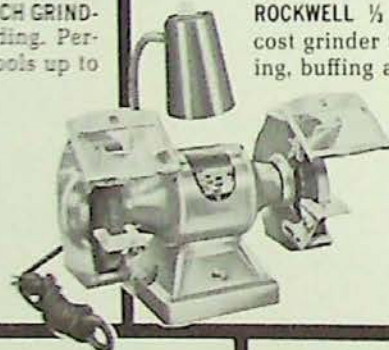


Short-bladed tools such as this putty knife can be sharpened in seconds because of the attachment's special, notched design and micrometer in-feed.

See the Complete Rockwell Delta Quality Grinder Line Today!



ROCKWELL 6" EDGE TOOL BENCH GRINDER. Ideal for general grinding. Perfect for sharpening edge tools up to 2 1/4" wide.



ROCKWELL 1/2 HP 6" GRINDER. A low-cost grinder that's perfect for grinding, buffing and polishing.



Rockwell Delta 1/2 HP 6" Tool Grinder. For grinding carbide-tipped and high-speed single point cutting tools.



Rockwell Delta 1 HP 10" Grinder. Heavy duty motor and extra capacity make it excellent for every grinding or buffing job.



Rockwell Delta 1/2 HP 7" Standard Grinder. Excellent for all general purpose grinding in every shop.



Rockwell Delta 1/2 HP Long Shaft Buffer. Offers extra room for all buffing, cleaning and polishing operations.



ROCKWELL DELTA *1/2 HP Long-Shaft* BUFFER

No matter what the operation—removing rust or burrs from castings . . . polishing or coloring plastic . . . cleaning parts and pieces . . . removing tarnish and rust from guns—the Rockwell Delta Long-Shaft Buffer will more than meet your every job requirement. Actually, its uses are practically unlimited.

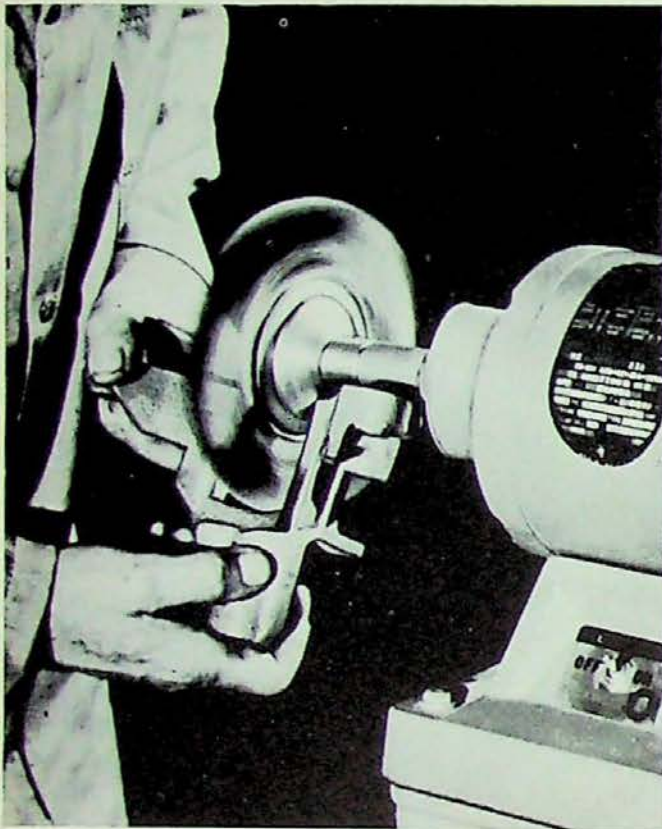
Check it, feature for feature, with any other make and you will agree that it is the buffer for you!



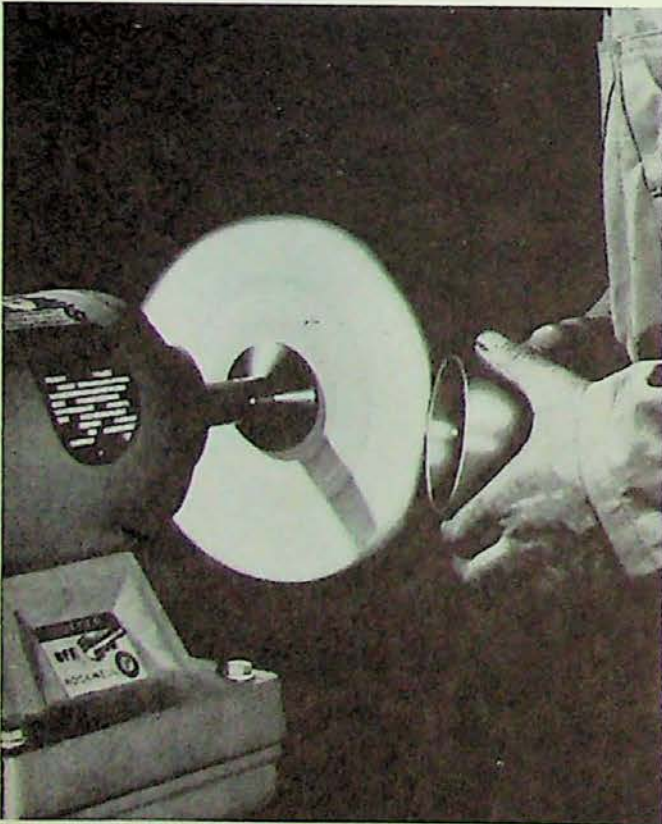
ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA 1/2 HP LONG-SHAFT BUFFER

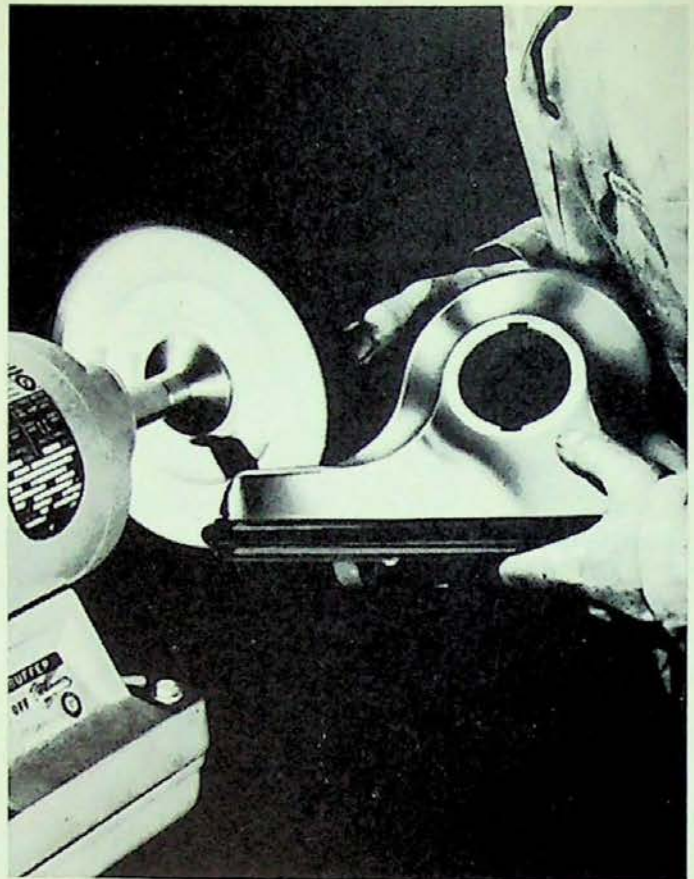
**DELTA QUALITY FEATURES
THAT ASSURE EFFICIENT PERFORMANCE
YEAR AFTER YEAR!**



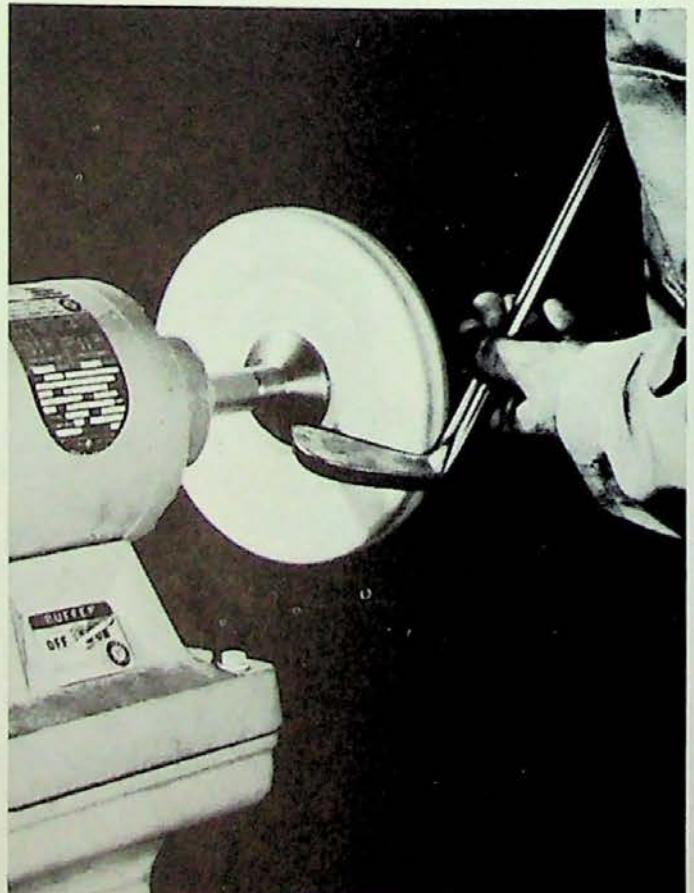
In Industry—Oval end bell hubs and extra long shafts facilitate the removal of rust and burrs from odd-shaped castings and parts.



In commercial shops—Plastic manufacturers find the Rockwell Delta Long-Shaft Buffer an excellent unit for turning down, polishing and coloring plastic pieces and components.



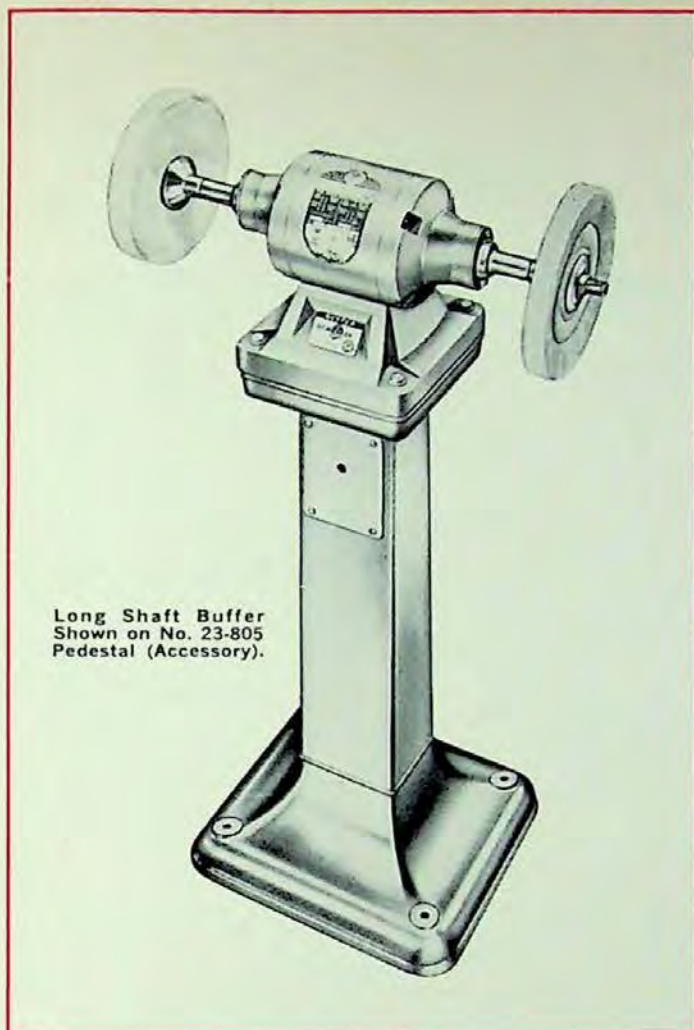
In repair shops—Appliance shops appreciate the extra amount of clearance between the motor and the buffing wheel when cleaning and polishing bulky items like sweeper housings.



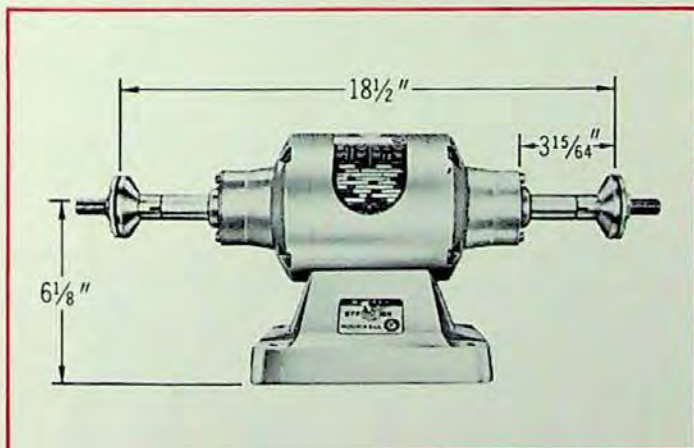
In specialty and "pro" shops—The Rockwell Delta Buffer is ideal for removing rust and tarnish from golf clubs, guns, etc., to provide a factory-new surface in just minutes.

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA 1/2 HP LONG-SHAFT BUFFER



Long Shaft Buffer
Shown on No. 23-805
Pedestal (Accessory).



A precision-built machine, this husky buffer will perform efficiently year after year, even under the most demanding shop conditions.

Check its Delta quality construction and you will agree that it provides all the right features to let you do more!

- Unique oval end bell hubs and the extra long shafts which extend $3\frac{15}{64}$ " from bearing seal to wheel flange provide more room for handling large or oddly shaped work pieces.
- Slim designed, "Thin-Line" motor and extended shafts assure ample clearance for buffing long stock. Totally enclosed motor incorporates double sealed ball bearings, plus an extra seal to keep out harmful dust.
- Capacitor start, 115/230V, single phase motor requires low starting current. It won't dim lights like split-phase motors.

MACHINE DATA

Horsepower	.....	1/2
Shaft:		
Diameter	.....	$\frac{5}{8}$ "
Extends beyond flange	.....	$2\frac{1}{2}$ "
Frame Diameter	.....	$5\frac{23}{32}$ "
Distance between faces of wheel flanges	.....	$18\frac{1}{2}$ "
Distance from bearing seal to wheel flange face	.....	$3\frac{15}{64}$ "
Centerline of spindle to bottom of base	.....	$6\frac{1}{8}$ "
Diameter of wheel flange	.....	$2\frac{1}{2}$ "
Overall Dimensions:		
Base	.....	$8\frac{1}{2} \times 8\frac{1}{2}$ "
Depth	.....	11"
Width	.....	$23\frac{1}{2}$ "
Height	.....	$13\frac{3}{4}$ "

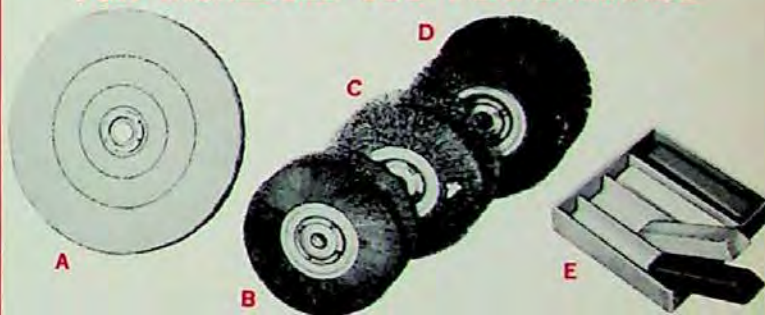
CATALOG LISTING

NO.	TYPE	MOTOR	SPEED RPM	MOTOR SWITCH	SHIP. WT.
*23-233	Bench	115/230V, 60 Cy, Sgl. Ph.	3450	Toggle	48
*23-234	Bench	115/230V, 60 Cy, Sgl. Ph.	1725	Toggle	48
‡23-241	Bench	230/460V, 60 Cy, 3 Ph.	3450	None	48
‡23-242	Bench	230/460V, 60 Cy, 3 Ph.	1725	None	48
‡23-239	Bench	208 V, 60 Cy, 3 Ph.	3450	None	48
‡23-243	Bench	208 V, 60 Cy, 3 Ph.	1725	None	48

*Single phase models are wired for 115V operation and include on-and-off switch with 115V 8-foot grounding cord and 3-prong plug.

‡Use No. 49-671 Push Button Switch, 49-838 Manual Starter or 49-665 Magnetic Starter. Integral Push Button Switch 49-842 or Remote Control Push Button Switch 49-672 is required with the magnetic starter. Specify buffer catalog number and voltage when ordering starter.

DELTA QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE



No. 23-805 Pedestal, cast iron, 26" high. Base is 14" front to back and 16" left to right. 67 lbs.

(A) No. 23-825 8" Buffing Wheel for $\frac{5}{8}$ " arbor, $\frac{3}{4}$ " face, 48 ply, fine muslin, cushion type with three circles of lock-stitched sewing. Includes one pair of toothed flanges for $\frac{5}{8}$ " arbor and instructions for use. A professional quality, general purpose buff recommended for light cutting down and for finish coloring. 1 lb.

(B) No. 1236 Wire Brush, 6" diameter, fine, $\frac{5}{8}$ " hole. 1 lb.

(C) No. 1237 Wire Brush, 6" diameter, medium, $\frac{5}{8}$ " hole. 1 lb.

(D) No. 1238 Wire Brush, 6" diameter, coarse, $\frac{5}{8}$ " hole. 1 lb.

No. 4007 Red Rouge Buffing Compound, one pound bar, with instructions. Recommended for coloring gold, silver and other precious metals. 19 oz.

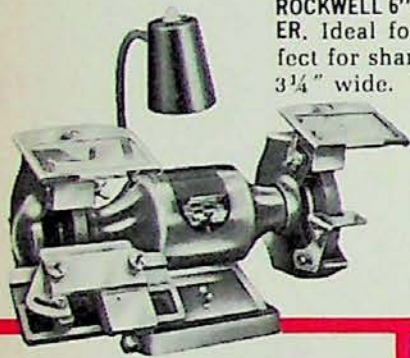
No. 4008 White Rouge Buffing Compound, one pound bar, with instructions. Recommended for cutting down and coloring stainless steel, steel, chromium, nickel plate, brass, aluminum and plastics. 19 oz.

No. 4009 Emery (black) Buffing Compound, one pound bar, with instructions. Recommended for coarse polishing to remove rust, scale, scratches and burrs from iron, steel and other hard metals. 19 oz.

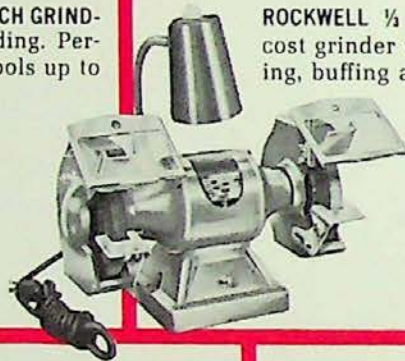
No. 4010 Tripoli (brown) Buffing Compound, one pound bar, with instructions. Recommended for cutting down and coloring of aluminum, brass, copper, pewter, plastics, hard rubber, animal horn and wood. 19 oz.

(E) No. 4004 Buffing Compound Kit, four $\frac{1}{4}$ pound bars, with instructions. Includes one each of Red Rouge, White Rouge, Emery and Tripoli bars. 19 oz.

See the Complete Rockwell Delta Quality Grinder Line Today!



ROCKWELL 6" EDGE TOOL BENCH GRINDER. Ideal for general grinding. Perfect for sharpening edge tools up to 3/4" wide.



ROCKWELL 1/2 HP 6" GRINDER. A low-cost grinder that's perfect for grinding, buffing and polishing.

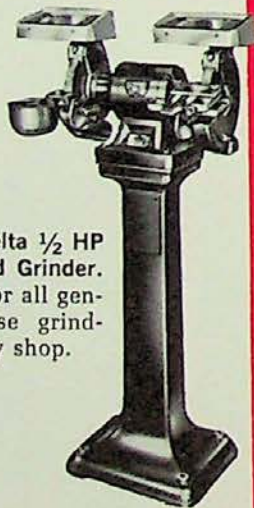


Rockwell Delta 1/2 HP 6" Tool Grinder. For grinding carbide-tipped and high-speed single point cutting tools.

Rockwell Delta 1 HP 10" Grinder. Heavy duty motor and extra capacity make it excellent for every grinding or buffing job.



Rockwell Delta 1/2 HP 7" Standard Grinder. Excellent for all general purpose grinding in every shop.

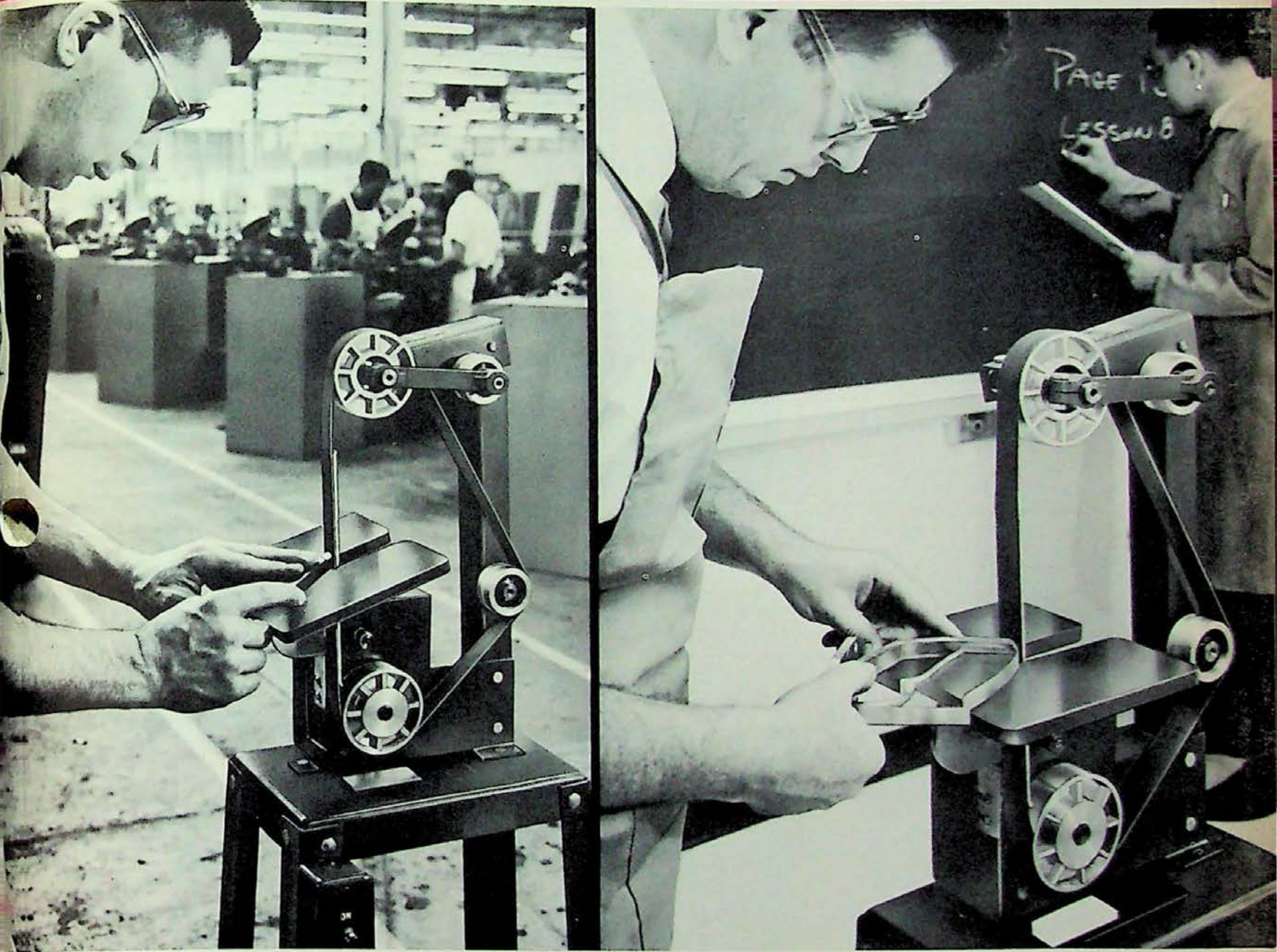


Rockwell Delta 1/2 HP Long Shaft Buffer. Offers extra room for all buffing, cleaning and polishing operations.



World's Most Versatile Finishing Machine...

ROCKWELL DELTA SANDER / GRINDER

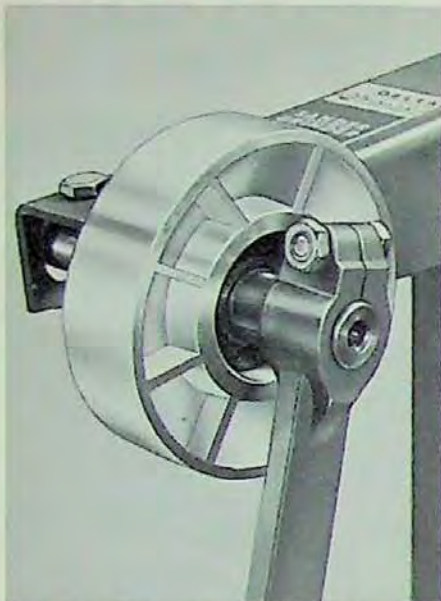


When it comes to versatility, the Rockwell Delta Sander/Grinder has no equal! Why? Because it will sand, grind, sharpen, deburr, finish, contour and polish almost any material. What's more, it will do all of these operations quickly, efficiently and with better quality. It's the ideal machine for all users — production lines, tool rooms, foundries, electronic laboratories, pattern and school shops. Investigate this **BIG VALUE** today!

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA SANDER/GRINDER

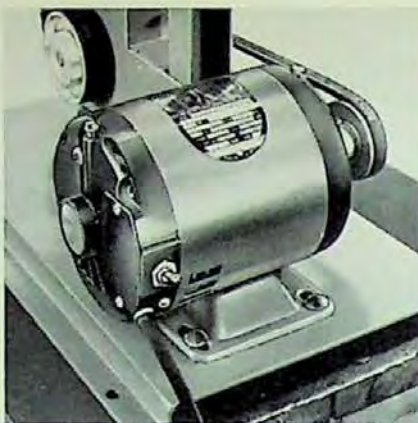
**DELTA QUALITY FEATURES
THAT GUARANTEE
UNMATCHED VERSATILITY
AND PERFORMANCE**



Specially Designed Plastic Wheels—The balanced, true running wheels are made of heat resistant CYCOLAC®, precision molded onto sealed, lubricated-for-life ball bearings. Wheel rims are crowned for easy belt tracking and made of wear resistant TEXIN®, permanently bonded to the wheel body.



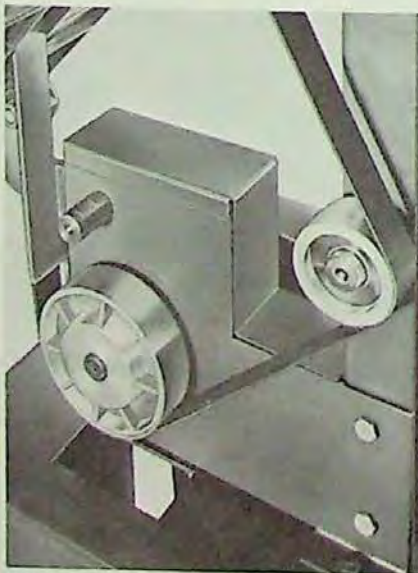
Precision Ground Table—Sturdy 7 x 8" table has a single mounting bolt for quick positioning or removal. Table tilts 10° in and 90° out for bevel work.



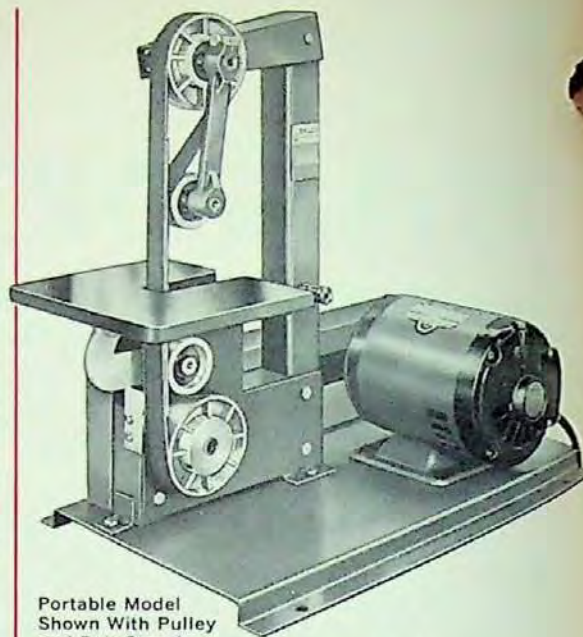
Proper Motor Used—Only Rockwell offers a heavy duty, ½ HP, 3450 RPM motor. You get the right belt speeds for efficient sanding and grinding—4000 SFPM with a standard pulley . . . 4600 SFPM with the contact wheel.



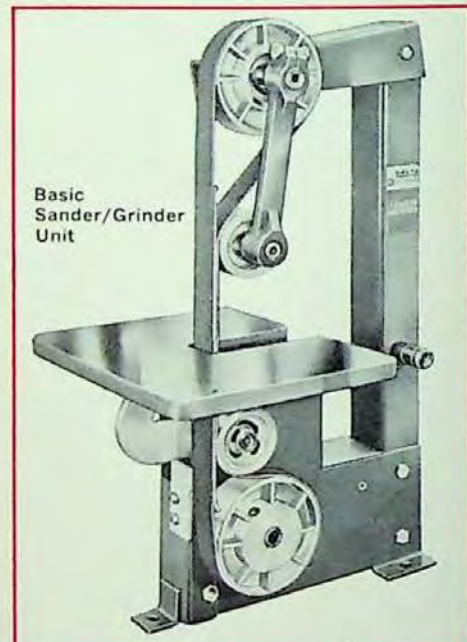
Efficient Rubber Contact Wheel—A general purpose wheel, it is recommended for a wide variety of jobs including fast removal of stock or rough finishing. Also excellent for flash grinding on soft metals.



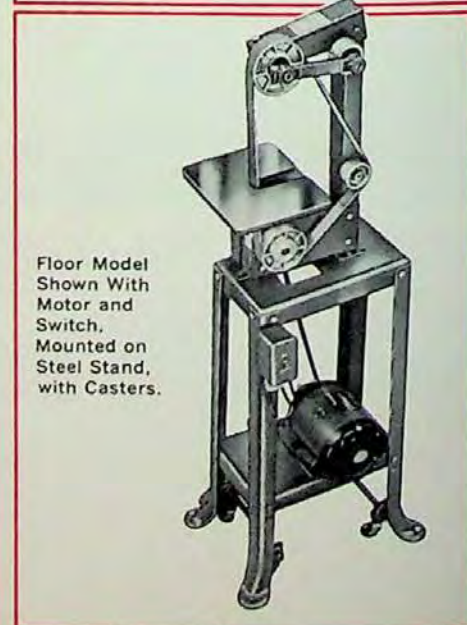
Fully Protected Arbor Shaft—Arbor shaft bearing is completely enclosed, preventing entry of harmful abrasive dust. Note also the use of husky 5/8" bearing shafts, plus sealed-for-life ball bearing construction throughout.



Portable Model Shown With Pulley and Belt Guard, and Motor, Mounted on Metal Base Plate.



Basic Sander/Grinder Unit



Floor Model Shown With Motor and Switch, Mounted on Steel Stand, with Casters.

ROCKWELL DELTA SANDER/GRINDER



Foundry . . . using contact wheel, aggressively removes flash and excess stock.



Pattern Shop . . . narrow band gets into small openings . . . finishes patterns rapidly to close tolerances.



School Shop . . . enables students to contour plastic parts perfectly.



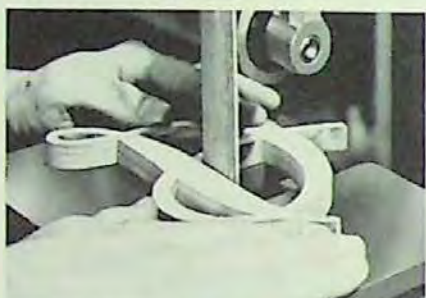
Home Workshop . . . items, such as this table leg, can be sanded in just a few minutes.



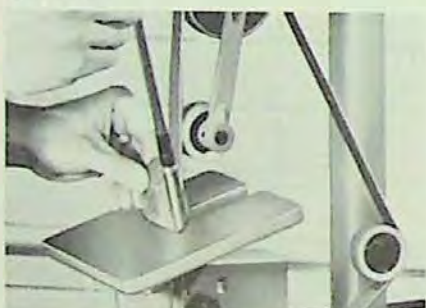
Electronics Laboratory . . . perfectly touches up parts for precision assembly.



Assembly Department . . . quickly removes sharp edges on metal stampings, even in small openings.



Sign Shop . . . after quickly threading belt, internal sanding becomes an easy operation.



Golf Pro Shop . . . quickly removes rust to make golf irons look like new.



Scissors Manufacturer . . . using narrow belt, and without platen, internal grinds rounded edges with ease.



Industrial Plant . . . rapidly deburrs sharp edge following stock cut-off with abrasive wheel.

DELTA QUALITY ACCESSORIES THAT PROVIDE INCREASED JOB PERFORMANCE

No. 41-022 Motor Pulley, 2 1/2" dia., 1/2" bore. 1/2 lb.

No. 41-023 Motor Pulley, 2 1/2" dia., 5/8" bore. 1/2 lb.

No. 41-024 Motor Pulley, 2 1/2" dia., 3/4" bore. 1/2 lb.

No. 49-105 V-Belt, 30 1/8" O.C. Used with 31-360 Base or for rear motor position on customer's bench. 1/2 lb.

No. 453 V-Belt, 47 5/8" O.C. Used with 50-106 Steel Stand. 3/4 lb.

No. 31-360 Metal Base Plate, 8 3/32 x 17". Drilled for mounting Sander/Grinder and motor, and for mounting Base Plate to work bench. 11 lbs.

No. 50-106 Open Steel Stand with shelf for motor, for Sander/Grinder. 34 lbs.

No. 31-361 Guard for Arbor Pulley. Can be used for rear or underneath motor position. Includes mounting screws and washers. 4 lbs.

No. 31-362 Rubber Contact Wheel, 4" diameter, 1" face, special bore size, with set screw, 60 durometer, with 45° standard serrations. A general purpose wheel recommended for both stock removal and rough finishing. Can be used for flash grinding on soft metals. 1 lb.

No. 31-363 Flat Platen for 1" belts. 1/4 lb.

No. 31-364 Flat Platen for 1/2" or narrower belts. 1/4 lb.

No. 31-365 Convex Platen, 1/2" radius, for 1" belts. 1/4 lb.

No. 31-366 Guard for V-Pulleys and V-Belt. Include mounting parts. Recommended for use when motor is mounted to rear on customer's bench or on 31-360 Base Plate. 4 1/2 lbs.

No. 31-370 Abrasive Belt, aluminum oxide, pkg. of 5, 1 x 42", 40 grit (coarse), cloth backing, closed coat. 1/2 lb.

No. 31-371 Abrasive Belt, aluminum oxide, package of 5, 1 x 42", 50 grit (coarse), cloth backing, closed coat. 1/2 lb.

No. 31-372 Abrasive Belt, aluminum oxide, pkg. of 5, 1 x 42", 80 grit (medium), cloth backing, closed coat. 1/2 lb.

No. 31-373 Abrasive Belt, aluminum oxide, pkg. of 5, 1 x 42", 120 grit (medium), cloth backing, closed coat. 1/2 lb.

No. 31-374 Abrasive Belt, aluminum oxide, package of 5, 1 x 42", 150 grit (fine), cloth backing, closed coat. 1/2 lb.

No. 31-375 Abrasive Belt, aluminum oxide, package of 5, 1 x 42", 220 grit (fine), cloth backing, closed coat. 1/2 lb.

No. 31-376 Abrasive Belt, aluminum oxide, pkg. of 5, 1 x 42", 320 grit (extra fine), cloth backing, closed coat. 1/2 lb.

No. 49-363 Retractable Caster Set for 50-106 Steel Stand. 11 lbs.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA METAL DUST COLLECTOR and other Cost-Saving Equipment

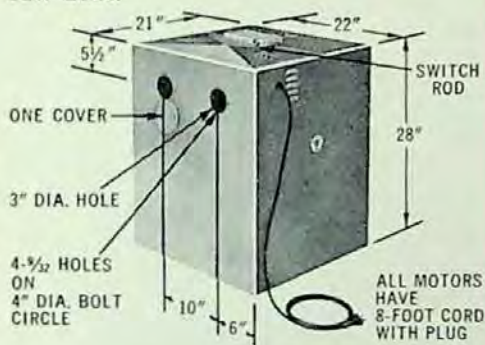
METAL DUST COLLECTOR SAFEGUARDS HEALTH, PROTECTS MACHINERY

Pressed steel cabinet is strong and husky . . . large door at back provides quick access to filter, door at top permits inspection of motor. Efficient, squirrel-cage fan moves 350 cubic feet of air per minute, develops static suction of 3 inches of water. The 1/3 HP, lubricated-for-life ball bearing motor is in a separate compartment, away from harmful dust. Fireproof, cleanable filter is easily removed for cleaning. Overall dimensions: height 28", depth 21", width 22".

Unit is ideal for grinding, polishing, buffing and other operations where dust must be efficiently collected to protect workers' health, also keeps harmful dust away from expensive machinery.

A self-contained, portable unit, it collects both fine and coarse dust and particles. Openings are so located that it can be attached to all types of abrasive units.

NOTE: This Dust Collector is not suitable for collecting wood shavings and saw dust.



DUST COLLECTORS

For Single Phase Operation

No. 49-520 1/3 HP, 115/230 V, 60 cy, 3450 rpm. Includes on-and-off switch, switch rod, 115 V 8-foot cord and 3-prong grounding type plug, mounted and wired. 120 lbs.

For 3 Phase Operation

No. 49-527 1/3 HP, 230/460 V, 60 cy, 3450 rpm. Includes 3-pole on-and-off switch, switch rod and 8-foot 4-conductor grounding type cord, wired to switch for 230 V. Less plug. 120 lbs.

ACCESSORIES FOR DUST COLLECTORS

No. 49-529 Extra Standard Filter. 8 lbs.
No. 49-531 Filter Pad Holder with two expanded Filter Pads. 7 lbs.

When ordering Dust Collector, remember to order proper Attachment Package listed below.

ATTACHMENT PACKAGES (Include Necessary Connection Fittings and Hoses)

No. 20-838 12" Cut-Off Machine Attachment. 12 1/4 lbs.

No. 23-802 Standard Grinder Attachment. 8 lbs.

No. 24-819 Toolmaker Grinder Attachment. 19 lbs.

No. 31-803 Disk Abrasive Finishing Machine Attachment, 12 lbs.

No. 31-681 Attachment for Disc Unit of Combination Belt and Disc Finishing Machine. 12 lbs.

No. 31-856 Attachment for 6" Belt Abrasive Finishing Machine and for Belt Unit of Combination Belt and Disc Finishing Machine. 7 lbs.

No. 50-141 Attachment Package for Metal Dust Collector. Used with 12" Abrasive Disc Finishing Machine when mounted on Totally Enclosed Steel Stand No. 50-126. Includes 3" hose 22" long, adapter funnel for machine, two hose flanges and two hose clamps.

AVAILABLE CONNECTION FITTINGS

No. 49-533 Flexible Rubber Hose, 2 5/16" I.D. x 20" long. 2 lbs.

No. 49-534 Flexible Rubber Hose, 3" I.D. x 22" long. 2 lbs.

No. 49-535 Flexible Rubber Hose, 3" I.D. x 48" long. 5 lbs.

No. 49-538 Flange for 2 5/16" hose, with mounting screws and washers. 2 1/2 lbs.

No. 49-539 Flange for 3" hose, with mounting screws and washers. 2 3/4 lbs.

No. 49-541 Hose Clamps adjustable to hose. 1/2 lb.

BELT GRINDING, DEBURRING AND POLISHING COMPONENTS



Build your own Grinding and Polishing Units around the Rockwell Delta No. 31-438 Arbor Head or convert your present Polishing Lathe using Set-Up Wheels, or your Bench Grinder using Grinding Wheels, to the modern Coated Abrasive Belt Method of Grinding and Polishing. With a contact wheel, backstand idler and abrasive belts, most standard floor or bench grinders and most polishing lathes or jacks can be converted at low cost.

ARBOR HEAD

Husky and engineered for long life, it can be mounted on your machine stand or on a bench top. The 5/8" arbor runs in sealed, lubricated-for-life ball bearings. Arbor shaft extends 3 1/2" out from the inner flange on either side of the head. Arbor shaft ends have a 2 1/2" ground Acme thread to accommodate contact rolls and wheels from 7/8" to 2 7/8" in width.

No. 31-438 Arbor Head, complete with dynamically balanced arbor pulley, two No. 560 drive belts, two 2 1/2" diameter flanges with nuts to fit 5/8" arbor. 31 lbs.

4" RIGHT BACKSTAND IDLER UNIT

Finest, low-cost backstand idler unit available. Suitable for either left or right side operation. Hand knob swivels drum for belt tracking and lateral adjustment is provided for accurate belt alignment. Belt tension is quickly adjusted by means of a self-locking hand knob. Convenient lever instantly releases tension for quick belt changing.

No. 31-425 Backstand Idler Unit with 4" wide by 5 3/8" dia. drum, complete with mounting bolts and instructions for changing from right-hand to left-hand set-ups. 20 lbs.

2 3/4" LEFT IDLER UNIT

No. 31-431—Similar to No. 31-425 except drum is 2 3/4" wide. Includes instructions for right-hand assembly. 20 lbs.

RUBBER CONTACT WHEEL

With this new type wheel you can obtain a better finish in less time. Furthermore, it increases the life of your grinder belts to cut costs for you. Tire may be replaced on the hub which is designed for permanent use.

No. 31-877 Rubber Contact Wheel complete. Consists of No. 31-875 Tire and No. 31-876 Hub. 12 lbs.

No. 31-875 Rubber Tire for Contact Wheel, 2 1/2" wide, 6" dia., 30-40 durometer (med. soft), with 45° standard serrations. Can be used up to 7500 sfpm. A general purpose tire for wood or metal work—stampings, die castings, forgings and contour grinding. 6 1/2 lbs.

No. 31-876 Hub for Contact Wheel. 5/8" bore, consists of bushing and washer for mounting No. 31-875 Tire and other tires with same mounting dimensions. 6 1/2 lbs.

LAYOUT PLATES FOR LAYOUT, TESTING AND INSPECTION WORK



Note the heavy ribbing of this massive plate and the clamping ledge all around the squared sides.

Rockwell Delta Surface Plates offer the four essentials of a 100% useful surface plate:

- (1) A true surface to start with.
- (2) A properly ribbed casting to insure that the surface stays true.
- (3) Adequate ledges at the edges of the plate for clamping purposes.
- (4) Edges that are machined square with one another and the surface.

Low cost Rockwell Delta Surface Plates have a corner to corner out of flat tolerance of + or - .0005. They can easily and economically be made into precision plates simply by scraping to a master plate or each other.

No. 640—Size 15" x 18" x 3". 63 lbs.

No. 641—Size 16" x 22" x 3". 71 lbs.

ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA COOLANT EQUIPMENT

GET MORE MACHINE FLEXIBILITY WITH ROCKWELL COOLANT EQUIPMENT

Here's the perfect answer for big cost savings on your production jobs. Rockwell Coolant Equipment gives you these important benefits:

1. Lubricates the cut—maintains feeds and speeds with less horsepower.
2. Cools the work and cutting tool—prevents overheating or discoloration of work.
3. Flushes chips away from the work—assures a higher quality finish.

ROCKWELL 16-GALLON COOLANT SYSTEM

Big capacity ¼ HP pump provides a full flood of coolant making it ideal for use with Metal Lathes, Multiple Spindle Drill Presses, Cut-Off Machines and many other applications. Check these built-in Rockwell Quality Features:

- Adjustable—can be shut down to mere trickle without damage.
- Highly adaptable—flat machined flange permits use on most wet machine tools.
- Motor fully enclosed—not affected by moisture or caustic solutions.
- Double-sealed, lubricated-for-life ball bearings.
- Drilled and tapped for standard pipe fittings.
- Six-bladed impeller connected directly to motor shaft.
- 16-gallon tank has settling basin and wire mesh filter to keep coolant free from chips.



16-Gallon Coolant System shown with Pump, Cord, Switch and Tank.

For Single Phase Operation

No. 49-610 Coolant Pump complete with ¼ HP, 115 V, 60 cy, AC, 1725 rpm motor. 68 lbs. Order 49-618, 49-312 separately.

No. 49-611 Coolant Pump complete with ¼ HP, 230 V, 60 cy, AC, 1725 rpm motor. 68 lbs. Order 49-618, 49-313 separately.

For 3 Phase Operation

No. 49-619 Coolant Pump complete with ¼ HP, 230/460 V, 60 cy, AC, 1725 rpm motor. 68 lbs. Order 49-618, 49-838 separately.

ACCESSORIES

No. 49-618 Tank, 16-gal. capacity, 15 7/8 x 25 3/4 x 11" high, required with any of above pumps. 38 lbs.

No. 49-312 On-and-off Toggle Switch, 2-pole, 1 1/2 HP, AC-DC, 115-230 V. In-

cludes 115 V 8-foot cord, 3-prong grounding type plug and clamp. 2 lbs.
No. 49-313 On-and-off Toggle Switch, 2-pole, 1 1/2 HP, AC-DC, 115-230 V. Includes 230 V 8' cord, 3-prong grounding type tandem plug and clamp. 2 lbs.

No. 49-671 Push Button Switch for manual on-and-off control of three phase motor, where overload is not desired. 3 lbs.

No. 49-838 Starter, manual, 3-phase. Provides overload protection. Specify coolant pump no. and voltage. 6 lbs.

COOLANT LINE ASSEMBLY FOR DRILL PRESSES

Recommended for single or multiple spindle drill presses or any machine with a round column from 2 3/4" to 4" in diameter.

No. 17-802 Coolant Line Assembly consisting of Nozzle, Valve, Column Mounting Clamp and Flexible Hose Assembly for providing coolant feed and connection to piping (coolant piping, table clamps not furnished). 3 lbs.



No. 49-620 5-Gallon Coolant System.

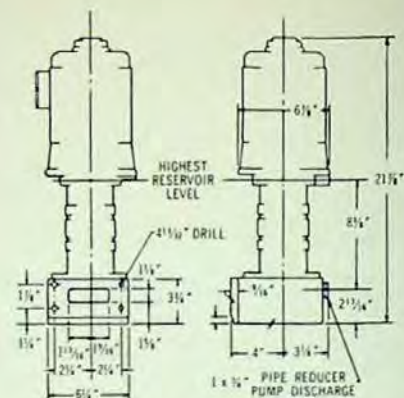
NEW, LOW-COST ROCKWELL 5-GALLON COOLANT SYSTEM

Rockwell's new 5-Gallon Coolant System is well suited for use with Single Spindle Drill Presses having a column from 2 3/4" to 4" in diameter, also Metal Lathes, Hand Screw Machines and Surface Grinders.

The system incorporates these Rockwell Quality Features:

- Pump is hermetically sealed, has lifetime lubrication, a nylon impeller and double "X" viton double lip seals. Equipped with a U.L. approved, 3-conductor, grounding type cord and plug.
- Flow of coolant can be regulated to any amount desired or completely shut off, without harmful effects.
- Double protection is provided against chips recirculating and causing a bad finish on the work. A screen traps the larger particles. A baffle in the tank provides a settling basin.

No. 49-620 5-Gallon Coolant System for 115 V, 60 cycle, single phase. Includes submersible pump with ¼" male outlet, 5-gallon tank with screen and baffle, 6-foot plastic hose, flexible pipe with nozzle and valve, and 6-foot 3-conductor power cord with 3-prong 115 V grounding plug. The universal clamp with garter spring may be instantly snapped onto any round drill press column from 2 3/4" to 4" in diameter. It firmly holds and points nozzle exactly at hole being drilled. Does not include drain hose from machine table to coolant tank. 17 1/2 lbs.



COOLANT FLOW—16-GAL. SYSTEM

Coolant Flow in Gal. Per Hour with a 1725 RPM Motor at 70° F. (1425 RPM Motor About 1/6 Less)

HEAD IN FEET	PIPE DIA.	COOLANT		
		WATER AND SOLUBLE OIL	LARD OIL	SAE 20 MACHINE OIL
		FLOW IN GAL. PER HOUR		
0	3/4"	1200	720	600
	1"	1920	1200	1200
5	3/4"	840	480	360
	1"	1620	900	900
10	3/4"	420	—	—
	1"	1020	—	—

14 ft. Maximum Lift with water. Discharge for water or soluble oil solution applies to all solutions of similar viscosity and density. Higher viscosity and density, less flow.

COOLANT FLOW—5-GAL. SYSTEM

Using Water Soluble Oil or Light Cutting Oil

HEAD IN FEET	GALLONS PER HOUR	STATIC PRESSURE
1 FT.	205	3.2 PSI
3 FT.	168	3.2 PSI
4 FT.	142	3.2 PSI
5 FT.	120	3.2 PSI
6 FT.	78	3.2 PSI
7 FT.	35	3.2 PSI

COOLANT PAN FOR ROCKWELL CUT-OFF MACHINES

The Coolant Pan, used with 16-Gallon Coolant System, is recommended for your Rockwell Delta Cut-Off Machine for efficient wet abrasive cutting.

Order the proper ¼ HP pump, 16-gallon tank and switch. This ruggedly constructed Coolant Pan features a nozzle that swivels by means of a convenient handle to allow for a full flow of coolant on the blade, even when making miter cuts.

No. 20-840 Coolant Pan complete with spray nozzle, splash control accessories, deflector plate and bracket. Piping, control valve and reducer from 3/4" to 1/2" not furnished. 148 lbs.



No. 20-840 Coolant Pan.

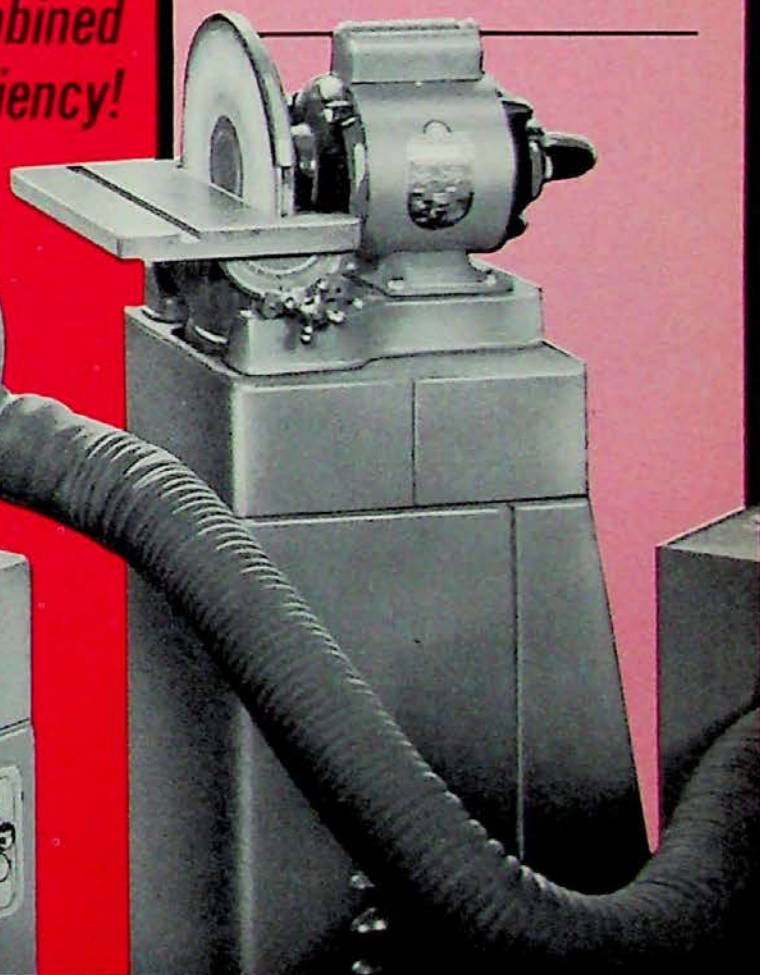
ROCKWELL DELTA 6" Abrasive Belt FINISHING MACHINE

*Offers Exceptional
Versatility Combined
with High Efficiency!*

▪ Built to do finishing, mitering, deburring, chamfering, on metal, wood, plastics, leather, rubber, ceramics, compositions and other materials.

▪ A level, horizontal work surface is always available—with or without the tilting table—because the sanding belt can be adjusted in seconds from vertical to horizontal, or locked at any angle in between.

▪ Platen can be removed for "strapping" or finishing of contours where a loose belt is required.



ROCKWELL DELTA 6" ABRASIVE BELT FINISHING MACHINE

**DELTA QUALITY FEATURES
THAT SPEED UP
PRODUCTION
ON EVERY JOB!**



New Platen, with a hard chrome plated wear surface, maintains original machine accuracy much longer. Special surface also reduces friction between platen and belt (less drag on motor). Platen may be removed for contour sanding with a slack belt.



Here's a close-up of the **Heavy Trunnion** that carries the tilting table. Also shown is the swinging stop link and adjustable stop screws. Note scale and adjustable pointer for accurate readings.



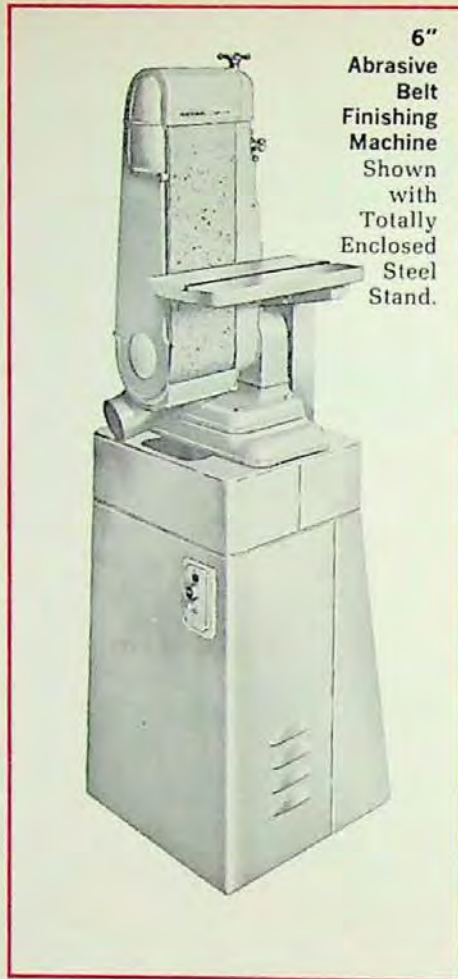
View of **1403 Back Stop** and its bracket. Back stop is used for finishing flat work—prevents work from being carried along with belt.



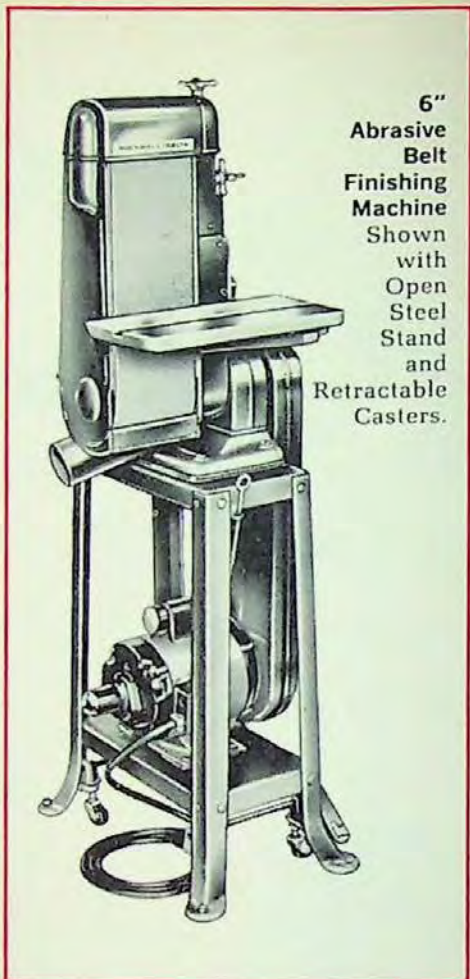
Belt Operates Vertically, Horizontally or at Any Degree in between. Thus, work table can remain in level position while belt is tilted to give a 45° or other angle finish.



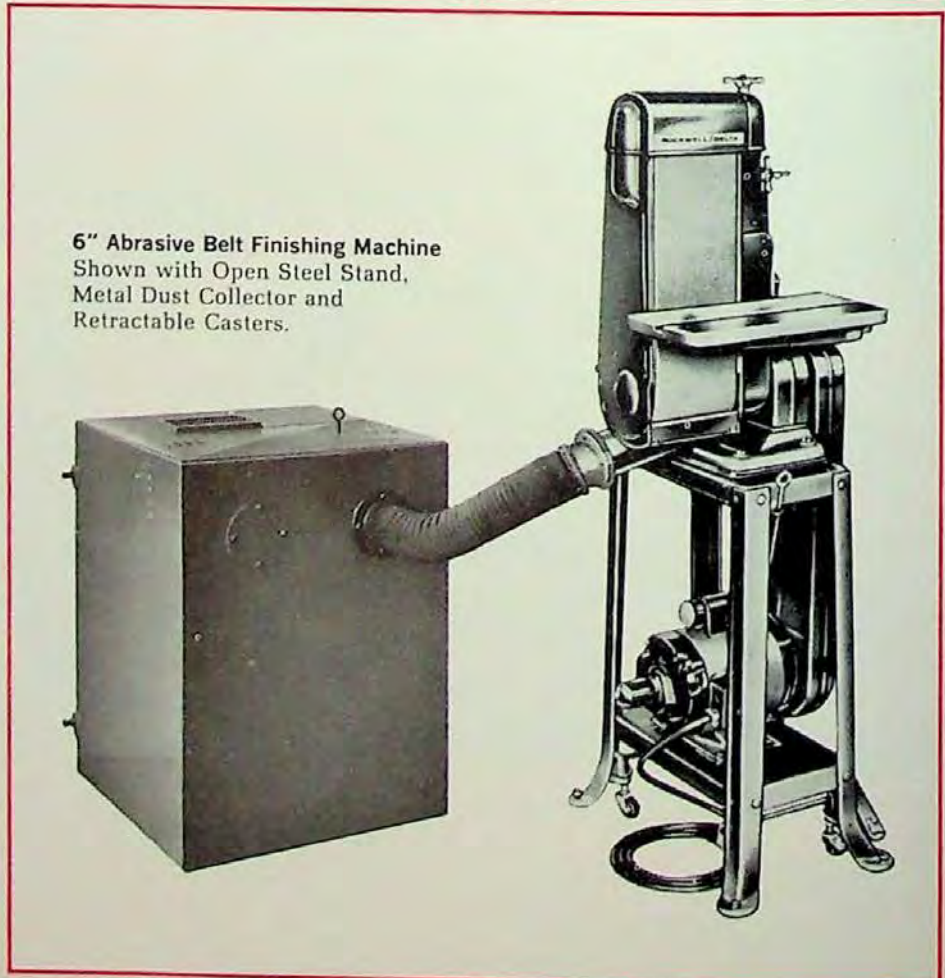
Convenient Wood Fence No. 1410 can be used to support large pieces. Adjustable deflector at end of hood catches dust and carries it off through dust spout. Can be attached to shop dust collecting system.



**6"
Abrasive
Belt
Finishing
Machine
Shown
with
Totally
Enclosed
Steel
Stand.**



**6"
Abrasive
Belt
Finishing
Machine
Shown
with
Open
Steel
Stand
and
Retractable
Casters.**



**6" Abrasive Belt Finishing Machine
Shown with Open Steel Stand,
Metal Dust Collector and
Retractable Casters.**

ROCKWELL DELTA 6" ABRASIVE BELT FINISHING MACHINE

Here is an ideal unit for the machine shop, pattern shop, experimental department, assembly department, cabinet shop and furniture factory. It does finishing, mitering, deburring, chamfering and other operations in both wood, metal, plastics and other materials.

Outstanding features include: sealed, lubricated-for-life ball bearings; adjustable dust deflector and dust spout on lower guard; completely enclosed or guarded drums and belt for utmost safety; adjustable platen that can be removed for freehand finishing of odd shapes; removable upper guard for contour finishing on idler drum.

MACHINE DATA

Overall Dimensions:

Floor Model with Totally Enclosed Steel Stand:

Vertical: Front to Rear.....16"
 Width....20", Height....56½"
 Horizontal: Front to Rear...28½"
 Width....20", Height....39"
 Floor Model with Open Steel Stand:
 Vertical: Front to Rear.....21"
 Width 18", Height....54"
 Horizontal: Front to Rear....28"
 Width....18", Height....36"

Table:

Size.....7¾" x 14¾"
 Tilt.....45° Out, 20° In
 Miter Gage Groove.....¾" x ¾"

Platen.....6¼" x 14¾"

Belt:

Length: Standard48"
 Maximum...49½", Minimum...47¾"
 Speed.....3415 FPM

STANDARD EQUIPMENT

Basic Machine includes tilting table, V-pulley, 100 grit (fine), aluminum oxide belt and guards.

CATALOG LISTING

No. 31-520 Basic Machine Without Stand: 6" Abrasive Belt Finishing Machine with 1401 tilting table, 4" arbor pulley, 1414 fine grit, aluminum oxide belt and guards. Without stand, fence, backstop, V-belt, V-belt guard, motor pulley, motor and switch. 100 lbs.

No. 31-515 Machine With Totally Enclosed Steel Stand and Belt Guard: Same as No. 31-520 except with 50-125 totally enclosed steel stand and belt guard, 49-146 65½" OC V-belt and 5" motor pulley (specify ½", ⅝" or ¾" bore). Without fence, backstop motor and switch. 154 lbs.

No. 31-505 Machine With Open Steel Stand: Same as 31-520 except with 50-406 open steel stand, 1411 belt guard, 560 58¾" OC V-belt and 5" motor pulley (specify ½", ⅝" or ¾" bore). Without fence, backstop, motor and switch rod. 132 lbs.

NOTE: Items bearing individual catalog numbers as included in 31-520, 31-515 and 31-505 can be ordered separately; see price list.

TOTALLY ENCLOSED STEEL STAND WITH BELT GUARD, MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley (⅝" bore) and V-belt Included. Totally Enclosed Steel Stands With Electricals Can Be Ordered Either With or Without the Basic No. 31-520 6" Abrasive Belt Finishing Machine.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, ¼ Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	109	49-973
	Push Button Switch and Magnetic Starter	TEFC	60-1725	115/230	122	49-974
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	126	49-975
	Push Button and Overload Switches	TEFC	60-1725	115/230	129	49-976
	Push Button Switch and Magnetic Starter	TEFC	60-1725	115/230	139	49-977
	Push Button Switch Only	TEFC	60-1725	230/460	109	49-978
Three Phase, ¼ Horsepower	Push Button and Overload Switches	TEFC	60-1725	230/460	112	49-979
	Push Button Switch and Magnetic Starter	TEFC	60-1725	230/460	121	49-980
	Push Button Switch and Magnetic Starter (w/115 V Transformer)	TEFC	60-1725	230/460	124	49-981
	Push Button Switch Only	TEFC	60-1725	230/460	111	49-982
Three Phase, 1 Horsepower	Push Button and Overload Switches	TEFC	60-1725	230/460	114	49-983
	Push Button Switch and Magnetic Starter	TEFC	60-1725	230/460	123	49-984
	Push Button Switch and Magnetic Starter (w/115 V Transformer)	TEFC	60-1725	230/460	126	49-985

NOTE: Single phase electricals will be wired for 115V, unless 230V is specified. Three phase electricals will be wired for 230V, unless 208V or 460V is specified. Power cord and plug supplied for single phase only.

Motors and motor controls for Rockwell Delta 6" Abrasive Belt Finishing Machines may be ordered unmounted. For listing, see Sections P and Q.

ACCESSORIES

No. 1401 Tilting Table, with trunnion assembly. 14 lbs.



No. 1403 Backstop, complete with bracket. 4 lbs.



No. 1410 Wood Fence, 3¼ x 17½", with brackets. 7 lbs.

No. 1411 Belt Guard With Screws. For use with 50-406 open steel stand. 8 lbs.

No. 1412 Garnet Belt for wood, 6 x 48", 80 grit, fine. 1 lb.

No. 1413 Garnet Belt for wood, 6 x 48", 40 grit, coarse. 1 lb.

No. 1414 Al. Oxide Belt for metal, 6 x 48", 100 grit, fine.

No. 1415 Al. Oxide Belt for metal, 6 x 48", 50 grit, coarse. 1 lb.

No. 41-082 Motor Pulley, 5" diameter, ½" bore. 1½ lbs.

No. 41-083 Motor Pulley, 5" diameter, ⅝" bore. 1½ lbs.

No. 41-084 Motor Pulley, 5" diameter, ¾" bore. 1½ lbs.

No. 560 V-Belt, 58¾" OC. Used with 50-406 open steel stand. ½ lb.

No. 49-146 V-Belt, 65½" OC. Used with 50-125 totally enclosed steel stand. ½ lb.

No. 50-125 Totally Enclosed Steel Stand. Includes 50-139 basic stand, 50-136 motor plate, 50-129 steel riser block, 50-130 cast iron riser block and 50-134 belt guard. 74 lbs.

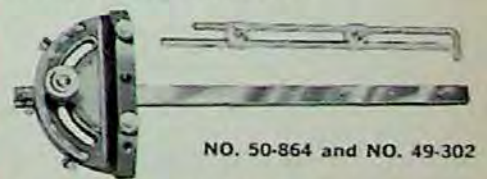
No. 50-406 Open Steel Stand, 29" high with top 8 x 16". 27 lbs.

No. 49-363 Retractable Caster Set for 50-406 open steel stand. 13 lbs.

No. 50-111 Retractable Caster Set for 50-125 totally enclosed steel stand. 13 lbs.

No. 31-856 Attachment Package for metal dust collector. Includes 3" x 22" long hose and necessary hardware. 7 lbs.

No. 49-589 Adapter for 2½" hose on Wood Vacuum Cleaners.



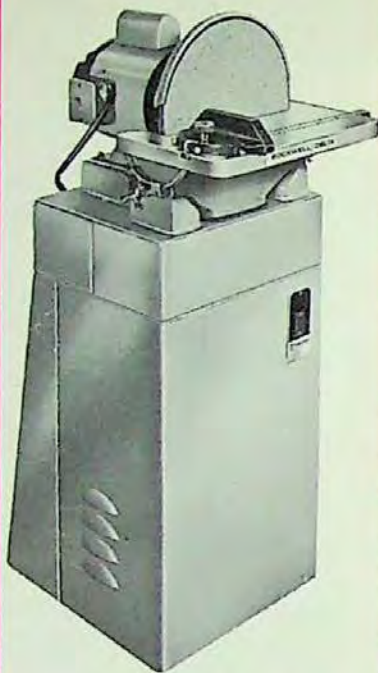
NO. 50-864 and NO. 49-302

No. 50-864 Auto-Set® Miter Gage. For straight and angle finishing. Has ¾ x ¾ x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 49-302 Stop Rods for 50-864 miter gage. ½ lb.

No. 865 Clamp Attachment for 50-864 miter gage. 2¼ lbs.

**See the
Complete
ROCKWELL
DELTA
Quality
Sander Line
TODAY!**

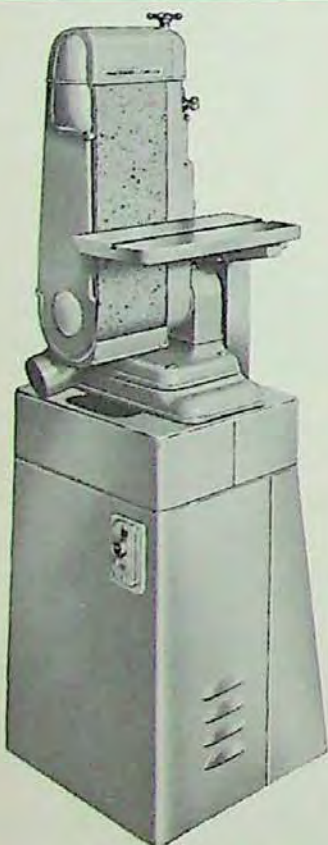


**ROCKWELL DELTA
12" ABRASIVE DISC
FINISHING MACHINE**

Fulfills every finishing need from the pattern shop to the production line on practically any type of material.

**ROCKWELL DELTA
4" BELT AND 12" DISC
FINISHING MACHINE**

Capable of performing 90% of all your finishing operations. Combination set-up saves space and reduces power costs.

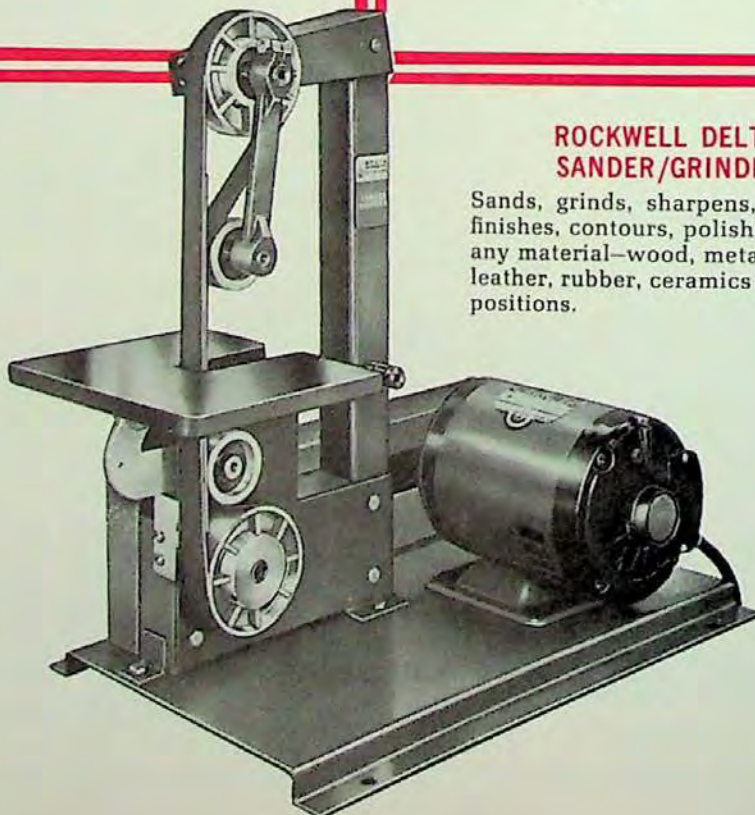


**ROCKWELL DELTA
6" ABRASIVE BELT
FINISHING MACHINE**

Operates vertically, horizontally or at any degree in between on dozens of wood, plastic, metal or other finishing jobs.

**ROCKWELL DELTA
SANDER/GRINDER**

Sands, grinds, sharpens, deburrs, finishes, contours, polishes almost any material—wood, metal, plastic, leather, rubber, ceramics and compositions.



ROCKWELL DELTA **12" Abrasive Disk** **FINISHING MACHINE**

Gives You FINE Finishes FAST!

- Built to do finishing, mitering, deburring, chamfering, on metal, wood, plastics, leather, rubber, ceramics, compositions and other materials.
- Vibration-free, true running disk provides accurate finishes on every job.
- Fulfills every finishing need for all users from the pattern shop to the production line.

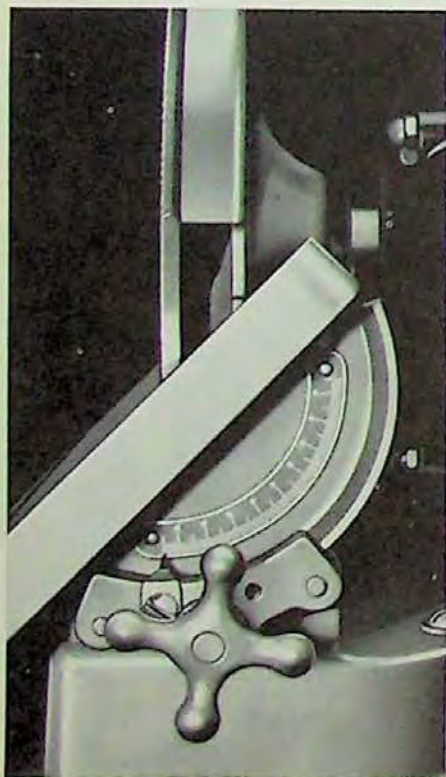


ROCKWELL DELTA 12" ABRASIVE DISK FINISHING MACHINE

**DELTA QUALITY FEATURES
THAT ASSURE QUICK,
ACCURATE FINISHING
ON EVERY JOB!**



Accurate Miters Quickly Obtained. Plain and compound miters are easily handled with the aid of the No. 50-864 Miter Gage. The wide tilt range of the table, combined with the built-in accuracy of the 12" Abrasive Disk Finishing Machine, makes it an ideal tool for the pattern shop.



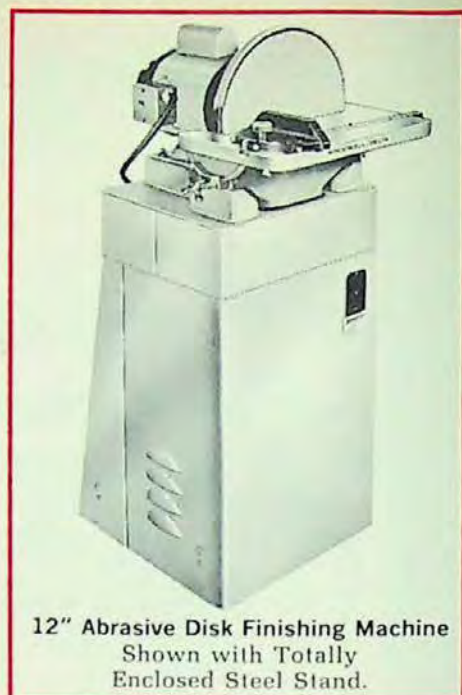
Large Miter Scales Plus Positive Locks on Table. A handy lock knob on either side of the table locks it securely at any angle. An easy-to-read scale shows exact degree of tilt desired.



Job Versatility Practically Unlimited. With the Rockwell Delta 12" Abrasive Disk Finishing Machine, all kinds of deburring, grinding and finishing can be done quickly and easily—free-hand curved grinding, finishing with jigs, angle grinding, miter finishing.



Husky Table Has Rigid Table Supports. The large, scientifically ribbed table is mounted on two widely spaced trunnions for maximum support and rigidity. Convenient dust chute carries off dust to the rear.



12" Abrasive Disk Finishing Machine
Shown with Totally
Enclosed Steel Stand.



12" Abrasive Disk Finishing Machine
Shown with Open Steel Stand
and Retractable Casters.



12" Abrasive Disk Finishing Machine
Shown with Totally Enclosed
Steel Stand and Metal Dust Collector.

ROCKWELL DELTA 12" ABRASIVE DISK FINISHING MACHINE

This top quality Rockwell Delta finishing machine is designed for all types of finishing work on woods, metals, plastics, compositions and other materials. It's easily moved into or out of the production line or anywhere in the shop where fast, accurate finishing is required.

Rockwell Delta quality features include—fully machined, normalized disk that runs vibration-free and assures proper adhesion of abrasive disks . . . disk mounted to end of motor shaft for powerful, accurate operation . . . scientifically ribbed table supported by widely spaced trunnions. These and other big features make this machine extremely popular in hundreds of installations from the pattern shop to the factory production line!

MACHINE DATA

Overall Dimensions:

Floor Model on Totally Enclosed Steel Stand 23" Wide, 42 1/2" High, 23 3/8" Front to Rear
 Floor Model on Open Steel Stand 19" Wide, 45" High, 23" Front to Rear

Table:

Size 9 3/4" x 16 1/4"
 Tilt 45° Out, 20° In
 Miter Gage Groove 3/8" x 3/4"
 Disk 12" Diameter with Flanged Hub, 3/4" Bore

Tilt Gage Has Adjustable Pointer

CATALOG LISTING

No. 1426 Basic Machine Without Stand: 12" Direct Motor Drive Abrasive Finishing Machine with tilt table. Without motor and switch. 58 lbs.

No. 31-110 Basic Machine With Totally Enclosed Steel Stand: 12" Direct Motor Drive Abrasive Disk Finishing Machine with 50-126 totally enclosed steel stand, tilting table and one 12" diameter, 50 grit, medium, garnet disk for wood. Without motor and switch. 103 lbs.

No. 31-105 Basic Machine With Open Steel Stand: Same as 31-110 except with 50-432 open steel stand. Without motor and switch. 94 lbs.

MOTORS AND CONTROLS FOR SINGLE PHASE OPERATION

No. 82-710 Motor, 1/2 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord and 3-prong grounding type plug. 52 lbs.

No. 82-910 Motor, 3/4 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord and 3-prong grounding type plug. 50 lbs.

FOR 3 PHASE OPERATION

No. 86-529 Motor, 1/2 HP, 230/460 V,

AC, 60 cy, 1725 rpm. Without switch or power cord. 44 lbs.

No. 86-759 Motor, 3/4 HP, 230/460 V, AC, 60 cy, 1725 rpm. Without switch or power cord. 42 lbs.

No. 86-909 Motor, 1 HP, 230/460 V, AC, 60 cy, 1725 rpm. Without switch or power cord. 56 lbs.

No. 49-671 Push Button Switch for manual on-and-off control where overload protection is not desired. Mounting Bracket is not required. 3 lbs.

No. 49-838 Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.

No. 49-665 Starter, Magnetic. For 60 cy, 208-230/460 V. Provides low-voltage, no-voltage and overload protection. Does not include No. 49-842 start-stop control station. Specify motor number and voltage when ordering. 11 1/2 lbs.

No. 49-842 Magnetic Starter Control Push Button Switch Kit. Provides integral start-stop control station for 49-665 Starter. 1 lb.

No. 49-848 Bracket for mounting above starters (except 49-671) on open steel stand. 3 lbs.

CONVENIENT ALL-INCLUSIVE NUMBERS FOR SINGLE PHASE OPERATION

No. 31-111 12" Direct Motor Drive Abrasive Disk Finishing Machine complete. Includes 31-105 unit with open steel stand and 82-710 1/2 HP motor with switch. 146 lbs.

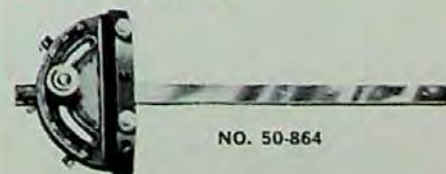
No. 31-121 12" Direct Motor Drive Abrasive Disk Finishing Machine complete. Includes 31-110 unit with totally enclosed steel stand and 82-710 1/2 HP motor with switch. 155 lbs.

FOR 3 PHASE OPERATION

No. 31-113 12" Direct Motor Drive Abrasive Disk Finishing Machine complete. Includes 31-105 unit with open steel stand, 86-529 1/2 HP motor, 49-838 starter (specify voltage) and 49-848 mounting bracket. 138 lbs.

No. 31-321 12" Direct Motor Drive Abrasive Disk Finishing Machine complete. Includes 31-110 unit with totally enclosed steel stand, 86-529 1/2 HP motor and 49-838 starter (specify voltage). 153 lbs.

ACCESSORIES



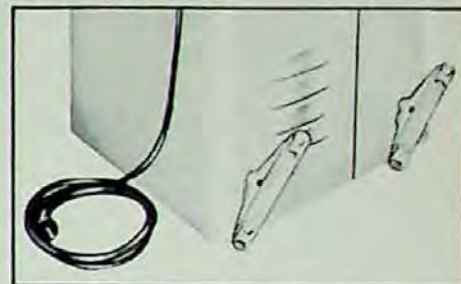
NO. 50-864

No. 50-864 Auto-Set® Miter Gage. For straight and angle finishing. Has 3/8" x 3/4" x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

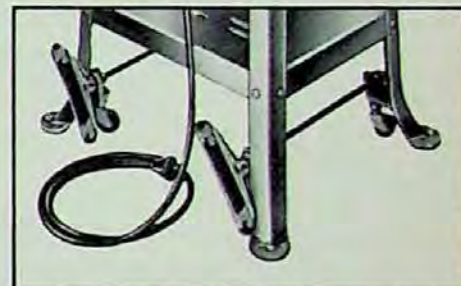
No. 1427 Garnet Disk for wood, 12" diameter, 50 grit, medium (1 1/2 doz.), 1 1/4 lbs.

No. 1428 Aluminum Oxide Disk for metal, 12" diameter, 60 grit, medium (1 1/2 doz.), 1 1/4 lbs.

No. 1430 Disk Assembly with flange and set screws. 10 lbs.



No. 50-111 Retractable Caster Set for 50-126 enclosed steel stand. Furnished with built-in levelling screws that assure a level base at all times. 13 lbs.



No. 49-362 Retractable Caster Set for 50-432 Open Steel Stand. 13 lbs.

No. 49-503 Disk Adhesive. 1 lb.

No. 49-590 Adapter for 2 1/2" hose on Wood Vacuum Cleaner when used with 12" Abrasive Disk Finishing Machine on open steel stand. 5 lbs.

No. 50-126 New, Totally Enclosed Steel Stand. Includes 50-139 basic stand and 50-129 steel riser block. 45 lbs.

No. 50-432 Open Steel Stand. 36 lbs.

Note: For Metal Dust Collector, see Section "D1."

ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shut-downs and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

**See the
Complete
ROCKWELL
DELTA
Quality
Sander Line
TODAY!**

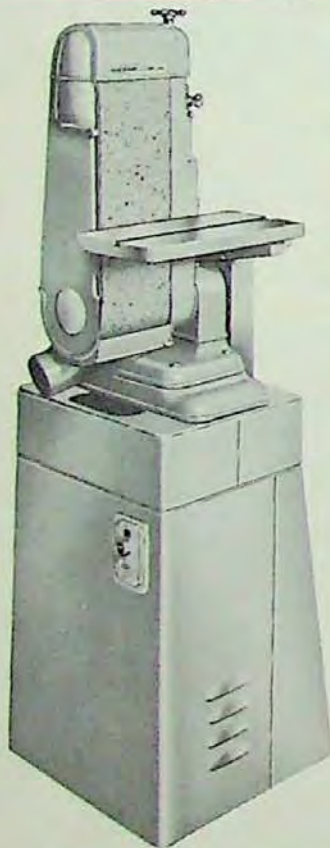
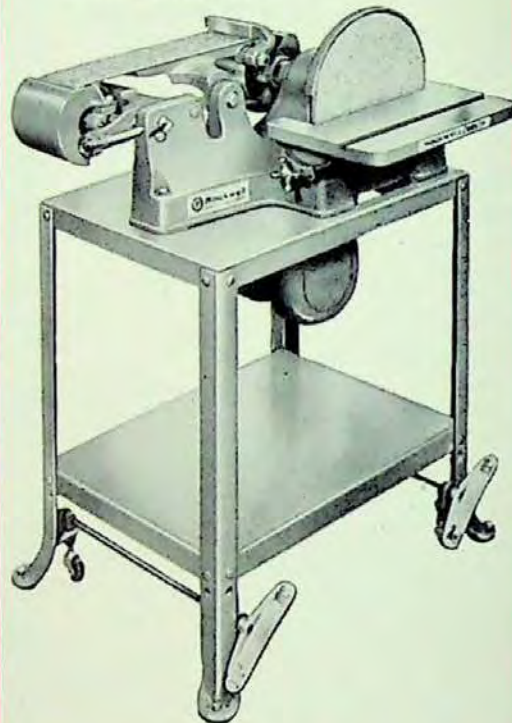


**ROCKWELL DELTA
12" ABRASIVE DISK
FINISHING MACHINE**

Fulfills every finishing need from the pattern shop to the production line on practically any type of material.

**ROCKWELL DELTA
4" BELT AND 12" DISC
FINISHING MACHINE**

Capable of performing 90% of all your finishing operations. Combination set-up saves space and reduces power costs.

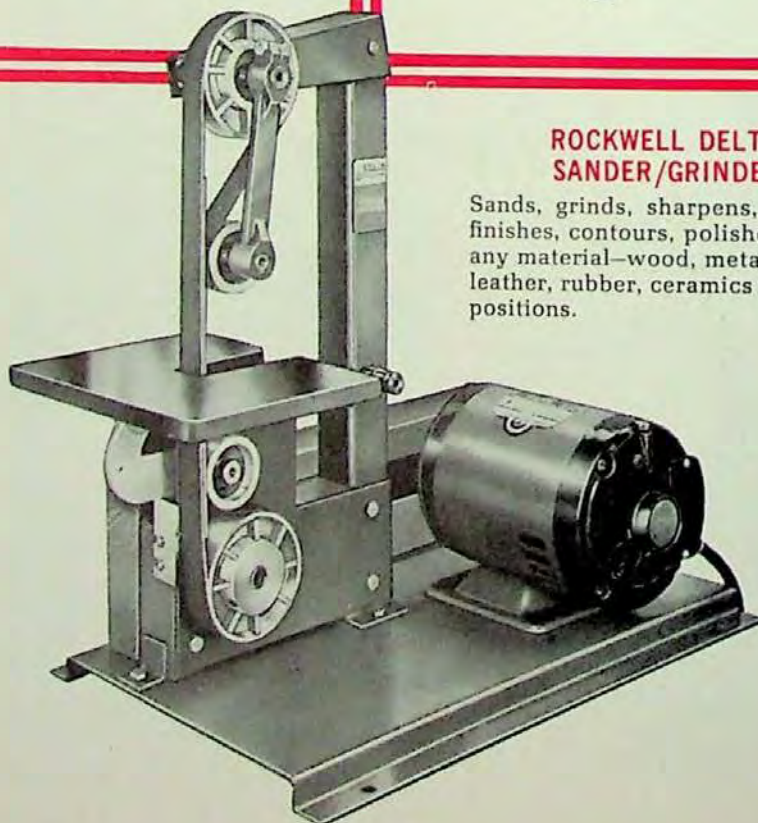


**ROCKWELL DELTA
6" ABRASIVE BELT
FINISHING MACHINE**

Operates vertically, horizontally or at any degree in between on dozens of wood, plastic, metal or other finishing jobs.

**ROCKWELL DELTA
SANDER/GRINDER**

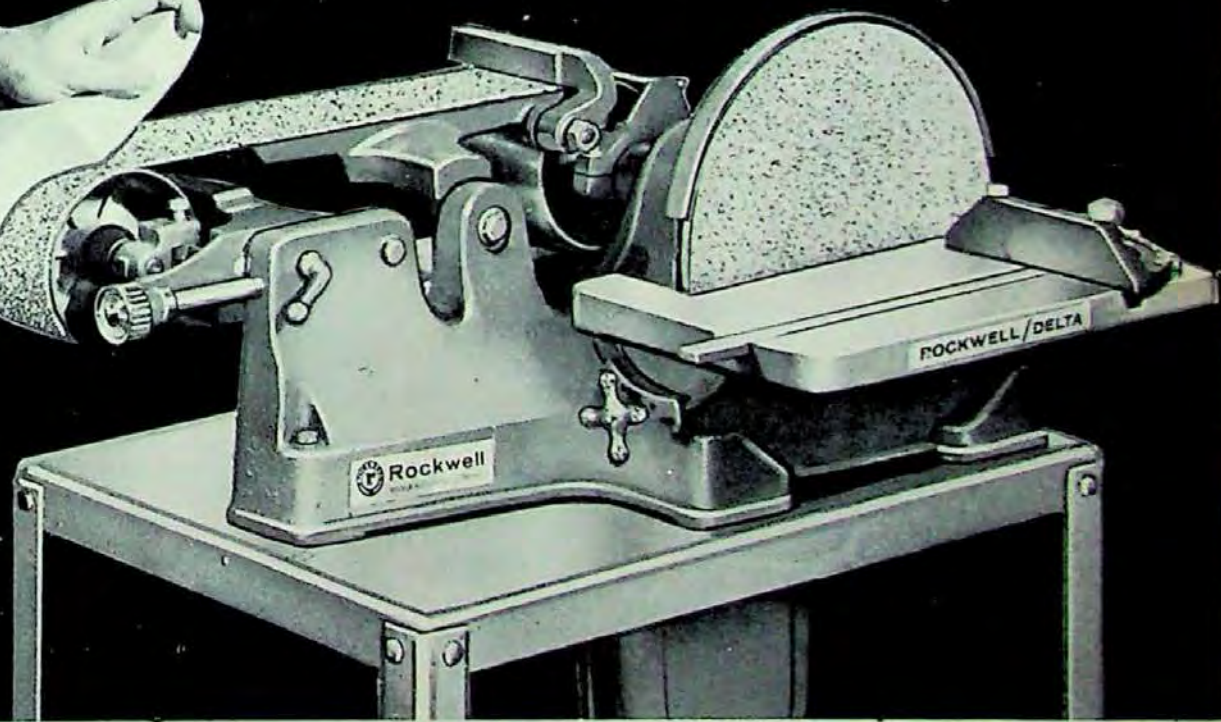
Sands, grinds, sharpens, deburrs, finishes, contours, polishes almost any material—wood, metal, plastic, leather, rubber, ceramics and compositions.



ROCKWELL DELTA **4" Belt and 12" Disc** **FINISHING MACHINE**

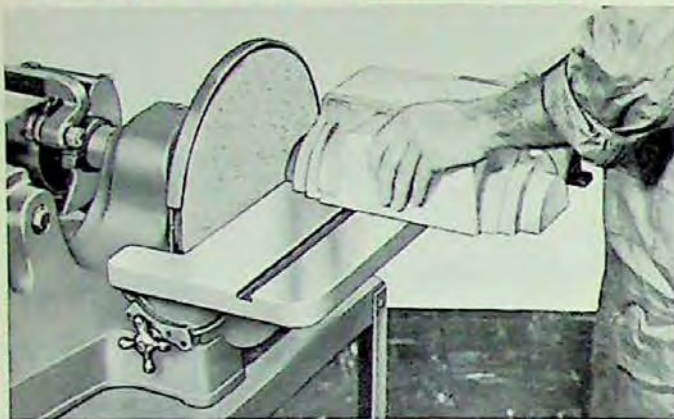
***A Custom or Production Finishing Machine
in a Single Compact Unit Offering...***

High operating efficiency combined with maximum job economy • A precision 12" abrasive disc unit plus a versatile 4" abrasive belt finisher • An excellent performing unit that will handle 90 to 95% of all your finishing operations on wood, metal, plastic, compositions, leather and dozens of other materials • Initial low-cost in a two-in-one combination that will give you high quality performance, year after year.

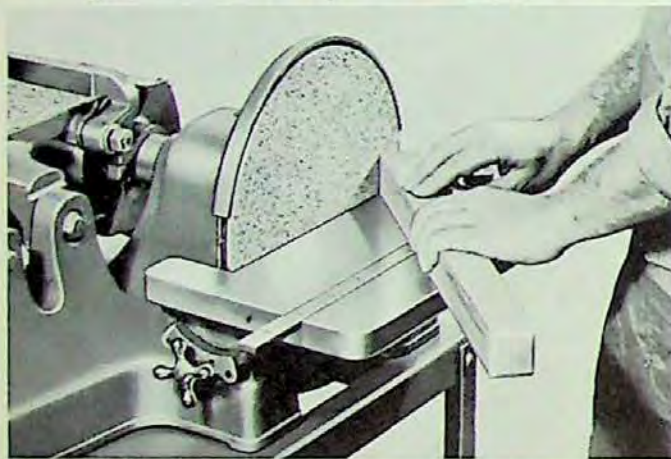


ROCKWELL DELTA 4" BELT AND 12" DISC FINISHING MACHINE

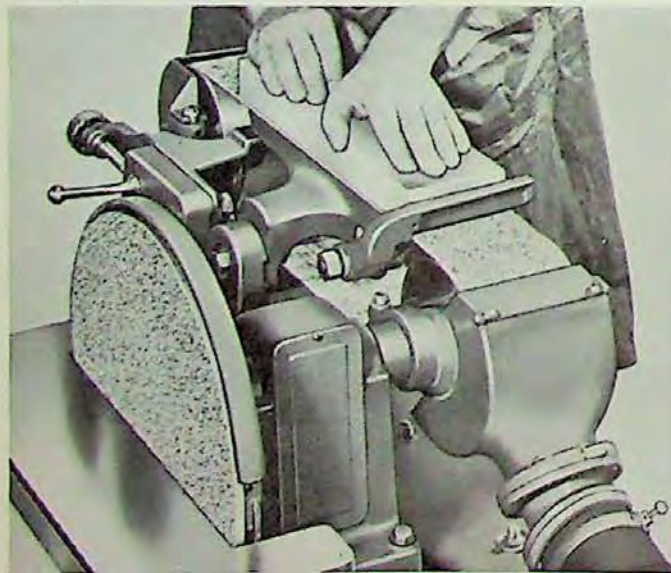
DELTA QUALITY FEATURES THAT MAKE CUSTOM OR PRODUCTION FINISHING EASIER, BETTER, FASTER—AT LESS COST!



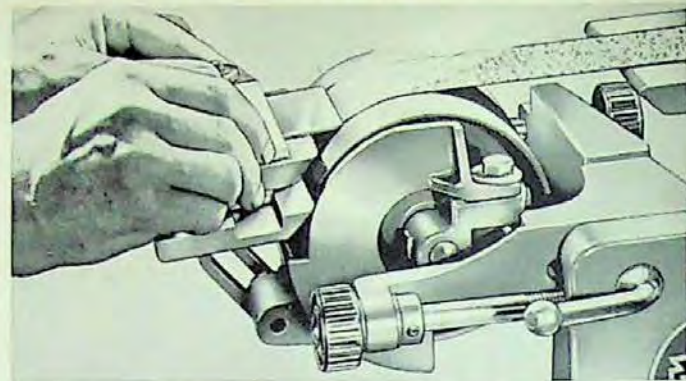
Big 9 $\frac{3}{4}$ x 16 $\frac{1}{4}$ " Table furnishes ample work support for finishing core prints of large patterns. Fully machined disc is balanced for vibration-free operation, assuring accurate finishing on close-tolerance pattern making operations.



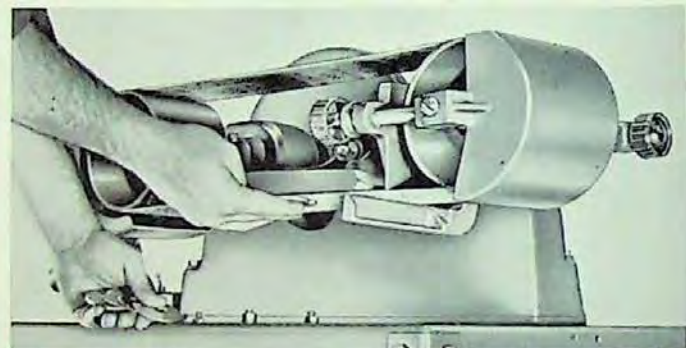
Auto-Set Miter Gage (optional extra) makes chamfering, beveling, mitering, and end-sanding operations easy. Table can be tilted 20° toward and 45° away from disc for compound angle finishing. Easy-to-read tilt scale simplifies table settings.



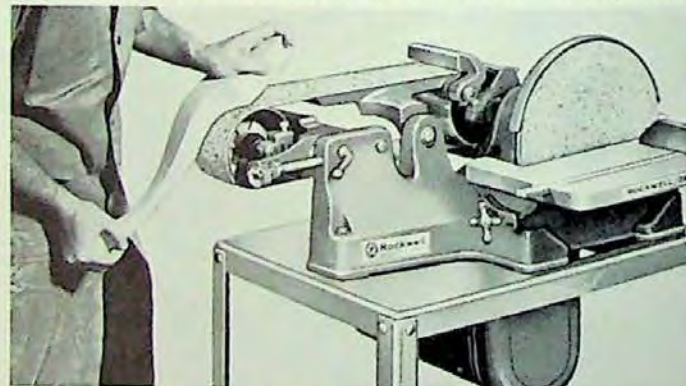
Handy, Rigid Backstop facilitates the finishing of flat work and simplifies the sanding of small pieces. Belt end guard has an adjustable dust deflector and built-in spout for attaching to wood and metal dust collecting systems.



Exclusive, New Grinding Attachment (Cat. No. 31-690) facilitates hollow grinding of plane irons, wood chisels and other cutting tools quickly and safely without burning or loss of temper. Carving and wood turning tools also can be sharpened free-hand.



Husky 4 $\frac{1}{4}$ x 12" Platen can be inverted for underside general finishing or deburring operations on small, hard-to-handle parts. It's easily removed for free-hand finishing of odd-shaped parts where a firm back support is not required.

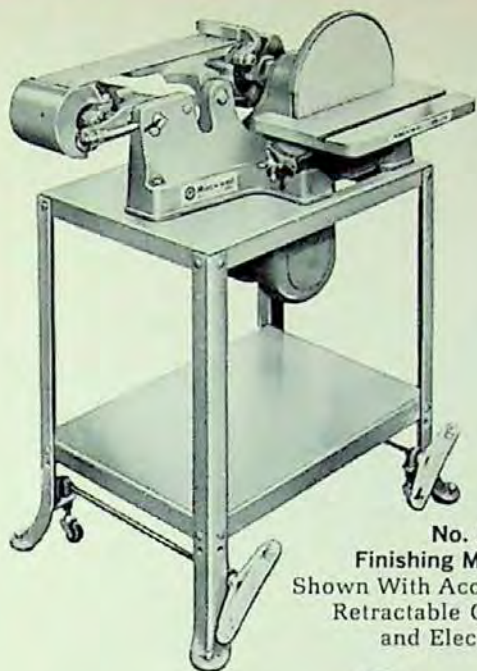


Removable End Guard permits inside contour finishing operations on idler drum. Belt tensioning and tracking controls are completely out of the way to facilitate the finishing of extra large, irregular pieces that must be finished on the belt unit.



Specially Designed Idler Drum Guard permits hollow grinding of chisels, and other cutting tools—no wheels to "dress", no "set-up wheels" to bother with. Grinding with abrasive belts eliminates excessive heat generation—prevents loss of temper.

ROCKWELL DELTA 4" BELT AND 12" DISC FINISHING MACHINE



No. 31-705
Finishing Machine
Shown With Accessory
Retractable Casters
and Electricals.



No. 31-705
Finishing Machine
Shown With Accessory
Metal Dust Collector,
Retractable Casters and
Electricals. See Section D1 for Metal Dust Col-
lector and Adapters Desired. For Wood Vacuum
Cleaner and Adapters, See Section R1.

The Rockwell Delta Belt and Disc Finishing Machine—with standard 4" belt and 12" disc—is capable of performing 90 to 95% of all your finishing operations! It's excellent for all finishing operations on wood and plastic; for grinding, surfacing or polishing steel components, die castings; aluminum, brass and copper parts, and a variety of other materials.

No Lost Motion—the Rockwell Delta Combination Finishing Machine enables you to move from one machine to the other—in seconds—as required when finishing curved, straight or irregular shaped parts.

Saves Space and Reduces Power Costs—with two machines mounted on one stand and operated by one motor, you save valuable shop space, also keep your motor costs to a minimum.

These time and money-saving features make the Rockwell Delta Belt and Disc Finishing Machine an excellent unit for use in wood and metal pattern shops, sign and display shops and all types of commercial shops throughout industry. It's also ideal for use in schools and cabinet shops—virtually every installation where custom or production finishing operations must be performed efficiently and economically.

MACHINE DATA

Overall Dimensions (On Steel Stand):

Width	25"
Height	43"
Depth	32"

Belt Finishing Machine:

Belt	4" x 52½"
Platen	4½" x 12"
Height—Platen to Floor.....	39"
Speed (With 1725 RPM Motor).....	3320 FPM

Disc Finishing Machine:

Disc	12" Diameter
Table Size	9¾" x 16¼"
Height—Table to Floor.....	35½"
Table Tilt.....	20° Toward, 45° Away From Disc
Speed (With 1725 RPM Motor).....	2415 RPM

Shipping Weights:

Bench Model	113 lbs.
Floor Model	163 lbs.

STANDARD EQUIPMENT

Basic Machine includes 4" Belt and 12" Disc Finishing Machine, 3½" motor pulley (¾" bore), V-belt, 50 grit (medium) garnet disk and 60 grit (medium) aluminum oxide belt.

CATALOG LISTING

No. 31-700 Basic Machine Without Stand: 4" Belt & 12" Disc Finishing Machine with No. 3½" motor pulley (¾" bore), No. 340 V-belt, No. 1427 garnet disk (50 grit, medium) and No. 31-652 aluminum oxide belt (60 grit, medium). Without stand, motor and motor controls. 113 lbs.

No. 31-705 Basic Machine With Steel Stand: Same as No. 31-700 except with No. 50-435 steel stand and No. 31-661 belt and pulley guard. Without motor and motor controls. 163 lbs.

NOTE: Items bearing individual catalog numbers, as included in No. 31-700 and No. 31-705, can be ordered separately; see accessory listing.

**MOTORS AND CONTROLS
FOR SINGLE PHASE OPERATION**

No. 82-910 Motor, ¾ HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord and 3-prong grounding type plug. 57 lbs.

No. 83-510 Motor, 1 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch with 115 V 8-foot cord and 3-prong grounding type plug. 70 lbs.

(Motors are mounted underneath stand. For convenience in operating single phase motors, No. 49-385 On-and-Off Toggle Switch Kit is recommended.)

No. 49-385 Remote On-and-Off Control Switch Kit for use with No. 82-910 or 83-510 Motor. Provides up-front remote control utilizing the No. 1115 Switch furnished with the motor. 1 lb.

No. 49-670 Push Button Switch, 2-pole type, used for manual on-and-off control where overload protection is not desired. Includes switch, box and cover. 2½ lbs.

FOR 3 PHASE OPERATION

No. 86-759 Motor, ¾ HP, 230/460 V, AC, 60 cy, 1725 rpm. Without switch or power cord. 43 lbs.

No. 86-909 Motor, 1 HP, 230/460 V, AC, 60 cy, 1725 rpm. Without switch or power cord. 44 lbs.

ROCKWELL DELTA 4" BELT AND 12" DISC FINISHING MACHINE

MOTORS AND CONTROLS—Continued

No. 49-671 Push Button Switch, 3-pole type, used for manual on-and-off control where overload protection is not desired. Includes switch, box and cover. 3 lbs.

No. 49-838 Starter, Manual. Provides overload protection. Includes start and stop-reset buttons. Specify motor number and voltage when ordering. 6 lbs.

No. 49-669 Switch, Overload. Used with No. 49-670 or 49-671 Switch. Specify motor number and voltage when ordering. 3 lbs.

No. 49-665 Starter, Magnetic. For 60 cy, 208-230/460 V. Provides low-voltage, no-voltage and overload protection. Does not include No. 49-842 start-stop control station. Specify motor number and voltage when ordering. 11½ lbs.

No. 49-842 Magnetic Starter Control Push Button Switch Kit. Provides integral start-stop control station for 49-665 Starter. 1½ lbs.

No. 49-848 Mounting Bracket for mounting 49-669 Overload Switch or 49-665 Magnetic Starter on steel stand. 3 lbs.

**CONVENIENT
ALL-INCLUSIVE
NUMBERS**

FOR SINGLE PHASE OPERATION

No. 31-721 4" Belt and 12" Disc Finishing Machine complete. Includes 31-705 Belt and Disc Finishing Machine with steel stand, belt and pulley guard, No. 82-910 ¾ HP motor and No. 49-385 switch. 221 lbs.

No. 31-711 4" Belt and 12" Disc Finishing Machine complete. Includes 31-705 Belt and Disc Finishing Machine with steel stand, belt and pulley guard, No. 83-510 1 HP motor and No. 49-385 switch. 234 lbs.

FOR 3 PHASE OPERATION

No. 31-723 4" Belt and 12" Disc Finishing Machine complete. Includes 31-705 Belt and Disc Finishing Machine with steel stand, belt and pulley guard, No. 86-759 ¾ HP motor, No. 49-838 manual starter (specify voltage) and No. 49-848 mounting bracket. 215 lbs.

No. 31-713 4" Belt and 12" Disc Finishing Machine complete. Includes 31-705 Belt and Disc Finishing Machine with steel stand, belt and pulley guard, No. 86-909 1 HP motor, No. 49-838 manual starter (specify voltage) and No. 49-848 mounting bracket. 216 lbs.

**DELTA
QUALITY ACCESSORIES
FOR INCREASED
JOB PERFORMANCE**



No. 50-864 Auto-Set® Miter Gage. For straight and angle finishing. Has ¾ x ¾ x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 49-302 Stop Rods for 50-864 miter gage. ½ lb.

No. 1427 Garnet Disc for Wood, 12" diameter, 50 grit, medium (½ doz.) 1¼ lbs.

No. 1428 Al. Oxide Disc for Metal, 12" diameter, 60 grit, medium (½ doz.) 1¼ lbs.

No. 31-651 Al. Oxide Belt for Metal, 4 x 52½", 36 grit, coarse. 1 lb.

No. 31-652 Al. Oxide Belt for Metal, 4 x 52½", 60 grit, medium. 1 lb.

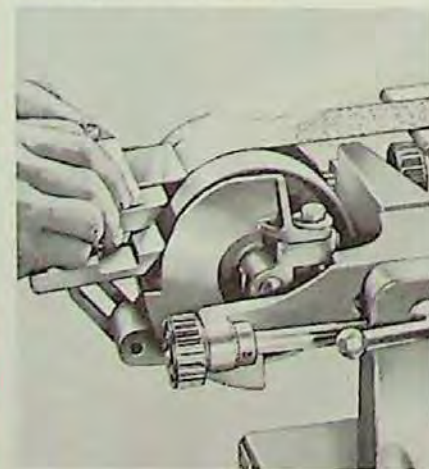
No. 31-653 Al. Oxide Belt for Metal, 4 x 52½", 120 grit, fine. 1 lb.

No. 31-663 Al. Oxide Belt for Tool Sharpening, 2 x 52½", 80 grit. ½ lb.

No. 31-659 Garnet Belt for Wood, 4 x 52½", 40 grit, coarse. 1 lb.

No. 31-660 Garnet Belt for Wood, 4 x 52½", 80 grit, fine. 1 lb.

No. 31-661 Guard for V-belt and pulley. For operator safety. 2 lbs.



No. 31-690 Plane Blade Grinding Attachment. For hollow grinding of plane irons, wood chisels and other cutting tools without burning or loss of tem-

per. Carving and wood turning tools can be sharpened free-hand. Complete with fully machined tilting table, adjustable quadrant, tool holder and belt. 8 lbs.

No. 49-359 Retractable Caster Set for No. 50-435 Steel Stand. Makes your Rockwell Delta Finishing Machine Mobile and increases its usefulness to your operation. You can easily wheel it about your plant or shop, right to the job site. 13 lbs.

No. 49-503 Disc Adhesive. 1 lb.

No. 50-435 Steel Stand, 29" high with top 18 x 26". 48 lbs.

No. 41-052 Motor Pulley, single groove, 3½" dia., ½" bore. ½ lb.

No. 41-053 Motor Pulley, single groove, 3½" dia., ⅝" bore. ½ lb.

No. 41-054 Motor Pulley, single groove, 3½" dia., ¾" bore. ½ lb.

No. 340 V-belt, 36½" OC. ½ lb.

No. 31-680 Adapter for 2½" hose on Wood Vacuum Cleaner when used with Disc Unit of Belt and Disc Finishing Machine. 6 lbs.

No. 49-589 Adapter for 2½" hose on Wood Vacuum Cleaner when used with Belt Unit of Belt and Disc Finishing Machine. 3 lbs.



ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shutdowns and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

ROCKWELL DELTA 8" Long-Bed JOINTER

Big in Every Way—Capacity • Safety • Convenience . . .

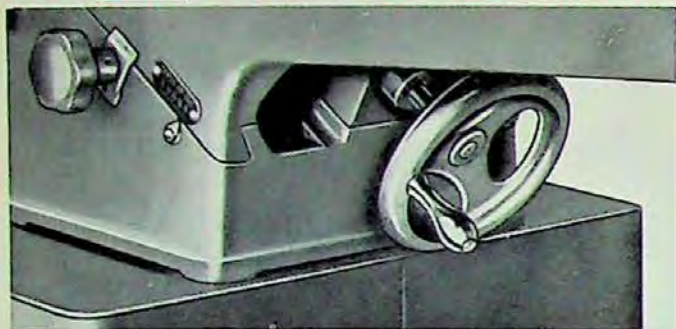
TO MEET
YOUR
EVERY
PRODUCTION
NEED!

The
Greatest
Production
Jointer
Ever Built!

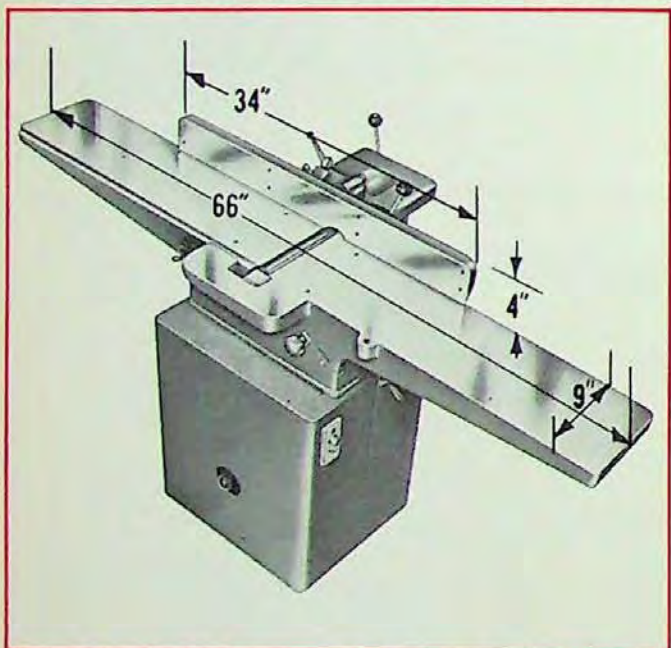
Joints and surfaces stock up to 8¹/₁₆" wide . . . cuts rabbets 1/2" deep by 8¹/₁₆" wide. Features extra-long 5¹/₂ foot bed . . . big 4 x 34 inch fence . . . extra-large handwheels and convenient center-mounted fence . . . completely guarded cutterhead and drive . . . special knife-setting feature . . . and more!

ROCKWELL DELTA 8" LONG-BED JOINTER

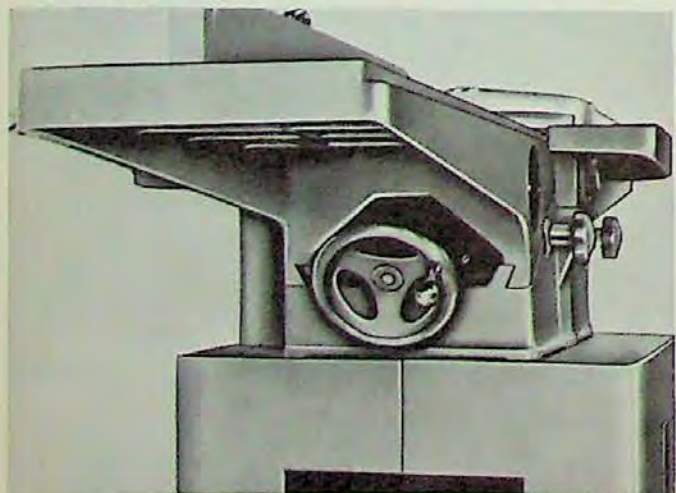
DELTA QUALITY FEATURES THAT MAKE THE 8" LONG-BED JOINTER SUITABLE FOR EVERY PRODUCTION REQUIREMENT!



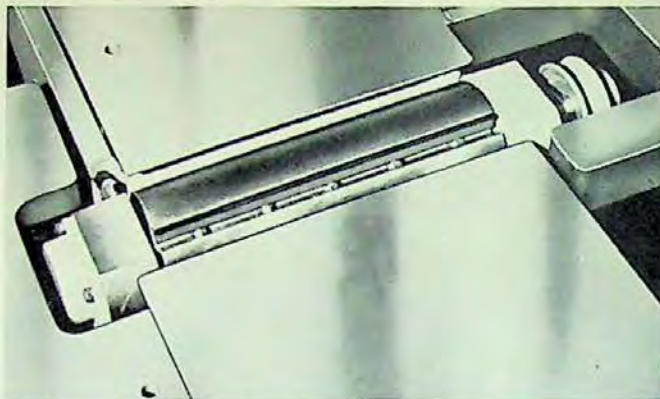
Gibbed, Dove-Tailed Table Ways—both front and rear tables raise and lower on long, inclined, dove-tailed ways. Adjustable gibs compensate for any wear. Easy-to-read scale shows exact depth of cut. Handy knob locks table at desired setting.



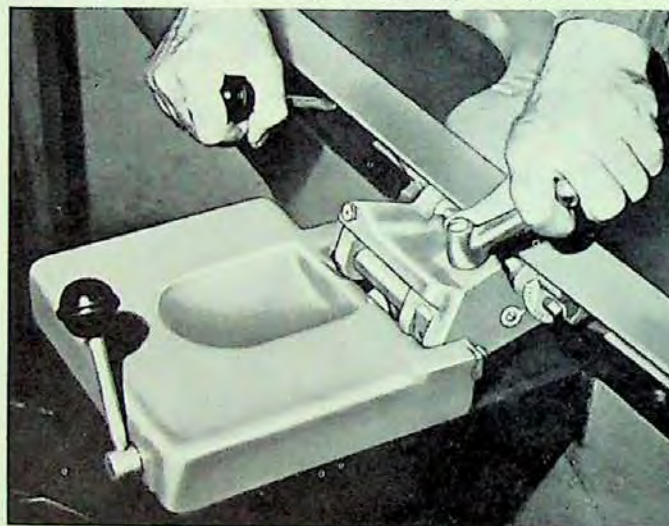
Big, Extra-Long Bed—measures a full 5½ feet in length . . . makes it possible to cut perfect straight edges on extra long material. Large 4" high x 34" long fence permits accurate, easy bevel jointing.



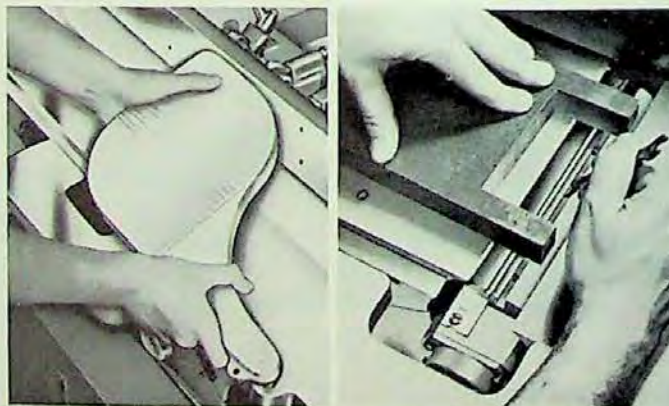
Adjustable Outfeed Table—simplifies alignment of outfeed table to cutterhead. This outstanding feature makes possible stop jointing and stop chamfering. Built-in dust chute keeps chips and dust away from the motor.



Safety-Type, Three-Knife Cutterhead—with 3" cutting circle, it delivers 15,525 knife cuts per minute. Unique unit-type design enables operator to change cutterheads by simply removing four studs, virtually eliminating costly down time.



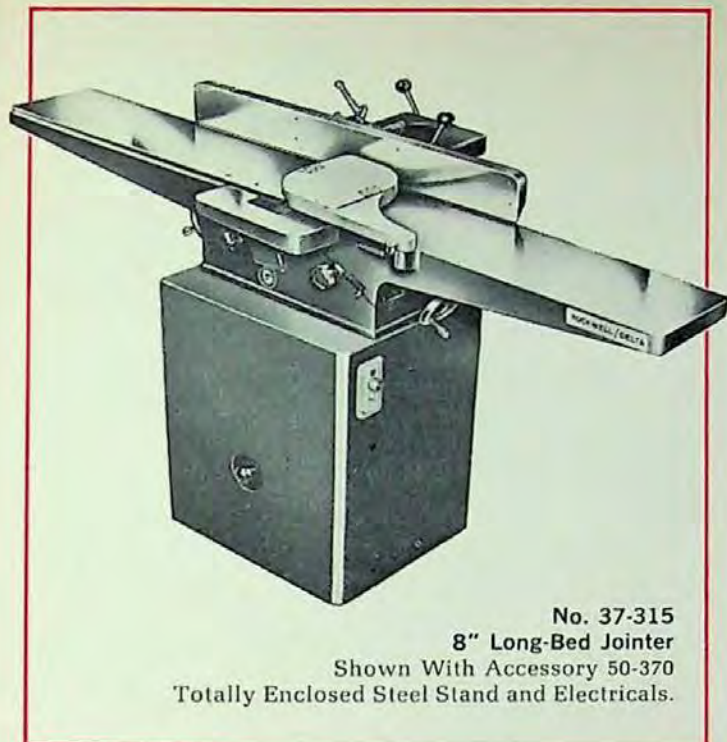
Center Mounted, Two-Way Tilting Fence—equipped with plunger type stop at 90° and positive stops at 45°, right and left, for making chamfer and bevel cuts. Cam type lock with single lever control quickly locks fence at any position across the work table.



(Left) **Safety Engineered Guard**—Practical design of cutterhead guard gives you maximum coverage of cutter knives at all times. Easily removed for rabbeting. Cutter knives to rear of fence are covered by fence mounting base.

(Right) **Special Knife-Setting Feature**—Only the Rockwell Delta 8" Jointer incorporates a precision-ground Index Stop that locks the cutterhead in the correct position for setting cutter knives. Also serves as a stop gage to automatically locate knives for rabbeting operations. Only the Rockwell Delta 8" Jointer gives you a cutterhead with built-in springs that hold cutter knives at the proper height when locking them in place. *You get perfect cutter knife alignment every time . . . in just minutes!*

ROCKWELL DELTA 8" LONG-BED JOINTER



No. 37-315
8" Long-Bed Jointer
Shown With Accessory 50-370
Totally Enclosed Steel Stand and Electricals.

Big! Rugged! Precision-built for years of accurate production work! Completely enclosed, cabinet-type steel stand that fully encloses motor, belt and pulleys—specially balanced cutterhead with locked-in knives—single control that adjusts outfeed table for quick alignment with knives in cutterhead—big fence with 45° right or left tilt—massive, heavily ribbed 5½-foot bed. This Rockwell Delta Jointer is especially ideal where speed, accuracy and low maintenance are required. Satisfied users include sash and door producers, furniture manufacturers, cabinet shops, shipyards, schools and many others.

TOTALLY ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley and V-belt Included. Totally Enclosed Steel Stands With Electricals Can Be Ordered Either With Or Without the Basic No. 37-315 8" Long-Bed Jointer.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, ¼ Horsepower	Push Button Switch Only	GD	60 - 1725	115/230	117	49-865
	Push Button Switch and Magnetic Starter	GD	60 - 1725	115/230	125	49-866
Single Phase, 1 Horsepower	Push Button Switch Only	GD	60 - 1725	115/230	122	49-867
	Push Button Switch and Magnetic Starter	GD	60 - 1725	115/230	130	49-868
Single Phase, 1½ Horsepower	Push Button Switch Only	GD	60 - 1725	115/230	143	49-869
	Push Button Switch and Magnetic Starter	GD	60 - 1725	115/230	151	49-870
Three Phase, ¾ Horsepower	Push Button Switch Only	GD	60 - 1725	230/460	107	49-871
	Push Button and Overload Switches	GD	60 - 1725	230/460	111	49-872
	Push Button Switch and Magnetic Starter	GD	60 - 1725	230/460	113	49-873
	Push Button Switch and Magnetic Starter w/115V Transformer	GD	60 - 1725	230/460	117	49-874
Three Phase, 1 Horsepower	Push Button Switch Only	GD	60 - 1725	230/460	108	49-875
	Push Button and Overload Switches	GD	60 - 1725	230/460	112	49-876
	Push Button Switch and Magnetic Starter	GD	60 - 1725	230/460	114	49-877
	Push Button Switch and Magnetic Starter w/115V Transformer	GD	60 - 1725	230/460	118	49-878
Three Phase, 1½ Horsepower	Push Button Switch Only	GD	60 - 1725	230/460	114	49-879
	Push Button and Overload Switches	GD	60 - 1725	230/460	118	49-880
	Push Button Switch and Magnetic Starter	GD	60 - 1725	230/460	120	49-881
	Push Button Switch and Magnetic Starter w/115V Transformer	GD	60 - 1725	230/460	124	49-882

NOTE: Single phase, ¼ and 1 HP electricals are supplied wired for 115 V, unless 230 V is specified. Single phase 1½ HP electricals are supplied wired for 230 V only. All three phase electricals are supplied wired for

MACHINE DATA

Cutting Capacity:
Width 8 ½"
Depth ½"

Rabbeting Capacity ½" x 8 ½"

Cutting Circle 3" Diameter

Cutterhead:
Speed 5175 RPM, 15,525 Cuts Per Minute
Number of Knives 3
Runs in Sealed, Lubricated-for-Life Ball Bearings

Table:
Surface-Overall 9" Wide x 66" Long
Working Height Enclosed Steel Stand: 32 ¾";
Ways Dove-Tailed

Fence:
Size 4" High x 34" Long
Tilts Right and Left 45°
Positive Stops 90°, 45° Right and Left

Overall Dimensions:
Height On Enclosed Steel Stand: 36 ½";
Width 24 ½"; Length 66"

Shipping Weight :
Basic Machine Without Stand 270 lbs.

STANDARD EQUIPMENT

Basic Machine includes set of 3 high-speed steel knives, two-way tilting fence, cutterhead pulley and safety cutterhead guard.

CATALOG LISTING

No. 37-315 Basic Machine Without Stand. 8" Jointer with No. 37-308 set of 3 high-speed steel knives, two-way tilting fence, 2" cutterhead pulley and safety cutterhead guard. Without stand, motor pulley, V-belt, motor and switch. 270 lbs.

230 V, unless 208 V or 460 V is specified. Motors and motor controls for Rockwell Delta 8" Jointers may be ordered unmounted. For listing, see Sections P and Q.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 8" LONG-BED JOINTER

DELTA QUALITY ACCESSORIES

No. 50-370 Steel Stand, enclosed type, 17" wide x 19 $\frac{3}{4}$ " long x 23 $\frac{1}{2}$ " high, complete with belt guard, chip chute and motor mounting plate. 58 lbs.

No. 49-135 V-Belt, 57 $\frac{1}{2}$ " OC, required for No. 50-370 Steel Stand. 1 lb.

No. 41-112 Motor Pulley, 6 $\frac{1}{2}$ " diameter, $\frac{1}{2}$ " bore. 2 lbs.

No. 41-113 Motor Pulley, 6 $\frac{1}{2}$ " diameter, $\frac{3}{8}$ " bore. 2 lbs.

No. 41-114 Motor Pulley, 6 $\frac{1}{2}$ " diameter, $\frac{3}{4}$ " bore. 2 lbs.

No. 37-308 High-Speed Steel Cutter Knives, set of 3 for No. 37-315 Jointer. 5 lbs.

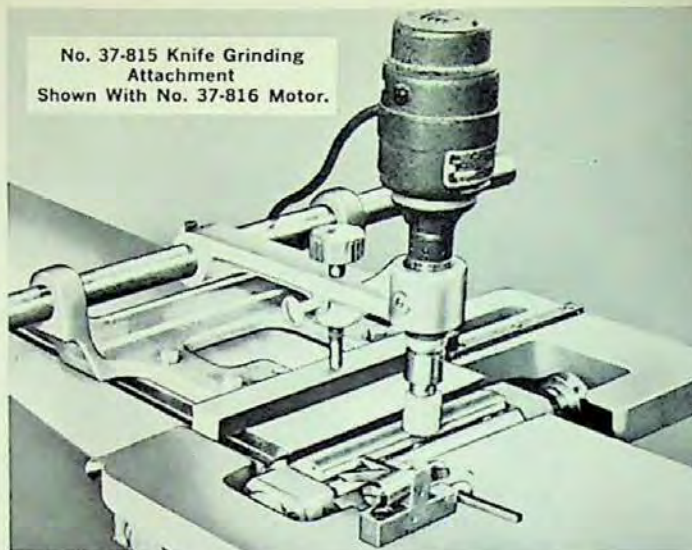
No. 37-305 High-Speed Steel Cutter Knives, set of 4 for No. 37-300 (old style) Jointer. 5 lbs.

No. 37-810 Cutterhead Assembly, complete with bearings, housings and No. 37-308 set of 3 high-speed steel knives. Fits both old and new style jointers. 22 lbs.

KNIFE GRINDING ATTACHMENT

Enables operator to grind or joint knives as needed while the cutterhead remains in the jointer. Eliminates costly machine down-time.

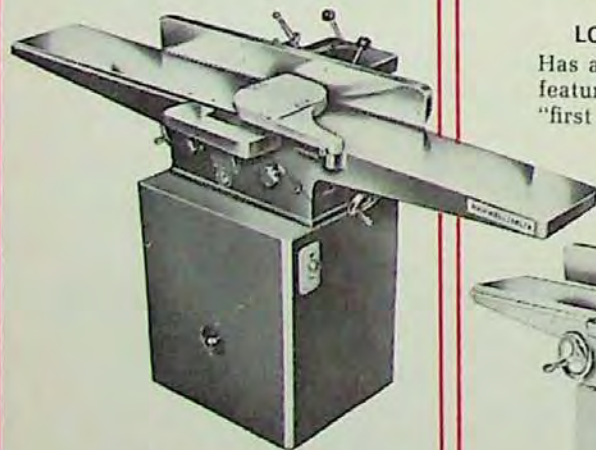
No. 37-815 Knife Grinding Attachment
Shown With No. 37-816 Motor.



No. 37-815 Knife Grinding and Jointing Attachment. With guide rail and mounting parts, positive index device, and jointing stone with adapter. Less motor. 30 lbs.

No. 37-816 Motor, 115 V, AC-DC, 25 to 60 cy. Includes on-and-off switch, 115 V 9 $\frac{1}{2}$ -foot cord and 3-prong grounding type plug, one fine and one medium wheel and wheel dressing stone. 5 lbs.

SEE THE COMPLETE ROCKWELL DELTA QUALITY JOINTER LINE TODAY!

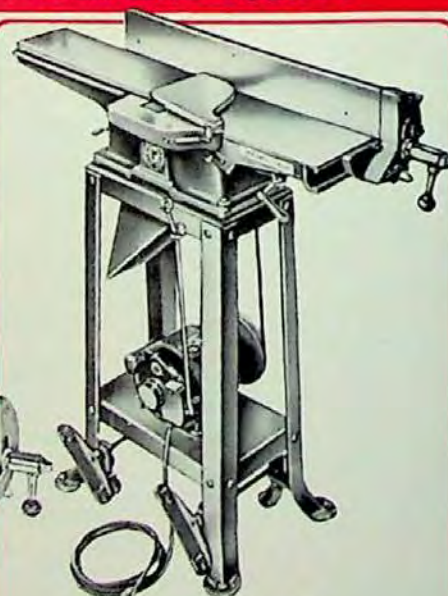
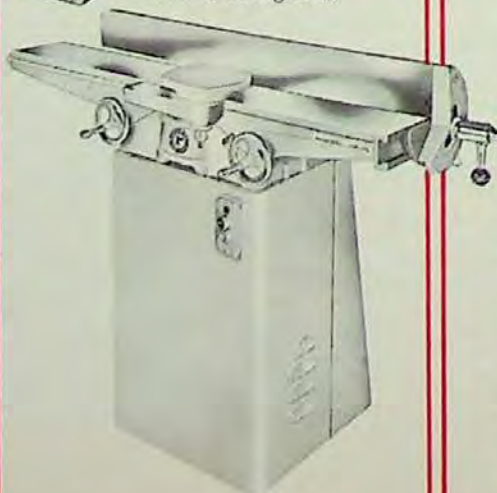


ROCKWELL DELTA 8" LONG-BED JOINTER

A rugged, heavy duty machine that offers the big capacity, precision accuracy and dependability for continuous production line work.

ROCKWELL DELTA 6" DELUXE LONG-BED JOINTER

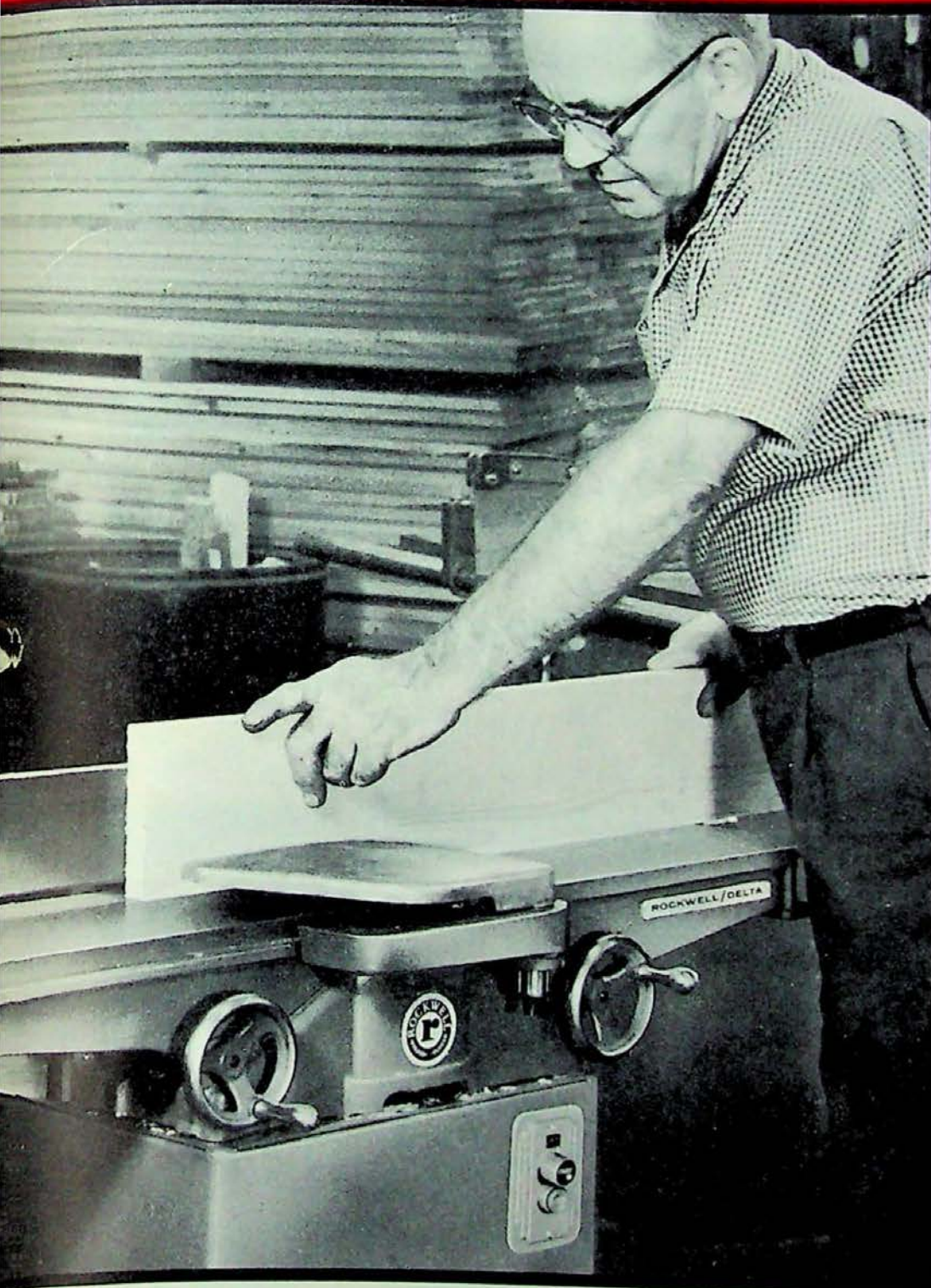
Has all the built-in quality features that make it the "first choice" in schools, maintenance departments, production shops and on the building site.



ROCKWELL DELTA 4" PRECISION JOINTER

Economically priced, this husky jointer will do precision work, year after year. Its portability makes it easy to move from one job to another about the shop or on the building site.

ROCKWELL DELTA 6" Deluxe Long-Bed JOINTER



Whatever your requirements—building trades . . . production line . . . maintenance department . . . commercial or school shop—the Rockwell Delta 6" Deluxe Long-Bed Jointer will provide all the precision, flexibility and capacity you'll ever need!

Extra Long Bed provides increased capacity for handling long stock.

Simple, Easy-to-Reach Controls assure faster, easier operation.

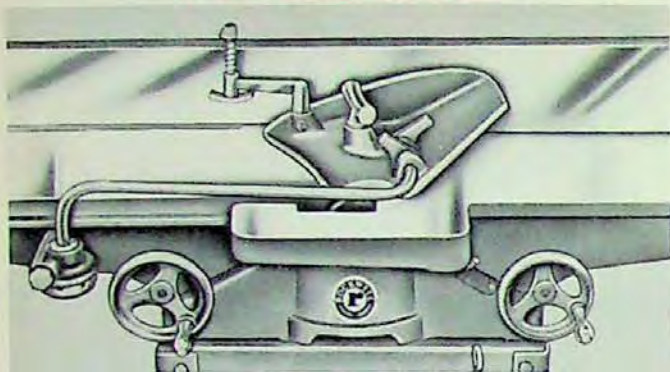
Fully Adjustable Table speeds up production on every job.

Safety Engineered Guard gives operator maximum protection.

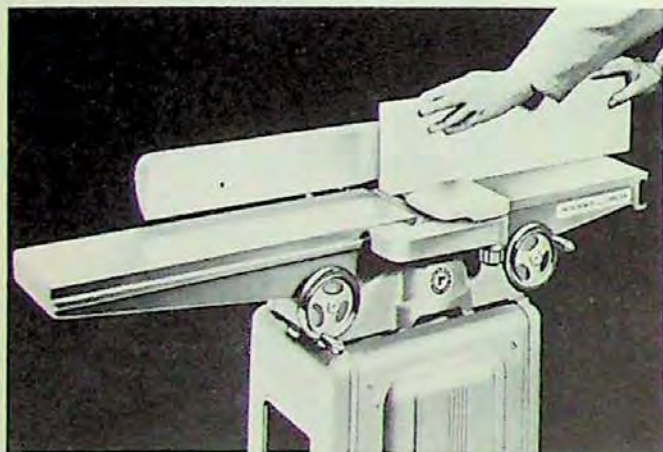
Ideal Working Height Stand provides safety and convenience for the operator, especially when edge jointing wide stock.

ROCKWELL DELTA 6" DELUXE LONG-BED JOINTER

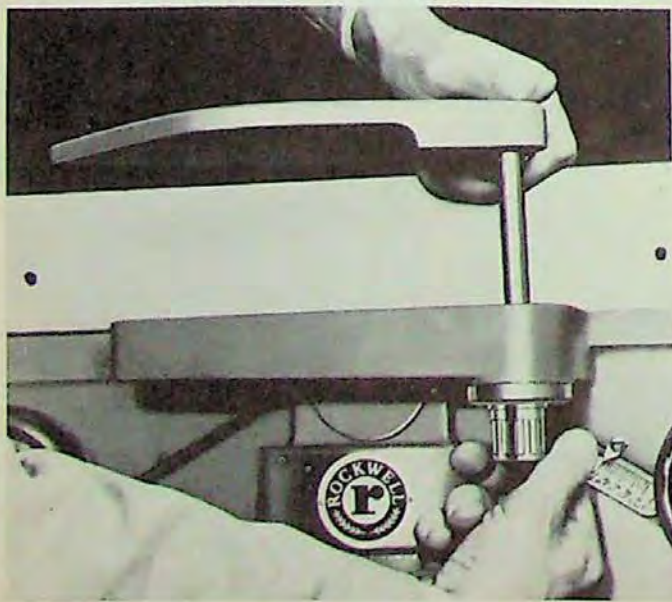
**DELTA QUALITY FEATURES
THAT MAKE THE 6" DELUXE JOINTER
THE LEADER IN DESIGN, QUALITY
AND PERFORMANCE!**



Exclusive Safety Guard—Operators get maximum safety with this 37-826 Dual Purpose Guard that permits ribbon thin planing, yet never gets in the worker's way. Pressure on the thumb hold keeps small pieces down while guard controls side pressure. Especially recommended for use in school shops (accessory).

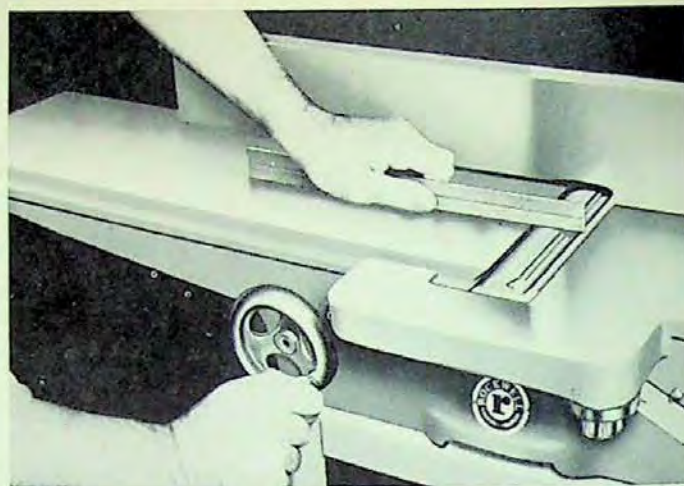


Long Bed—This Delta Jointer contains a long bed . . . a full 42½" . . . to insure a true cut, even on extra long boards.

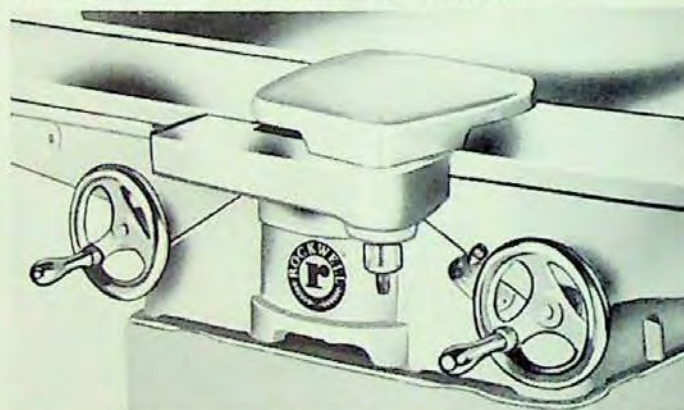


Safety Engineered Guard—Adjustable tension guard has torsion spring assembly which provides infinite tension adjustment. Guard is instantly removable, also can be locked. Rear Knife Guard, No. 37-807, is interchangeable with front knife guard. Gives added operator protection.

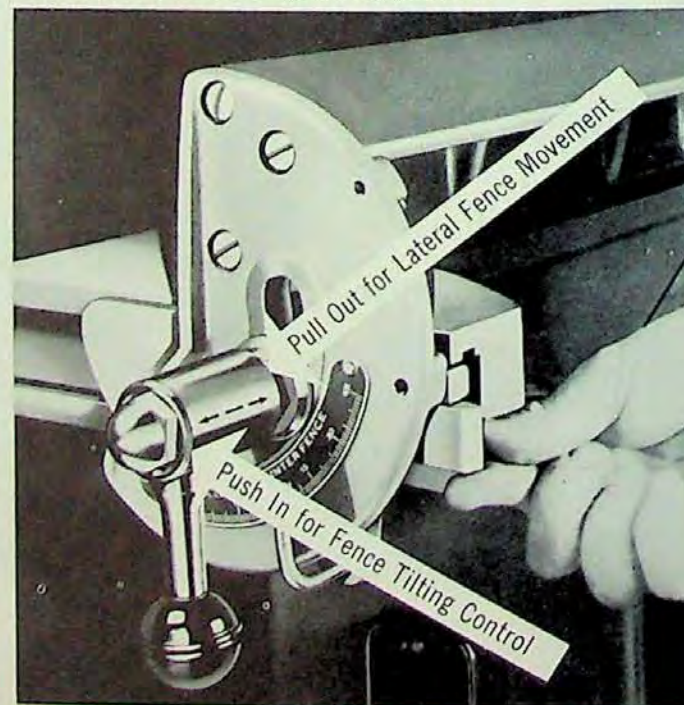
F2



Adjustable Outfeed Table—The Delta 6" Deluxe Jointer has an individually controlled and fully adjustable outfeed table. It is much easier to *adjust the table to the cutterhead* with a single hand wheel than to *attempt to adjust the cutterhead to the table* with an assortment of wrenches.



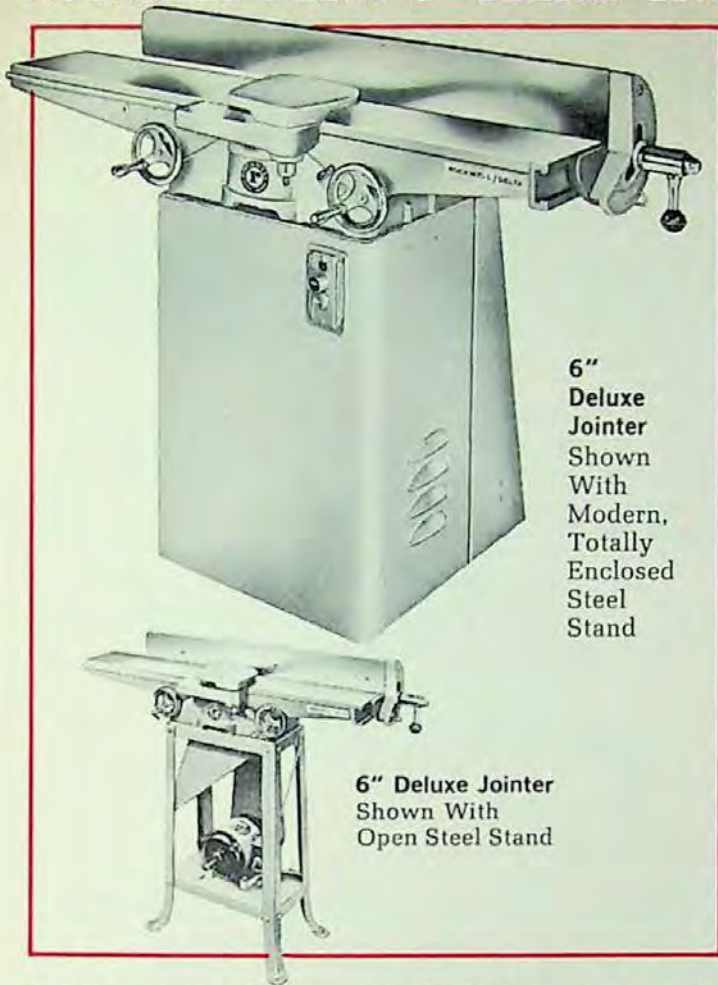
Improved Table Elevating Mechanism—The hand-wheel control is conveniently located for rapid "glide motion" raising and lowering of both tables. Both wheels are within easy reach from the normal operating position.



Dual Fence Control and Positive Stop—A single control handle, on the front of the jointer, positions the fence for both width of cut and angle of cut. A touch of the finger engages positive stops at 90° or 45° right and left.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 6" DELUXE LONG-BED JOINTER



6" Deluxe Jointer
Shown With Modern, Totally Enclosed Steel Stand

6" Deluxe Jointer
Shown With Open Steel Stand

Here's a jointer that's years ahead of anything in its class or price range!

Relatively light in weight, it can be easily moved from maintenance department to shipping department or placed in a production line. Builders, too, find it easy to transport this highly efficient jointer right to the job site where it can be quickly put to work.

The Delta 6" Long Bed Jointer is a precision-engineered tool incorporating all the advanced features that have been asked for by cabinet makers, carpenters, maintenance men, pattern makers, school shop instructors, farmers and dozens of other users. It is designed to satisfy the great demand for a high quality jointer at a relatively low cost.

STANDARD EQUIPMENT

Jointers are furnished with a set of 3 high-speed steel knives, 2-way tilting fence with "dual control," cutterhead pulley and front safety knife guard.

MACHINE DATA

Overall Dimensions:

On Totally Enclosed Steel Stand
.....20½" Wide, 34" High, 48" Long
On Open Steel Stand ...14" Wide, 39¼" High, 48" Long

Cutting Capacity:

Width 6"
Depth ½"

Rabbeting Capacity: ½" x 6"

Cutterhead:

Speed 4500 RPM, 13,500 Cuts Per Min.
Number of Knives 3
Runs in Sealed, Lubricated-for-Life Ball Bearings.

Table:

Surface-Overall 7" Wide x 42½" Long
Working Height (Totally Enclosed Stand) 29⅝"
(Open Steel Stand) 35"
Ways Dove-tailed

Fence:

Size 4" High x 36¾" Long
Tilts Right and Left 45°
Positive Stops 90°, 45° Right & Left

Shipping Weight (With Totally Enclosed Steel Stand) .. 200 lbs.

CATALOG LISTING

No. 37-220 Basic Machine Without Stand. 6" Jointer with 659 set of 3 high-speed steel knives, 2-way tilting fence with "dual control," 2¾" cutterhead pulley and front safety knife guard. Without stand, motor, switch, motor pulley or V-belt. 155 lbs.

No. 37-225 Machine With Totally Enclosed Steel Stand. Same as 37-220 except with 50-121 totally enclosed steel stand, 530 V-belt and 7" motor pulley (specify ½, ⅝ or ¾" bore). Without motor and switch. 200 lbs.

No. 37-221 Machine With Open Steel Stand. Same as 37-220 except with 50-656 open steel stand, 661 belt guard, 560 V-belt and 7" motor pulley (specify ½, ⅝ or ¾" bore). Without motor or switch rod. 196 lbs.

NOTE: Items bearing individual catalog numbers, as included in No. 37-220, No. 37-221 and No. 37-225 can be ordered separately; see price list.

TOTALLY ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley and V-belt Included. Totally Enclosed Steel Stands With Electricals Can Be Ordered Either With or Without the Basic No. 37-220 6" Deluxe Long-Bed Jointer.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, ½ Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	73	49-889
	Push Button Switch and Magnetic Starter	TEFC	60-1725	115/230	86	49-890
Single Phase, ¾ Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	78	49-891
	Push Button Switch and Magnetic Starter	TEFC	60-1725	115/230	91	49-892
Three Phase ½ Horsepower	Push Button Switch Only	TEFC	60-1725	230/460	75	49-893
	Push Button and Overload Switches	TEFC	60-1725	230/460	78	49-894
	Push Button Switch and Magnetic Starter	TEFC	60-1725	230/460	87	49-895
	Push Button Switch and Magnetic Starter (w/115V Transformer)	TEFC	60-1725	230/460	90	49-896
	Push Button Switch Only	TEFC	60-1725	230/460	78	49-897
Three Phase, ¾ Horsepower	Push Button and Overload Switches	TEFC	60-1725	230/460	81	49-898
	Push Button Switch and Magnetic Starter	TEFC	60-1725	230/460	90	49-899
	Push Button Switch and Magnetic Starter (w/115V Transformer)	TEFC	60-1725	230/460	93	49-900

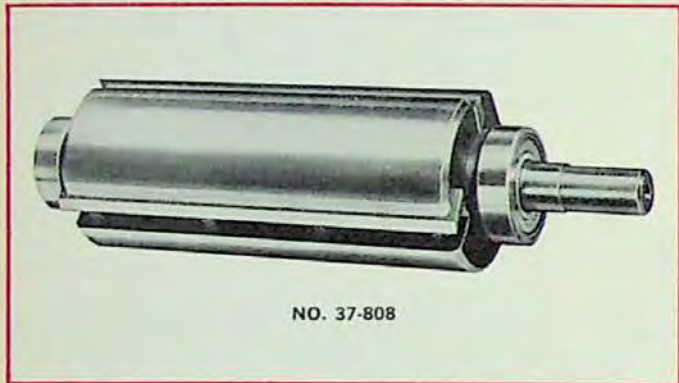
NOTE: Single phase electricals will be wired for 115V, unless 230V is specified. Three phase electricals will be wired for 230V, unless 208V or 460V is specified. Power cord and plug supplied for single phase only.

Motors and motor controls for Rockwell Delta 6" Deluxe Long-Bed Jointers may be ordered unmounted. For listing, see Sections P and Q.

ROCKWELL DELTA 6" DELUXE LONG-BED JOINTER

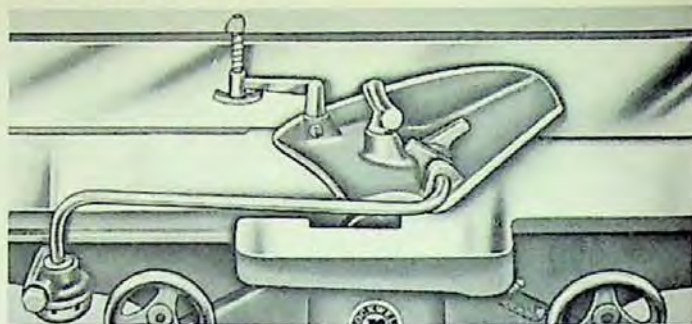
DELTA QUALITY ACCESSORIES THAT PROVIDE GREATER EFFICIENCY AND INCREASED SAFETY ON EVERY JOB!

- No. 659 Set of 3 high-speed steel knives. $\frac{3}{4}$ lb.
- No. 1522 Wrench, double end, $\frac{5}{16}$ ", for cutterhead knife lock bar screws. $\frac{1}{4}$ lb.
- No. 37-815 Knife Grinding and Jointing Attachment. With guide rail and mounting parts, positive index device, and jointing stone with adapter. Less motor. 30 lbs.
- No. 37-816 Motor, 115 V, AC-DC, 25 to 60 cy. Includes on-and-off switch, 115 V 9 $\frac{1}{2}$ -foot cord and 3-prong grounding type plug, one fine and one medium wheel and wheel dressing stone. 5 lbs.
- No. 37-807 Rear Safety Knife Guard. 2 lbs.

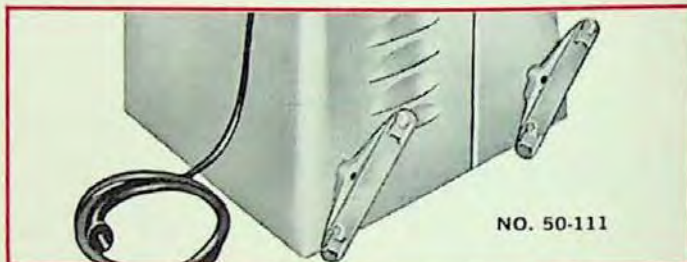


NO. 37-808

- No. 37-808 Cutterhead Assembly, complete with bearings, housings and No. 659 set of 3 high-speed steel knives. Keep an extra cutterhead assembly on hand to eliminate machine downtime and keep production moving. 10 lbs.
- No. 37-820 Auxiliary Fence Support. For extra heavy work. 2 lbs.



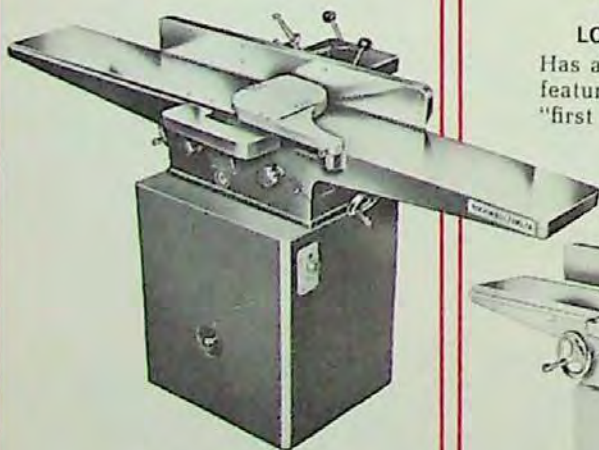
- No. 37-826 Dual Purpose Guard with thumb hold for handling small work. 11 lbs.
- No. 41-122 Motor Pulley, 7" diameter, $\frac{1}{2}$ " bore. 2 lbs.
- No. 41-123 Motor Pulley, 7" diameter, $\frac{5}{8}$ " bore. 2 lbs.
- No. 41-124 Motor Pulley, 7" diameter, $\frac{3}{4}$ " bore. 2 lbs.
- No. 49-363 Retractable Caster Set for No. 50-656 Open Steel Stand. 13 lbs.



NO. 50-111

- No. 50-111 Retractable Caster Set for 50-121 Totally Enclosed Steel Stand. 13 lbs.
- No. 50-121 New, Totally Enclosed Steel Stand. Includes 50-127 basic stand, 50-136 motor plate and 50-133 belt guard. 43 lbs.
- No. 50-656 Open Steel Stand, 29" high with top 8 x 16". 31 lbs.

SEE THE COMPLETE ROCKWELL DELTA QUALITY JOINTER LINE TODAY!

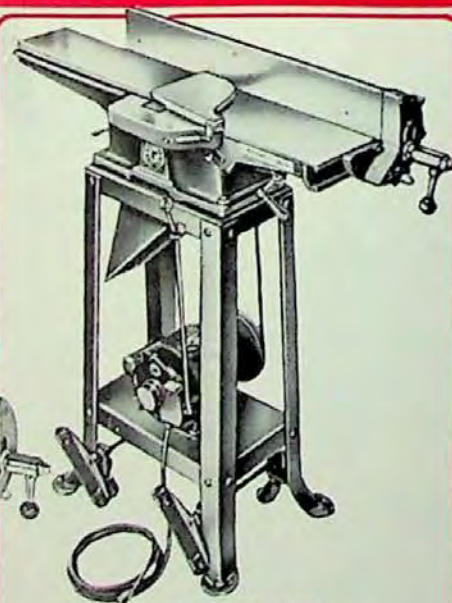
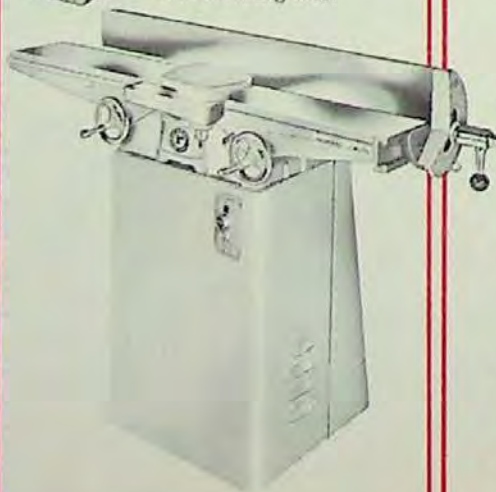


ROCKWELL DELTA 8" LONG-BED JOINTER

A rugged, heavy duty machine that offers the big capacity, precision accuracy and dependability for continuous production line work.

ROCKWELL DELTA 6" DELUXE LONG-BED JOINTER

Has all the built-in quality features that make it the "first choice" in schools, maintenance departments, production shops and on the building site.



ROCKWELL DELTA 4" PRECISION JOINTER

Economically priced, this husky jointer will do precision work, year after year. Its portability makes it easy to move from one job to another about the shop or on the building site.

ROCKWELL DELTA 4" Deluxe JOINTER

This ruggedly built, economically priced jointer incorporates many big jointer features. That's why it is so well accepted in the cabinet shop, out on the building site and in the school shop. Check these typical Rockwell Delta Quality Features:

Dual Control Handle—Simplifies fence adjustment for surfacing, chamfering, beveling and rabbeting... has positive stops at 90° and 45°, right and left.

Fully Adjustable Tables—Both front and rear tables adjust independently, enabling you to do more operations than on jointers with a fixed outfeed table.

Dove-Tailed Table Ways with Adjustable Gibs—Tables ride on dove-tailed ways with take-up gibs that assure life-long accuracy... a feature found only on more expensive, production type jointers.

Big Table—Spacious table, 5 $\frac{1}{4}$ " wide x 27 $\frac{1}{4}$ " long, provides ample support for working extra-long and wide stock.



ROCKWELL DELTA 4" DELUXE JOINTER

**OFFERS SAFETY,
CONVENIENCE AND
RUGGED CONSTRUCTION
FEATURES NOT FOUND
IN MANY HIGHER
PRICED MACHINES**



Delta Dual-Control Handle simplifies fence adjustment for surfacing, chamfering or beveling . . . features positive stops at most used fence positions of 90° and 45°, right and left.



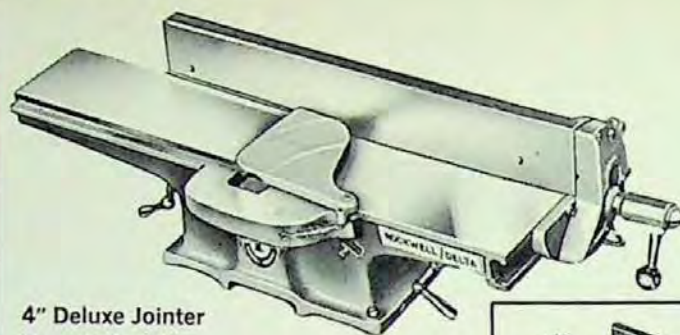
Cartridge Type, Three-Knife Cutterhead with 2" cutting circle, delivers 12,600 knife cuts per minute . . . features precision ground and balanced high speed steel knives . . . operates on lubricated-for-life ball bearings.



Front and Rear Tables Are Independently Adjustable for depth of cut . . . tables operate on gibbed dovetail ways, easily adjusted to compensate for wear . . . depth of cut scale is calibrated in 64ths for precise depth settings.



Full 27 1/4 Jointer Bed provides ample support for extra-long materials. Rigid 3 1/4 x 21 1/2 fence permits accurate beveling and chamfering.



4" Deluxe Jointer
(Bench Model)

Guard Completely Covers Cutterhead automatically pivots out of the way of work . . . easily removed for rabbeting.

The Delta Deluxe Jointer surfaces stock up to 4" wide . . . cuts rabbets 1/4" deep and 4" wide . . . also tapers, chamfers and bevels without added accessories. It offers many of the precision features normally found only in larger and higher priced machines—tables are finish ground after assembly to insure perfect alignment . . . fully adjustable infeed and outfeed tables . . . single control handle to position the fence for surfacing, chamfering or beveling.

MACHINE DATA

Overall Dimensions:

Length	32"
Width	12"
Height	
Bench Model	9 1/2"
On Stand	38 1/2"

Table:

Size	5 1/4" x 27 1/4" long
Ways	dovetailed
Height (On Stand)	35 1/4"

Fence:

Size	3 1/4" x 21 1/2" long
Tilt	45° r. and l.
Positive Stops	90°, 45° r. and l.

Capacity:

Width	4"
Depth	1/4"
Rabbeting	1/4" x 4"

Cutter head:

Number of Knives	3
Cutting Circle	2" dia.
Speed (with 1725 rpm motor)	4200 rpm

Bearings
sealed lubricated-for-life, ball



Deluxe Jointer
with Stand, Casters, Motor,
Switch Rod, Pulley and V-belt.

BASIC MACHINE ONLY

No. 37-290 4" Deluxe Jointer. With Swing Guard, Fence with Dual-Control Handle, Cutterhead Pulley and No. 37-806 Jointer Cutter Head with High-Speed Steel Knives. 66 lbs.

BASIC MACHINE WITH MOTOR, CONTROLS AND STAND COMPLETE

No. 37-251. Same as 37-290 except with No. 62-413 1/8 HP Motor, No. 41-113 Motor Pulley (5/8" bore), No. 560 V-Belt, No. 1333 Switch Rod, and No. 50-304 Stand with Dust Chute. 128 lbs.

MOTORS AND MOTOR CONTROLS For Single Phase Operation

No. 60-013. Motor, Split phase, 1/3 HP, 1725 RPM, 115 V, 60 Cycle, AC. Less Switch, cord and plug. 18 lbs.

No. 49-311. Switch, Cord and Plug Set. Includes 8'-16 gauge 3-wire rubber covered cord with 3-prong plug, adapter and single pole type toggle switch. For use with 60-013 motor. 1 lb.

BASIC ACCESSORIES

No. 49-363 Retractable Casters. 12 lbs.

No. 37-806 Jointer Cutter Head Assembly. Includes Bearings, Housings and No. 37-802 Set of 3 Knives. 8 lbs.

No. 37-802 Jointer Knives Only. High Speed Steel, Set of Three. 1/2 lb.

No. 41-112 Motor Pulley, 6 1/2" diameter, 1/2" bore. 2 lbs.

No. 41-113 Motor Pulley, 6 1/2" diameter, 5/8" bore. 2 lbs.

No. 41-114 Motor Pulley, 6 1/2" diameter, 3/4" bore. 2 lbs.

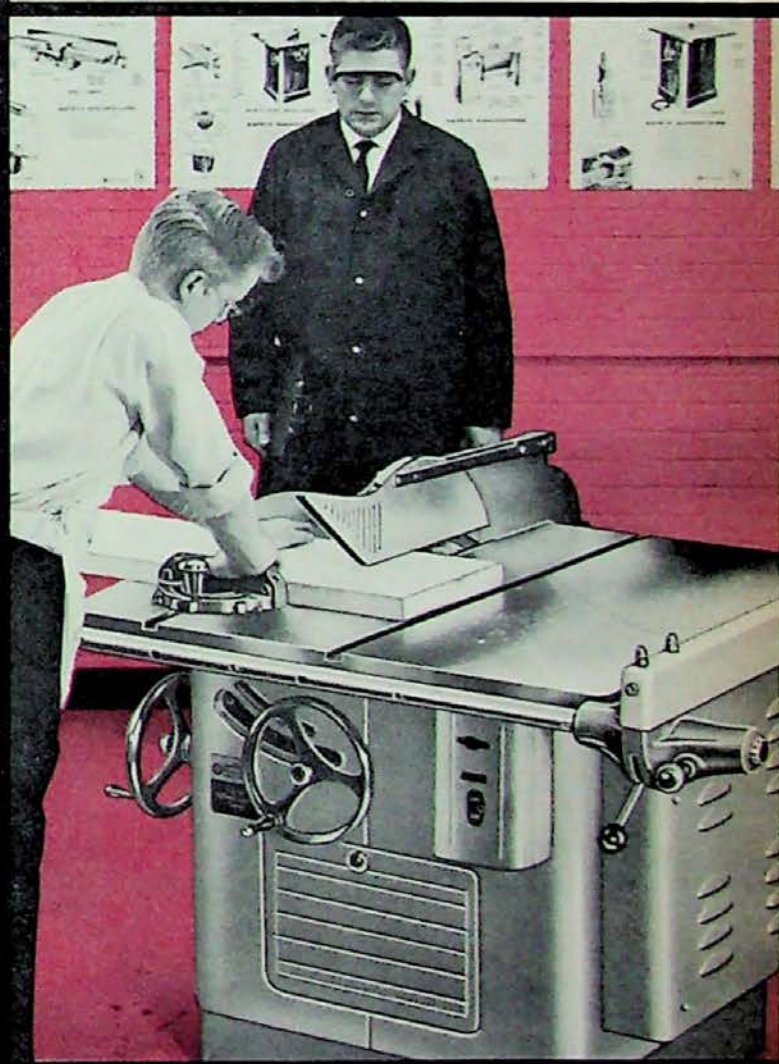
Heavy Duty Production Performer

NEW ROCKWELL DELTA 12"-14" Tilting Arbor Saw



Here's a saw with all the stamina and rugged construction needed for big job performance. It has ample power to zip through stock up to $5\frac{1}{8}$ " thick . . . extra big capacity for ripping to the center of a 100" panel.

Advanced features like 4-Belt Drive . . . Unique Set-Over Guide Rails . . . Micro-Set, Single Control Rip Fence . . . "Super-Safe," Swing-Type Blade Guard . . . Plus Rugged Construction Throughout make it an unmatched value in its class!



NEW ROCKWELL DELTA 12"-14" TILTING ARBOR SAW

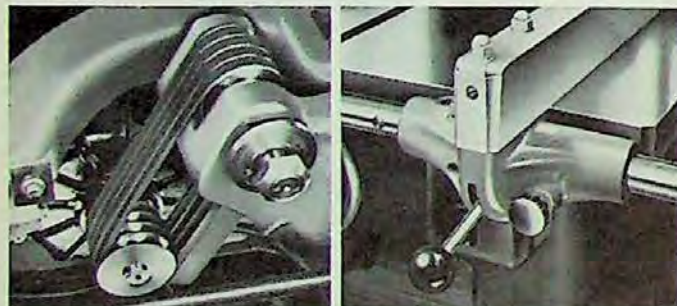
**DELTA QUALITY FEATURES
THAT EVERY USER WANTS!**



Extra Power with Big Capacity: The heavy duty 3, 5 or 7½ HP motors provide ample power to handle the toughest cutting jobs. You can cut stock up to 4½" thick using a 12" blade, up to 5½" thick using a 14" blade.



Big Front of Blade Capacity: The massive table on the Rockwell Delta 12"-14" Tilting Arbor Saw provides a full 19" of table in front of the blade when cutting 1" stock. With T-slot miter gage fully extended, you get a full 36" of capacity. This extra big capacity is especially valuable when cutting large panels.

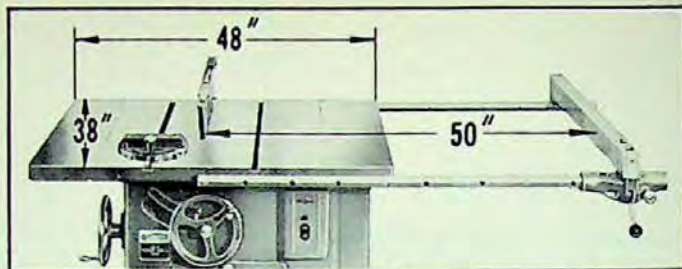


(Left) Modern, Superior Drive: Rockwell Delta's husky, 4-belt drive gives you constant, even power—no loss through slippage. To replace belts, simply slip them over the yoke.

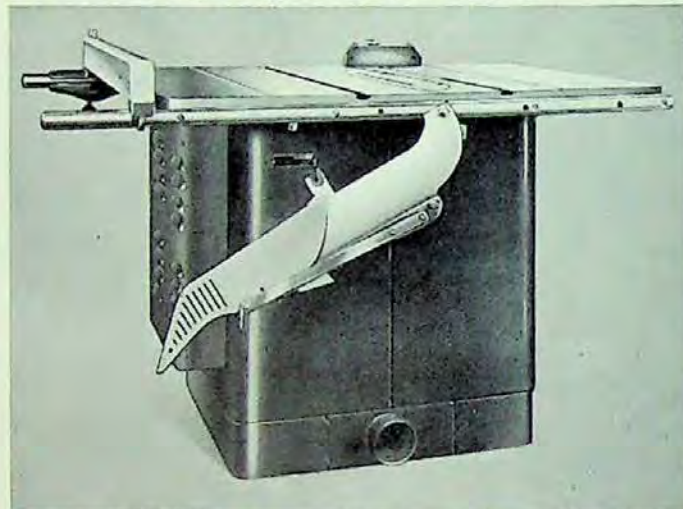
(Right) Superior, Two-Stage Fence Control: Single clamp handle initially locks fence to front guide rail as fence automatically aligns itself parallel to the saw blade. At second stage, fence securely locks to rear guide rail. Micro-Set® aluminum rip fence is finish ground for utmost accuracy. When necessary, it may be easily adjusted to maintain this accuracy.



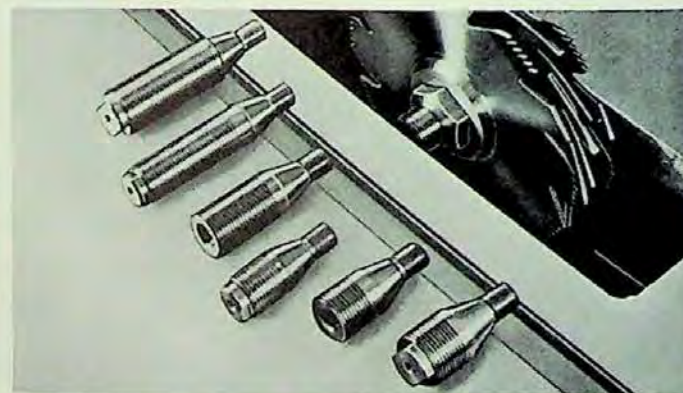
Correct Blade Tilt: Unlike some competitive saws, the blade on the Rockwell Delta 12"-14" Saw tilts to the right, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the left side of the blade.



Unique Set-Over Feature: Illustration shows how the Rip Fence Guide Rails can be set over to increase ripping capacity to the center of a 100" panel. Only Delta includes this important feature as Standard Equipment. Table measures 3'2" x 4', ample support for extra big jobs.



"Super-Safe," Swing Type Blade Guard: When necessary, blade guard may be quickly swung down, out of the way for dadoing and moulding. It is never necessary to detach it from the machine.

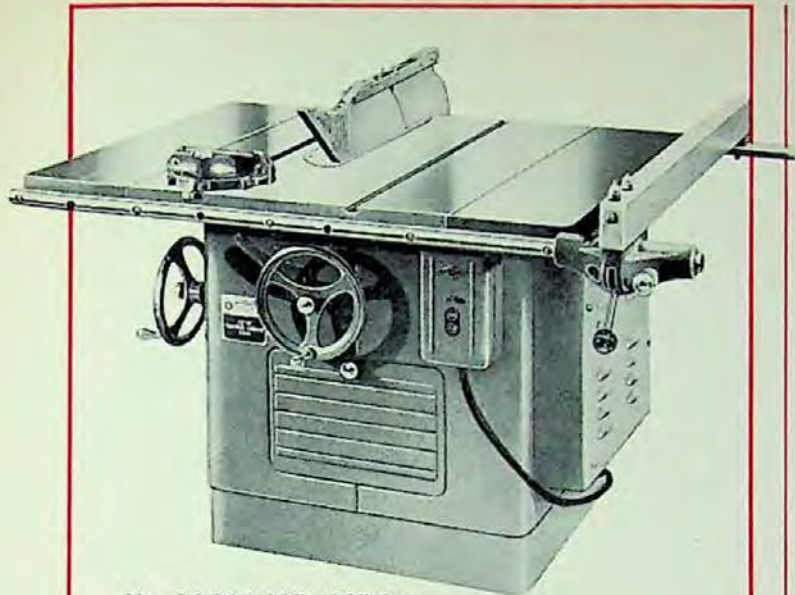


Wide Selection of Arbor Extensions Available: Only Delta makes seven different interchangeable arbor extensions available to permit the use of many saw accessories. For example, you can use dado heads up to 2" wide, accommodate saw blades with different size arbor holes, and do many other operations.

DELTA QUALITY EXTRAS

- Massive 3'2" x 4' table is scientifically ribbed to prevent distortion, assures a true, flat surface at all times.
- Micro-Set® adjustment and easy-to-read scale permits quick, accurate positioning of rip fence.
- Auto-Set® miter gage, with adjustable index stops, has massive, heavy body. T-bar holds securely in T slots in table to give maximum accuracy.
- Sealed, lubricated-for-life ball bearings eliminate need for lubrication.
- Large, easily operated hand wheels for tilting, lowering and raising blade, have positive lock knobs.

NEW ROCKWELL DELTA 12"-14" TILTING ARBOR SAW



No. 34-395 12"-14" Saw
Shown With Electricals.

**Cuts Stock 5 1/8" Thick . . .
Rips to Center of a 100" Panel!**

Here is a saw that gives you greater capacity than most 16" machines—a full 5 1/8" depth of cut . . . a big 3 5/8" capacity at 45° blade tilt. No other saw in the same price range offers this *big* capacity, plus all the built-in Delta Quality Features.

That's why this Rockwell Delta 12"-14" Saw meets the "big job" requirements of users in industry . . . on large construction sites . . . in lumber yards . . . and in vocational, trade and technical schools.

Compare this saw with any other make for capacity, quality and performance. You'll agree that it has no equal!

STANDARD EQUIPMENT

Basic 12"-14" Tilting Arbor Saw furnished with welded steel cabinet, 38" x 48" table with two extension wings, motor mounting plate, motor cover, miter gage, rip fence, guide rails and splitter-mounted guard for 12" or 14" diameter saw blades.

Motor pulley and set of four matched V-belts included with electrical kit.

MACHINE DATA

Diameter of Arbor 1"
Diameter of Saw Blade 12" or 14"

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase 3 Horsepower	Push Button Manual Starter with Overload	TEFC	60-3450	115/230	106	49-902
	Magnetic Starter with Push Button Control	TEFC	60-3450	115/230	109	49-903
	Push Button Manual Starter with Overload	TEFC	60-3450	230/460	126	49-904
Three Phase 5 Horsepower	Magnetic Starter with Push Button Control	TEFC	60-3450	230/460	130	49-905
	Magnetic Starter with Push Button Control (w/115V Transformer)	TEFC	60-3450	230/460	134	49-906
Three Phase 7 1/2 Horsepower	Magnetic Starter with Push Button Control	TEFC	60-3450	230/460	147	49-907
	Magnetic Starter with Push Button Control (w/115V Transformer)	TEFC	60-3450	230/460	151	49-908

NOTE: Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug not supplied. Motors and

Capacities:

Maximum Depth of Cut:	
With 12" Blade	4 1/8"
With 14" Blade (Blade is 1 3/16" Above Table When Arbor is in Lower Most Position)	5 1/8"
Maximum Rip to Right of Blade	30"
Maximum Rip to Right of Blade with Guide Bars in Set-Over Position	50"
Maximum Rip to Left of Blade	20"
Maximum Thickness of Cut at 45°:	
With 12" Blade	2 7/8"
With 14" Blade	3 5/8"
Distance, Front of Table to Center of Blade	22"
Table in Front of 12" Blade at Maximum Cut	16"
Maximum Width of Cut-Off with 12" Blade (1" Stock)	19"
Maximum Width of Dado Cut	2"

Table:

Height	34"
Size, Including Two Extensions	38" x 48"
T-Slot Miter Gage Groove on Either Side of Saw Blade. Removable Table Inserts with Built-In Levelling Screws.	

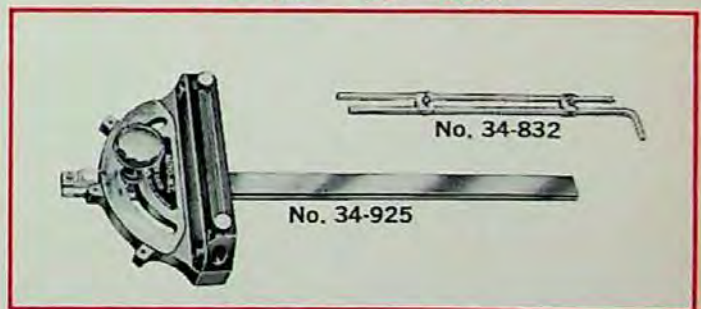
Cabinet Size 26 1/2" x 30"
Rip Fence Locks Front and Back Simultaneously with Single Operating Handle at Front of Machine.

Exhaust Opening for Dust Collection System . . . 4" Diameter
Speed with 12" Blade and 3450 RPM Motor 3750 RPM
Shipping Weight 820 lbs.

CATALOG LISTING

No. 34-395 Basic 12"-14" Tilting Arbor Saw, including welded steel cabinet, 38" x 48" table (including two table extensions), motor mounting plate, motor cover, 34-925 miter gage, rip fence, guide rails and 34-936 Super-Safe splitter-mounted guard for 12" or 14" diameter saw blades. Without saw blade, set of 4 matched V-belts, motor pulley, motor and starter. 820 lbs.

DELTA QUALITY ACCESSORIES THAT INCREASE THE VALUE OF THE 12"-14" SAW



No. 34-925 Auto-Set Miter Gage; less Stop Rods 15 lbs.

No. 34-832 Stop Rods for Miter Gage.

No. 34-936 Super-Safe Saw Guard, splitter-mounted, swing type. For 12" or 14" diameter saw blades. 13 lbs.

Continued on next page






motor controls for Rockwell Delta 12"-14" Circular Saws may be ordered unmounted. For listing, see Sections P and Q. Motor pulley and set of four matched V-belts included with electrical kits.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

NEW ROCKWELL DELTA 12"-14" TILTING ARBOR SAW

ACCESSORIES—Continued

COMPLETE SELECTION OF SAW BLADES

Catalog Number	Type of Blade	Diameter	Arbor Hole	
33-197 34-930 33-179	COMBINATION SAW BLADES (Flat Ground)		12" 1" 12" 1 1/8" 14" 1"	
33-199 34-931 33-180		RIP SAW BLADES (Flat Ground)		12" 1" 12" 1 1/8" 14" 1"
33-246 34-932			CROSSCUT BLADE (Flat Ground)		12" 1" 12" 1 1/8"
33-202 33-203	NOVELTY TOOTH COMBINATION SAW BLADES (Flat Ground)				12" 1" 14" 1"
33-228 34-933 33-182		MITRE SAW BLADES (Hollow-Ground) (4 cutting teeth) (1 raker tooth)		12" 1" 12" 1 1/8" 14" 1"
34-842	CARBIDE-TIPPED COMBINATION BLADE (24 Teeth With Alternate Top Bevel Grind)			*12" 1" or 1 1/8"

*Contains removable bushing.

DADO HEAD SETS

Heavy duty production type. Sets are made of high quality steel, carefully hardened and tempered. Blades and chippers are matched to assure clean, even cuts with or across the grain.

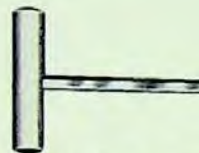


No. 33-174 No. 3 Production Type Dado Head Set. Consists of two hollow ground outer blades (10" diameter x 1/8" thick) and four inside cutters (one 1/4" thick; two 1/8" thick; one 1/16" thick). With 1" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 10 lbs.

No. 34-940 No. 4 Production Type Dado Head Set. Consists of two hollow ground outer blades (8" diameter x 1/8" thick) and four inside cutters (two 1/4" thick; two 1/8" thick; one 1/16" thick). With 1 1/8" arbor hole. Cuts grooves from 1/8" to 1 1/16" wide. 8 lbs.



No. 34-941 Moulding Cutterhead, heavy duty, solid steel, 6" diameter, to fit 1" or 1 1/8" saw arbors. Without wrench or knives. 10 lbs.



No. 1521 Allen Key Wrench for use with 34-941 Moulding Cutterhead. 1/8 lb.



No. 34-945 Dado Head and Moulding Cutter Table Insert for 12"-14" Tilting Arbor Saw. 2 lbs.

ARBOR EXTENSIONS

No. 34-942 Arbor Extension, 1 1/8" diameter, to accommodate dado and moulding cutterheads 1 1/16" wide. 2 lbs.

No. 34-943 Arbor Extension, 1 1/8" diameter, to accommodate dado or moulding cutterheads 2" wide. 2 lbs.

No. 34-947 Arbor Extension, 1" diameter, with collar, to accommodate saws with 1" arbor hole. 3 lbs.

No. 34-938 Arbor Extension, 1 1/8" diameter, with collar, to accommodate saws with 1 1/8" arbor hole. 3 lbs.

No. 34-948 Arbor Extension, 1 1/4" diameter, with collar, to accommodate saws with 1 1/4" arbor hole. 3 lbs.

No. 34-949 Arbor Extension, 1" diameter, to accommodate 2" wide dado head, 1" bore. 4 lbs.

No. 34-950 Arbor Extension, 1 1/4" diameter, to accommodate 2" wide dado head, 1 1/4" bore. 4 lbs.

V-BELTS AND MOTOR PULLEYS

No. 49-150 Set of 4 Matched V-Belts, 28 3/8". O.C. (per set). 2 lbs.

No. 41-746 Four-Groove Motor Pulley, 1" bore, 3 1/4" diameter. 5 1/4 lbs.

No. 41-747 Four-Groove Motor Pulley, 1 1/8" bore, 3 1/4" diameter. 5 lbs.

For additional circular saw accessories, see Section G6.



ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories

conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shut-downs and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.



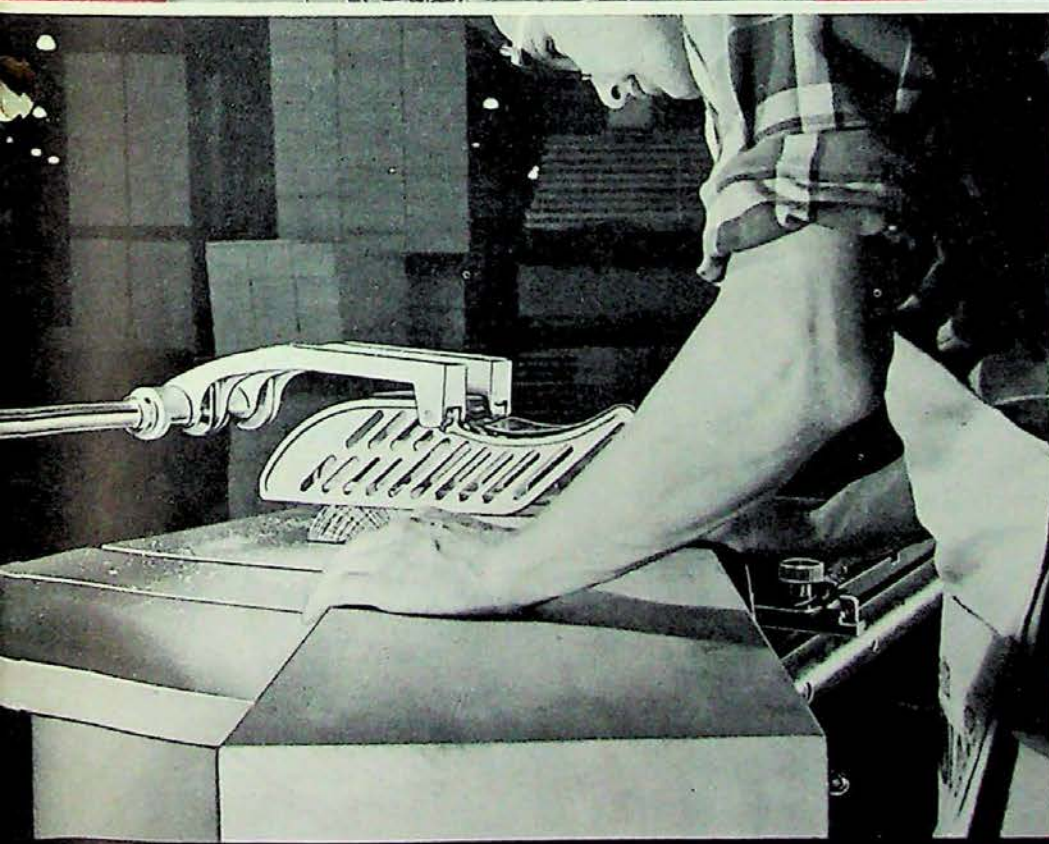
World Famous
**ROCKWELL
DELTA**
10" Tilting Arbor
UNISAW®

*An "All-Purpose" Saw
That's Built to Satisfy
the Needs of All Users
on Every Job!*

Here's a saw that has been
**IMITATED BY MANY BUT
NEVER EQUALLED!**

*Why? Because it is specially designed
and quality built, inside and out.
For example, it incorporates the
five Famous Delta Quality Features
(lubricated-for-life ball bearings,
precision bored bearing seats,
preloaded bearings,
a precision ground arbor and
dynamically balanced pulleys) . . .
a triple V-belt drive . . .
the revolutionary UNIGUARD
with exclusive, patented,
retractable splitter . . .
a single control, JET-Lock,
Micro-Set® rip fence . . .
extra long guide bars (accessory) for
ripping to the center of a 100" panel . . .
plus a complete line of heavy duty
motors that are designed exclusively
for the 10" UNISAW.*

*These are only a few of the many
reasons (see feature section for more)
why Rockwell Delta UNISAWS
have set the "standard"
in industry, year after year!*



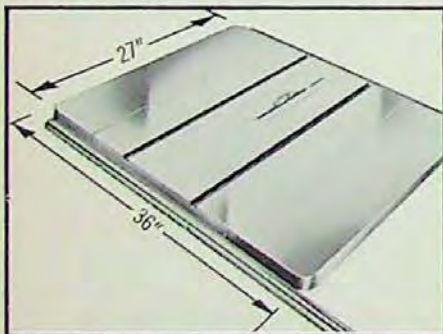
ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 10" TILTING ARBOR UNISAW®

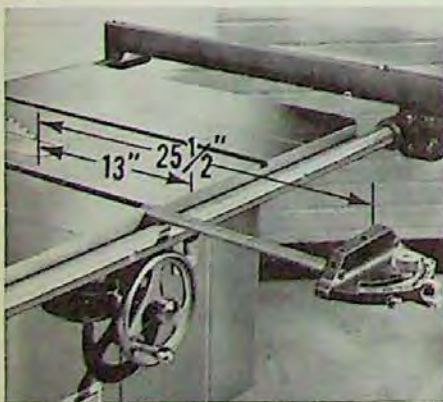
**DELTA QUALITY FEATURES
THAT MAKE THE
UNISAW® FIRST CHOICE
IN 10" SAWS!**



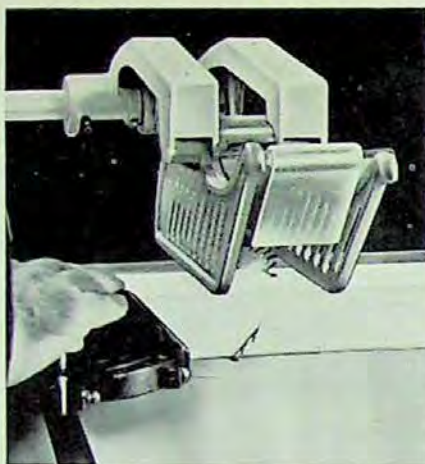
Giant Rip Capacity. Extra Long Guide Bars expand the rip capacity of the Delta 10" Unisaw to the center of a 100" panel. Give you the extra rip capacity usually found only on much larger and much more expensive saws. This low-cost accessory (No. 34-472) makes the Delta Unisaw the ideal machine for ripping large, bulky panels and other hard-to-handle materials. Note: Standard guide bars furnished with machine are used as supports for Extra Long Guide Bars.



Large, Specially Designed Table. Big 27 x 36" cast iron table (with wings) has accurately ground face for precision work. Table and wings are scientifically ribbed to prevent warping and springing.



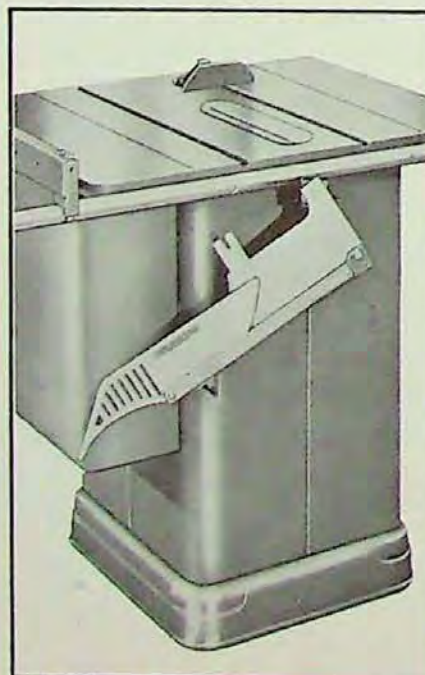
Modern T-Slot Table. T-slots on either side of saw blade hold miter gage securely, even beyond front of table. They provide accurate support for work up to 25½" on 1" stock. Miter gage can't twist or fall out.



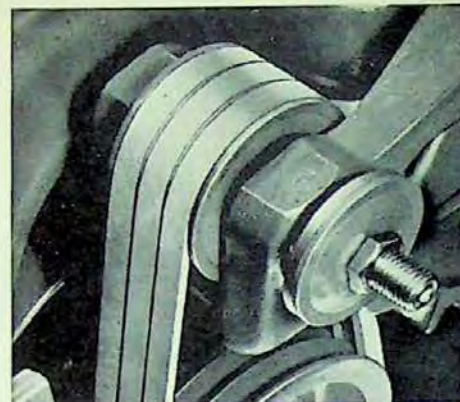
Correct Blade Tilt. Unlike some competitive saws, the blade on the Rockwell Delta 10" UNISAW® tilts to the right, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the left side of the blade.



Exclusive Jet-Lock, Micro-Set® Rip Fence. Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail, then, fence locks securely to rear guide bar. Fits old model UNISAWS and No. 1160 10" Tilting Table Saws. Order Part No. 422-04-355-0001.



Swing Type Safety Guard. "Super-Safe" blade guard quickly swings down, out of the way for dadoing and moulding operations. Never necessary to detach from machine.



Positive Traction, Three-Belt Drive. Three-belt drive makes use of all power from the motor—eliminates vibration and assures smooth operation. You get no loss of power through belt slippage.



Widely Spaced, Massive Trunnions. The heavy trunnions that carry the saw carriage are machined from fine-grained cast iron and are completely adjustable to insure perfect alignment.



Conveniently Placed Controls. Hand wheels are located at convenient height and proper position for easy operation. No interference between controls. Knobs in center of wheels lock mechanism at desired settings.

DELTA QUALITY EXTRAS

- New power with specially engineered 1½, 2 or 3 HP motor, plus the power transmission efficiency of famous 3-belt drive.
- Unique, extra safe saw guard—the UNIGUARD.
- Exclusive JET-LOCK Rip Fence.
- Sealed, lubricated-for-life ball bearings.
- Graduated front guide bar.
- Preferred tubular ripping extension.
- Precision ground, stress proof arbor, flange faced after assembly.
- Large door in front of base for easy removal of saw dust.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 10" TILTING ARBOR UNISAW®



No. 34-455 10" UNISAW®
Shown With Accessory 34-885 UNIGUARD, 34-843 Motor Cover and Electricals.



No. 34-455 10" UNISAW®
Shown With Accessory 34-471 Super-Safe Splitter-Mounted Guard, 34-843 Motor Cover and Electricals.

Rips to Center of a 50" Panel . . . 100" Panel with Long Guide Bars . . . Cuts Stock 3 1/8" Thick

The Rockwell Delta 10" UNISAW is a rugged, big capacity saw at an unmatched dollar-for-dollar value. It is the most popular cabinet model saw on the market today, used in a majority of the nation's schools and in thousands of millwork, furniture, cabinet and home workshops.

The tremendous acceptance of the UNISAW results from the fact that it offers these essential advantages to every user, on the job:

Rugged Durability. Massive table is fully ribbed to prevent distortion—carriage swings on strong, heavy trunnions with working surfaces fully machined . . . triple V-belt drive transmits full power and reduces vibration.

Versatility. With the Rockwell Delta UNISAW you can do precision ripping and cross cutting, plus dadoing, moulding and tenoning, all with complete accuracy even on a production basis.

Complete Safety. Drive mechanism, including all belts, is completely contained in the steel cabinet. Unique UNIGUARD provides full protection for all saw operations . . . has practically no operational limitations. Patented JET-LOCK Micro-Set® rip fence automatically aligns itself as it locks to the front guide rail, then locks securely to the rear guide bar, all with one swift downward movement of the operating handle.

Precision Accuracy. Built-in Rockwell Delta Quality features assure continuing precision accuracy through years of service.

STANDARD EQUIPMENT

Basic 10" Tilting Arbor UNISAW® furnished with JET-lock rip fence, combination blade, miter gage, front grad-

uated guide bar, rear guide bar, table insert, motor pulley with 3/4" bore and set of three matched V-belts.

MACHINE DATA

Diameter of Arbor 5/8"
Diameter of Saw Blade 10"

Capacities:

Maximum Depth of Cut 3 1/8"
Maximum Rip to Right of Blade . . . 25"
Maximum Rip to Right of Blade with Extra Long Guide Bars (Accessory) 50"
Maximum Rip to Left of Blade . . . 15 1/2"
Maximum Thickness of Cut at 45° 2 1/8"
Distance, Front of Table to Center of Blade 16 1 3/16"
Table in Front of Saw Blade at Maximum Cut 12 1/4"
Maximum Width of Dado 1 3/16"

Table:

Height 34"
Size 20 x 27"
Size with Extension Wings . . . 36 x 27"
T-slot Miter Gage Groove . . . 3/8 x 3/4"

Overall Dimensions

(With Wings and Guide Bars)
35 3/4" deep x 45 3/8" wide x 36 3/4" high

Rip Fence Locked Both Front and Back by Single Operating Handle at Front of Machine

Speed with 3450 RPM Motor . . . 4000 RPM
Shipping Weight 330 lbs.

CATALOG LISTING

No. 34-450 Basic Machine Less Guard, Splitter and Extension Wings: Includes 10" Tilting Arbor UNISAW®, JET-LOCK rip fence, 1015 combination blade, 34-884 miter gage, front graduated guide bar, rear guide bar, 1451 table insert, 41-644 motor pulley (3/4" bore) and 49-124 set of three matched V-belts. Without motor and switch. 282 lbs.

No. 34-455 Basic Machine Less Guard and Splitter: Same as 34-450 but with 1455 pair of extension wings. Without motor and switch. 335 lbs.

Continued on next page

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1 1/2 Horsepower (Repulsion Induction)	Push Button Switch Only	TENV	60-3450	115/230	79	49-809
	Push Button and Overload Switches	TENV	60-3450	115/230	81	49-811
	Push Button Switch and Magnetic Starter	TENV	60-3450	115/230	87	49-810
Single Phase, 1 1/2 Horsepower (Capacitor Start)	Push Button Switch Only	TEFC	60-3450	115/230	60	49-812
	Push Button and Overload Switches	TEFC	60-3450	115/230	63	49-814
	Push Button Switch and Magnetic Starter	TEFC	60-3450	115/230	68	49-813
Single Phase, 2 Horsepower	Push Button Switch Only	TEFC	60-3450	115/230	70	49-815
	Push Button and Overload Switches	TEFC	60-3450	115/230	73	49-816
	Push Button Switch and Magnetic Starter	TEFC	60-3450	115/230	78	49-817
Single Phase, 3 Horsepower	Push Button Manual Starter w/Overload	TEFC	60-3450	115/230	85	49-818
	Push Button Switch and Magnetic Starter	TEFC	60-3450	115/230	91	49-819
	Push Button and Overload Switches	TENV	60-3450	230/460	63	49-820
Three Phase, 2 Horsepower	Push Button Switch and Magnetic Starter	TENV	60-3450	230/460	67	49-821
	Push Button Switch and Magnetic Starter (w/115 V. Transformer)	TENV	60-3450	230/460	71	49-822
	Push Button Manual Starter w/Overload	TEFC	60-3450	230/460	73	49-823
Three Phase, 3 Horsepower	Push Button Switch and Magnetic Starter	TEFC	60-3450	230/460	77	49-824
	Push Button Switch and Magnetic Starter w/115V Transformer	TEFC	60-3450	230/460	81	49-825

NOTE: Single phase electricals will be supplied wired for 230 V. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug supplied on 1 1/2 HP single phase UNI-

SAWS only. Motors and motor controls for Rockwell Delta 10" UNISAWs may be ordered unmounted. For listing, see Sections P and Q.

ROCKWELL DELTA 10" TILTING ARBOR UNISAW®

CATALOG LISTING—Continued

No. 34-885 UNIGUARD, for all Rockwell Delta 10" UNISAWS®. Includes table mounting bracket, support arm, two bracket arms, two guards, plastic shield, splitter assembly with anti-kickback fingers and instructions for mounting. 16 lbs.

No. 34-471 Super-Safe, Swing-Type, Splitter-Mounted Guard complete. 11 lbs.

**DELTA QUALITY
ACCESSORIES
THAT INCREASE
THE VERSATILITY
OF THE 10" UNISAW®**

Saw Blades (with 5/8" arbor hole. Each 1 1/2 lbs.)

NUMBER	TYPE	DIAMETER
1015	Combination	10"
1016	Hollow Ground	10"
1017	Rip	10"
1018	Cross Cut	10"
34-707	Plywood (200 teeth) For fine finish work.	7"

Carbide-Tipped Combination. Recommended for general purpose use on hard or soft woods, certain plastics, laminates, non-ferrous metals, transite and non-metallic roofing. Each tooth has an alternate top bevel grind (ATB). Entire blade is hard chrome finished.

NUMBER	ARBOR	TEETH	DIAMETER
34-840	5/8"	24	9"
34-841	5/8"	24	10"

No. 1451 Standard Table Insert. 1 3/4 lbs.



No. 1452 Dado Head Table Insert (for 6" diameter dado heads only). 1 1/2 lbs.

No. 1453 Moulding Cutterhead Table Insert. 1 1/2 lbs.

No. 1455 Side Extension Wings to make table 36 x 27" (per pair). 53 lbs.

No. 34-472 Extra Long Guide Bars that permit ripping to center of a 100" panel. 19 lbs.

No. 34-843 Motor Cover with mounting hardware. 7 lbs.

No. 41-644 Motor Pulley, 3-groove, 3/4" bore. 1 1/8 lbs.

No. 49-124 V-Belts, matched set of three, 26 1/8" O.C. 1 1/2 lbs.

No. 49-302 Stop Rods for 50-864 Miter Gage, 5/16" diameter, with two clamps and two screws. 1/2 lb.

For additional saw accessories, see Section G6.

Revolutionary UNIGUARD for all Rockwell Delta UNISAWS®

- A Completely Safe Saw Guard
- Has Practically No Operational Limitations
- Permits Ripping to the Center of a 50" Panel

In industry, the building trades, custom and school shops, users express the same requirements of a saw guard. It must provide full protection for all saw operations; it should be easy to use; it should be easy to remove and replace.

The Rockwell Delta UNIGUARD meets all of these requisites and more! Here's why:

Gives complete protection for all operations. ▪ Mounts easily without special machining. ▪ Unique, double basket with "disappearing" splitter makes even rabbeting operations safe. ▪ Splitter has anti-kickback protection feature. ▪ Fixed splitter maintains perfect alignment with saw blade at all times. ▪ "Clear-View" basket offers excellent visibility for every operation. ▪ Offers extra large capacity with maximum safety. ▪ Low in cost... less than half the price of comparable guards.

CATALOG LISTING

No. 34-885 UNIGUARD, for all Rockwell Delta UNISAWS®. Includes table mounting bracket, support arm, two bracket arms, two guards, plastic shield, splitter assembly with anti-kickback fingers and instructions for mounting. 16 lbs.

**PROVIDES GREATER SAFETY
FOR THESE AND MANY OTHER JOBS!**



Big Cut-Off Capacity—Modern, operator-engi-



Unique Disappearing Splitter. For dadoing and similar operations, flip basket up, remove saw insert and depress splitter... a two-second operation. For ripping or cross-cutting, reverse this easy, quick operation.

neered UNIGUARD provides unusually wide cut-off capacity. With miter gauge extended to end of T-slot, operator can cut off stock up to two feet wide.



(Left) Moulding—UNIGUARD affords excellent operator protection for all jobs, even when the "disappearing" splitter is not required. Split basket design permits basket to raise up onto stock while other basket stays on table for maximum operator protection.

(Right) Rabbeting—This close-to-fence operation heretofore could not be performed with a conventional guard. The UNIGUARD's "disappearing" splitter and lateral adjustment feature make it completely safe.



(Left) Ripping Thin Stock—Special split basket design permits use of push stick between rip fence and adjustable plastic shield. Splitter fingers prevent kickback of stock.

(Right) Angle Cutting—UNIGUARD's retractable splitter tilts with the arbor while the "CLEAR-VIEW" basket remains stationary. Provides operator increased visibility.

NOW!
*For the First Time
a Bench Saw
That Offers:*

- *Extra Smooth,
Precision Cutting.*
- *Big Saw Performance.*
- *Large Table
Capacity.*
- *Easily Operated
Controls.*
- *Rugged
Construction
Throughout.*

ROCKWELL DELTA
10" Tilting Arbor
BENCH
SAW



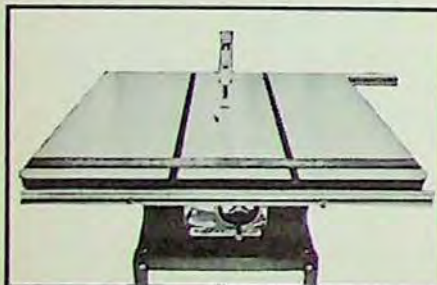
ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

ROCKWELL DELTA 10" TILTING ARBOR BENCH SAW

**DELTA QUALITY FEATURES
THAT ASSURE TOP QUALITY
SAW PERFORMANCE!**



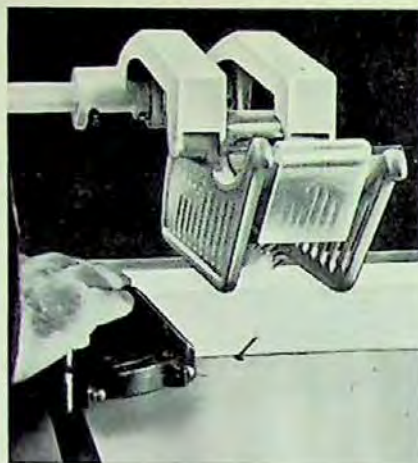
Big Saw Capacities. This new Delta saw offers capacities not usually found in bench saws—cuts stock $3\frac{1}{8}$ " thick . . . rips to center of a 50" panel, 100" with Extra Long Guide Bars (accessory).



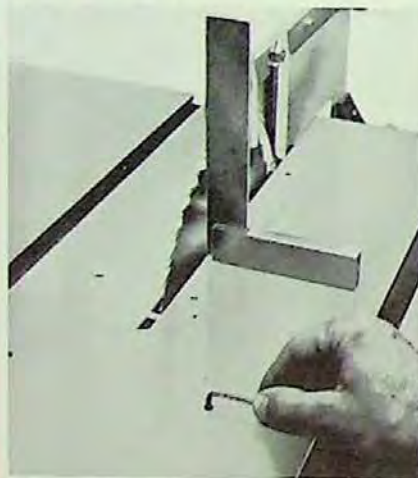
Extra Large Table Surface. Big 36" x 27" table (with wings) provides extra support for handling large panels. Precision ground table is scientifically ribbed to prevent warping and distortion.



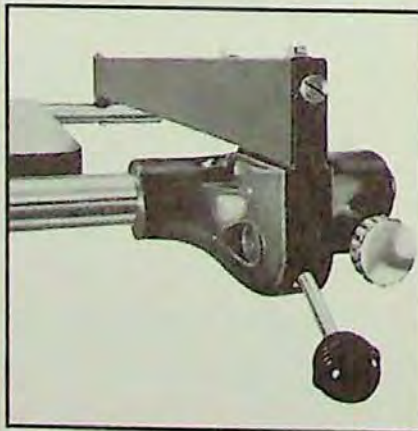
Preferred T-Slot Table. T-slots on either side of saw blade hold miter gage securely, even beyond front of table. They provide accurate support for work up to $25\frac{1}{2}$ " on 1" stock. Miter gage can't twist or fall out.



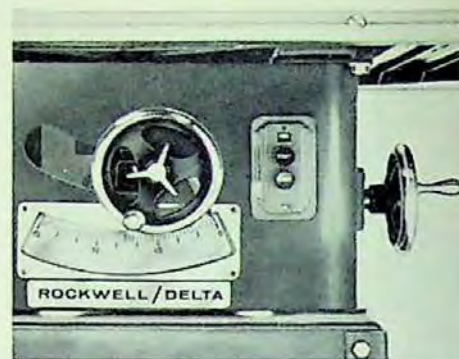
Correct Blade Tilt. Unlike some competitive saws, the blade on the Rockwell Delta 10" Bench Saw tilts to the right, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the left side of the blade.



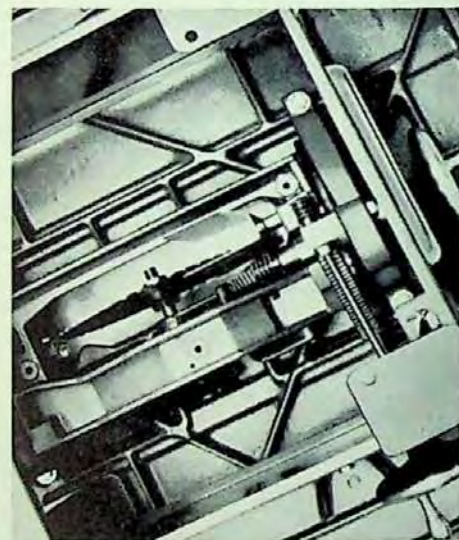
Adjustable Positive Stops on Table. Saw blade stops can be adjusted for perfect 90° and 45° settings on the top of the table. Saw blade insert contains similar adjusting screws for levelling insert in place.



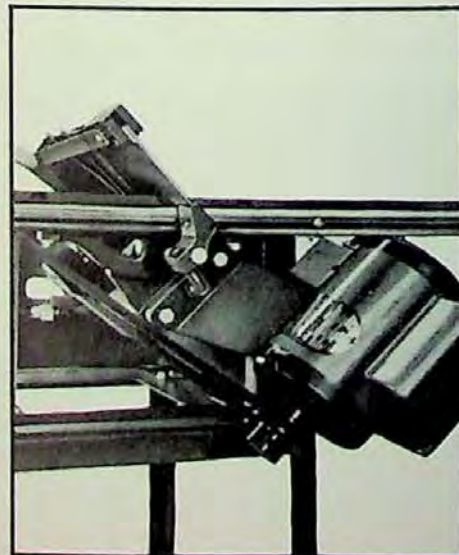
Exclusive Jet-Lock Rip Fence. Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail, then, fence locks securely to rear guide bar. Fits old model UNISAWS and No. 1160 10" Tilting Table Saws. Order Part No. 422-04-355-0001.



Conveniently Grouped Controls. All controls are grouped "up front" for fast, safe operation. Smooth functioning rack and gear mechanism makes it easy to raise, tilt and lower saw blade while 3-spoke lock holds desired saw settings.

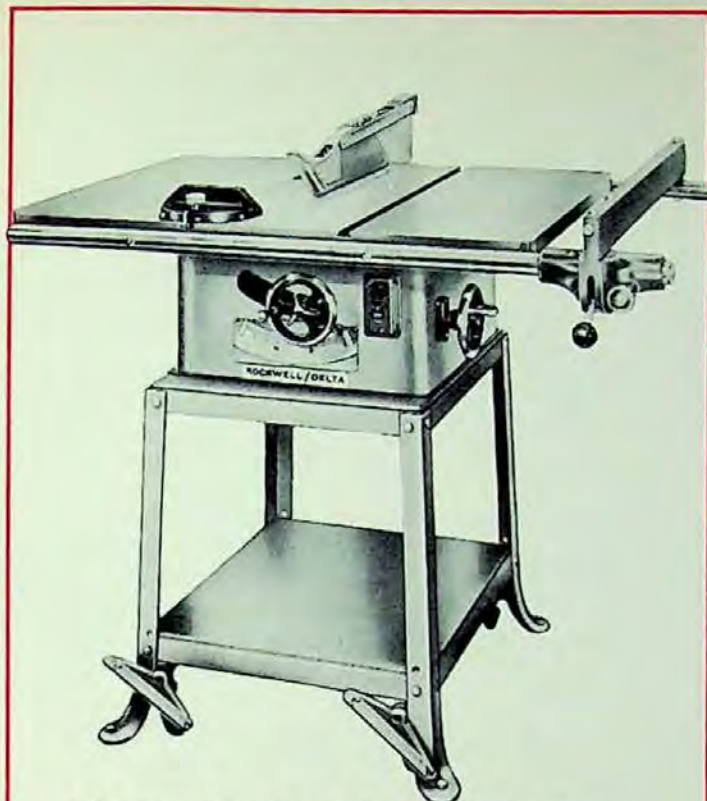


Rugged Interior Construction. The heavy trunnions support a large cast iron trunnion bracket which carries the arbor assembly. Note husky rack and gear mechanism that assures smooth, easy positioning of saw blade.



Excellent Power Transmission. Observe how motor and V-belt tilt with the saw blade. This means full, even power transmission to the saw with less wear and strain on the V-belt and motor.

ROCKWELL DELTA 10" TILTING ARBOR BENCH SAW



10" Tilting Arbor Bench Saw Shown with Accessory 50-315 Steel Stand, 34-828 Splitter-Mounted Guard, 1455 Table Extension Wings, 49-364 Retractable Casters, and Electricals.

Also Made in Canada.



10" Tilting Arbor Bench Saw Shown with Accessory 34-828 Splitter-Mounted Guard, 1455 Table Extension Wings and Electricals.

Every user, from industry to the cabinet or school shop, wants a saw that will provide these important features—big capacity . . . large table surface . . . quick operating, self-aligning fence . . . conveniently grouped controls . . . plus rugged interior construction.

You get *all these* features, and more, with the Rockwell Delta 10" Tilting Arbor Bench Saw!

Let us demonstrate this *new standard* in bench saws for you today . . . prove that it's the **BIGGEST VALUE** in its class!

STANDARD EQUIPMENT

Basic 10" Tilting Arbor Bench Saw furnished with JET-lock rip fence, combination blade, miter gage, front graduated guide bar, rear guide bar, table insert, motor pulley with $\frac{5}{8}$ " bore and V-belt.

MACHINE DATA

Diameter of Arbor	..... $\frac{5}{8}$ "
Diameter of Saw Blade	..... 10"
Capacities:	
Maximum Depth of Cut	..... $3\frac{1}{8}$ "
Maximum Rip to Right of Blade	..... 25"
Maximum Rip to Right of Blade with Extra Long Guide Bars (Accessory)	..... 50"
Maximum Rip to Left of Blade	..... $15\frac{1}{2}$ "
Maximum Thickness of Cut at 45°	..... $2\frac{1}{8}$ "
Distance, Front of Table to Center of Blade	..... $16\frac{13}{16}$ "
Table in Front of Saw Blade at Maximum Cut	..... $12\frac{1}{4}$ "
Maximum Width of Dado	..... $1\frac{3}{16}$ "

Table:

Height (Bench Model)	..... $12\frac{1}{4}$ "
Height (On Steel Stand)	..... $33\frac{1}{2}$ "
Size	..... 20 x 27"
Size with Extension Wings	..... 36 x 27"
T-slot Miter Gage Groove	..... $\frac{3}{8}$ x $\frac{3}{4}$ "

Overall Dimensions

(With Wings and Guide Bars)..... $30\frac{1}{4}$ " x $45\frac{3}{8}$ "

Rip Fence Locked Both Front and Back by Single Operating Handle at Front of Machine

Speed with 3450 RPM Motor..... 4000 RPM

Shipping Weight..... 185 lbs.

CATALOG LISTING

No. 34-400 Basic Machine Less Guard, Splitter and Extension Wings: Includes 10" Tilting Arbor Bench Saw, JET-LOCK rip fence, 1015 combination blade, 34-884 miter gage, front graduated guide bar, rear guide bar, 1451 table insert, 41-203 motor pulley with $\frac{5}{8}$ " bore and 49-145 V-belt. Without motor and switch. 185 lbs.

MOTORS AND CONTROLS FOR SINGLE PHASE OPERATION

No. 62-731 Motor, 1 HP, capacitor, 115/230 V, 60 cy, AC, 3450 rpm, TEFC. Includes 115 V 8-foot cord with 3-prong grounding type plug but with no control switch. 34 lbs.

No. 62-751 Motor, 1½ HP, capacitor, 115/230 V, 60 cy, AC, 3450 rpm, TEFC. Includes 230 V 8-foot cord with 3-prong grounding type plug but with no control switch. 43 lbs.

No. 34-891 Push Button Manual Control Switch and Wiring Kit for use with 62-731 or 62-751 Motor (also can be used on DC motors). 3 lbs.

FOR THREE PHASE OPERATION

No. 66-739 Motor, 1 HP, 230/460 V, 60 cy, AC, 3450 rpm, TEFC. Without switch or power cord. 23 lbs.

No. 66-759 Motor, 1½ HP, 230/460 V, 60 cy, AC, 3450 rpm, TEFC. Without switch or power cord. 34 lbs.

No. 49-669 Switch, Overload. Used with 34-893 Switch. Easy to mount on steel stand with 49-848 mounting bracket. Specify motor and voltage when ordering. 3 lbs.

No. 49-665 Starter, Magnetic. For 60 cy, 208-230/460 V. Provides low-voltage, no-voltage and overload protection. Does not include start-stop station; use No. 34-892 Remote Control Kit. Easy to mount on steel stand with 49-848 Mounting Bracket. Specify motor number and voltage when ordering. 6 lbs.

No. 34-893 Push Button Manual Control Switch and Wiring Kit for use with 66-739 or 66-759 Motor (also can be used with DC motors). 3½ lbs.

No. 34-892 Push Button Magnetic Control Switch and Wiring Kit for use with 66-739 or 66-759 Motor and 49-665 Magnetic Starter. 3 lbs.

No. 49-848 Mounting Bracket. Includes screws for mounting 49-669 Overload Switch or 49-665 Magnetic Starter on steel stand. 3 lbs.

Continued on next page

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

ROCKWELL DELTA 10" TILTING ARBOR BENCH SAW

CATALOG LISTING—Continued

CONVENIENT ALL-INCLUSIVE NUMBERS FOR SINGLE PHASE OPERATION

No. 34-401 10" Tilting Arbor Bench Saw complete. Includes 34-400 Saw with 1455 Pair of Side Extension Wings, 50-315 Steel Stand, 34-828 Splitter-Mounted Guard, 62-731 1 HP Motor and 34-891 Manual Control Switch and Wiring Kit. 323 lbs.

No. 34-403 10" Tilting Arbor Bench Saw complete. Same as No. 34-401 but with No. 62-751 1½ HP motor. 332 lbs.






FOR THREE PHASE OPERATION

No. 34-402 10" Tilting Arbor Bench Saw complete. Includes 34-400 Saw with 1455 Pair of Side Extension Wings, 50-315 Steel Stand, 34-828 Splitter-Mounted Guard, 66-739 1 HP Motor, 34-893 Manual Control Switch and Wiring Kit, 49-669 Overload Switch and 49-848 Mounting Bracket. 329 lbs.

No. 34-404 10" Tilting Arbor Bench Saw complete. Same as No. 34-402 but with No. 66-759 1½ HP motor. 338 lbs.

DELTA QUALITY ACCESSORIES THAT INCREASE THE VALUE OF THE 10" BENCH SAW

Saw Blades (with 5/8" arbor hole. Each 1½ lbs.)

NUMBER	TYPE		DIAMETER
1015	Combination		10"
1016	Hollow Ground		10"
1017	Rip		10"
1018	Cross Cut		10"
34-707	Plywood (200 teeth) For fine finish work.		7"

Carbide-Tipped Combination. Recommended for general purpose use on hard or soft woods, certain plastics, laminates, non-ferrous metals, transite and non-metallic roofing. Each tooth has an alternate top bevel grind (ATB). Entire blade is hard chrome finished.

NUMBER	ARBOR	TEETH	DIAMETER
34-840	5/8"	24	9"
34-841	5/8"	24	10"

No. 1451 Standard Table Insert.....1¾ lbs.



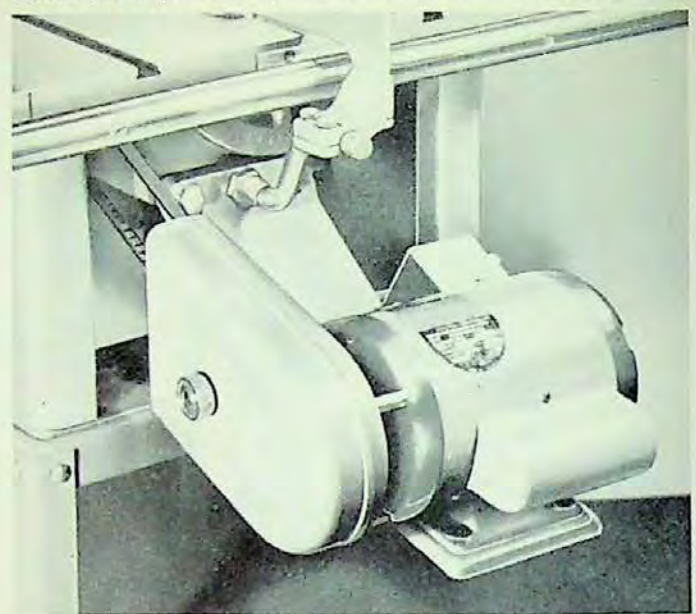
No. 1452 Dado Head Table Insert
(for 6" diameter dado heads only).....1½ lbs.

No. 1453 Moulding Cutterhead Table Insert.....1½ lbs.

No. 1455 Side Extension Wings to make table 36 x 27"
(per pair)53 lbs.

No. 34-472 Extra Long Guide Bars that permit ripping
to center of a 100" panel.....19 lbs.

No. 34-828 Super-Safe Splitter-Mounted Guard.....8½ lbs.

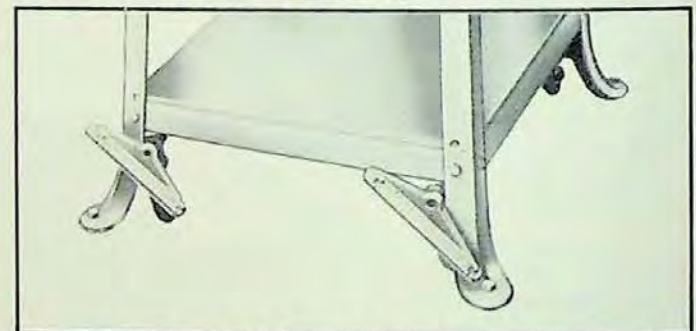


No. 34-886 Belt Guard. Encloses entire V-belt and motor pulley, preventing small pieces of stock from striking and damaging the belt or pulley during operation....4 lbs.

No. 41-203 Motor Pulley, 5/8" bore, 3" diameter,
for 3450 rpm motors.....2 lbs.

No. 49-145 V-belt, 46" O.C., for 62-731, 62-751, 66-739
and 66-759 Motors.....½ lb.

No. 49-302 Stop Rods for Miter Gage.....½ lb.



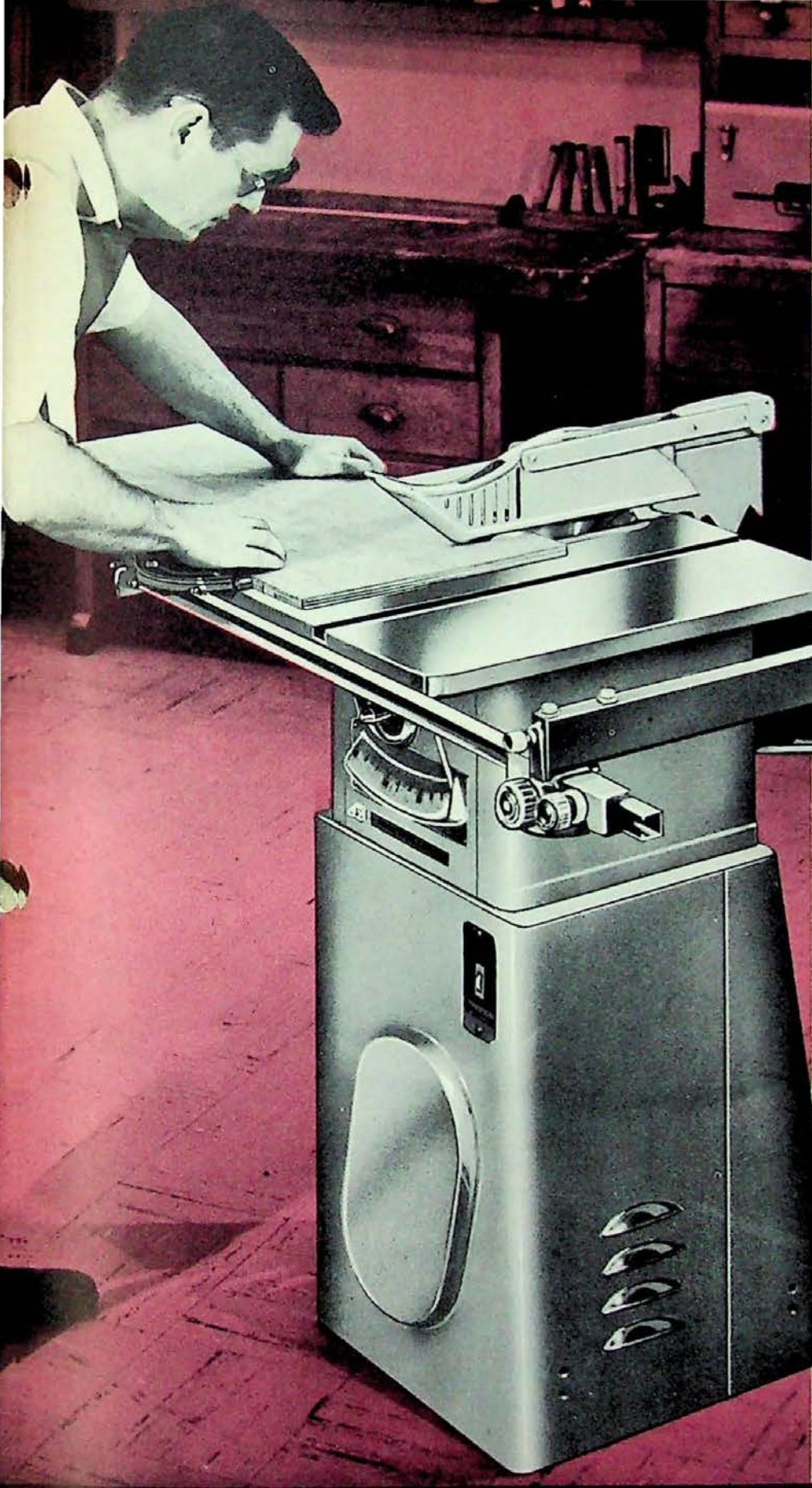
No. 49-364 Retractable Caster Set.....13 lbs.

No. 50-315 Steel Stand, 24" high with 20 x 22½" top...50 lbs.

For additional accessories, see Section G6.

ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shutdowns and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.



ROCKWELL DELTA 9" Tilting Arbor BENCH SAW

An economically priced saw that's especially suited for the small builder, cabinet or pattern maker, school shop instructor or homemaker.

Here's why:

Big Capacity—Provides 2 $\frac{3}{4}$ " depth of cut . . . long guide rails (furnished as standard equipment) permit ripping to the center of a 4-foot panel.

Convenient Controls—Angled tilt scale, raising and tilting controls are compactly grouped for quick, easy operation.

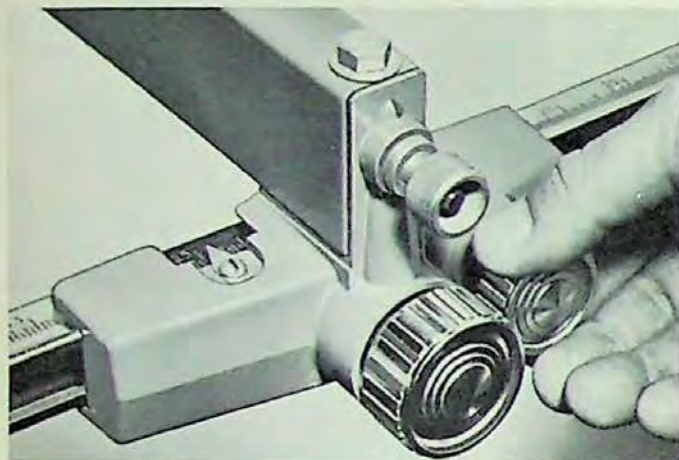
Excellent Rip Fence Design—Fence is self-aligning . . . has Micro-Set® adjustment feature for fine settings.

Unmatched Versatility—Rockwell Delta's wide range of accessories enables you to do dozens of jobs—moulding, dadoing, tenoning, curve cutting and many more.

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

ROCKWELL DELTA 9" TILTING ARBOR CIRCULAR SAW

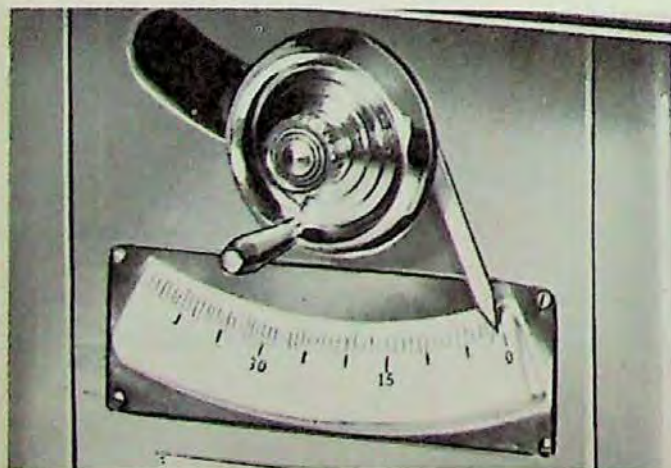
**DELTA QUALITY FEATURES
FOR UNMATCHED ACCURACY,
SAFETY AND CONVENIENCE**



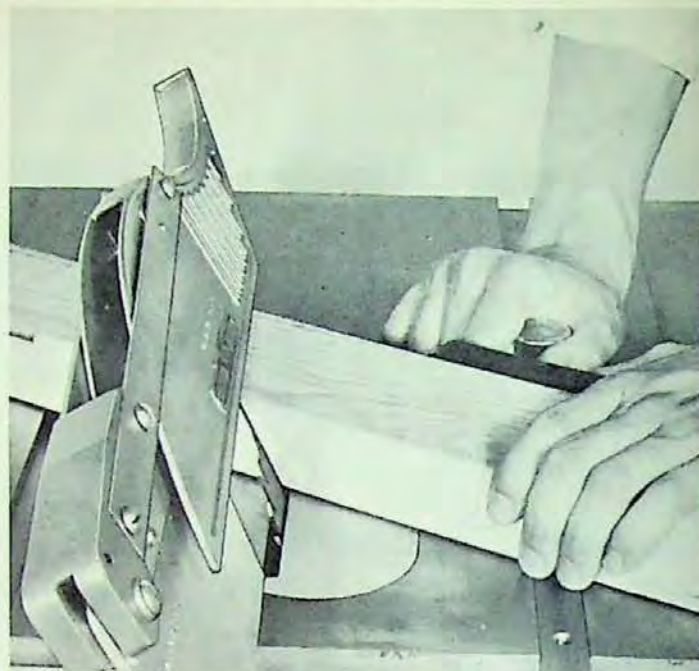
Micro-Set® rip fence has all controls located up front. Fence locks securely to guide bars at both front and rear. Micro-Set® feature simplifies extra fine rip fence adjustment.



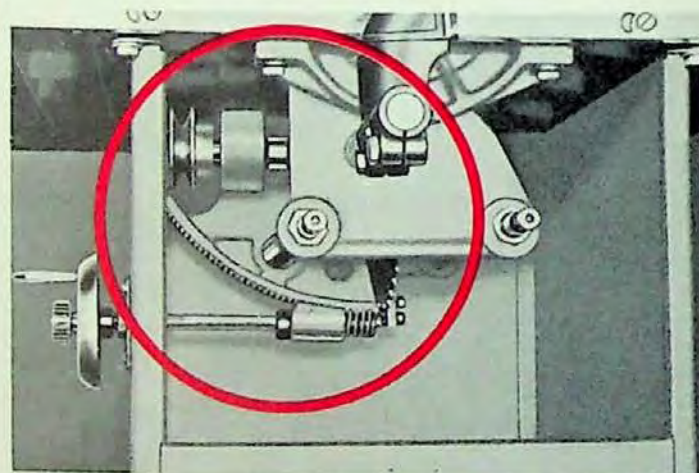
Precision ground 25 x 15" table (25 x 22" with extensions), scientifically ribbed to prevent warping, furnishes ample support for ripping large bulky panels or other hard-to-handle materials.



Blade raising and tilting controls located up-front within easy operator reach for fast, safe operation . . . easy-to-read tilt scale facilitates angle settings . . . protected on-off switch prevents accidental starts.



Big 9" blade cuts stock a full 2 3/4" thick; angle cuts 2" at 45°. Rips to the center of a 48" panel with standard guide bars provided. Blade tilts away from operator's hand.



Positive action rack and worm gear, blade elevating and tilting mechanism out-performs and out-wears cheap threaded screw and nut arrangements of competitive saws.



"Auto-set" miter gauge included as standard equipment, features adjustable positive stops at most used positions of 90° and 45° R & L . . . accurately calibrated scale facilitates in-between settings through 120° swing.

Preloaded, lubricated-for-life ball bearings with precision bored bearing seats and accurately ground arbor assure longer trouble-free operation, better all-around performance.

ROCKWELL DELTA 9" TILTING ARBOR CIRCULAR SAW



9" Circular Saw With Extension Wings, Motor, No. 50-127 Enclosed Stand, Accessory No. 34-671 Super-Safe Blade Guard and Accessory No. 50-111 Retractable Casters.

The Delta 9" Tilting Arbor was built with just one thought in mind—to produce a machine that would offer precision accuracy, big capacity, maximum convenience and more built-in value than any similar saw on the market today—all at exceedingly low cost!

You will agree when you check its many fine features such as 2 3/4" depth of cut . . . large 22" by 25" table (with extension wings) . . . handy up-front fence and blade controls . . . precision bored bearing seats . . . sealed, lubricated-for-life ball bearing construction throughout . . . and more.

Although low in cost, this fine Delta saw offers all of the accuracy, rigidity, power and ease of operation needed to make it an ideal unit for the building trades and the discriminating home craftsmen.

MACHINE DATA

Speed (with 3450 rpm motor) 3800 rpm

Blade:

Diameter 9"
 Arbor 5/8"

Capacity:

Depth of cut 2 3/4"
 Depth of cut at 45° 2"
 Rip 24"

Table

Size 22" x 15" wide
 Size (w/extension wings) 22" x 25" wide
 In Front of Blade 11 1/4"
 Table Height on Stand 34 1/2"

Overall Dimensions:

Width 37 1/2"
 Height 17 1/2"
 Front to Back 36"



9" Circular Saw With Extension Wings and Motor.

CATALOG LISTING

BASIC MACHINE ONLY

No. 34-600 9" Tilting Arbor Circular Saw. With Rip Fence, Guide Bars, No. 50-864 Miter Gauge, No. 33-196 Combination Saw Blade, No. 34-661 Table Insert, Arbor Pulley and Wrenches. 103 lbs.

BASIC ACCESSORIES

No. 41-023 Motor Pulley, 2 1/2" diameter, 5/8" bore. 1 lb.

No. 49-152 V-belt, 36 1/8" O.C. 1/2 lb.

No. 50-810 Open Steel Stand. 21 1/2" high. 32 lbs.

No. 50-127 Enclosed Steel Stand. 23 1/2" high. 38 lbs.

No. 49-362 Retractable Casters. For No. 50-810 Stand. 12 lbs.

No. 50-111 Retractable Casters. For No. 50-127 Stand. 12 lbs.

No. 34-671 Super-Safe Blade Guard. With Splitter and Anti-Kickback Attachment. 12 lbs.

No. 34-965 Belt and Pulley Guard. 4 lbs.

No. 34-974 Table Extensions. Set of Two, 22" x 5". Increases saw table size to 22" x 25". 22 lbs.



No. 34-965 Belt and Pulley Guard

No. 50-864 Miter Gauge. Included with basic machine. 4 lbs.

No. 49-302 Miter Gauge Stop Rods. For use with miter gauge. Simplifies repetitive cutting operations. 1/2 lb.

No. 34-661 Standard Table Insert. Included with basic machine. 2 lbs.

CONVENIENT ALL-INCLUSIVE NUMBERS

(For 115V, 60 Cycle, Single Phase)

Machine, Motor w/Controls, Extension Wings, 49-152 Belt and 41-023 Pulley	With Open Stand (No. 50-810)	With Enclosed Stand (No. 50-127)
No. 34-610 (Bench Model) (3/4 HP Motor—No. 62-253)	No. 34-611	No. 34-615
No. 34-612 (Bench Model) (1 HP Motor—No. 62-273)	No. 34-613	No. 34-614

ACCESSORY EQUIPMENT

No. 34-662 Moulding Cutterhead Table Insert. 1 1/2 lbs.

No. 34-663 Dado Head Table Insert. 1 1/2 lbs.

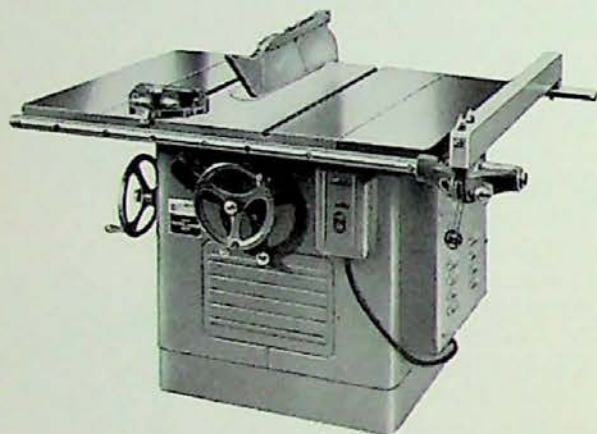
SAW BLADES All with 5/8" diameter arbor hole. 1 1/2 lbs. each

No.	Type	Diam.
325	Combination	8"
33-196		9"
334	Rip	8"
33-198		9"
335	Cross Cut	8"
33-223		9"
326	Hollow Ground	8"
33-227		9"
33-224	Novelty Tooth	9"
34-707	Plywood (200 teeth)	7"
34-840	Carbide-Tipped Comb. (24 teeth)	9"

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

ROCKWELL DELTA 9" TILTING ARBOR CIRCULAR SAW

See the Complete Rockwell Delta Quality Circular Saw Line Today!



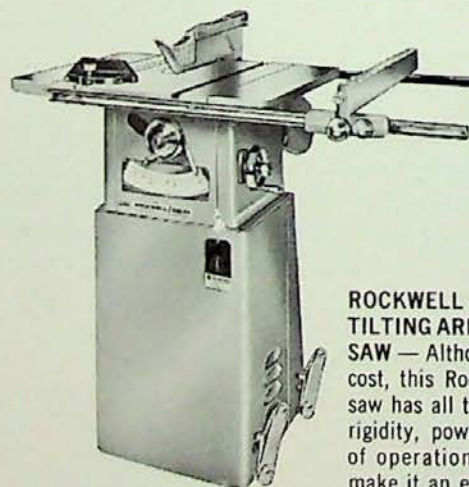
ROCKWELL DELTA 12"-14" TILTING ARBOR SAW— $5\frac{1}{8}$ " depth of cut makes this heavy duty production saw ideal for use in furniture plants, lumber yards, pattern shops and for millwork.



ROCKWELL DELTA 10" TILTING ARBOR BENCH SAW—Provides the built-in quality, big capacity and smooth operating performance of expensive saws, all at an exceedingly low price.



ROCKWELL DELTA 10" TILTING ARBOR UNISAW®—Offers the big capacity, rugged durability and complete safety with versatility to make it the most popular cabinet model saw on the market.

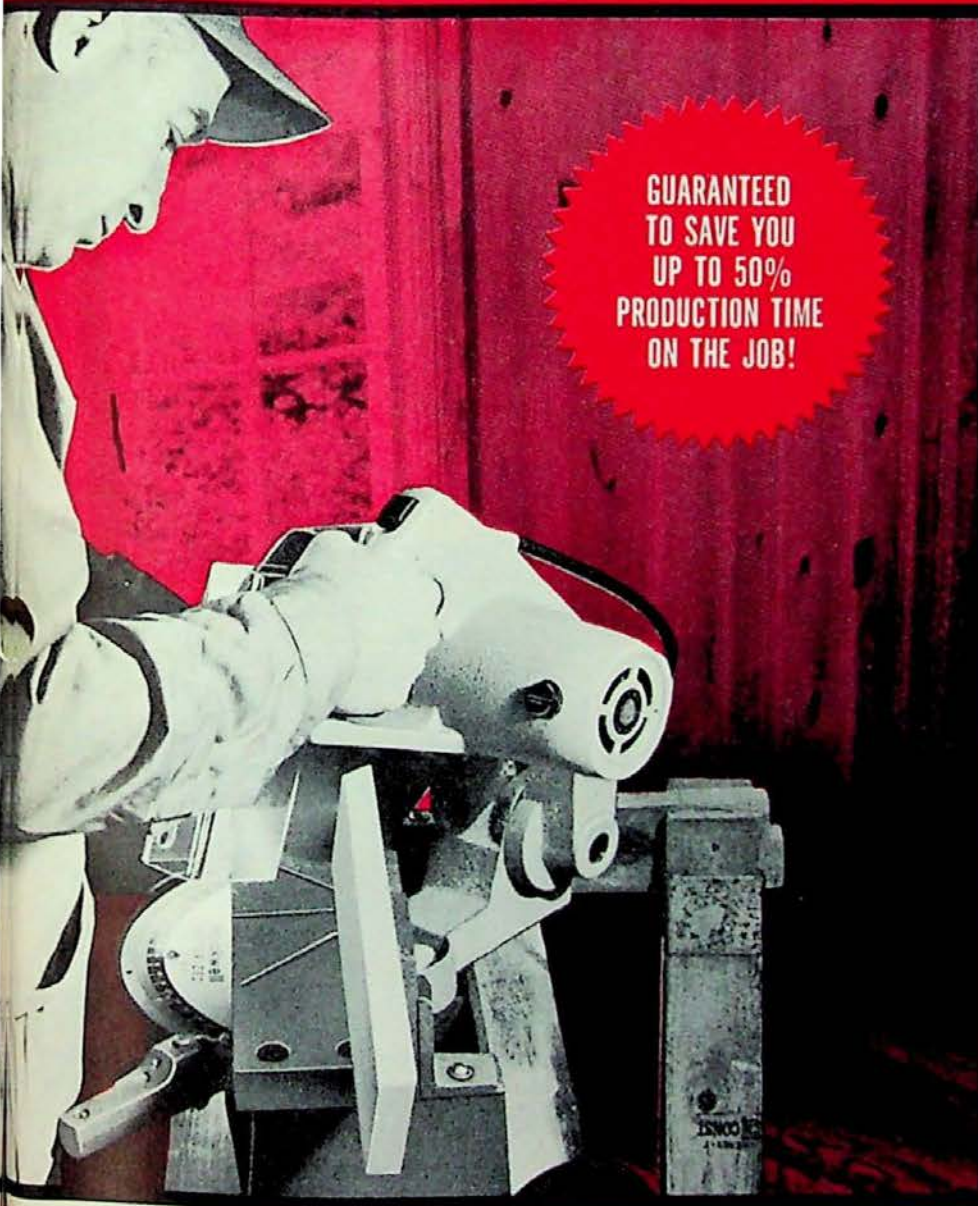


ROCKWELL DELTA 9" TILTING ARBOR BENCH SAW—Although low in cost, this Rockwell Delta saw has all the accuracy, rigidity, power and ease of operation needed to make it an excellent saw for many users.

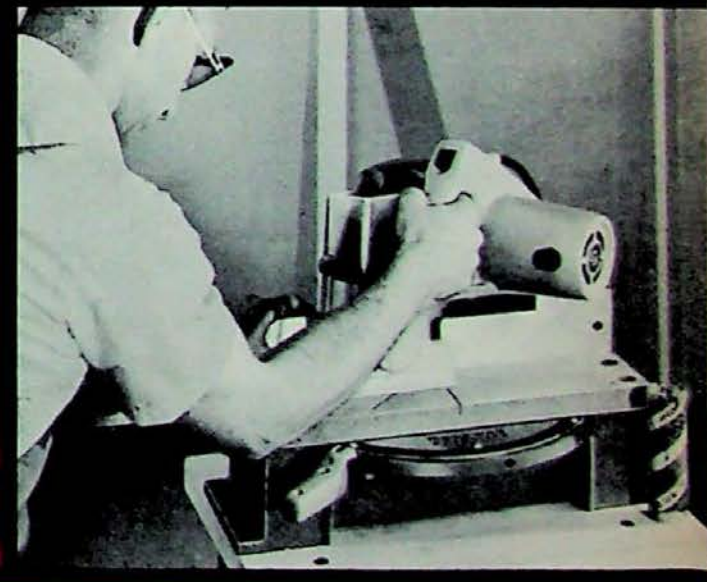
ROCKWELL Motorized MITER BOX

NEW

Featuring EXCLUSIVE "SAFETYMATIC" Push Button Brake!



GUARANTEED
TO SAVE YOU
UP TO 50%
PRODUCTION TIME
ON THE JOB!



A portable unit that offers you these important benefits:

Power—Fast Cutting Action—heavy duty 10.5 amp motor gives you the extra power needed for fast, true cuts.

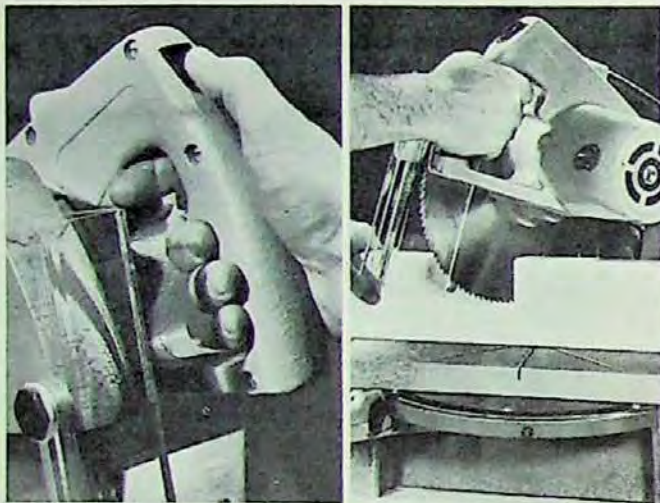
Precision—Accurate Cuts at Any Angle Every Time.

Versatility—Designed to cut compositions, plastic, wood and soft, light-weight aluminum extrusions.

Safety—"Clear-View" retractable blade guard and "SAFETYMATIC" push button brake provide maximum operator safety.

NEW ROCKWELL MOTORIZED MITER BOX

**ROCKWELL QUALITY FEATURES
THAT GIVE YOU
SAFETY, CONVENIENCE
AND TOP PERFORMANCE!**



(Left) Exclusive "SAFETYMATIC" Push Button Brake. Used first on famous Rockwell Portable Electric Saws. Lets you stop the blade in seconds, eliminating time-consuming blade coasting while adjusting for the next cut.

(Right) Big Capacity With Ample Power. As illustrated, base board can be mitered, either 45° right or left, prior to coping. The heavy duty 10.5 amp motor provides extra power to cut many materials, including compositions, plastic, wood and soft, light-weight aluminum extrusions.

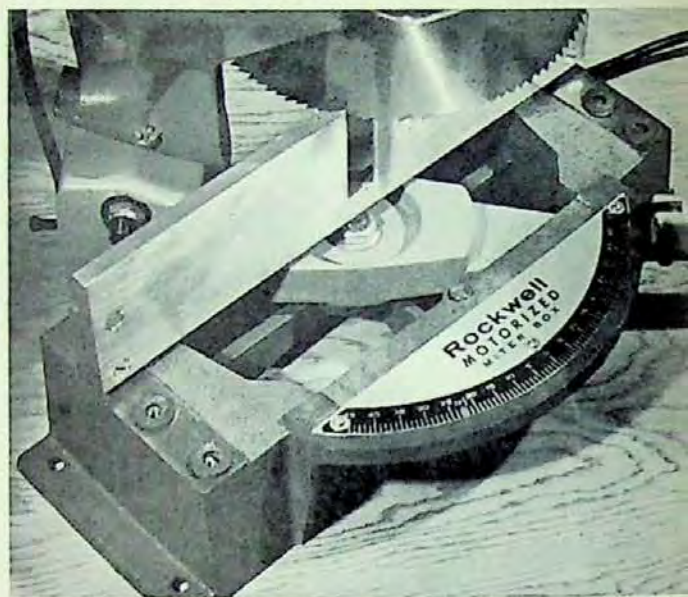


Specially Designed Arbor. Permits quick, easy blade removal . . . saves valuable production time.

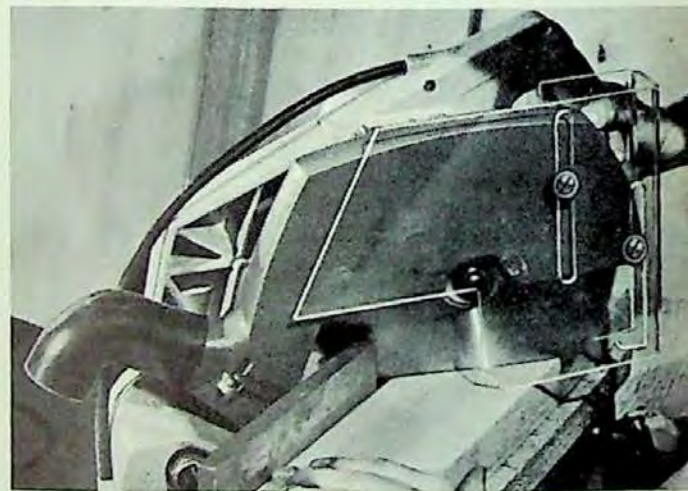


Full 45° Miter Capacity With Positive Stops. The table on the Rockwell Motorized Miter Box contains positive stops at 90° and 45°, right and left. These stops may be adjusted to

maintain continued accuracy. The spring-actuated index link holds mitering control clear of the 90° position, permitting the selection of any miter desired. Miter scale has large graduations for easy reading.



Ruggedly Constructed Base. Massive, ribbed base assures continuous alignment for accuracy. Resilient pads and levelling screw permit table to be accurately aligned to the fence. Base clamping ledges are designed for temporary or permanent mounting.



"Clear-View" Retractable Blade Guard. Lets you see the exact cut you are making. Specially designed guard provides maximum operator protection.

ROCKWELL QUALITY EXTRAS:

Lightweight—only 43 lbs.—easily carried from room to room on the job.

No Job Set-Up Required—unit is ready to run.

Single Hand Control for rapid positioning *all* cuts.

Lubricated-for-Life ball bearing construction throughout.

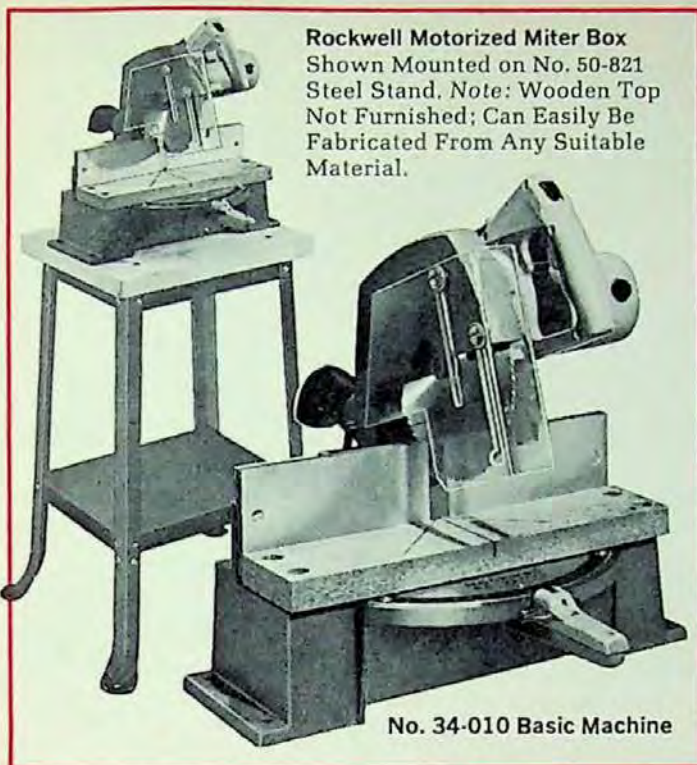
Rigid Construction and powerful motor assure accurate, fast cutting.

Unit is **Completely Adjustable** assuring continuous, accurate cutting performance.

See the **Complete Line of Accessories** for increased versatility of the Rockwell Motorized Miter Box.

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

NEW ROCKWELL MOTORIZED MITER BOX



Rockwell Motorized Miter Box
Shown Mounted on No. 50-821 Steel Stand. Note: Wooden Top Not Furnished; Can Easily Be Fabricated From Any Suitable Material.

No. 34-010 Basic Machine

Here's the ideal saw for builders . . . contractors . . . plastic and aluminum fabricators . . . industrial arts and vocational education instructors. It's specifically designed for fast, accurate cutting. Light in weight (only 43 lbs.), it offers complete portability. Steel stand is available for stationary applications.

If you need a machine that will produce accurate miters and square cuts in compositions, plastic, wood and soft, light-weight aluminum extrusions, see this **BIG PERFORMER** in action today!

MACHINE DATA

Motor:

Amps 10.5, 115 V or 5.3, 230 V; Develops 1.6 HP
Speed (under load) 5000 RPM

Blade:

Diameter 9"
Arbor 5/8"

Capacity:

Cross-Cut 2 1/2" x 4"
Miter, 45° 2 1/2" x 3 5/8"
Miter, 45° R & L, on edge 5/8" x 3 5/8"

Positive Stops

. 90° and 45° R & L

Table Size

. 4 x 17"

Overall Dimensions:

Width 19"; Depth 20"; Height 22"

Net Weight

. 43 lbs.; Shipping Weight 59 lbs.

Motors—Universal Type, 115 or 230 Volt, 25-60 Cycle, AC-DC.

STANDARD EQUIPMENT

Basic Machine includes 34-708 combination saw blade, retractable blade guard, 90° elbow, cord and 3-prong grounding type plug, and arbor wrenches.

CATALOG LISTING

No. 34-010 Basic Machine Without Stand. Motorized Miter Box with 9" blade, "clear-view" retractable blade guard, 90° elbow, motor with 7-foot 3-conductor cord with 115 V grounding type plug, and arbor wrenches. 59 lbs.

No. 34-015 Basic Machine Without Stand. Same as 34-010, except for 230 V. 59 lbs.

CONVENIENT ALL-INCLUSIVE NUMBER

No. 34-011 Motorized Miter Box Complete. Includes 34-010 Miter Box and 50-821 Steel Stand (wooden top for stand not included). 97 lbs.

DELTA QUALITY ACCESSORIES

Saw Blades (with 5/8" arbor hole. Each 1 1/2 lbs.)

Catalog Number	Type	Diameter
34-708	COMBINATION (Flat Ground)	9"
33-223	CROSS-CUT (Flat Ground)	9"
33-224	NOVELTY TOOTH COMBINATION (Flat Ground)	9"
33-227	MITRE (Hollow Ground) (4 cutting teeth—1 raker tooth)	9"

No. 49-203 90° Elbow. Attaches to outlet at rear of saw guard. Deflects chips downward. 1/4 lb.

No. 49-236 Reducer. Required to attach 2 1/2" diameter vacuum cleaner hose to No. 49-203 Elbow. 1 lb.



No. 49-244 Four-Wheel Caster Set for 5-Gallon Vacuum Cleaner. 3 lbs.

No. 49-245 Four-Wheel Caster Set for 18 and 28-Gallon Vacuum Cleaners. 3 lbs.



No. 49-253 All-Purpose Vacuum Cleaner, 5-gallon capacity, complete with 5.2 amp motor, switch and cord; filter bag; steel collector drum; 2 1/2" diameter x 6' hose and 3" x 6" rectangular nozzle. 13 lbs.

No. 49-255 All-Purpose Vacuum Cleaner, 28-gallon capacity, complete with 6 amp motor, switch and cord; filter bag, fiber collector drum; 2 1/2" diameter x 6' hose and 3" x 6" rectangular nozzle. 20 lbs.

No. 49-254 All-Purpose Vacuum Cleaner, same as 49-255, except 18-gallon capacity drum. 18 lbs.

No. 49-362 Retractable Casters for use with 50-821 Steel Stand. 13 lbs.

No. 50-821 Steel Stand (does not include wooden top for stand). Brings working height of Motorized Miter Box table to 39" from floor. 38 lbs.

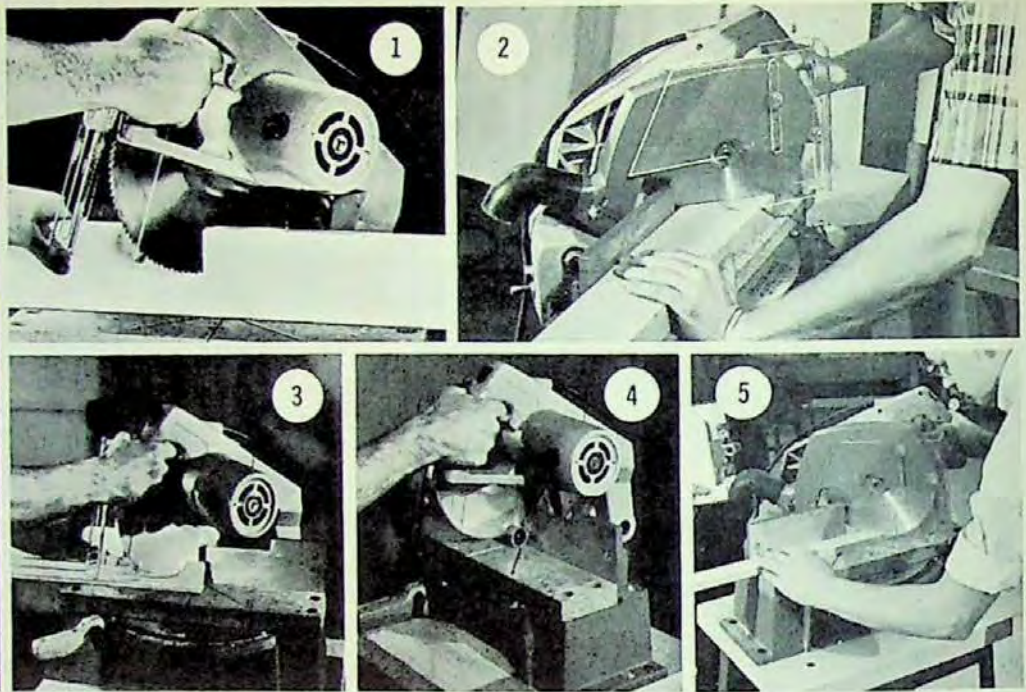
ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

NEW ROCKWELL MOTORIZED MITER BOX

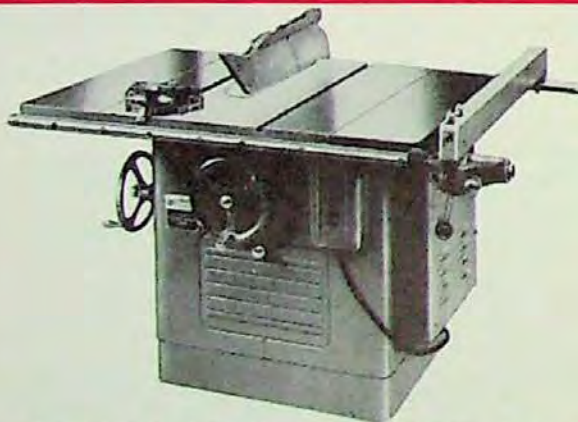
The Rockwell
Motorized Miter Box

SAFE!
ACCURATE!
FAST!

1. Meters base board perfectly — ready for coping.
2. Meters 2 x 4's with ease.
3. Cuts soft, light-weight aluminum extrusions accurately.
4. Cuts plastic pipe quickly.
5. Makes picture frame miters exactly.



SEE THESE OTHER ROCKWELL DELTA QUALITY SAWS TODAY!



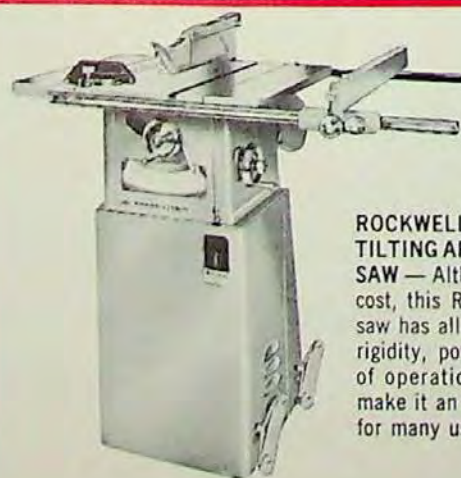
ROCKWELL DELTA 12"–14" TILTING ARBOR SAW— $5\frac{1}{8}$ " depth of cut makes this heavy duty production saw ideal for use in furniture plants, lumber yards, pattern shops and for millwork.



ROCKWELL DELTA 10" TILTING ARBOR BENCH SAW—Provides the built-in quality, big capacity and smooth operating performance of expensive saws, all at an exceedingly low price.



ROCKWELL DELTA 10" TILTING ARBOR UNISAW—Offers the big capacity, rugged durability and complete safety with versatility to make it the most popular cabinet model saw on the market.



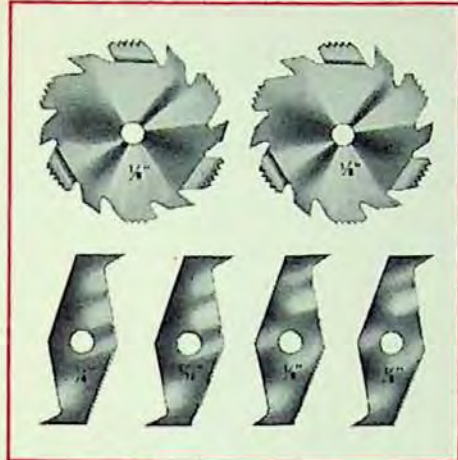
ROCKWELL DELTA 9" TILTING ARBOR BENCH SAW—Although low in cost, this Rockwell Delta saw has all the accuracy, rigidity, power and ease of operation needed to make it an excellent saw for many users.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA CIRCULAR SAW ACCESSORIES

DADO HEAD SETS

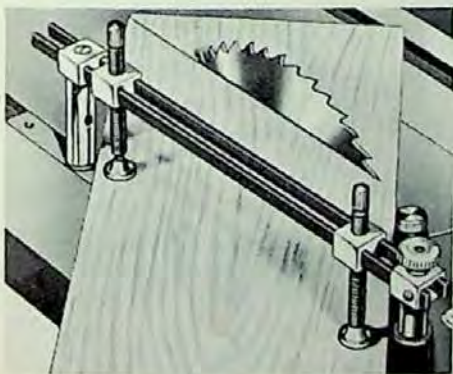
Sets are made of high quality steel, carefully hardened and tempered. Blades and chippers are matched to assure clean, even cuts with or across the grain.



No. 34-333 Production Type Dado Head Set. Consisting of two hollow-ground outer blades (6" dia. x 1/8" thick) and four inside cutters (one 1/4" thick; two 1/8" thick; one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 3 1/2 lbs.

No. 33-212 Production Type Dado Head Set. Consisting of two hollow-ground outer blades (8" diameter by 1/8" thick) and four inside cutters (one 1/4" thick; two 1/8" thick; one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 8 lbs.

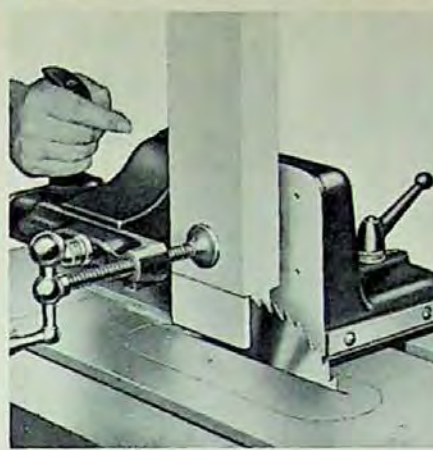
No. 34-334 Economy Dado Head Set. Consisting of two flat-ground outer blades (6" dia. x 1/8" thick) and five inside cutters (four 1/8" thick; one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 4 lbs.



No. 865 Clamp Attachment for Miter Gage. Holds work securely for accurate miter and cut-off operations. Complete with clamp bar, front and rear posts and two sliding clamp screws and blocks. For use with Nos. 50-864 and 34-884 Miter Gage. 2 1/4 lbs.

No. 873 Extra Clamp Screw and Block Only. For use with No. 865 clamp attachment. 1 lb.

No. 1170 Tenoner for use with No. 1186 Sliding Jig. Can also be used on wood shaper. 21 lbs.



No. 1172 Tenoning Attachment. Simplifies operation of cutting tenons for mortise and tenon joints. Stock can be fed with one hand—far removed from saw blade(s). Handles stock up to 2 3/4" thick. Base plate included. 31 lbs.

No. 1171 Spacer Collars. Set of two: 1/4" and 3/8" widths with 5/8" arbor hole. For spacing saw blades to cut tenons in one pass.

MOULDING CUTTERHEAD SETS



No. 34-813 Heavy Duty Moulding Cutterhead & Knife Set. Includes No. 265 cutterhead, No. 1521 wrench and Nos. 35-102, 35-103, 35-221 and 35-222 cutterhead knives. For use on 1/2" and 5/8" dia. arbors. 8 lbs.

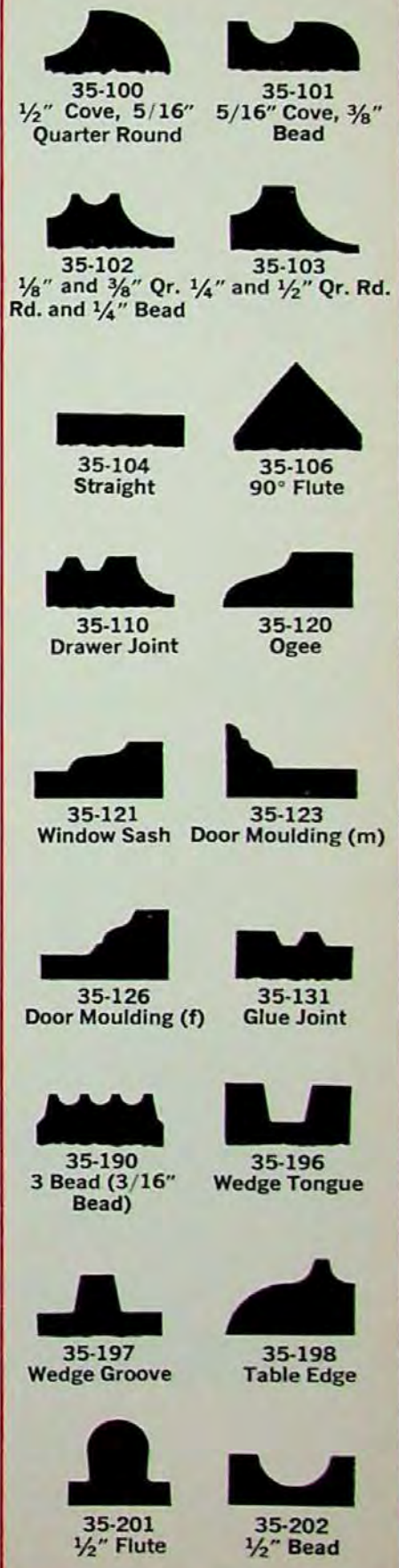
No. 34-821 Basic Moulding Cutterhead & Knife Set. Includes No. 265 cutterhead, No. 1521 wrench and No. 35-102 set of knives. For use on 1/2" and 5/8" dia. arbors. 7 lbs.

No. 265 Moulding Cutterhead. Heavy Duty, Solid-Steel Type. For use on 1/2" and 5/8" arbors. Less wrench and knives. 3 lbs.

No. 1521 Wrench. For moulding cutterhead. 1/8" lb.

With a Moulding Cutterhead and these 32 Sets of Knives You Can Cut Thousands of Different Mouldings On Your Circular Saw.

Each set consists of three knives. 1/4 lb. Knives are shown 1/2 size.



ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA CIRCULAR SAW ACCESSORIES

35-204 3/4" Flute	35-211 1" Flute	35-221 Thumb Moulding
35-222 1/2" Cove & 1/4" Flute	35-223 Ogee	35-224 5/8" Cove
35-236 5/8" Flute	35-237 5/8" Bead	35-238 3/4" Bead

35-241 1/4" Tongue	35-242 1/4" Groove	35-243 Cove & Bead Moulding
35-245 Oval Sash	35-247 Door Lip	

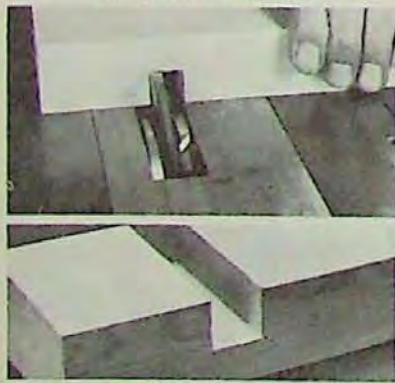
No. 34-226 Miter Gauge with 3/16 x 1/2" bar. 3 lbs.

No. 34-227 Stop Rods. For use with No. 34-226 Miter Gauge. Simplifies repetitive cutting operations. 3/8 lb.

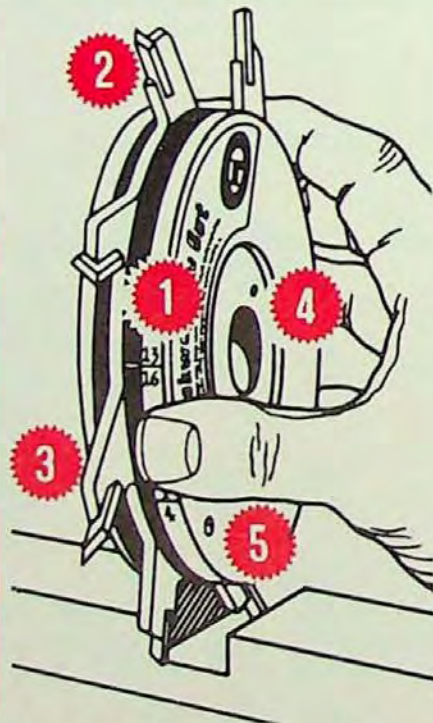
NEW ROCKWELL TRU-CUT 6" ADJUSTABLE DADO



Makes fast, smooth cuts on your saw with complete accuracy.



The Rockwell Tru-Cut Dado is easy to use. You just dial the width of cut you want and get perfect results every time!



It's designed to operate on all saws with a 5/8" or 3/4" arbor (by removing bushing). Rockwell quality features include:

1. Easy-to-read markings that permit quick selection of cuts from 1/4" to 1 3/16" wide and up to 3/4" deep.
2. Super-sharp cutting teeth that give cleanest cuts possible without frequent sharpening.
3. Teeth that are brazed to a solid steel body for durability and long life.
4. Permanent locking of dado in position for future duplication of cut.
5. Quick settings—just loosen arbor nut and select new cutting width desired—no need to remove dado from saw arbor.

SPECIFICATIONS

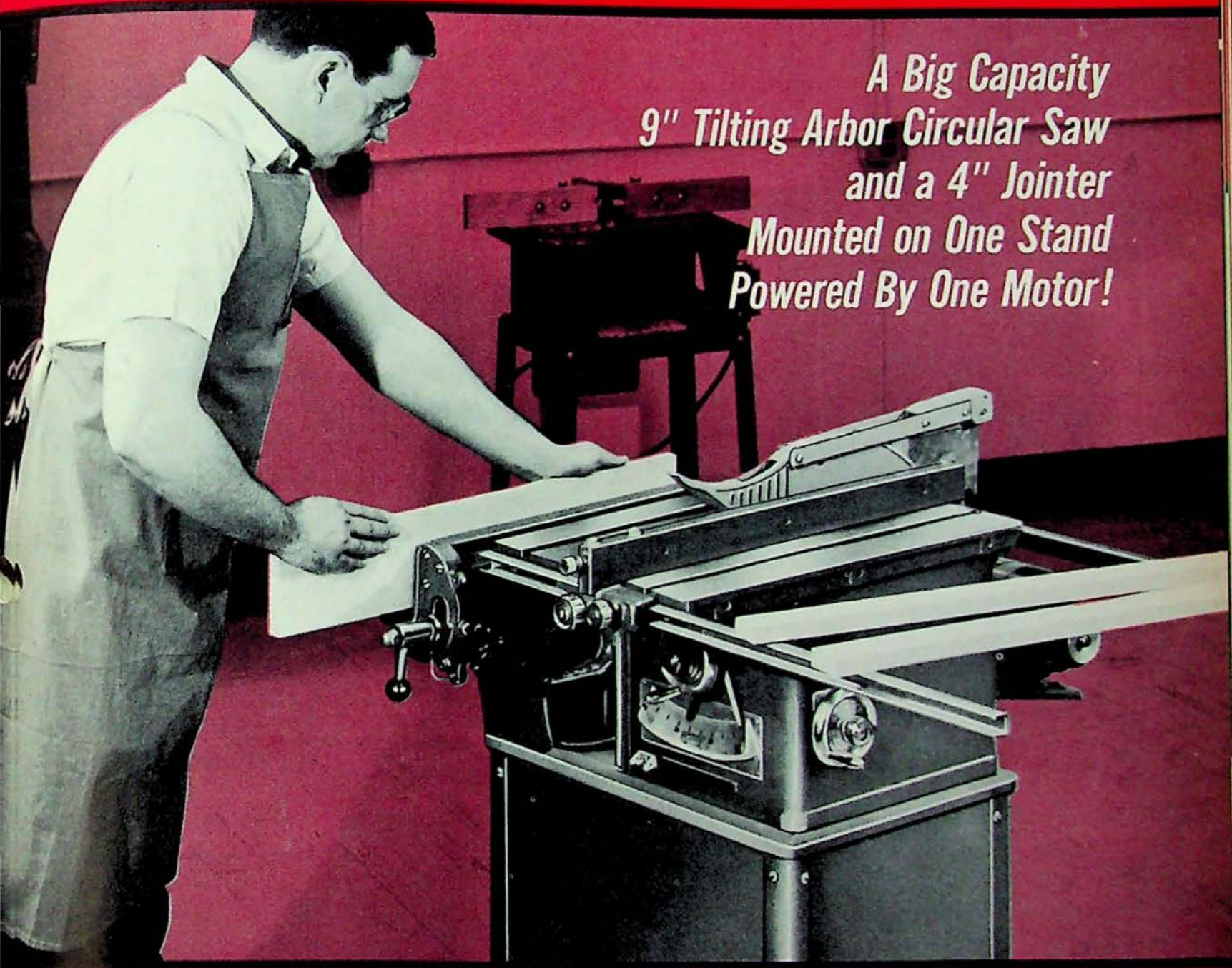
Model No.	34-960
Width of Cut.....	1/4" to 1 3/16"
Maximum Depth of Cut.....	3/4"
No. of Teeth.....	8
Fits Arbor.....	5/8" or 3/4"
Speed.....	Not to Exceed 7000 RPM

Make These Cuts and Many More With Your Rockwell Tru-Cut Dado

SHELF CONSTRUCTION	DRAWER CONSTRUCTION
BOX JOINT	BOOKCASE CONSTRUCTION

ROCKWELL DELTA 9" Saw—4" Jointer COMBINATION UNITS

*A Big Capacity
9" Tilting Arbor Circular Saw
and a 4" Jointer
Mounted on One Stand
Powered By One Motor!*



Take your choice from two Rockwell Delta Saw-Jointer Combinations. Both are ideal for builders' and contractors' use, right on the job site. Use them for doing interior trim jobs, fitting mill work, constructing and installing cabinets and for many other jobs.

Commercial and pattern shops use these Saw-Jointer Combinations, too, for production work, for special jobs, or for all-around use, wherever sawing and jointing must be done quickly and accurately. Let us show you them "in action" today!

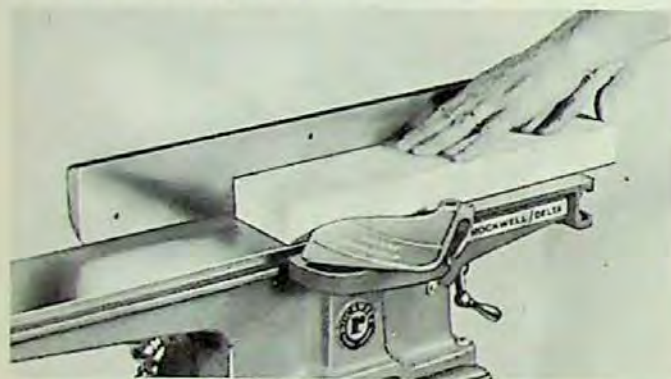
ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

ROCKWELL DELTA 9" SAW/4" JOINTER COMBINATION

**CHECK THESE
TIME, SPACE and MONEY
SAVING FEATURES**



Big Capacity 9" Tilting Arbor Saw cuts stock $2\frac{3}{4}$ " thick; full 2" at 45° blade tilt . . . rips to the center of a 4-foot panel.



Precision 4" Jointer surfaces and joints stock up to 4" wide . . . cuts rabbets $\frac{1}{4}$ " by 4" wide . . . fence tilts 45° r. & l. for beveling or chamfering.

- **Saves Space & Money.** Both machines are mounted on a single, compact stand to save valuable space and powered by one motor to keep your motor costs at a minimum.
- **Maximum Efficiency.** Since you must go from sawing to jointing again and again for true accurate work, with the saw/jointer combination you can "cut to fit and plane to finish" by moving only a step.
- **Portability.** Load the saw/jointer combination on a truck and take it to the job site. Optional casters increase its on the job mobility.
- **Delta Quality Construction.** Preloaded, lubricated-for-life ball bearings, precision bored bearing sets, accurately ground arbor and balanced pulleys—guarantees top cutting performance for the life of the machine.

Two of the most used woodworking power tools—Delta 9" Tilting Arbor Circular Saw and 4" Jointer—mounted on one stand and powered by one motor—and you have a choice of the deluxe or standard combinations!

With the Delta 9" Saw you get big capacity for ripping, crosscutting, mitering and beveling, plus unmatched versatility for extra operations such as moulding, dadoing and tenoning using accessories. In addition to the basic operations of jointing and surfacing stock, the Delta 4" Jointer will cut rabbets, taper, chamfer and bevel!



Deluxe Saw-Jointer Combination
with Accessory No. 49-360
Retractable Casters.

MACHINE DATA

Overall Dimensions:		
Depth . . . 36"	Width . . . 44 $\frac{1}{4}$ "	Height . . . 39"
Speeds (with 3450 rpm motor):		
Saw	3800 rpm	
Jointer	3600 rpm (10,800 cpm)	
SAW:		
Blade Size	9" diam. ($\frac{5}{8}$ " arbor hole)	
Capacity:		
Depth of cut	2 $\frac{3}{4}$ "	
Depth of cut at 45°	2"	
Rip	24"	
Table Size	22" x 15"	
JOINTER:		
Capacity:		
Width of cut	4"	
Depth of cut	$\frac{1}{4}$ "	
Table Size	5 $\frac{1}{4}$ " x 27 $\frac{1}{4}$ " long	
Fence Size	3 $\frac{1}{4}$ " x 21 $\frac{1}{4}$ " long	
Fence Tilt.	45° r. & l. (positive stops at 90°; 45° r. & l.)	

CATALOG LISTING

BASIC MACHINE ONLY (Deluxe Saw-Jointer Combination)

No. 34-650 Deluxe Saw-Jointer Combination. Includes No. 34-600 9" Tilting Arbor Circular Saw, No. 37-290 Deluxe 4" Jointer, No. 37-293 Jointer Raising Block, No. 49-188 V-belt and Motor Pulley Group and No. 50-308 Stand. Without motor and switch. 225 lbs.

BASIC MACHINE ONLY (Standard Saw-Jointer/Combination)

No. 34-640 Standard Saw-Jointer Combination. Includes No. 34-600 9" Tilting Arbor Circular Saw, No. 37-110 4" Jointer, No. 37-113 Jointer Raising Block, No. 49-188 V-belt and Motor Pulley Group and No. 50-308 Stand. Without motor and switch. 207 lbs.

CONVENIENT ALL-INCLUSIVE NUMBERS FOR SINGLE PHASE WITH HEAVY DUTY MOTOR

No. 34-652 Deluxe Saw-Jointer Combination complete. Includes 34-650 Saw-Jointer Combination and 62-273 1 HP, 115 V, 60 cycle motor with remote control switch. 261 lbs.

No. 34-642 Standard Saw-Jointer Combination complete. Includes 34-640 Saw-Jointer Combination and 62-253 $\frac{3}{4}$ HP, 115 V, 60 cycle motor with remote control switch. 239 lbs.

BASIC ACCESSORIES

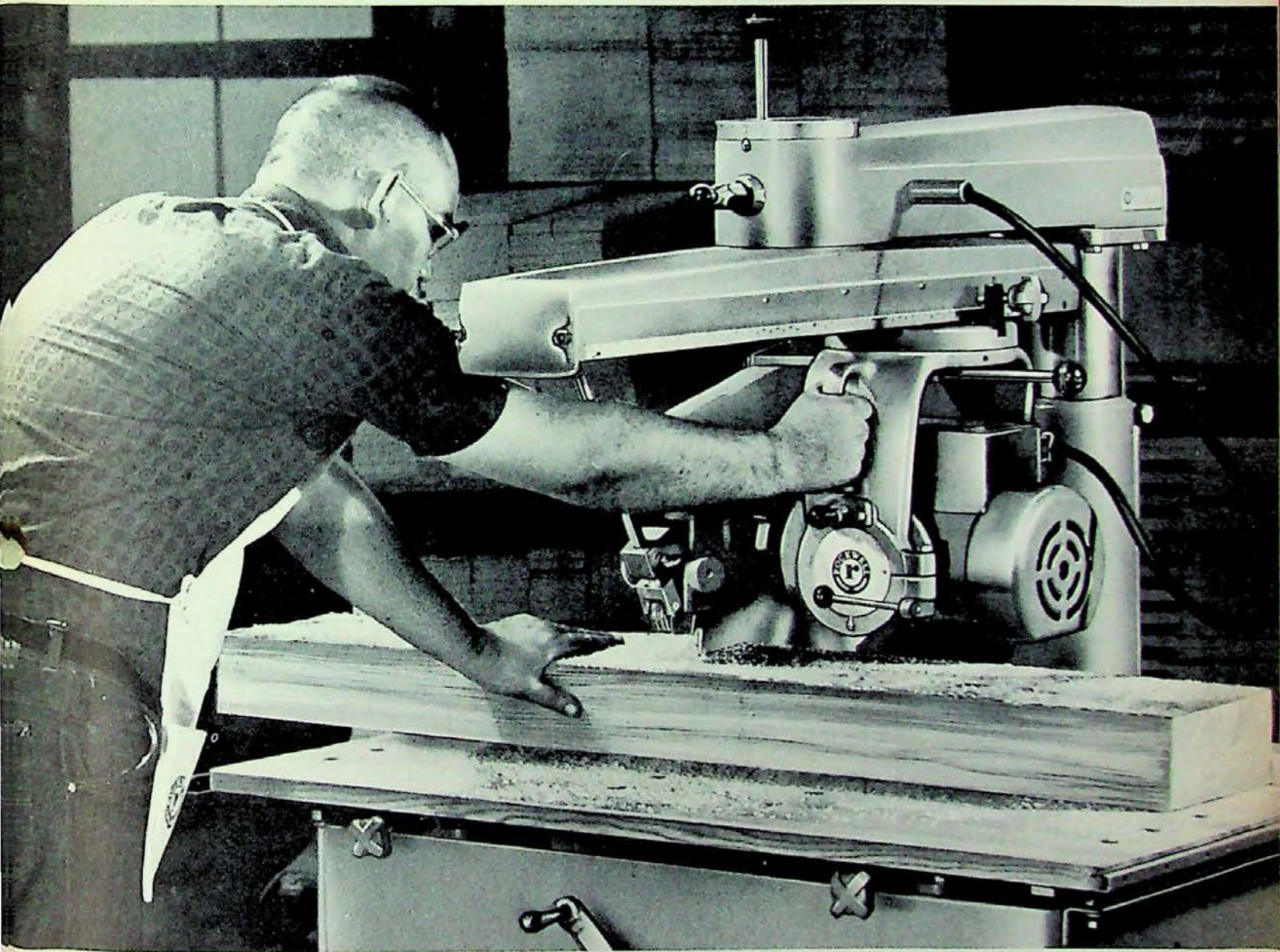
No. 34-671 Super-Safe Splitter Mounted Guard with anti-kickback fingers. 12 lbs.

No. 49-360 Retractable Caster Set for No. 50-308 steel stand. 13 lbs.

For General Circular Saw Accessories, See Section G6

ROCKWELL DELTA 16"-20" RADIAL SAW

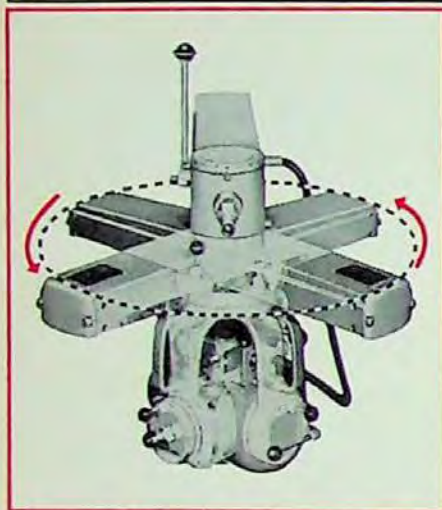
A BIG CAPACITY PERFORMER / QUALITY BUILT THROUGHOUT / PERFECTLY SUITED FOR PRODUCTION WORK



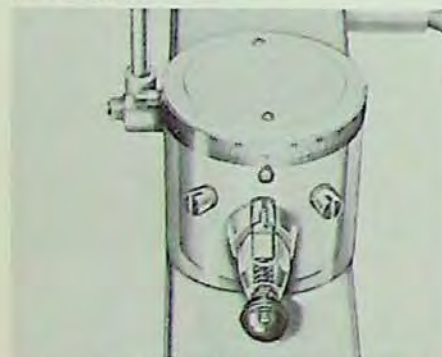
Lists the saw with all the stamina and rugged construction features needed for heavy duty, precision cutting. A real workhorse, it has the "beef" to zip through stock up to 7 1/4" thick, cross cut 1" stock to 25" wide and rip to the center of a 77" panel. If you require a saw with **Big Capacity, Rugged Construction, A Powerful, Totally Enclosed Motor, Advanced Features Throughout**, the Rockwell Delta 16"-20" Radial Saw is the right saw for you!

ROCKWELL DELTA 16"-20" RADIAL SAW

**DELTA QUALITY
FEATURES GUARANTEE
BIG PERFORMANCE
ON EVERY JOB!**



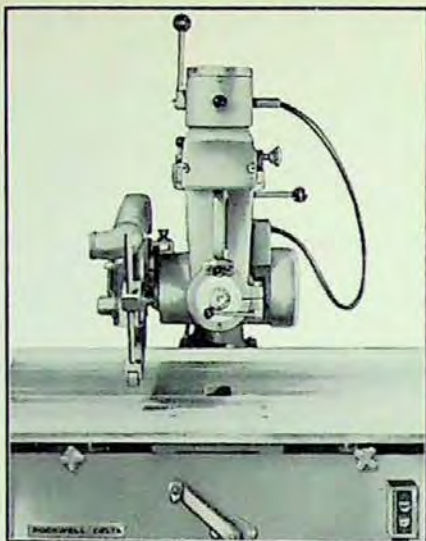
Famous Delta "Turret Arm" Action: Swings 360° in any direction above the table for angle cutting. Gives full table capacity for cutting left as well as right-hand miters.



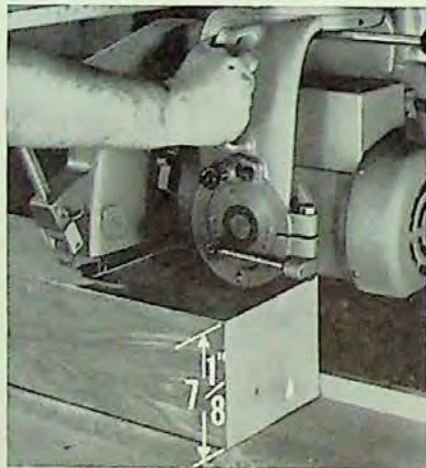
Exclusive "Micro-Set" Miter Stops: Only Rockwell Delta gives you individually adjustable positive stops. When required, each setting can be quickly adjusted to assure perfect 90° and 45° cuts for the life of the saw.



Exclusive Lifetime Trackways: Rockwell Delta 16"-20" Radial Saws feature lifetime track rods with glass-smooth, hardened surfaces that minimize roller friction. They can be easily rotated to provide a new surface, assuring precision cutting accuracy for the life of the machine.



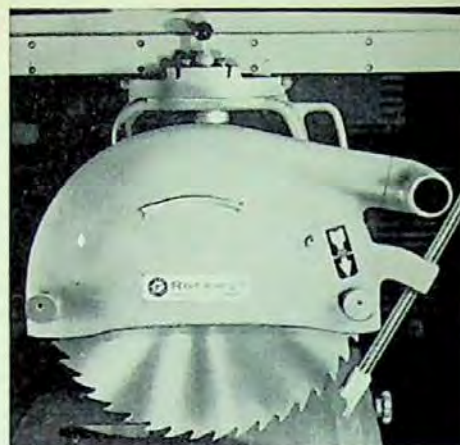
Handy, "Up-Front" Operating Controls: Every control, lever and scale is within easy reach for safe-sure operation. Positive stops at most-used positions and accurately calibrated scales for in-between settings eliminate guesswork and make it easy to set up operation.



Giant Capacity With Extra Power: You can cut stock up to 5 3/8" thick using a 16" blade or 7 1/8" thick using a 20" blade. The "low-rise" motor, in 3, 5 or 7 1/2 HP, delivers ample power to handle the toughest cutting jobs.



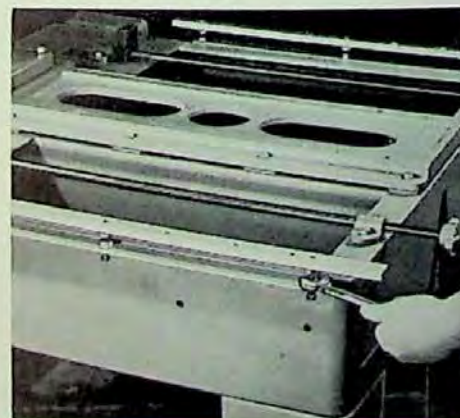
Big Left-Hand Miter Capacity: Rockwell Delta's famous "turret-arm" action lets you cut in any direction above the table. Here, for example, the operator makes a long 45° left-hand miter cut on a large composition panel.



Safe Blade Guard Design: Unlike many competitive models, the blade guard on the Rockwell Delta 16"-20" Radial Saw covers the entire saw arbor. Although Delta includes this safety feature as Standard Equipment, many competitive models offer it only as an accessory at additional cost.

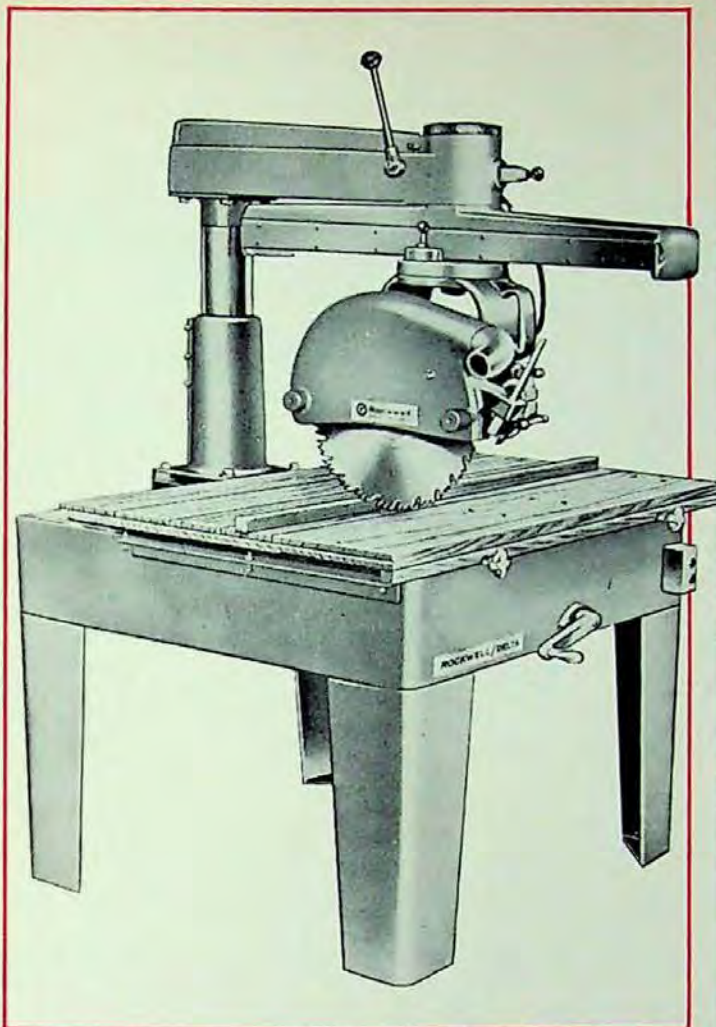


"Up-Front" Fence Knobs: Large, convenient knobs enable you to adjust and lock the fence from the front for added safety. This important feature saves you time, especially when cutting varying widths of stock.



Positive Table Leveling Jacks . . . Massive Frame Construction: Six easy-to-adjust leveling jacks assure sustained table accuracy. The extra deep channel, unitized base, which is rigidly reinforced by the cast iron center piece, guarantees continuous alignment of the entire machine.

ROCKWELL DELTA 16"-20" RADIAL SAW



A Heavy Duty Model for Production Work

When it comes to features, this 16"-20" Model has many. Cam type locking device on overarm guarantees positive clamping at any setting. Built-in, precision indexing plunger enables operator to make quick, positive settings at most-used angle positions. "Micro-Set" miter stops, that are *individually adjustable*, assure absolutely true 90° cross cuts and 45° miter cuts *for the life of the saw*.

And to step up production in the shop or on the job, Rockwell Delta offers you a Chain Feed Control for steady, constant feed for heavy production work and a Safety Return Attachment to reduce operator fatigue while providing increased safety.

This heavy duty, production model will accommodate a 16" to 20" saw blade. Built for continuous, rugged operation, it has all the "beef" and stamina needed for precision cutting on production lines, in lumberyards, shipping departments, aircraft factories, shipyards, on building construction and dozens of similar operations.

NOTE: For machines equipped with 20" blade and guard, see Price List.

STANDARD EQUIPMENT

Saw includes totally enclosed, fan cooled motor; magnetic controls; 16" blade guard with anti-kickback attachment; 16" combination blade; steel legs; operating and maintenance instructions and wrenches.

MACHINE DATA

Motor Rating.....	3, 5 and 7½ H.P.
Crosscut Capacity—1" Stock .....	.25"
Maximum Rip Capacity	38½"
Maximum Depth of Cut—16" Saw	5½"
—20" Saw	7½"
Maximum Depth of Cut at 45°—16" Saw	2¾"
—20" Saw	4¼"
Dado Capacity (With 12" Dado).....	2¼" Wide
Diameter Saw Arbor	1"
Diameter of Combination Saw Supplied	16"
Bevel Positive Stops	0°, 45° and 90°
Miter Positive Stops	90° and 45°, R & L
Type of Track ... Replaceable, Hardened, Nickel-Alloy Rods	
Motor Speed (Full Load) 60 Cycles	3450 RPM
Motor Speed (Full Load) 50 Cycles	2850 RPM
Overall Height	62"
Floor Space Required	37 x 37"
Wood Table Top	29 x 44"
Height Table Top	32"
Shipping Weight (Approx.)	789 lbs.

CATALOG LISTING

H.P.	Voltage	Phase	Cycles	Standard Blade	Number
3	230	1	60	16"	33-500
5	208-220	3	60	16"	33-501
5	440	3	60	16"	33-502
5	550	3	60	16"	33-503
5	230	1	60	16"	33-504
7½	208-220	3	60	16"	33-508
7½	440	3	60	16"	33-509
7½	550	3	60	16"	33-510

*Supplied with 208-220/440 V motors, wired for voltage listed.

Electrical Controls—all models are supplied with a magnetic starter and a separate push button control station. Magnetic starter provides on-off control, low-voltage, no-voltage and thermal overload protection.

Totally-enclosed, fan-cooled motors are furnished on all above units.

DELTA RADIAL SAW ACCESSORIES ENABLE YOU TO DO MORE ON THE 16"-20" MODEL

COMPLETE SELECTION OF SAW BLADES

Catalog Number	Type of Blade	Model	Diameter	Arbor Hole	
33-183	COMBINATION SAW BLADES (Flat Ground)		16"—20"	16"	1"
33-190			16"—20"	20"	1"
33-180	RIP SAW BLADES (Flat Ground)		16"—20"	14"	1"
33-184			16"—20"	16"	1"
33-191			16"—20"	20"	1"
33-203	NOVELTY TOOTH COMBINATION SAW BLADES (Flat Ground)		16"—20"	14"	1"
33-204			16"—20"	16"	1"
33-182	MITRE SAW BLADES (Hollow Ground) (4 cutting teeth)		16"—20"	14"	1"
33-186			16"—20"	16"	1"

Continued on next page

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 16"-20" RADIAL SAW

RADIAL SAW ACCESSORIES—Continued

No. 33-450 Retractable Leaf Guard for 16" Blade Guard. Provides added operator safety.



No. 33-446 Retractable Leaf Guard for 20" Blade Guard. Provides added operator safety.

No. 33-543 20" Blade Guard for 16" Radial Saw. Designed to cover entire saw spindle for added safety. 18 lbs.

No. 33-548 Pair of Flanges, 5" diameter, for use with 20" diameter saw blades.

Note: Machines can be ordered with 20" Blade, Guard and Flanges. See your Rockwell Delta Industrial Distributor.



No. 33-307 Moulding Cutterhead. Heavy duty, solid steel type, with 1" arbor hole. Without wrench or knives.

No. 1521 Wrench for moulding cutterhead. 1/2 lb. For moulding cutter knives, see Section I6.



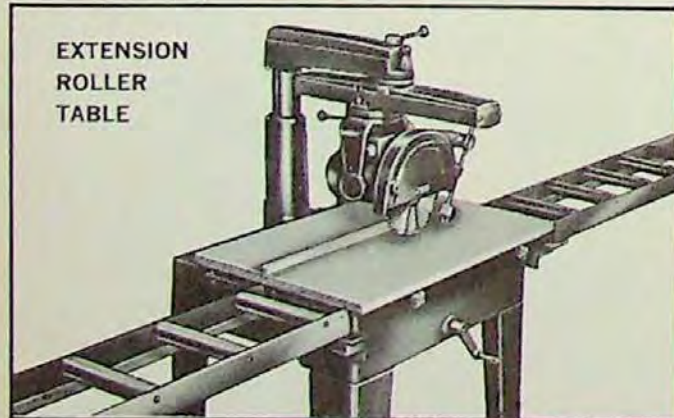
No. 33-174 Standard Dado Head Set, 10" diameter, 1" arbor hole. This No. 3 dado set is made of the finest steel, carefully hardened and tempered. Set consists of two outer blades and four inside cutters, as illustrated. Will cut grooves from 1/8" to 1 1/16" wide with or against the wood grain. Sold in complete sets only.



ROUTER BITS (Left Hand Rotation). These router bits can be used with Adapter No. 33-304.

Catalog Number	Size	Shank	Flute Length
33-106	1/4"	1/2"	1 1/2"
33-108	3/8"	1/2"	1 1/2"
33-110	1/2"	1/2"	1 1/2"
33-112	5/8"	1/2"	1 1/2"
33-113	3/4"	1/2"	1 1/2"

EXTENSION ROLLER TABLE



Use Rockwell Delta Extension Tables to increase the speed of your cutting operations. Your material always moves in a straight line on a level table—no matter what cut you make.

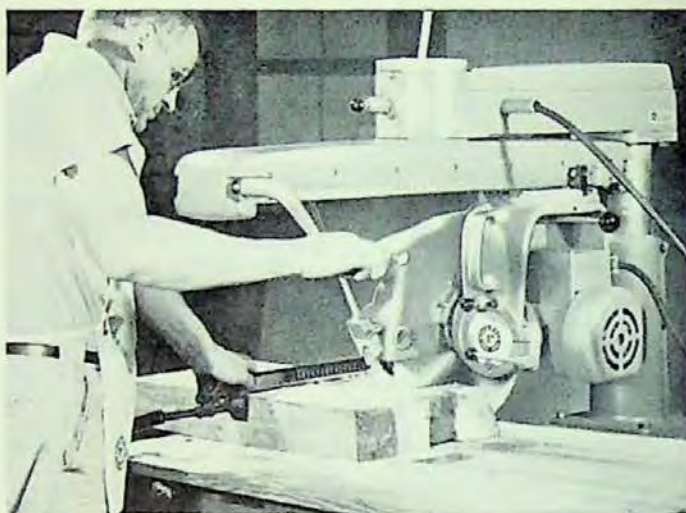
No. 33-521 One Roller Extension Table, eight feet long with eight 12-inch rollers and one adjustable support stand. For direct coupling to steel table on the Rockwell Delta 16"-20" Radial Saw (specify Machine Catalog Number).

SANDING DISK

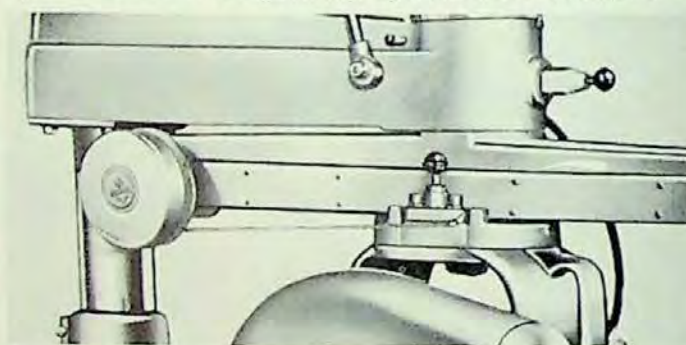
Threaded to fit motor arbor. Furnished with one garnet disk.

No. 46-836 Sanding Disk, 8 1/2" diameter, for 1"-14 L.H. thread saw arbor.

For abrasive paper and disk adhesive, see Section I6.

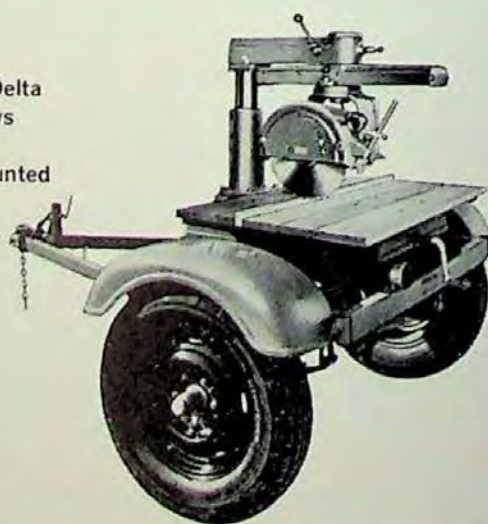


No. 33-544 Chain Feed Control. Provides a constant, steady feed for cutting heavy timbers, gang sawing, rafter notching and other operations where a carefully controlled feed is required. Reduces waste and rejects. Special design permits operator to switch to regular saw operation in seconds. 8 lbs.



No. 33-550 Safety Return Attachment. Offers important advantages of increased safety while reducing operator fatigue, particularly on repetitive cutting operations. Operator makes cut and cutterhead automatically returns to a safe out of the way position behind the guide fence. Stock then is safely positioned for the next cut. 4 1/4 lbs.

Rockwell Delta Radial Saws can be trailer mounted for easy portability.



For additional radial saw accessories, see Section I6.

ROCKWELL DELTA 12"-14" RADIAL SAW

Choice of 2 Models...

STANDARD ARM or LONG ARM



No matter which model you select, you get all the most wanted radial saw features—Versatile Turret Arm Action ■ Exclusive "Micro-Set" Miter Stops ■ Exclusive Lifetime Trackways ■ Handy Controls and Adjustments—and many more that guarantee pre-

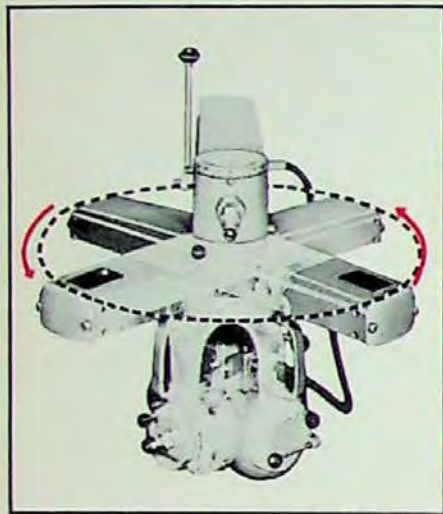
cision accuracy and ease of operation on any job for the life of the saw!

Buy a Rockwell Delta 12"-14" Radial Saw today! It's the finest long range investment you can make to protect and increase your profits.

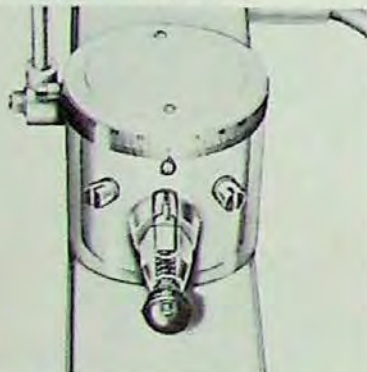
ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 12"-14" RADIAL SAW

DELTA QUALITY FEATURES THAT GUARANTEE FASTER, MORE ACCURATE CUTTING, LOWER PRODUCTION COSTS!



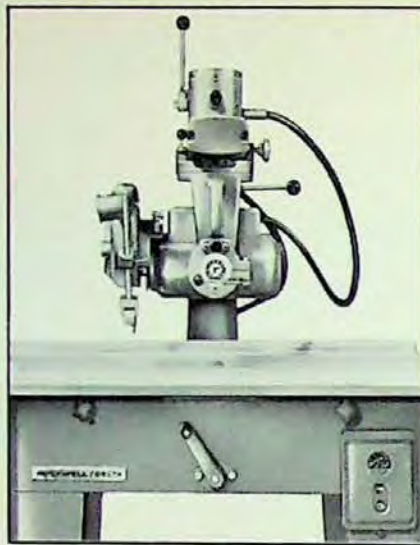
Famous Double Overarm Action: This preferred construction permits the saw blade to rotate a full 360° above the work table—gives full table capacity for left and right-hand miters.



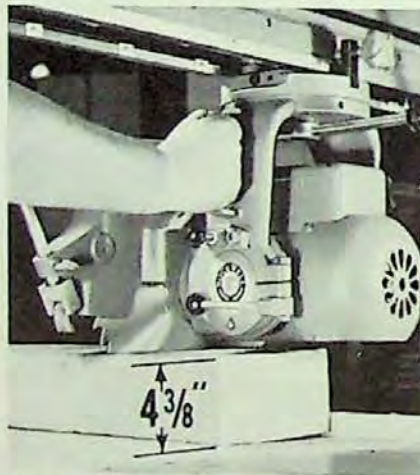
Exclusive "Micro-Set" Miter Stops: Only Rockwell Delta gives you *individually adjustable* positive stops. When required, each setting can be quickly adjusted to assure perfect 90° and 45° cuts for the life of the saw.



Lifetime Trackways: Rockwell Delta 12"-14" Radial Saws feature lifetime track rods with glass-smooth, hardened surfaces that minimize roller friction. They can be easily rotated to provide a new surface, providing precision cutting accuracy for the life of the machine.



Convenient, "Up-Front" Operating Controls: Every control, lever and scale is within easy reach for safe-sure operation. Positive stops at most-used positions and accurately calibrated scales for in-between settings eliminate guesswork, make it easy to set up operation.



Ample Power With Big Capacity: The "low-rise" motor, in 2, 3 or 5 HP, delivers extra power to handle the toughest jobs. You can cut stock up to 4 3/8" thick using a 14" blade.



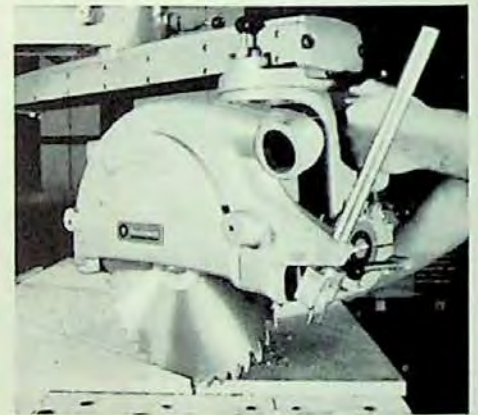
Extra Left-Hand Miter Capacity: Rockwell Delta's famous "turret-arm" action lets you cut in any direction *above* the table. Here, the operator cuts the lower chord (2 x 6") of a low pitch roof truss, 1/8th pitch (4-12).



Extra Wide Cross Cut Capacity: The extra long arm on the Rockwell Delta 12"-14" Long Arm Model enables the operator to easily trim a 24" wide panel for a cabinet door.



Extra Wide Rip Capacity: Large, bulky panels are quickly and easily ripped with the Rockwell Delta 12"-14" Long Arm Radial Saw.



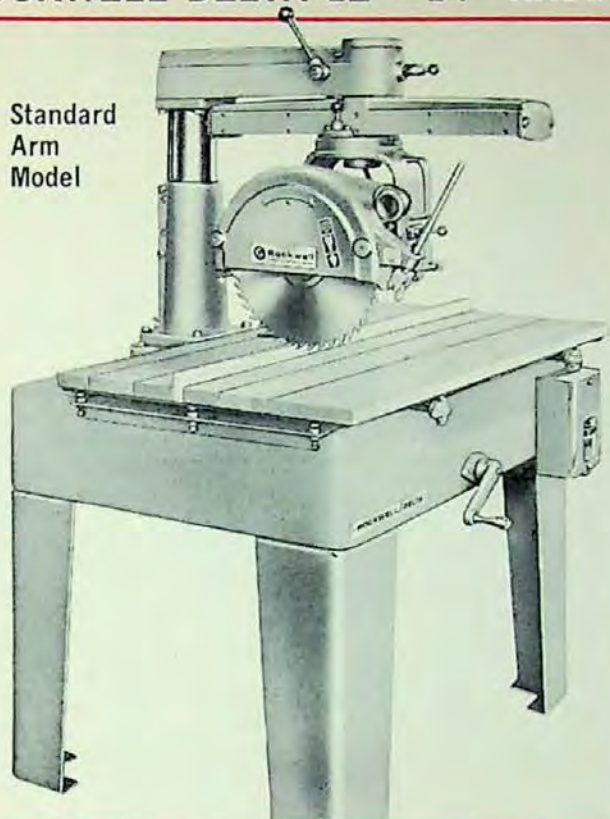
Safe Blade Guard Design: Unlike many competitive models, the blade guard on the Rockwell Delta 12"-14" Radial Saw covers the entire saw arbor. Although Delta includes this safety feature as Standard Equipment, many competitive models offer it only as an accessory at additional cost.



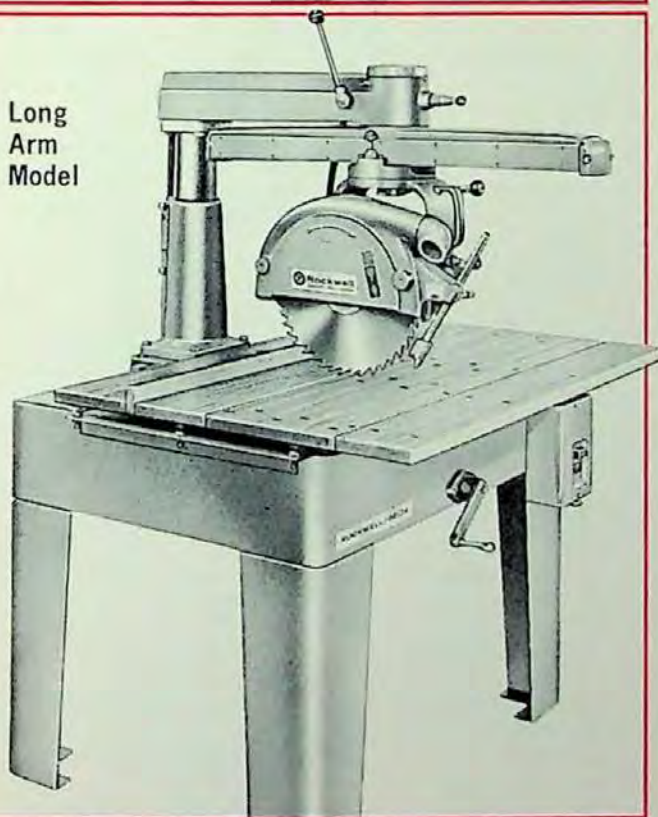
Positive Table Leveling Jacks—Massive Frame Construction: Six easy-to-adjust leveling jacks assure sustained table accuracy. The extra deep channel, unitized base, which is rigidly reinforced by the cast iron center piece, guarantees continuous alignment of the entire machine.

ROCKWELL DELTA 12"-14" RADIAL SAW

Standard
Arm
Model



Long
Arm
Model



**A Semi-Portable Model
for Field and Shop Use**

STANDARD EQUIPMENT

Saw includes totally enclosed, fan cooled motor; manual or magnetic controls; 14" blade guard with anti-kickback attachment; 12" or 14" combination blade; steel legs; operating and maintenance instructions and wrenches.

You can use this popular saw for production work in the shop, then take it out on the job site for heavy-duty centralized cutting. It gives you 4³/₈" cutting capacity and rips up to 36" wide. The power packed two, three or five horsepower motor stands up to extra heavy work loads over a long haul.

You have your choice of either the *standard arm* or the *long arm* model, which offers the *extra* capacities required in fabricating roof trusses, wall and floor panels, kitchen cabinets and interior partitions.

This versatile saw incorporates all the fine features of the 16"-20" model. It's designed for home builders and prefabricators, for maintenance work or on the production line in industrial plants, and for lumber yards and all types of woodworking shops where low cost, high production cutting with consistent accuracy is essential.

MACHINE DATA

Motor Rating.....	2, 3 and 5 HP
Crosscut Capacity—1" Stock (Standard Arm).....	18"
Crosscut Capacity—1" Stock (Long Arm).....	24"
Maximum Rip Capacity (Standard Arm).....	30"
Maximum Rip Capacity (Long Arm).....	36"
(Additional 1 ³ / ₈ " Rip Capacity on 3 HP, Single Phase and 5 HP, Three Phase Models.)	
Maximum Depth of Cut—12" Saw.....	3 ³ / ₈ "
—14" Saw.....	4 ³ / ₈ "
Maximum Depth of Cut at 45°—12" Saw.....	2 ¹ / ₄ "
—14" Saw.....	2 ¹⁵ / ₁₆ "
Dado Capacity (with 10" Dado).....	2" Wide
Diameter Saw Arbor.....	1"
Diameter of Combination Saw Supplied.....	12" or 14"
Bevel Positive Stops.....	0°, 45° and 90°
Miter Positive Stops.....	90° and 45°, R & L
Type of Track....	Replaceable, Hardened, Nickel-Alloy Rods
Motor Speed (Full Load) 60 Cycles.....	3450 RPM
Motor Speed (Full Load) 50 Cycles.....	2850 RPM
Overall Height.....	56"
Floor Space Required.....	30 x 37"
Wood Table Top (Standard).....	26 x 42"
Wood Table Top (with Extension).....	32 x 42"
Height Table Top.....	32"
Shipping Weight (Approx.) (Standard Arm).....	530 lbs.
Shipping Weight (Approx.) (Long Arm).....	545 lbs.

CATALOG LISTING

H.P.	Voltage	Phase	Cycles	Std. Blade	Number Std. Arm Manual Control	Number Std. Arm Magnetic Control	Number Long Arm Manual Control	Number Long Arm Magnetic Control
2	115/230	1	60	12"	*33-526		*33-700	
3	115/230	1	60	12"	*33-640		*33-701	
3	208-220	3	60	14"	*33-527	*33-523	*33-702	*33-716
5	208-220	3	60	14"	*33-641	*33-639	*33-703	*33-717
3	440	3	60	14"	*33-528		*33-704	
5	440	3	60	14"	*33-642		*33-705	
3	550	3	60	14"	33-532		33-711	
5	550	3	60	14"	33-646		33-712	

*Wired for 230V operation.

● Supplied with 208-220/440V motor, wired for voltage listed.

Electrical Controls—Single Phase. 2 HP models are supplied with three-pole, single-throw toggle switch with integral motor overload protection. All other models are supplied with either manual or magnetic starter. Manual starter provides on-off control with thermal overload protection; magnetic starter provides on-off control, low-voltage, no-voltage and thermal overload protection.

Totally-enclosed, fan-cooled motors are furnished on all above units.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 12"-14" RADIAL SAW

DELTA RADIAL SAW ACCESSORIES INCREASE THE USEFULNESS OF THE 12"-14" MODEL

No. 33-449 Retractable Leaf Guard for 14" blade guard. Provides added operator safety.



COMPLETE SELECTION OF SAW BLADES

Catalog Number	Type of Blade	Model	Diameter	Arbor Hole
33-197	COMBINATION SAW BLADES (Flat Ground)	12"-14"	12"	1"
33-179		12"-14"	14"	1"
33-199	RIP SAW BLADES (Flat Ground)	12"-14"	12"	1"
33-180		12"-14"	14"	1"
33-246	CROSSCUT BLADE (Flat Ground)	12"-14"	12"	1"
33-202	NOVELTY TOOTH COMBINATION SAW BLADES (Flat Ground)	12"-14"	12"	1"
33-203		12"-14"	14"	1"
33-228	MITRE SAW BLADES (Hollow Ground) (4 cutting teeth) (1 raker tooth)	12"-14"	12"	1"
33-182		12"-14"	14"	1"
34-842	CARBIDE-TIPPED COMBINATION BLADE (24 Teeth With Alternate Top Bevel Grind)	12"-14"	12"	1"



No. 33-307 Moulding Cutterhead. Heavy duty, solid steel type, with 1" arbor hole. Without wrench or knives.

No. 1521 Wrench for moulding cutterhead. 3/8 lb. For moulding cutter knives, see Section 16.



No. 33-174 Standard Dado Head Set, 10" diameter, 1" arbor hole. This No. 3 dado set is made of the finest steel, carefully hardened and tempered. Set consists of two outer blades and four inner cutters, as illustrated. Will cut grooves from 1/8" to 1 3/16" wide with or against the wood grain. Sold in complete sets only.

SANDING DISK

Threaded to fit motor spindle. Furnished with one garnet disk.

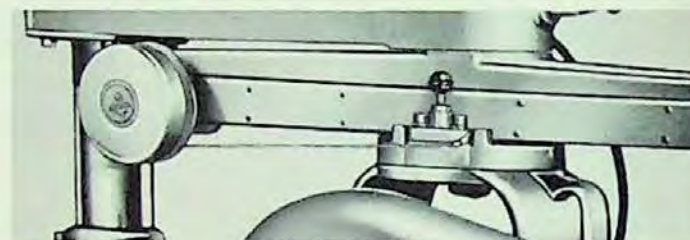
No. 46-836 Sanding Disk, 8 1/2" diameter, for 1"-14 L.H. thread saw arbor.

For abrasive paper and disk adhesive, see Section 16.



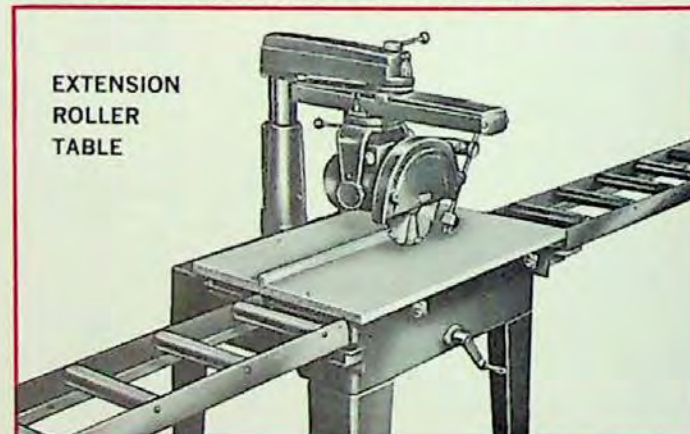
ROUTER BITS (Left Hand Rotation). These router bits can be used with Adapter No. 33-304.

Catalog Number	Size	Shank	Flute Length
33-106	1/4"	1/2"	1 1/2"
33-108	3/8"	1/2"	1 1/2"
33-110	1/2"	1/2"	1 1/2"
33-112	5/8"	1/2"	1 1/2"
33-113	3/4"	1/2"	1 1/2"



No. 33-549 Safety Return Attachment. Offers important advantages of increased safety while reducing operator fatigue, particularly on repetitive cutting operations. Operator makes cut and cutterhead automatically returns to a safe out of the way position behind the guide fence. Stock then is safely positioned for the next cut. 4 1/4 lbs.

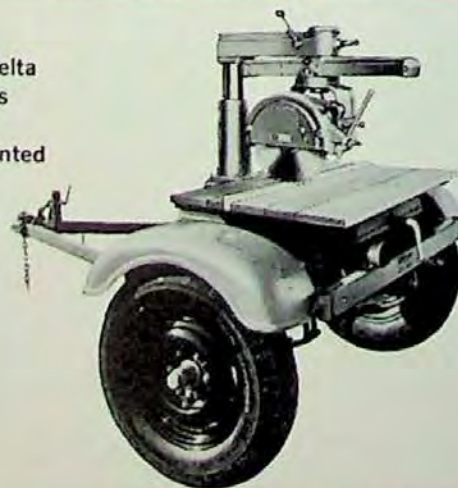
EXTENSION ROLLER TABLE



Use Rockwell Delta Extension Tables to increase the speed of your cutting operations. Your material always moves in a straight line on a level table—no matter what cut you make.

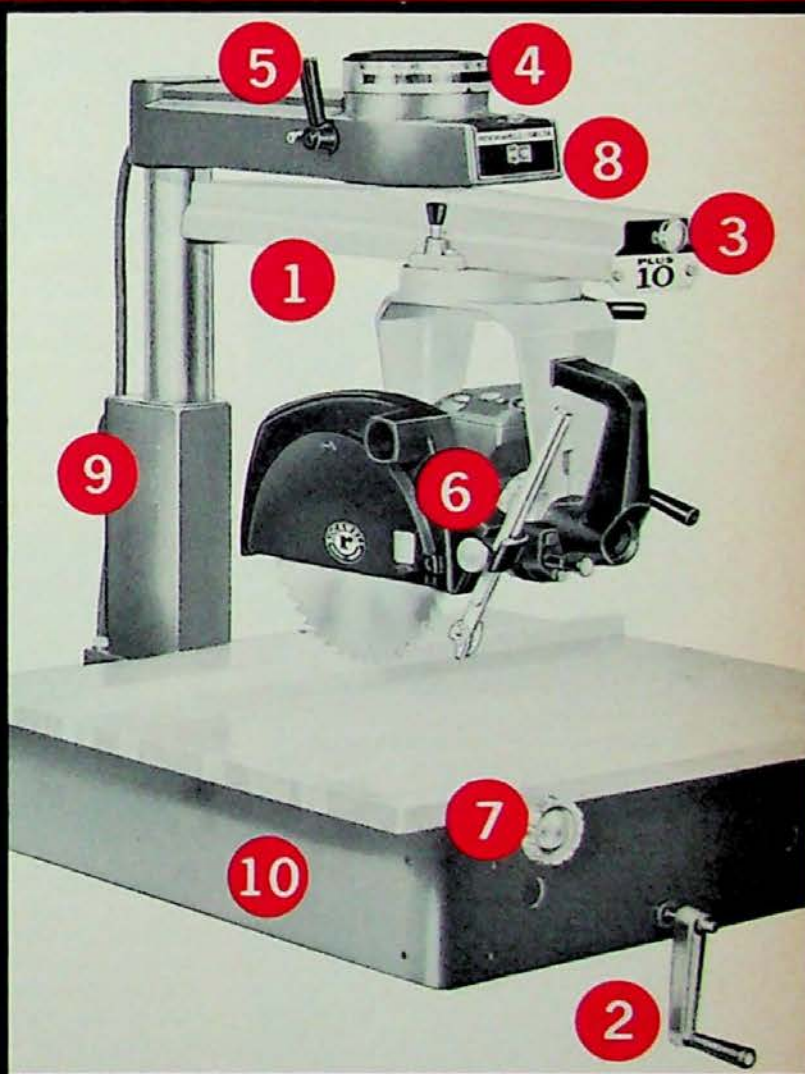
No. 33-521 One Roller Extension Table, eight feet long with eight 12-inch rollers and one adjustable support stand. For direct coupling to steel table on the Rockwell Delta 12"-14" Radial Saw (specify Machine Catalog Number).

Rockwell Delta Radial Saws can be trailer mounted for easy portability.



For additional radial saw accessories, see Section 16.

NEW ROCKWELL DELTA "PLUS 10" 12" Portable RADIAL SAW ... Built for Builders!



Speeds Up Production on the Job for the Builder

Only the Rockwell "PLUS 10" Offers These 10 Preferred Features.

- 1 Double overarm for greater left-hand miter capacity. 2 "Up-front" elevating crank. 3 "Up-front" miter index control. 4 "Up-front" eye level miter scale. 5 "Up-front" track lock. 6 Extra large, easy-to-read bevel scale. 7 Large, convenient fence lock knobs. 8 Convenient, safe on-off switch. 9 Adjust-O-Matic column-base. 10 Preferred jack screw table adjustment.

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

NEW ROCKWELL DELTA "Plus 10" 12" PORTABLE RADIAL SAW

DELTA
QUALITY FEATURES ASSURE
TOP PERFORMANCE



Famous DELTA "Turret-Arm" Action

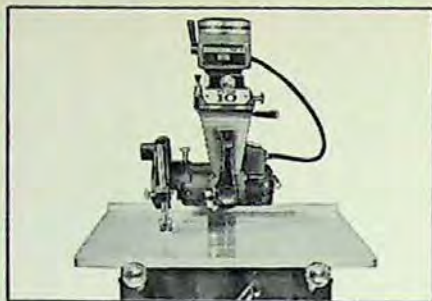
(a) **Swing It!** Arm swings 360° in any direction above the table for angle cutting. Features positive stops at 0° and 45°, right and left. (b) **Spin It!** Yoke-motor unit swivels 360° under the arm with positive stops at each 90° position. Makes it easy to rip from either side. (c) **Tilt It!** Motor tilts inside yoke for beveling, shaping and moulding operations. Gives you a tilting arbor machine with positive stops at 45° and 90°.



Extra Powerful Motor. 1½ HP motor delivers up to 3 HP under heavy work loads to assure faster, smoother cutting. The extra power means extra safety because stalling is virtually eliminated. Threaded right-hand shaft of motor permits use of drill bits, sanding drums and other accessories.



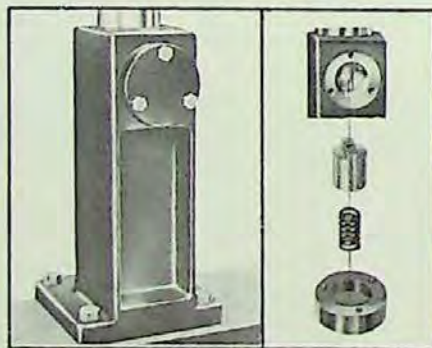
Convenient, Up-Front On-and-Off Switch. Conveniently placed at eye level, switch can be turned on or off in an instant for added operator protection. Lock-out feature permits switch to be locked so that saw cannot be turned on—an extra safety feature that restricts unauthorized use of the machine.



All Controls Located "Up-Front." Every control, including the elevating crank, is "up front," away from the blade for faster, safer operation. Extra long, comfortable hand grips assure greater locking leverage and control.



Precision Index Ring for Miter Cuts. 90° and 45° positive miter stops are precision machined simultaneously at the factory, assuring lifetime accuracy on the job. Adjustment, if ever required, is easily made. **Convenient Index Control.** Index release knob is conveniently located "up front" permitting quick, easy selection of desired miter positions.



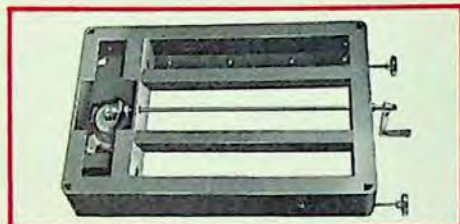
Massive Column and Base. Husky column and rugged base are precision matched. A heavy, built-in, spring-loaded key maintains rigid, accurate alignment of cutting arm yet affords free, easy raising and lowering of cutting head. There are no gibs or wrap-around clamps to go out of adjustment.



Handy Fence Lock Knobs. Large, convenient knobs enable you to adjust and lock the fence from the front for added safety. This important feature saves you time, especially when cutting varying widths of stock.



Large Bevel and Miter Scales. They are extra large in size and conveniently located, making them easy to use. This speeds up production and improves accuracy on close tolerance jobs.



Heavy, Deep Channel Frame Construction. This underside view of the frame shows its rugged, box-type construction that makes it practically distortion proof. This assures continuous alignment of the entire machine, guaranteeing the user trouble-free performance and accuracy year after year.



Big Capacities. Cuts stock up to 4" thick and rips to the center of a 50" panel, with ample table support. In addition, Delta's famous "Turret-Arm" action permits the blade to stay positioned over the table throughout the 360° arm swing. You can even cut left-hand miters and still get full capacity over the table.



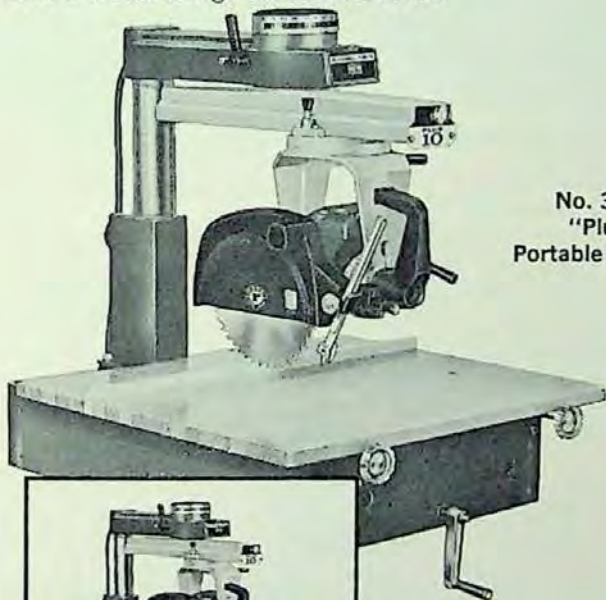
Fool-Proof Mechanical Brake. A dependable, manually operated brake that works every time to assure quick, safe blade stoppage. Brake stops blade almost instantly.

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

NEW ROCKWELL DELTA "Plus 10" 12" PORTABLE RADIAL SAW

A machine that meets the *high standards* required by industry, builders, contractors, commercial and school shops.

Here's why: Extra powerful 1½ HP motor develops up to 3 HP under load to handle the toughest cutting jobs. Rigid frame, massive column base and precision index ring assure top quality cuts on all jobs. Convenient on-off switch with lock-out key, fool-proof mechanical brake and all "up-front" operating controls make it the safest radial saw you can buy. Designed for easy movement, it can be taken right to the job, even carried through a standard entrance, for on-the-spot, centralized cutting. And, it does every job from conventional sawing to dadoing, moulding, routing and sanding with Delta's wide range of accessories.



No. 33-694
"Plus 10"
Portable Model



No. 33-694 "Plus 10"
Portable Model
shown with
Accessory No. 50-104
Steel Legs for Permanent
Installation

Mounting
Dimensions
30"
19¾"

STANDARD EQUIPMENT

Extra powerful 1½ or 2 HP motor; manual or magnetic controls; 12" blade guard with anti-kickback attachment; 12" combination blade; operating and maintenance instructions and wrenches.

ELECTRICAL CONTROLS

Single-phase models are supplied with two-pole, up-front, rocker type control and integral motor overload protection. Three-phase models are supplied with three-pole, up-front, rocker type manual control with separately mounted thermal overload protection or with magnetic starter with up-front, rocker type switch control. Control and overload switch combination provide on-off control with thermal overload protection. Control switch and magnetic starter combination provide on-off control, low-voltage, no-voltage and overload protection.

MACHINE DATA

Motor:
Horsepower 1½, 2
Speed 3450 rpm

Blade:
Diameter (supplied) 12"
Arbor 5/8"

Capacity:
Depth of Cut 10" saw: 3"; 12" saw: 4"
Depth of cut at 45° bevel w/10" blade 1 11/16"; 12" blade 2 3/8"
Cross-cut 16"
Rip 25"

Bevel Positive Stops. 0°, 45° and 90°

Miter Positive Stops. 90° and 45° r. & l.

Table Size. 25 1/2" x 30"

Overall Dimensions:
Width 30"
Depth 32"
Height:
Bench Model 33"
Floor Model 63 1/2"

CATALOG LISTING

H.P.	Voltage	Phase	Cycles	Manual Control w/12" Blade & Guard	Magnetic Control w/12" Blade & Guard
1½	115/230	1	60	*33-694	
2	230	3	60	+33-674	-33-676
2	460	3	60	+33-678	
2	208	3	60	33-687	33-688
2	575	3	60	33-673	
Set of four steel legs (for both 10" and 12" models.)				50-104	

*Wired for 230V operation.

• Supplied with 230/460V motor, wired for voltage listed.

NOTE: Machines available equipped with 10" blade and 10" guard; see Price List.

INCREASE THE USEFULNESS OF YOUR "PLUS 10" WITH THESE ACCESSORIES

No. 50-104 Steel Legs. Set of four. 26 lbs.

No. 33-448 Retractable Leaf Guard. For use with 10" Blade Guard for additional operator protection. 2 lbs.

No. 33-594 Retractable Leaf Guard. For use with 12" Blade Guard, for additional operator protection. 2 lbs.

BLADE GUARDS

Designed to cover entire saw spindle for additional operator protection.

No. 33-941 10" Blade Guard for "Plus 10" Radial Saw. 6 lbs.

No. 33-593 12" Blade Guard for "Plus 10" Radial Saw. 6 lbs.

DADO HEAD SETS



No. 3 Production Type. Consisting of two hollow-ground outer blades (1/8" thick) and four inside cutters (two 1/4" thick; one 1/8" thick; one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide.

No. 33-212 8" Diam. 8 lbs.

No. 34-333 6" Diam. 3 1/2" lbs.






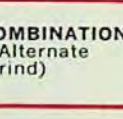
No. 34-334 Economy Dado Head Set. Consisting of two flat-ground outer blades (6" dia. x 1/8" thick) and five inside cutters (4-1/8" thick; 1-1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 4 lbs.

ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

NEW ROCKWELL DELTA "Plus 10" 12" PORTABLE RADIAL SAW

ACCESSORIES—Continued

SAW BLADES All with $\frac{5}{8}$ " Diameter Arbor. $\frac{1}{2}$ lb. each.

Catalog Number	Type	Diameter
33-197 33-247	COMBINATION SAW BLADES (Flat Grind) 	12" 10"
1017	RIP SAW BLADES (Flat Grind) 	10"
1018	CROSSCUT BLADES (Flat Grind) 	10"
1016	MITRE SAW BLADES (Hollow Grind) (4 cutting teeth—1 raker tooth) 	10"
34-707	PLYWOOD (200 Teeth) 	7"
34-840 34-841	CARBIDE-TIPPED COMBINATION (24 Teeth—with Alternate Top Bevel Grind) 	9" 10"

SPACER COLLARS

No. 1171. Set of 2, one $\frac{1}{4}$ " thick and one $\frac{3}{8}$ " thick, $2\frac{1}{2}$ " dia. with $\frac{5}{8}$ " arbor hole.



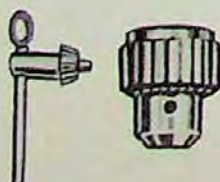
No. 33-277 Short Shank Router Bit Adapter. For mounting short $\frac{1}{2}$ " shank router bits on $\frac{5}{8}$ "—18 L. H. Threaded motor shaft.



No. 33-601 Sanding Drum & Standard Shank Router Bit Adapter. For mounting $\frac{1}{2}$ " shank sanding drums and standard $\frac{1}{2}$ " shank router bits on $\frac{5}{8}$ "—18 L. H. threaded motor shaft.

No. 33-278 3" Dia. x 3" Sanding Drum. With abrasive sleeve. Fits $\frac{5}{8}$ "—18 L. H. threaded motor shaft. 2 lbs.

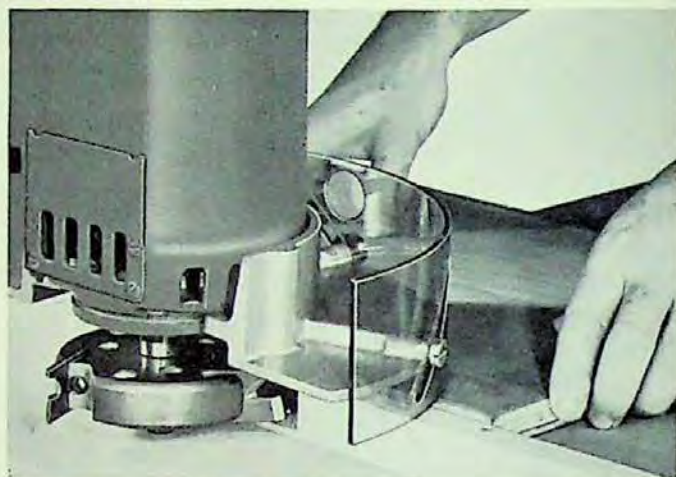
No. 33-279 $1\frac{1}{4}$ " Dia. x 2" Sanding Drum. With abrasive Sleeve. Fits $\frac{5}{8}$ "—18 L. H. threaded motor shaft. 2 lbs.



No. 43-980 $\frac{1}{2}$ " Capacity Geared Key Chuck. 3-jaw type with key. For use on $\frac{5}{8}$ "—18 L. H. threaded motor arbor. Only for use with left hand twist drills, etc.



No. 33-600 Shaper Cutter Adapter. For mounting $\frac{1}{2}$ " hole 3-lip shaper cutters on $\frac{5}{8}$ "—18 L. H. threaded motor arbor.



No. 33-942 Shaping Guard. For additional operator protection.

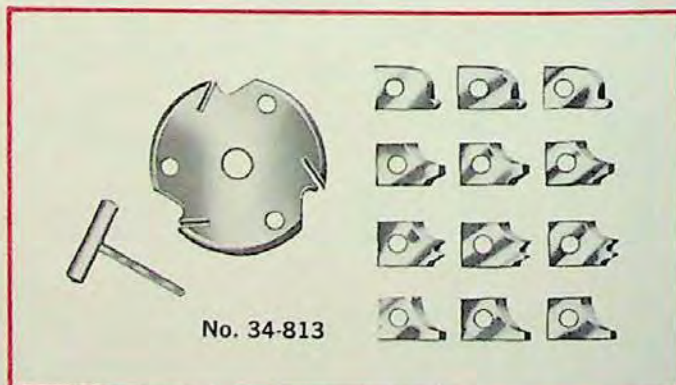


No. 33-603 $8\frac{1}{2}$ " Sanding Disc. With garnet abrasive disc. Mounts directly on $\frac{5}{8}$ "—18 L. H. threaded motor shaft.



No. 265 Moulding Cutterhead. Heavy Duty, Solid-Steel Type. With $\frac{5}{8}$ " arbor hole. Less wrench and knives. 3 lbs.

No. 1521 Wrench. For moulding cutterhead. $\frac{1}{2}$ lb.



No. 34-813 Standard Moulding Cutterhead & Knife Set. Includes No. 265 cutterhead, No. 1521 wrench and Nos. 35-102, 35-103, 35-221, and 35-222 cutterhead knives. For use on $\frac{1}{2}$ " and $\frac{5}{8}$ " dia. arbor saws. 8 lbs.

No. 34-821 Basic Moulding Cutterhead & Knife Set. Includes No. 265 cutterhead, No. 1521 wrench and No. 35-102 set of knives. For use on $\frac{1}{2}$ " and $\frac{5}{8}$ " dia. arbor saws. 7 lbs.








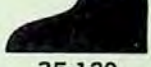

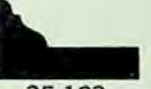












For General Radial Saw Accessories, See Section 16








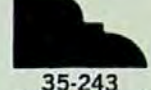


ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA RADIAL SAW ACCESSORIES

MOULDING CUTTERHEAD KNIVES

Choose from 32 sets of Knives.
Knives are shown 1/2 size.

 35-100 1/2" Cove, 5/16" Quarter Round	 35-101 5/16" Cove, 3/8" Bead
 35-102 1/8" and 3/8" Qr. Rd. and 1/4" Bead	 35-103 1/4" and 1/2" Qr. Rd. and 1/4" Bead
 35-104 Straight	 35-106 90° Flute
 35-110 Drawer Joint	 35-120 Ogee
 35-121 Window Sash	 35-123 Door Moulding (m)
 35-126 Door Moulding (f)	 35-131 Glue Joint
 35-190 3 Bead (3/16" Bead)	 35-196 Wedge Tongue
 35-197 Wedge Groove	 35-198 Table Edge
 35-201 1/2" Flute	 35-202 1/2" Bead
 35-204 3/4" Flute	 35-211 1" Flute
 35-221 Thumb Moulding	 35-222 1/2" Cove & 1/4" Flute

 35-223 Ogee	 35-224 5/8" Cove
 35-236 5/8" Flute	 35-237 5/8" Bead
 35-238 3/4" Bead	 35-241 1/4" Tongue
 35-242 1/4" Groove	 35-243 Cove & Bead Moulding
 35-245 Oval Sash	 35-247 Door Lip

MOULDING CUTTERHEAD WRENCH

No. 1521. For moulding cutterhead. 1/8 lb.

ROUTER BITS

(Left Hand Rotation) 
Short 1/2" Shank Bits. With 1 1/2" long flutes. For use with No. 33-277 Adapter or No. 33-304 Adapter.
No. 33-282-3/8", No. 33-283-1/2"



SHAPER CUTTER ADAPTER

No. 43-990. For 1/2" hole shaper cutters. Use with No. 33-304 Adapter or No. 43-980 Chuck.

ABRASIVE PAPER & DISK ADHESIVE

No. 46-815 Abrasive Paper, 8 1/2" dia., No. 40 grit, coarse garnet. 1 doz. 2 lbs.
No. 46-817 Abrasive Paper, 8 1/2" dia., No. 80 grit, fine garnet. 1 doz. 2 lbs.
No. 49-503 Disk Adhesive. For changing abrasive paper.

SANDING DRUMS & AUXILIARY SHAFT

No. 830. 3" dia. x 3", with one sleeve. Fits 1/2" dia. shaft. 2 lbs.
No. 835. 1 3/4" dia. x 2", with one sleeve. Fits 1/2" dia. shaft. 1 3/4 lbs.
No. 840. 1 1/4" dia. x 2 1/2", with one sleeve. With 1/2" shank to fit 1/2" adapters or chuck. 1/2 lb.
No. 11-834 Auxiliary Shaft, 1/2" x 2 1/2", entire length milled flat. For use with No. 830 and No. 835 sanding drums when used with No. 33-601, No. 33-277 and No. 33-304 adapters.

SANDING SLEEVES

3" dia x 3" Sleeves. Pckg. of 6. For use with No. 33-278 and No. 830 Sanding Drums.

No. 831. Coarse garnet. 40 grit. 1/2 lb. 1/2 lb.
No. 832. Medium garnet. 60 grit. 1/2 lb.
No. 833. Al. Oxide (for metal) 50 grit. 1/2 lb.
1 3/4" Dia. x 2" Sleeves. Pckg. of 6. For use with No. 33-279 and No. 835 Sanding Drums.
No. 836. Coarse garnet. 40 grit. 1/4 lb.
No. 837. Medium garnet. 60 grit. 1/4 lb.
No. 838. Al. Oxide (for metal) 50 grit. 1/4 lb.
1 1/4" Dia. x 2 1/2" Sleeves. Pckg. of 6. For use with No. 840 Sanding Drum.
No. 841. Medium garnet. 50 grit. 1/2 lb.
No. 842. Fine garnet. 80 grit. 1/2 lb.
No. 847. Al. Oxide (for metal). No. 50 grit. 1/2 lb.

STRAIGHT CUTTERS—1/2" hole.

1 1/8" Diameter	
D-107	1/2"
D-130	3/4"
D-104	1"
D-105	1 1/2"
1 1/4" Diameter	
D-108	1/4"
D-127	3/8"
2 1/2" Diameter	
D-139	1/4"
D-129	3/8"

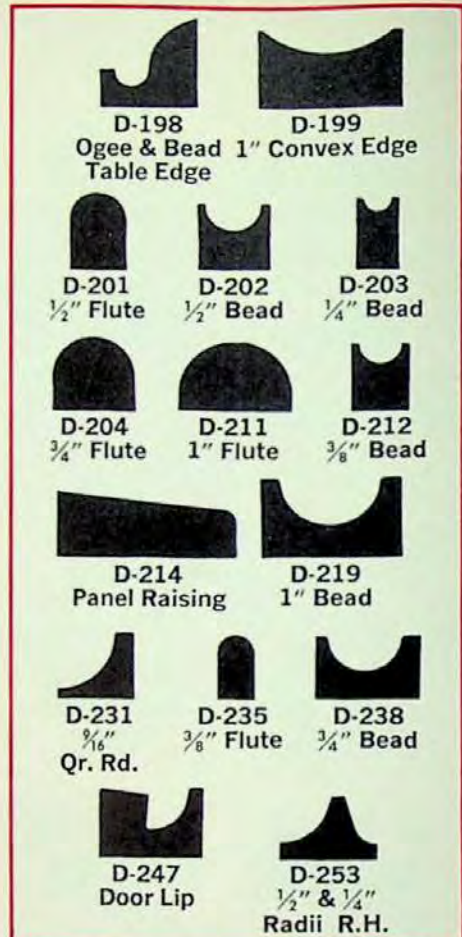
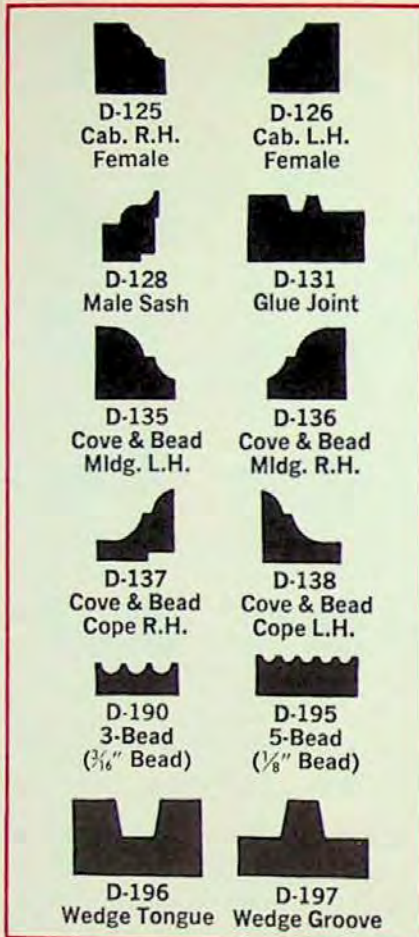
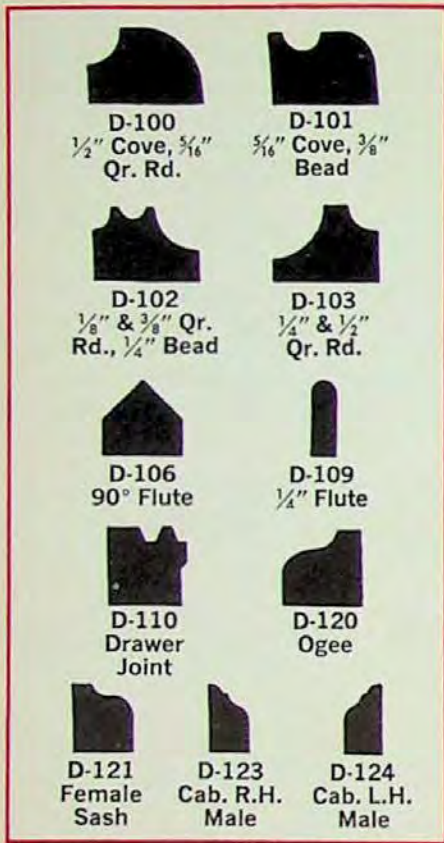
SPACING COLLARS—1/2" hole.

1/8" Thickness	
No.	Diameter
D-133	1 1/16"
3/8" Thickness	
No.	Diameter
D-150	1 3/8"
1/4" Thickness	
D-155	3/4"
D-217	1 1/32"
D-134	1 1/32"
D-140	1 1/16"
D-215	1 1/32"
D-151	1 7/8"
3/8" Thickness	
D-142	3/4"
D-171	1 1/16"
D-143	7/8"
D-172	1 1/16"
D-144	1"
D-173	1 1/16"
D-145	1 1/8"
D-132	1 1/32"
D-141	1 1/16"
D-146	1 1/4"
D-174	1 5/8"
D-175	1 7/16"
D-176	1 1/16"
D-147	1 3/8"
D-148	1 1/2"
D-177	1 5/8"
D-178	1 11/16"
D-179	1 13/16"
D-180	1 7/8"
D-149	1 15/16"

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA RADIAL SAW ACCESSORIES

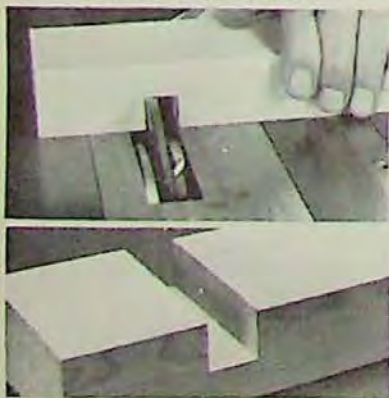
3-LIP SHAPER CUTTERS— $\frac{1}{2}$ " hole.
Choose from 38 3-lip cutters.
Knives are shown $\frac{1}{2}$ " size.



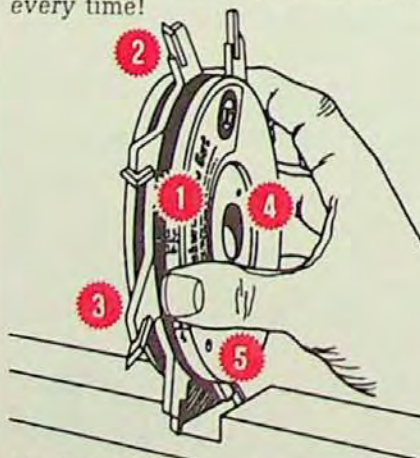
NEW ROCKWELL TRU-CUT 6" ADJUSTABLE DADO



Makes fast, smooth cuts on your saw with complete accuracy.



The Rockwell Tru-Cut Dado is easy to use. You just dial the width of cut you want and get perfect results every time!



It's designed to operate on all saws with a $\frac{5}{8}$ " or $\frac{3}{4}$ " arbor (by removing bushing). Rockwell quality features include:

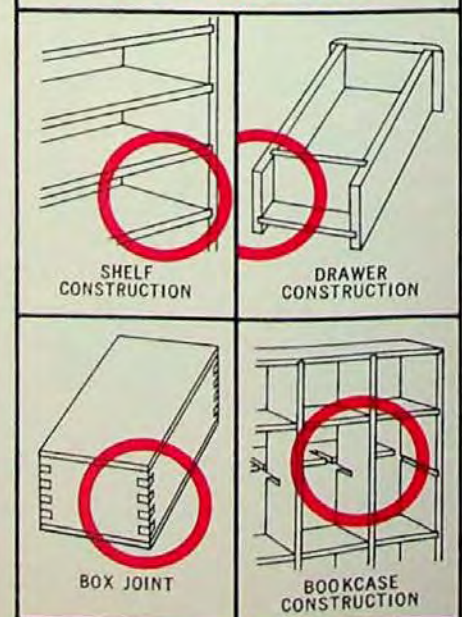
1. Easy-to-read markings that permit quick selection of cuts from $\frac{1}{4}$ " to $1\frac{3}{16}$ " wide and up to $\frac{3}{4}$ " deep.
2. Super-sharp cutting teeth that give cleanest cuts possible without frequent sharpening.
3. Teeth that are brazed to a solid steel body for durability and long life.
4. Permanent locking of dado in position for future duplication of cut.
5. Quick settings—just loosen arbor nut and select new cutting width

desired—no need to remove dado from saw arbor.

SPECIFICATIONS

Model No. 34-960
Width of Cut. $\frac{1}{4}$ " to $1\frac{3}{16}$ "
Maximum Depth of Cut. $\frac{3}{4}$ "
No. of Teeth. 8
Fits Arbor. $\frac{5}{8}$ " or $\frac{3}{4}$ "
Speed. Not to Exceed 7000 RPM

Make These Cuts and Many More With Your Rockwell Tru-Cut Dado





ROCKWELL DELTA 20" Wood Cutting BAND SAW

**OFFERS MAXIMUM FLEXIBILITY
COMBINED WITH HIGH
PRODUCTION PERFORMANCE**

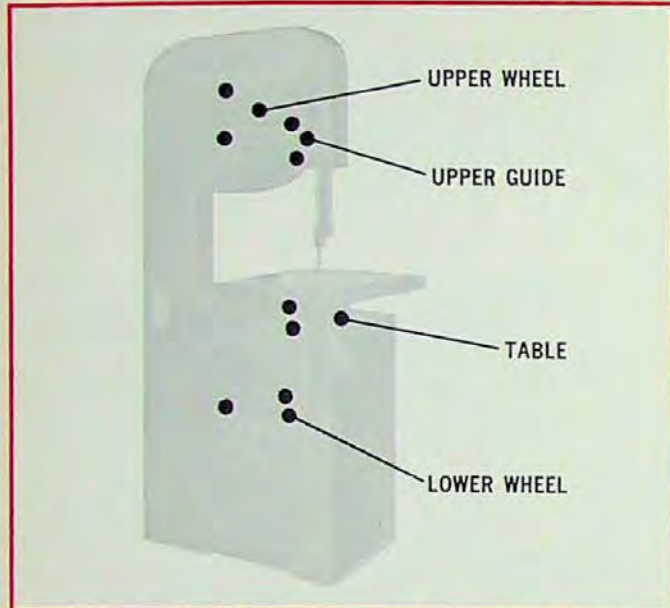
Typical Delta Quality Features Include:

- Ball bearing blade guides
- Micrometer blade guide adjustment
- Quick-Change, wear resistant TEXIN[®] tires
- Unique "3-point" adjustability feature for continued factory precision accuracy.

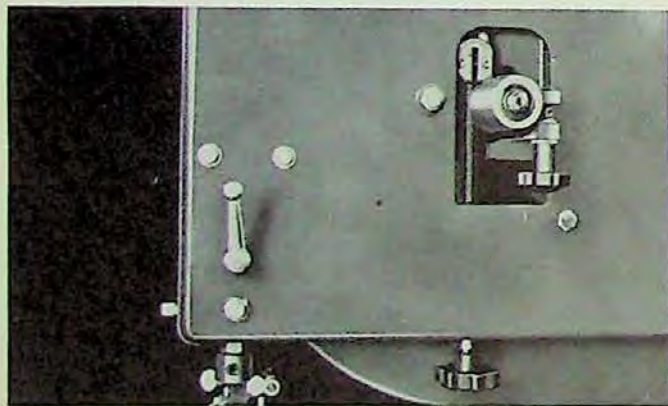
Do you need a band saw that will quickly cut wood, plastic and non-ferrous metals . . . provide a big 138" capacity . . . handle your toughest jobs, day after day, year-in and year-out with little or no maintenance? Then, the Rockwell Delta 20" Wood Cutting Band Saw will fit perfectly into your operation. Ask for a "Proof-by-Performance" test today!

ROCKWELL DELTA 20" WOOD CUTTING BAND SAW

**DELTA QUALITY FEATURES
THAT GUARANTEE ACCURATE,
LOW-COST OPERATION!**



Unique "3-Point" Adjustability—Only the Delta 20" Wood Cutting Band Saw incorporates a "3-point" adjustability feature whereby the upper wheel, upper guide bracket, table and lower wheel can be minutely adjusted one to another. This exclusive, built-into-the-frame feature assures continued factory-adjusted machine alignment and perfect saw cuts for the life of the machine.

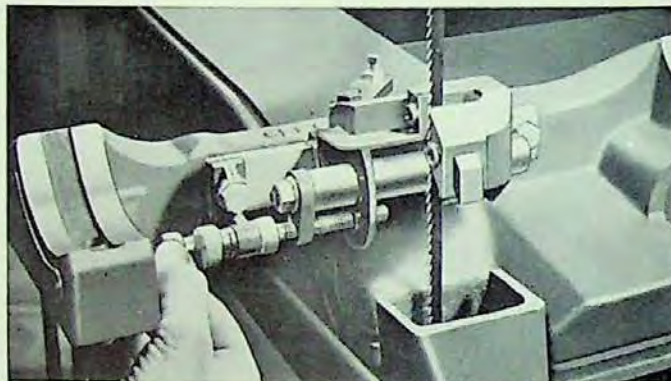
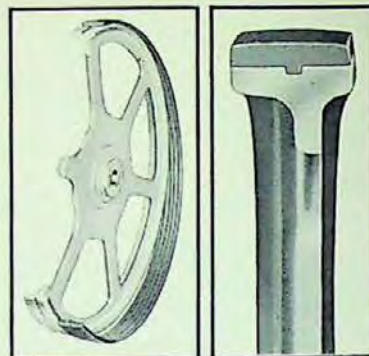


Convenient Blade Adjustments—Handy blade tension and tracking adjustments on frame of upper wheel offer accurate adjustment of both wheel and blade. Tension scale enables operator to select the exact tension to suit the job.



Flexible Motor Mount. Motor is mounted in the base on a pivot bracket which automatically provides correct belt tension. Large door permits easy access to the motor for repair or replacement.

Quick Change Tires. One of the "secrets" of the extra smooth performance of the Delta 20" Wood Cutting Band Saw is its tires. The specially constructed, "Snap-Lock" plastic tires are precision molded of tough, wear resistant TEX-IN® which is not affected by oil or commercial solvents. These tires do not have to be cemented to the wheel, never need to be ground or balanced. They will not come loose. Most important, they can be replaced in about 10 minutes without removing the wheels.



Superior Blade Guides. Handy blade guides and blade supports are individually adjustable. Micrometer adjustment screws facilitate settings to the finest degree. Upper guide supports saw blade down to the top surface of the work. Lower guide supports blade to within 1" from the table surface. Adjustable stop permits return of the table to exact level position following angle cuts.



Rugged Table Construction. Table is a big 20" x 24 1/4" in size. Two massive trunnions, 17" apart—one on each side of the saw blade—give solid support to the table. Handy tilt scale shows exact angle of cut.

DELTA QUALITY BAND SAW EXTRAS

- Lightweight aluminum wheels, precision balanced with rims fully machined concentric to the shaft hole, guarantee smoother, safer running, even at high speeds.
- Exclusive "locked-in" table insert cannot rotate because it contains a tiny lug that engages the blade removal slot. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 20" WOOD CUTTING BAND SAW



**No. 28-350
Band Saw**
Shown with
Accessory
25-857
Lamp Attachment,
28-862
Fence Attachment,
50-864 Miter Gage
and Electricals

The Delta 20" Ball Bearing Band Saw is a BIG MACHINE with BIG CUTTING CAPACITY. It's rugged enough for the heaviest production work and its flexibility makes it ideal for cabinet shops, pattern shops, school shops... wherever big capacity cutting of wood, plastics or non-ferrous metals is required.

Ball bearing blade guides assure utmost accuracy and reduce blade breakage... micrometer adjustment screws provide for fine guide adjustment. Big table tilts 45° right and 12° left and can be quickly locked at any angle. Lower wheel has a convenient foot brake... dust chute carries away sawdust and chips.

This heavy-duty band saw gives complete safety. A single, welded steel cabinet encloses all working parts... upper and lower wheels, motor, etc., are easily accessible through convenient doors.

Available with a wide range of electrical controls to suit your particular operation.

MACHINE DATA

Capacity:
Blade to column 19³/₈"
Maximum height under top guide 13³/₈"
Height under upper wheel guard 12¹/₈"

Table:
Size 20 x 24¹/₄"
Front to center of blade 10¹/₂"
Size of groove for miter gage 3/8 x 3/4"
Center of blade to rear edge of table 13¹/₂"
Tilts 12° left and 45° right
Trunnions 17" apart
Height from floor 42³/₈"

Speeds (with 3¹/₂" O.D. Motor Pulley):
With 1725 RPM motor 4500 fpm

Wheels:
Diameter (tire mounted) 20¹/₈"
Tire width 1¹/₄"

Blades:
Length—Standard 141"; Maximum 142¹/₂"; Minimum 139"
Maximum width 1"

Dust Chute Connection Diameter 2¹/₄" O.D.

Overall Dimensions:
Front to rear . . . 29¹/₂"; Left to right . . . 39¹/₂"; High . . . 78¹/₂"

Motor Plate Will Accommodate Delta 8¹/₂" Frame and NEMA 182 and 184 Frame Motors.

Shipping Weight (approx.) Less motor and control . . . 558 lbs.

STANDARD EQUIPMENT

Basic Machine includes 20" Wood Cutting Band Saw with foot brake, dust chute, adjustable blade guides, blade tension indicator, 3/8" blade, 41-504 motor pulley and set of 49-140 matched belts.

CATALOG LISTING

Basic Machine (Less Motor and Control—See Below)

No. 28-350 20" Wood Cutting Band Saw, less electricals. Includes foot brake, dust chute, adjustable blade guides, blade tension indicator, 3/8" blade, No. 41-504 motor pulley (3/4" bore supplied, unless 7/8" bore is specified) and set of two No. 49-140 matched V-belts. 558 lbs.

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	115/230	60	49-785
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	115/230	64	49-786
Three Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	45	49-787
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	47	49-788
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	50	49-789
	Push Button Switch and Magnetic Starter (w/115V. Transformer)	Guarded Drip Proof	60—1725	230/460	55	49-790
Three Phase, 1 1/2 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	51	49-791
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	53	49-792
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	56	49-793
	Push Button Switch and Magnetic Starter (w/115 V. Transformer)	Guarded Drip Proof	60—1725	230/460	61	49-794
Three Phase, 2 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	63	49-795
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	65	49-796
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	68	49-797
	Push Button Switch and Magnetic Starter (w/115 V. Transformer)	Guarded Drip Proof	60—1725	230/460	73	49-798

NOTE: Single phase electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug supplied

for single phase only. Motors and motor controls for Rockwell Delta 20" Wood Cutting Band Saws may be ordered unmounted. For listing, see Sections P and Q.

ROCKWELL DELTA 20" WOOD CUTTING BAND SAW

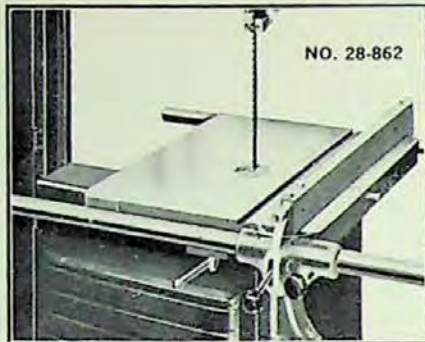
DELTA QUALITY ACCESSORIES THAT INCREASE THE VERSATILITY OF THE 20" WOOD CUTTING BAND SAW

Butt Welder for Band Saw Blades—For welding your own blades from economical coiled stock, repairing broken blades or re-welding band saw blades in connection with special internal cutting operations. Handles wood, metal and skip tooth blades up to 1/2" wide. Incorporates a built-in grinder for finishing welds, a push button control for uniform welding and annealing of blades and a convenient carrying handle. 53 lbs.

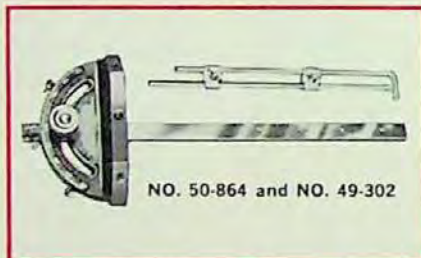


No. 28-463 Butt Welder—115V, 50/60 cy, single phase, 1/2" capacity. Includes grinder with guard, carrying handle, brackets for bench mounting and 6-foot grounding cord with 3-prong parallel blade plug.

No. 28-464 Butt Welder—Same as 28-463 except with 3-prong tandem blade plug.



No. 28-862 Fence Attachment—Includes 2 1/2" x 27" Micro-Set[®] fence with front and rear locks, two 44" tubular guide rails and mounting screws. Fence may be set anywhere from 15 1/2" to left of blade to 25" to right with pointer and calibrations reading from zero to 25" to right. Recommended for ripping and re-sawing lumber. 30 lbs.



No. 50-864 Miter Gage—For straight and angle cut-off work. Has 3/8" x 3/4" x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 49-302 Stop Rods—For 50-864 Miter Gage, 5/16" diameter, with two clamps and two screws. 1/2 lb.

No. 865 Clamp Attachment for Miter Gage—With clamp bar, two sliding clamp screws, and front and rear posts. 2 1/4 lbs.

No. 873 Extra Clamp Screw and Block—For Clamp Attachment. 1 lb.

No. 28-353 Lower Wheel—Complete with Quick-Change "Snap-Lock" Tire. 14 lbs.

No. 28-354 Upper Wheel—Complete with Quick-Change "Snap-Lock" Tire. 13 lbs.

No. 28-355 Quick-Change "Snap-Lock" Tire—For upper and lower wheels. 3 lbs.

No. 41-504 Motor Pulley—Two groove, 3 1/2" O.D., 3/4" bore, for Delta 8 1/2" frame motors. 2 lbs.

No. 41-505 Motor Pulley—Two groove, 3 1/2" O.D., 7/8" bore, for NEMA 182 and 184 frame motors. 2 lbs.

No. 49-140 Set of Two Matched V-belts, 59 1/2" O.C. 1 lb.

Wood Cutting Band Saw Blades—All blades are 141" long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-875	3/16"	1/2"	5
28-876	1/4"	3/4"	5
28-877	3/8"	1"	5
28-878	1/2"	1 1/2"	4
28-879	3/4"	2"	4
28-880	1"	4"	4
28-881	3/4"	For Resawing	3
28-882	1"	For Resawing	2

The above blades can be file sharpened.

Skip Tooth Band Saw Blades—For cutting aluminum, magnesium, plastics and all kinds of wood. All blades are 141" long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-890	1/4"	3/4"	4
28-891	3/8"	1"	4
28-892	1/2"	1 1/2"	4
28-894	3/4"	2"	3
28-896	1"	For Resawing	2

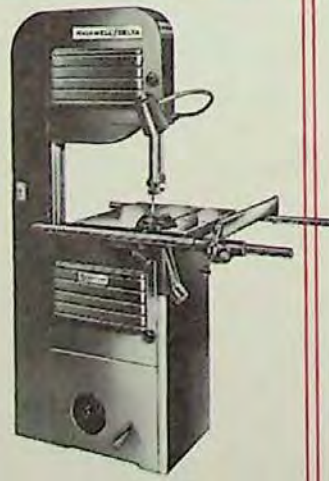
SEE THE COMPLETE ROCKWELL DELTA QUALITY BAND SAW LINE TODAY!



ROCKWELL DELTA
14" WOOD CUTTING
BAND SAW



ROCKWELL DELTA
14" METAL
CUTTING BAND SAW

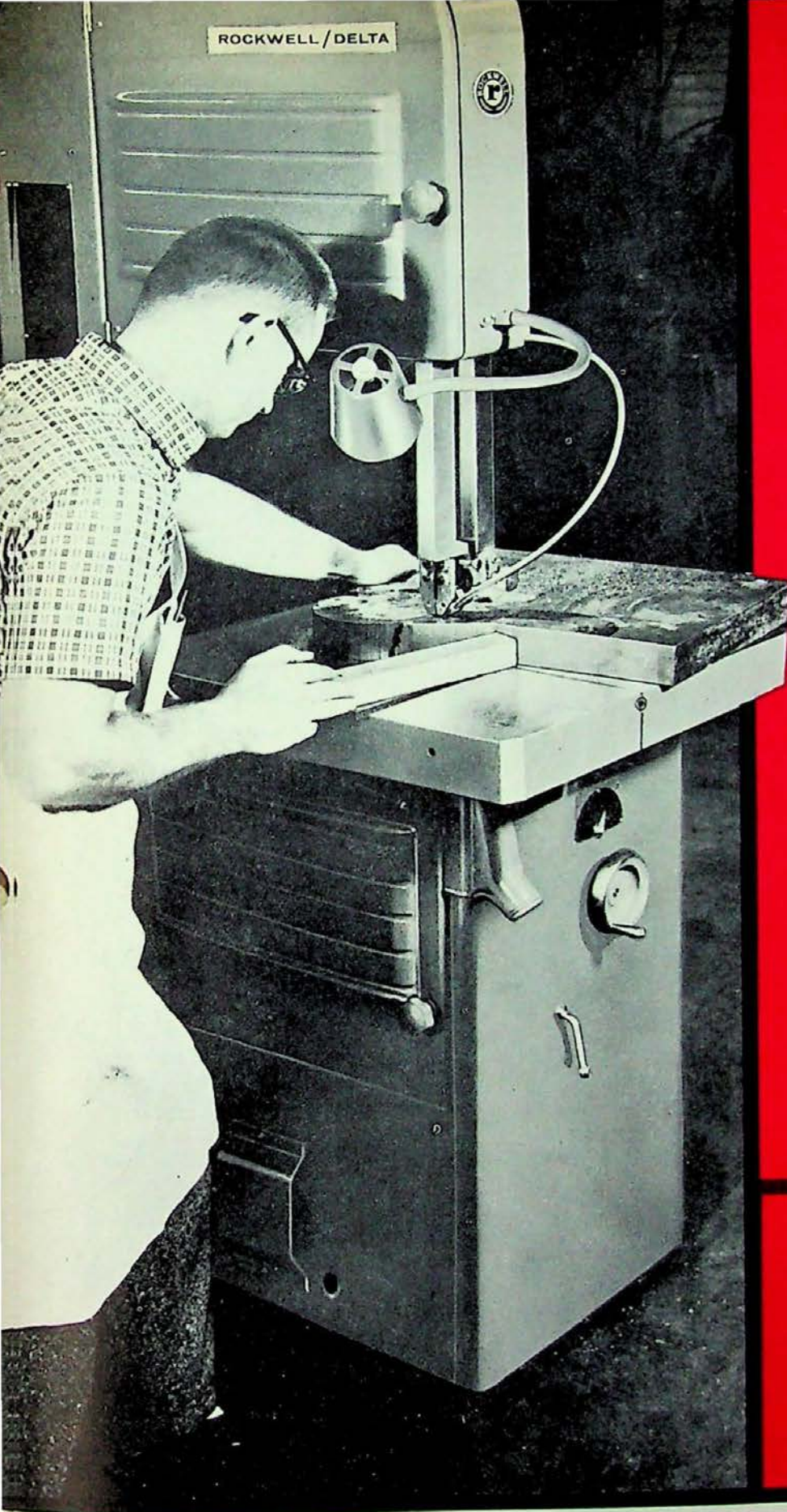


ROCKWELL DELTA
20" WOOD CUTTING
BAND SAW



ROCKWELL DELTA
20" METAL CUTTING
BAND SAW

ROCKWELL / DELTA



ROCKWELL DELTA **20"** **Metal Cutting** **Variable Speed** **BAND SAW**

*A High Production,
Big Performance
Machine Offering . . .*

- **WIDE RANGE**
Variable Speed Drive . . .
50 to 4500 FPM.
- **IMPROVED** Blade Guide Design.
- **COMPLETE** Cutting Versatility.

Here's a production band saw that combines the features you need for greater accuracy and better cutting in the tool room, foundry, maintenance department or school shop. Its tremendous speed range makes it well suited for cutting stainless steel, cast iron, non-ferrous metals, plastics and wood.

ROCKWELL DELTA 20" METAL CUTTING VARIABLE SPEED BAND SAW

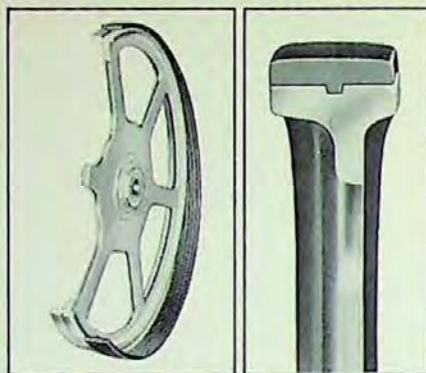
**DELTA QUALITY FEATURES
THAT GUARANTEE
GREATER ACCURACY
AND BETTER CUTTING!**



Rugged Frame Construction. Upper wheel, upper guide bracket, table, and lower wheel are carefully adjusted to each other for perfect machine alignment. Only Delta's unique "3-point" adjustability feature—built right into the frame—assures you *continued* factory-adjusted machine alignment. Backbone of the massive, welded interior frame is a large diameter steel column.



Massive, Extra Rigid Table. Scientifically ribbed, *more than two-foot square* table rests on two solid trunnions, spaced 17" apart. Side take-out slot for the blade gives you a trunnion support *in front of the blade*, where the work load is greatest. Compare this table mounting with others that have the trunnions located *behind the blade* which results in lengthy table overhang and inadequate support for heavy work loads.



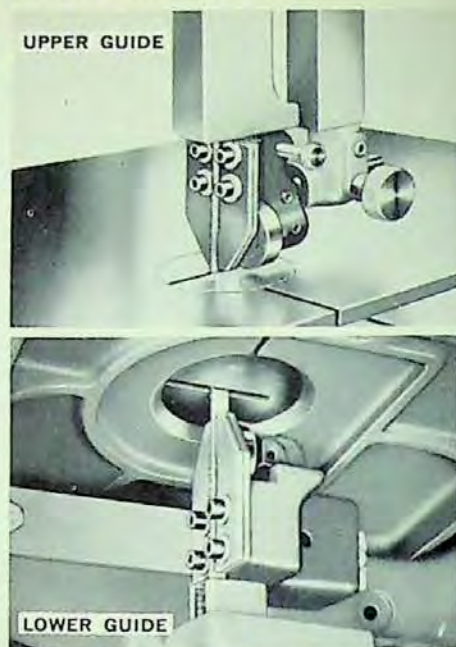
Quick Change Tires. The specially constructed, "Snap-Lock" plastic tires are precision molded of tough, wear resistant TEXIN® which is not affected by oil or commercial solvents. These tires do not have to be cemented to the wheel, never need to be ground or balanced. They *will not come loose*. Most important, they can be replaced in about 10 minutes *without removing the wheels*.



Wide Range Variable Speed Drive. Offers a tremendous speed range—50 to 4500 FPM—that makes it unmatched in versatility and ideal for cutting anything that can be sawed—stainless steel, cast iron, non-ferrous metals, wood and plastics. Safe, convenient hand wheel lets you dial the *exact* speed you need for the highest quality cuts—quickly and without disturbing the belts.



Convenient Speed Controls. Hand wheel, "Hi-Lo" drive selector, and easy-to-read speed scale are conveniently located for quick selection of a wide choice of speeds from 50 to 380 FPM in gear drive and 600 to 4500 FPM in direct drive.



Scientifically Designed Delta Guides. Upper guide supports the blade right down to the top surface of the work piece. Lower guide supports the blade to within only $\frac{1}{16}$ " from the table surface. Two large ball bearings provide extra rigid backup blade support. You *pay nothing extra* for this superior blade guide construction—the key to quality cuts and longer blade life on *any* band saw!

DELTA QUALITY BAND SAW EXTRAS

- Chip Blower is included as standard equipment (on No. 28-364). It keeps cutting line free of chips for truer sawing.
- Lightweight aluminum wheels, precision balanced with rims fully machined concentric to the shaft hole, guarantee smoother, safer running, even at high speeds.
- Powerful drive arrangement—a massive, short, $1\frac{3}{8}$ " diameter lower wheel drive shaft combined with a precision balanced drive wheel with sealed, lubricated-for-life ball bearings—assures smooth, positive power transmission when cutting materials of all types.
- Exclusive "locked-in" table insert *cannot rotate* because it contains a tiny lug that engages the blade removal slot. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.
- Built-in blade and tire cleaning brushes provide continuous cleaning action that greatly lengthens blade life.
- Handy blade and speed chart aids the machine operator in selecting the correct blade and speed for cutting 58 different materials. Chart also gives the minimum cutting radius for different blade widths.

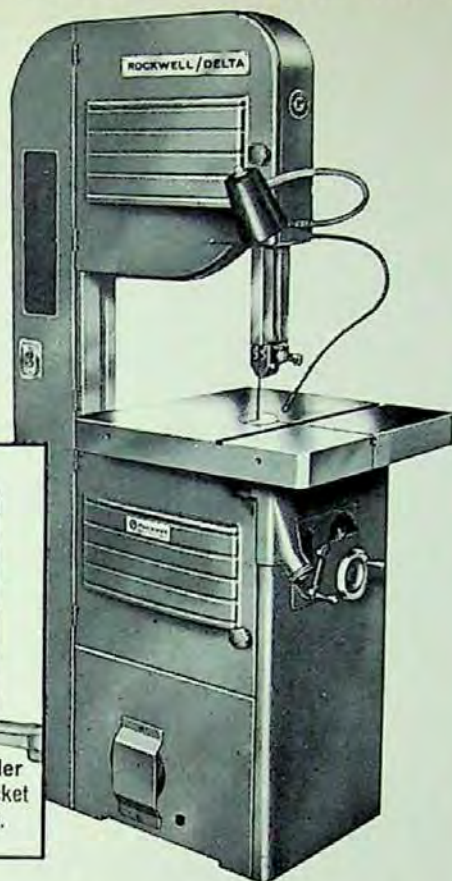
ROCKWELL DELTA INDUSTRIAL METALWORKING MACHINES

ROCKWELL DELTA 20" METAL CUTTING VARIABLE SPEED BAND SAW

No. 28-364
Band Saw
 Shown with
 Accessory
 25-857
 Lamp Attachment
 and
 Electricals.



Accessory Blade Welder
 Mounted on 28-462 Bracket
 for Machine-Side Use.



MACHINE DATA

Capacity:
 Blade to column19 $\frac{3}{4}$ "
 Maximum height under top guide12"
 Height under upper wheel guard12 $\frac{1}{8}$ "

Table:
 Size3 x 24 $\frac{1}{4}$ " x 24 $\frac{1}{4}$ "
 Front to center of blade10 $\frac{1}{2}$ "
 Size of groove for sliding jig $\frac{3}{8}$ x $\frac{3}{4}$ "
 Center of groove to blade4 $\frac{1}{8}$ "
 Tilts12° left and 45° right
 Height from floor42 $\frac{3}{8}$ "

Speeds (with 1725 rpm motor):
 Infinite choice of speeds in gear drive50 to 380 fpm
 Infinite choice of speeds in direct drive600 to 4500 fpm

Blades:
 Length—Standard 141", Maximum 142 $\frac{1}{2}$ ", Minimum 139"
 Maximum width1"

Floor Space Required20 x 32"

Overall Dimensions:
 Front to rear...29 $\frac{1}{2}$ "; Left to right...41 $\frac{1}{2}$ " High...78 $\frac{1}{2}$ "

Chip Chute Connection Diameter2 $\frac{1}{4}$ "

Motor Plate Will Accommodate Delta 8 $\frac{1}{2}$ " Frame and NEMA 182 and 184 Frame Motors.

Shipping Weight (approx.) Less motor and Control . . .690 lbs.

STANDARD EQUIPMENT

Variable Speed Drive complete with belts and pulleys, counterbalance for upper blade guide, chip chute, chip removal brushes (2), blade speed chart and one blade ($\frac{1}{2}$ ", 18 teeth, metal cutting).

CATALOG LISTING

Basic Machines (Less motor and Control—See Below)

No. 28-364 20" Metal Cutting Variable Speed Band Saw, less electricals. Includes standard equipment, plus chip blower complete with air line and nozzle. *CHIP BLOWER SUPPLIED ONLY WHEN FACTORY MOUNTED* in Band Saw ordered with factory mounted motor and control kit, as listed below. 692 lbs.

No. 28-365 20" Metal Cutting Variable Speed Band Saw, less electricals. Same as No. 28-364 Basic Band Saw, except does not include chip blower. (Motor pulley with $\frac{3}{4}$ " bore supplied, unless $\frac{7}{8}$ " bore is specified.) 684 lbs.

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	115/230	60	49-785
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	115/230	64	49-786
Three Phase, 1 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	45	49-787
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	47	49-788
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	50	49-789
	Push Button Switch and Magnetic Starter (w/115V. Transformer)	Guarded Drip Proof	60—1725	230/460	55	49-790
Three Phase, 1 $\frac{1}{2}$ Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	51	49-791
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	53	49-792
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	56	49-793
	Push Button Switch and Magnetic Starter (w/115 V. Transformer)	Guarded Drip Proof	60—1725	230/460	61	49-794
Three Phase, 2 Horsepower	Push Button Switch Only	Guarded Drip Proof	60—1725	230/460	63	49-795
	Push Button and Overload Switches	Guarded Drip Proof	60—1725	230/460	65	49-796
	Push Button Switch and Magnetic Starter	Guarded Drip Proof	60—1725	230/460	68	49-797
	Push Button Switch and Magnetic Starter (w/115 V. Transformer)	Guarded Drip Proof	60—1725	230/460	73	49-798

NOTE: Single phase electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase electricals will be supplied wired for

230 V, unless 208 V or 460 V is specified. Power Cord and Plug supplied for single phase only.

ROCKWELL DELTA 20" METAL CUTTING VARIABLE SPEED BAND SAW

DELTA QUALITY ACCESSORIES THAT ENABLE YOU TO DO MORE ON THE 20" METAL CUTTING BAND SAW

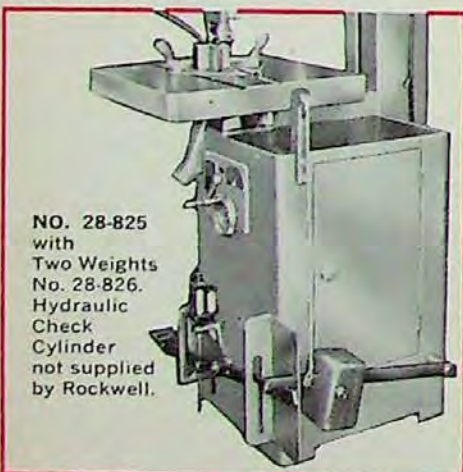
Butt Welder for Band Saw Blades—For welding your own blades from economical coiled stock, repairing broken blades or re-welding band saw blades in connection with special internal cutting operations. Handles wood, metal and skip tooth blades up to 1/2" wide. Incorporates a built-in grinder for finishing welds, a push button control for uniform welding and annealing of blades and a convenient carrying handle. 53 lbs.



No. 28-463 Butt Welder—115V, 50/60 cy, single phase, 1/2" capacity. Includes grinder with guard, carrying handle, brackets for bench mounting and 6-foot grounding cord with 3-prong parallel blade plug.

No. 28-464 Butt Welder—Same as 28-463 except with 3-prong tandem blade plug.

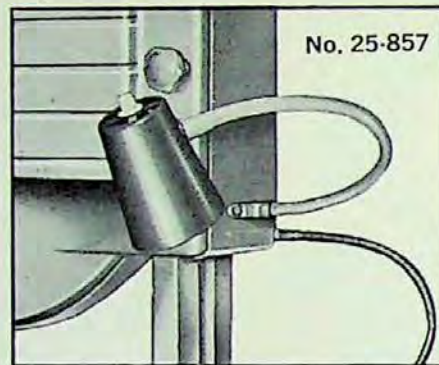
No. 28-462 Bracket for mounting 28-463 or 28-464 Welder on 20" Metal Cutting Band Saw. 21 lbs.



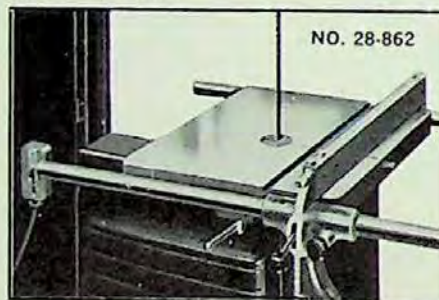
NO. 28-825 with Two Weights No. 28-826. Hydraulic Check Cylinder not supplied by Rockwell.

No. 28-825 Gravity Feed Attachment—Used primarily to avoid operator fatigue, it provides a variable feed pressure of approximately 5 to 29 pounds with standard 30-pound weight provided. It also enables the operator to devote his entire attention to guiding the work, assuring more accurate cutting. (For additional feed pressure, order extra weights; see below.) Fits all past or present Delta 20" Metal Cutting Band saws. 96 lbs.

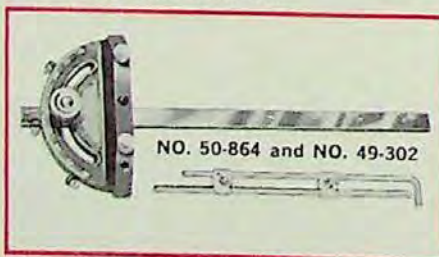
No. 28-826 Extra Weight—For 28-825 Gravity Feed Attachment. With one extra weight, attachment provides approximately 10 to 41 pounds feed pressure, or with two extra weights, 15 to 50 pounds. 17 lbs.



No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.



No. 28-862 Fence Attachment—Includes 2 1/2 x 27" Micro-Set® fence with front and rear locks, two 44" tubular guide rails and mounting screws. Fence may be set anywhere from 15 1/2" to left of blade to 25" to right with pointer and calibrations reading from zero to 25" to right. Recommended for ripping and re-sawing lumber. 30 lbs.



No. 50-864 Sliding Jig—For straight and angle cut-off work. Has 3/8 x 3/4 x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 49-302 Stop Rods—For 50-864 Sliding Jig. 5/16" diameter, with two clamps and two screws. 1/2 lb.

No. 865 Clamp Attachment for Sliding Jig—With clamp bar, two sliding clamp screws, and front and rear posts. 2 3/4 lbs.

No. 873 Extra Clamp Screw and Block—For Clamp Attachment. 1 lb.

No. 41-924 Motor Pulley—For variable speed drive, 2 5/8" diameter, with set screw, 3/4" bore.

No. 41-925 Motor Pulley—For variable speed drive, 2 5/8" diameter, with set screw, 7/8" bore.

No. 49-163 Belt—Variable speed drive type, 31 1/8" O.C.

No. 49-164 Belt—Variable speed drive type, 52 1/2" O.C.

Metal Cutting Band Saw Blades—These are regular set, hard-edge, flexible-back standard blades for cutting all metals. All blades are 141" long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-865	1/2"	2 1/2"	10
28-866	1/2"	2 1/2"	14
28-867	1/2"	2 1/2"	18
28-868	1/2"	2 1/2"	24

Wood Cutting Band Saw Blades—All blades are 141" long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-875	3/16"	1/2"	5
28-876	1/4"	3/4"	5
28-877	3/8"	1"	5
28-878	1/2"	1 1/2"	4
28-879	3/4"	2"	4
28-880	1"	4"	4
28-881	3/4"	For Resawing	3
28-882	1"	For Resawing	2

The above blades can be file sharpened.

Skip Tooth Band Saw Blades—For cutting aluminum, magnesium, plastics and all kinds of wood. All blades are 141" long.

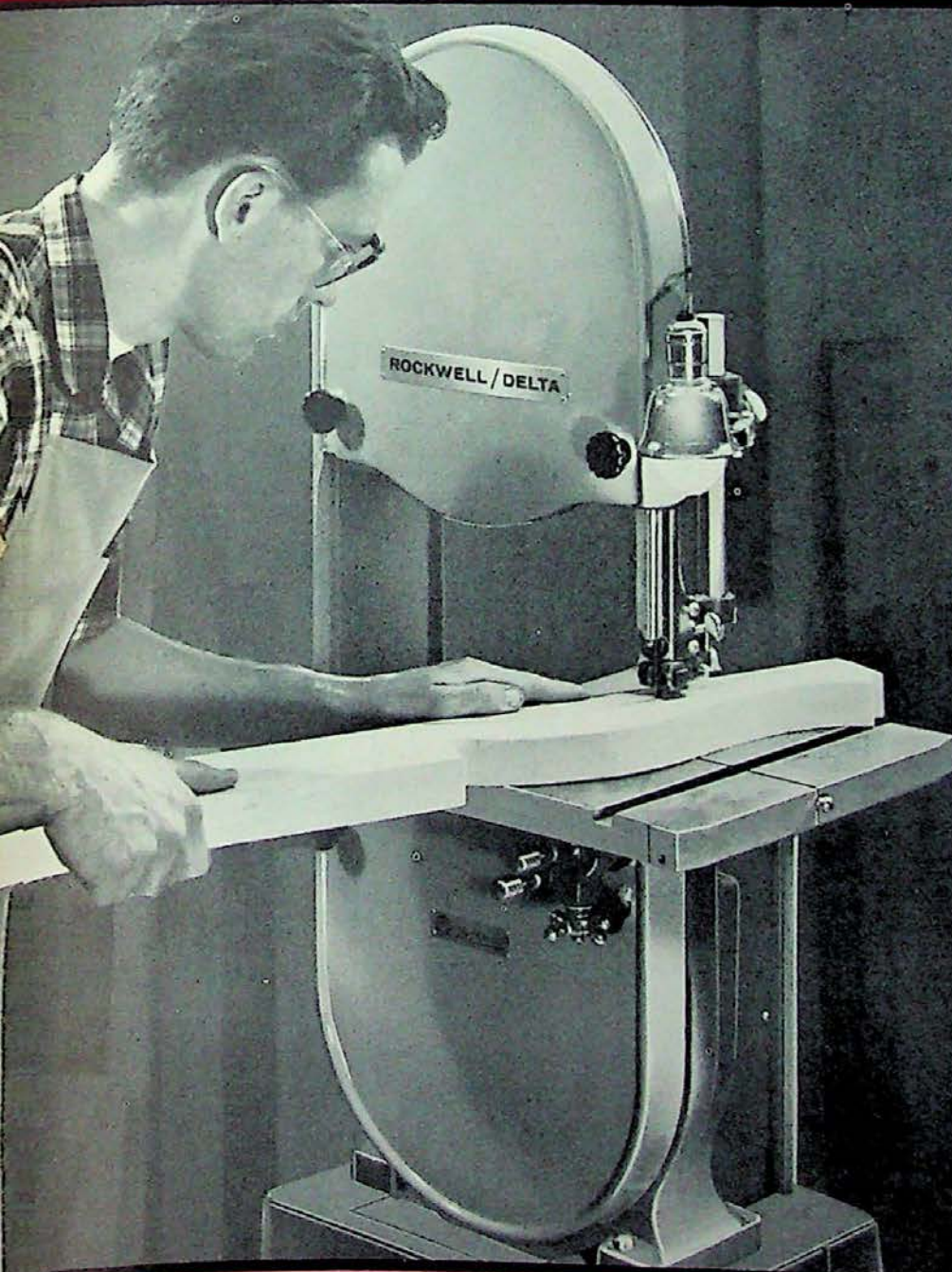
NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-890	1/4"	3/4"	4
28-891	3/8"	1"	4
28-892	1/2"	1 1/2"	4
28-894	3/4"	2"	3
28-896	1"	For Resawing	2

ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shut-downs and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

ROCKWELL DELTA 14" Wood Cutting BAND SAW

A VERSATILE PRODUCTION SAW THAT'S IDEAL FOR EVERY SHOP!

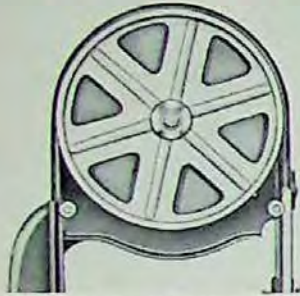


If you cut wood, compositions, plastics or light metals, it will pay you to investigate this widely-used Delta Band Saw today. Here's why:

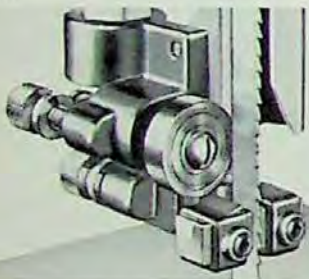
- Provides a BIG 6 $\frac{1}{4}$ " capacity . . . 12 $\frac{1}{4}$ " with height attachment.
- Runs smoothly—has precision balanced, super lightweight magnesium wheels.
- Contains double sealed, lubricated-for-life ball bearing construction throughout.
- Incorporates extra safe, independently adjustable blade guides that adjust with micrometer accuracy.
- Furnished with a multi-purpose table that tilts 45° right and 10° left.
- Plus preferred push button control switch, totally enclosed motor and attractive color styling.

ROCKWELL DELTA 14" WOOD CUTTING BAND SAW

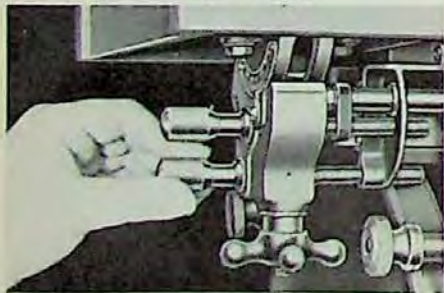
DELTA QUALITY FEATURES THAT MAKE THE 14" BAND SAW INDUSTRY'S FIRST CHOICE!



Smooth Running Wheels—Light weight magnesium wheels are precision balanced with rims fully machined concentric with the shaft hole, for smooth running. Recess in rim eliminates use of messy cement—makes tire changing easy.



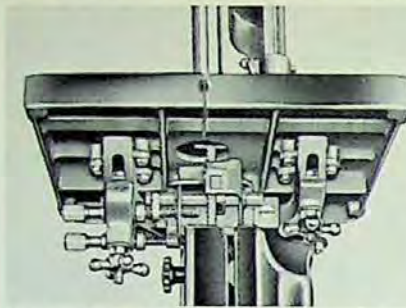
Superior Upper Blade Guide Construction—Upper guide has separate, safe, remote control micrometer adjustments for ball bearing blade support and blade guide blocks. Guides and blade supports adjust independently.



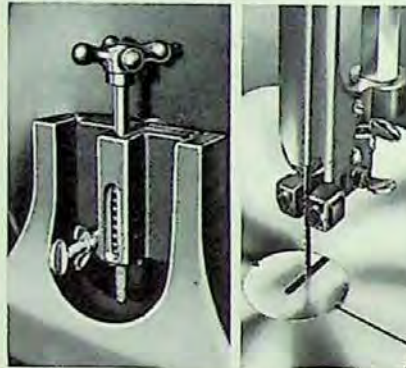
Precision Lower Blade Guides—Lower blade guides have safe, accurate, remote control micrometer adjustment. Lower guides support blade to within $\frac{3}{4}$ " of table work surface—assure accurate cutting.



Special Table Stop—Adjustable sleeve provides positive stop for table at level position. Can be removed for a 10° tilt. Table tilts full 45° to the right.



Specially Designed Table—Side take-out slot for blade permits use of solid front trunnion (not split for blade removal) located directly under work load. Rip fence guide rails need not be removed when changing blades.



(Left) **Exact Tension Blade Scale**—Direct reading scale on blade tension adjustment shows correct tension for different blade widths. Scale readings are not affected by variable blade lengths.

(Right) **Exclusive "Locked-In" Table Insert Cannot Rotate** because there is a slot in the insert which meshes with a pin in the table. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.

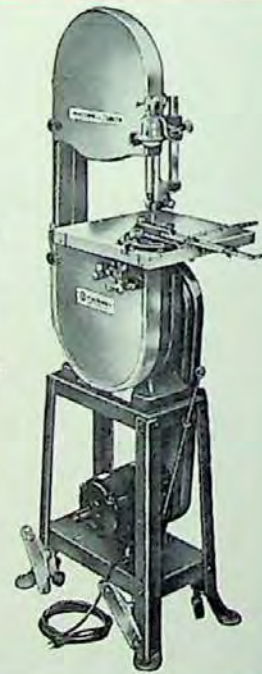
DELTA QUALITY EXTRAS

- Double-sealed, lubricated-for-life ball bearings for upper and lower wheels and blade supports insure many years of trouble-free performance.
- Upper and lower wheels are completely guarded. All portions of blade are enclosed and guarded except portion actually cutting material.
- Rugged 14x14" table has a $\frac{3}{8}$ x $\frac{3}{4}$ " miter gage groove. Machined for rip fence. Widely spaced double trunnions and heavy ribbing provide rigid support for work.
- Guides are finest type ever offered. Each adjusts independently of the other, also adjusts with micrometer accuracy. Guide pins can be set to blade teeth without disturbing the setting of the blade supports; blade supports can be set without altering adjustment of guide pins. Ball bearing blade supports are reversible and double-sealed.
- Magnesium wheels are carefully balanced for true running, also rimmed for proper mounting of tire.



14" Wood Cutting Band Saw Shown on Totally Enclosed Steel Stand with Accessory Rip Fence, Lamp Attachment, Retractable Casters and Electricals.

14" Wood Cutting Band Saw Shown on Open Steel Stand with Accessory Sliding Jig, Lamp Attachment, Retractable Casters and Electricals.



The low-cost Rockwell Delta 14" Wood Cutting Band Saw is well suited for the school shop, cabinet shop, furniture factory, pattern shop, sign and display shop, maintenance department and many other installations. It's ideal for contour cutting, straight cutting or resawing (especially with the No. 894 Height Attachment) of a wide variety of materials.

Economical in price, it comes equipped with a standard blade for wood cutting. When desired, the machine can be used with skip tooth blades for cutting wood, plastic, building materials, bakelite, non-ferrous metals such as aluminum and copper, and similar stock.

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA 14" WOOD CUTTING BAND SAW

STANDARD EQUIPMENT

Basic Machine Without Stand: includes wheel and blade guards, 6" arbor pulley, 49-173 V-belt, 49-033 motor pulley ($\frac{5}{8}$ " bore), blade guides and No. 1034 wood cutting blade.

MACHINE DATA

Overall Dimensions:

Height (on Stand) 65 $\frac{1}{2}$ "
 Width 25"
 Front to Rear 17 $\frac{1}{2}$ "

Capacities:

Blade to Frame 13 $\frac{3}{4}$ "
 Under Guide and Wheel 6 $\frac{1}{4}$ "
 Under Guide and Wheel (with 894 Height Attachment) 12 $\frac{1}{4}$ "

Speeds (with 1725 RPM

Motor) 3000 FPM

Table:

Size 14 x 14"
 Groove $\frac{3}{8}$ " Deep by $\frac{3}{4}$ " Wide
 Tilt to Right 45°; to Left 10°
 Height from Floor 42 $\frac{3}{4}$ "

Blade:

Width: Maximum $\frac{3}{4}$ "
 Length: Maximum 94"
 Minimum 91 $\frac{1}{2}$ "; Standard 93 $\frac{1}{2}$ "
 Length (with 894 Height Attachment):
 Maximum 106"
 Minimum 103 $\frac{1}{2}$ "; Standard 105"

CATALOG LISTING

No. 28-200 Basic Machine Without Stand: 14" Wood Cutting Band Saw

with wheel and blade guards, 6" arbor pulley, 49-173 V-belt, 49-033 motor pulley (with $\frac{5}{8}$ " bore), blade guides and 1034 wood cutting blade. Without stand, motor or switch. 145 lbs.

No. 28-285 Machine With Totally Enclosed Steel Stand and Belt Guard: Same as 28-200 except with 50-122 totally enclosed steel stand and belt guard. Without motor or switch. 190 lbs.

No. 28-297 Machine With Open Steel Stand: Same as 28-200 except with 50-891 open steel stand and 883 belt guard. Without motor or switch rod. 180 lbs.

NOTE: Items bearing individual catalog numbers, as included in 28-200, 28-285 and 28-297, can be ordered separately; see price list.

TOTALLY ENCLOSED STEEL STAND WITH BELT GUARD, MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Totally Enclosed Steel Stands With Electricals Can Be Ordered Either With Or Without the Basic No. 28-200 14" Band Saw.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, ½ Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	81	49-963
	Push Button Switch and Magnetic Starter	TEFC	60-1725	115/230	94	49-964
	Push Button Switch Only	TEFC	60-1725	230/460	83	49-969
Three Phase, ½ Horsepower	Push Button and Overload Switches	TEFC	60-1725	230/460	86	49-970
	Push Button Switch with Magnetic Starter	TEFC	60-1725	230/460	95	49-971
	Push Button Switch and Magnetic Starter (w/115 V Transformer)	TEFC	60-1725	230/460	98	49-972

NOTE: Single phase electricals will be wired for 115V, unless 230V is specified. Three phase electricals will be wired for 230V, unless 208V or 460V is specified. Power cord and plug supplied for single phase only.

Motors and motor controls for Rockwell Delta 14" Band Saws may be ordered unmounted. For listing, see Sections P and Q.

DELTA QUALITY ACCESSORIES THAT ENABLE YOU TO DO MORE ON THE 14" WOOD CUTTING BAND SAW

No. 883 Guard for V-belt (recommended for use with 50-891 stand). 9 lbs.

No. 41-032 Motor Pulley, 2 $\frac{3}{4}$ " dia., $\frac{1}{2}$ " bore. $\frac{1}{2}$ lb.

No. 41-033 Motor Pulley, 2 $\frac{3}{4}$ " dia., $\frac{5}{8}$ " bore. $\frac{1}{2}$ lb.

No. 41-034 Motor Pulley, 2 $\frac{3}{4}$ " dia., $\frac{3}{4}$ " bore. $\frac{1}{2}$ lb.

No. 49-173 V-belt, 57 $\frac{1}{8}$ " O.C. Used with 50-891 stand. $\frac{1}{2}$ lb.

No. 50-122 Totally Enclosed Steel Stand. Includes 50-139 basic stand, 50-136 motor plate and 50-135 belt guard. 54 lbs.

No. 50-891 Open Steel Stand, 24" high with top 8 x 16". 25 lbs.



No. 882 Lamp Attachment—Uses standard 15 or 25-watt bulb (not included). Includes mounting bracket, shade, socket and 115V 8-foot cord with plug. $\frac{1}{2}$ lbs.

Height Attachment—Increases capacity of 14" Band Saw from 6 $\frac{1}{4}$ " to 12 $\frac{1}{4}$ " under the guide. Add at any time. Needs 105" blades.



No. 894 Height Attachment with cast block, dowels and bolt, extension front blade guard, wood back blade guard. 15 lbs.

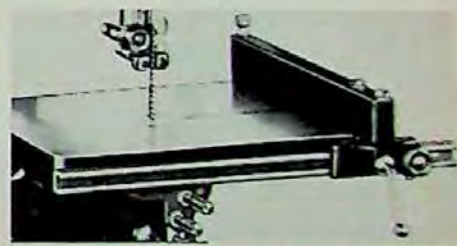


No. 28-810 Sanding Attachment—Includes flat and curved platens with guides and mounting brackets. 1 lb.



No. 28-836 Sanding Belt—Garnet type, five, No. 80 grit, fine, $\frac{1}{2}$ " wide, 91" long. 1 lb.

No. 28-837 Sanding Belt—Garnet type, five, No. 40 grit, medium, $\frac{1}{2}$ " wide, 91" long. 1 lb.



No. 28-843 Rip Fence—With 18" guide bars and mounting screws. 8 lbs.

No. 28-845 Rip Fence—With 32" guide bars and mounting screws. 10 lbs.

RETRACTABLE CASTER SETS

Make your Rockwell Delta Band Saws mobile and increase their usefulness to your operation.

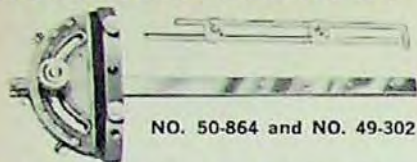
With Delta Retractable Casters on your machines, you can easily wheel them about your plant or shop—right to the job site. 13 lbs.



No. 49-363 Retractable Caster Set—For 50-891 open steel stand.

No. 50-111 Retractable Caster Set—For 50-122 totally enclosed steel stand. Has built-in leveling screws. 13 lbs.

ROCKWELL DELTA 14" WOOD CUTTING BAND SAW



NO. 50-864 and NO. 49-302

No. 50-864 Sliding Jig—For straight and angle cut-off work. Has $\frac{3}{8}$ x $\frac{3}{4}$ x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 49-302 Stop Rods—For 50-864 Sliding Jig. $\frac{5}{16}$ " diameter, with two clamps and two screws. $\frac{1}{2}$ lb.

No. 865 Clamp Attachment for Sliding Jig—With clamp bar, two sliding clamp screws, and front and rear posts. 2 $\frac{1}{4}$ lbs.

No. 873 Extra Clamp Screw and Block—For Clamp Attachment. 1 lb.

Butt Welder for Band Saw Blades—For welding your own blades from economical coiled stock, repairing broken blades or re-welding band saw blades in connection with special internal cutting operations. Handles wood, metal and skip tooth blades up to $\frac{1}{2}$ " wide. Incorporates a built-in grinder for finishing welds, a push button control for uniform welding and annealing of blades and a convenient carrying handle. 53 lbs.



No. 28-463 Butt Welder, 115V, 50/60 cy, single phase, $\frac{1}{2}$ " capacity. Includes grinder with guard, carrying handle, brackets for bench mounting and 6-foot grounding cord with 3-prong parallel blade plug.

No. 28-464 Butt Welder, same as 28-463 except with 3-prong tandem blade plug.

Wood Cutting Band Saw Blades—93 $\frac{1}{2}$ " blades are standard; 105" blades used with 894 Height Attachment.

NUMBER (93 $\frac{1}{2}$ " LONG)	NUMBER (105" LONG)	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
1032	1045	$\frac{1}{8}$ "	$\frac{1}{4}$ "	6
1033	1046	$\frac{3}{16}$ "	$\frac{1}{2}$ "	6
1034	1047	$\frac{1}{4}$ "	$\frac{3}{4}$ "	6
1036	1048	$\frac{3}{8}$ "	1"	5
1038	1050	$\frac{1}{2}$ "	1 $\frac{1}{4}$ "	5
1040	1052	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	4

Skip Tooth Band Saw Blades—For cutting aluminum, magnesium, plastics and all kinds of wood. All blades are 93 $\frac{1}{2}$ " long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-884	$\frac{1}{4}$ "	$\frac{3}{4}$ "	6
28-885	$\frac{3}{8}$ "	1"	4
28-886	$\frac{1}{2}$ "	1 $\frac{1}{4}$ "	4
28-887	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	4

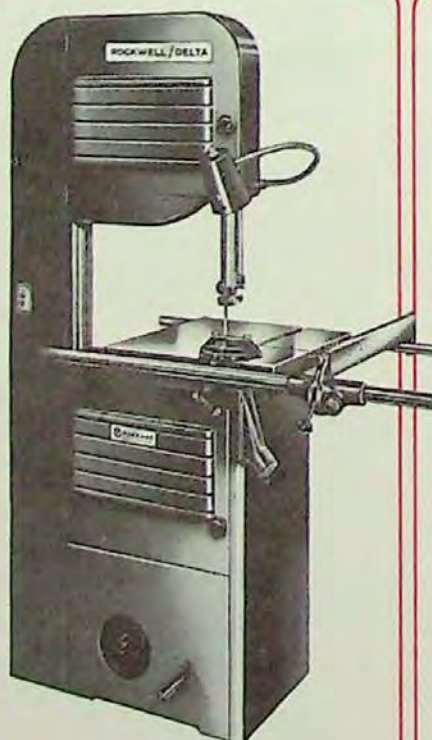
SEE THE COMPLETE ROCKWELL DELTA QUALITY BAND SAW LINE TODAY!



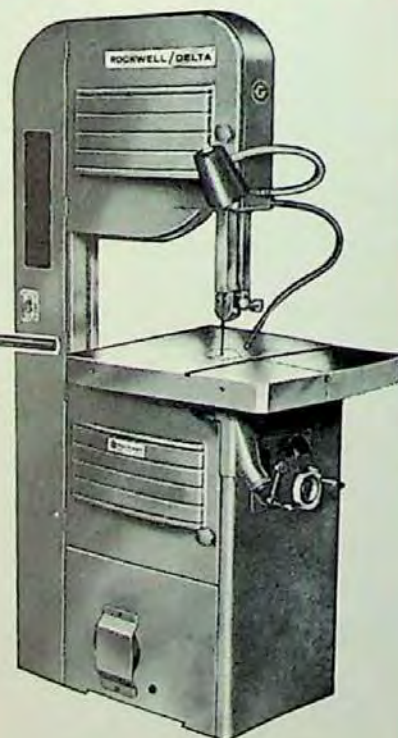
ROCKWELL DELTA
14" WOOD CUTTING
BAND SAW



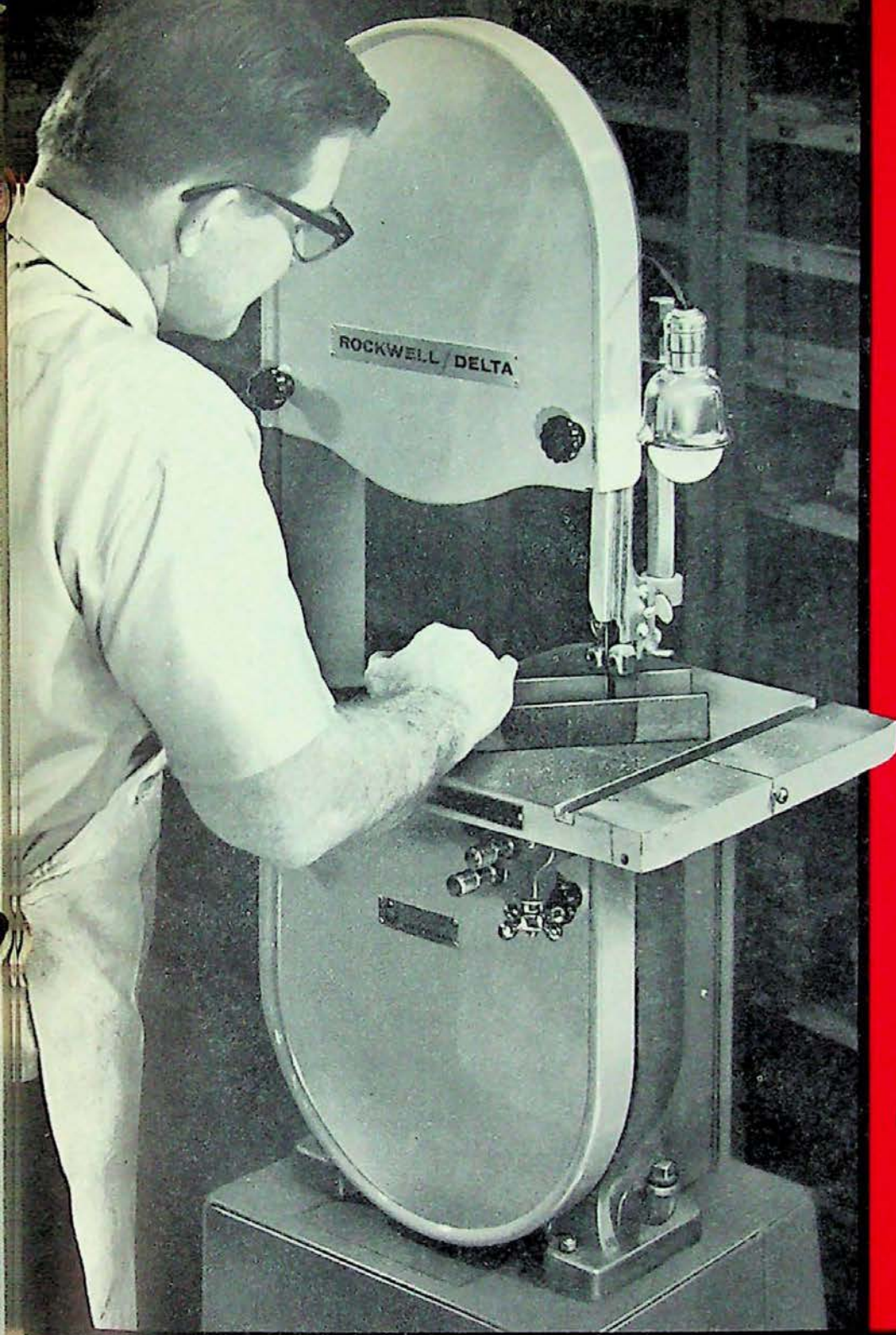
ROCKWELL DELTA
14" METAL CUTTING
BAND SAW



ROCKWELL DELTA
20" WOOD CUTTING
BAND SAW



ROCKWELL DELTA
20" METAL CUTTING
BAND SAW



ROCKWELL DELTA

14"

Metal Cutting

**BAND
SAW**

**The Standard
of the Industry!**

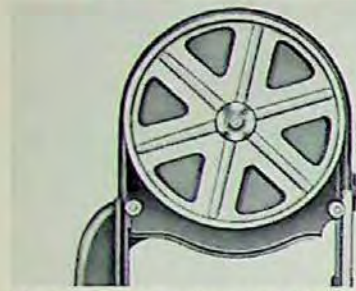
OFFERS ALMOST UNLIMITED VERSATILITY TO CUT ANY SAWABLE MATERIAL!

Here's a saw that will cut everything from stainless steel, armor plate, high speed steel, cast iron, to wood and plastic. That's why it meets the needs of *all* users—industry, building trades, commercial and school shops. *Typical Delta Quality Features include:*

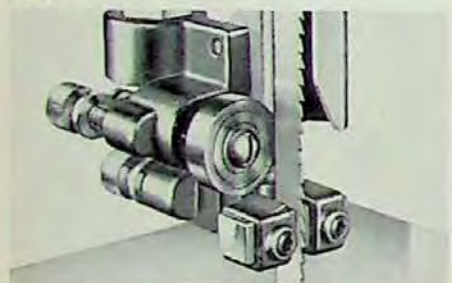
- Big 6¼" capacity ... 12¼" with height attachment.
- Correct cutting speeds—40, 60, 85, 115, 160, 220 and 335 FPM for metal and 3000 FPM for wood.
- Double sealed, lubricated-for-life ball bearing construction throughout.
- Extra safe, independently adjustable blade guides that adjust with micrometer accuracy.
- Multi-purpose table that tilts 45° right and 10° left.
- Plus preferred push button control switch, totally enclosed motor and attractive color styling.

ROCKWELL DELTA 14" METAL CUTTING BAND SAW

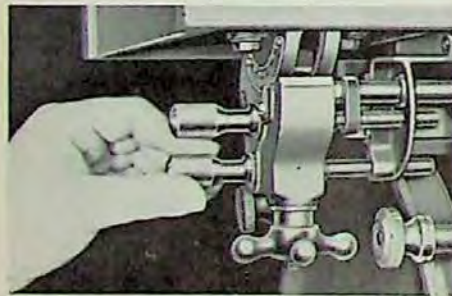
**DELTA QUALITY FEATURES
THAT OTHERS
HAVE IMITATED
BUT NOT EQUALLED!**



Modernly Constructed Wheels—Light weight magnesium wheels are precision balanced with rims fully machined concentric with the shaft hole, for smooth running. Recess in rim eliminates use of messy cement—makes tire changing easy.



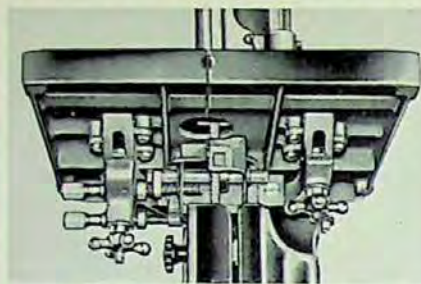
Safe, Accurate Upper Blade Guides—Upper guide has separate, safe, remote control micrometer adjustments for ball bearing blade support and blade guide blocks. Guides and blade supports adjust independently.



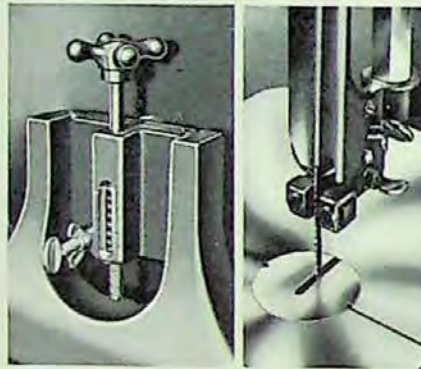
Up-Front, Precision Lower Blade Guides—Lower blade guides have safe, accurate, remote control micrometer adjustment. Lower guides support blade to within $\frac{3}{4}$ " of table work surface—assure accurate cutting.



Special Table Stop—Adjustable sleeve provides positive stop for table at level position. Can be removed for a 10° left tilt. Table tilts full 45° to right.



Superior Table Features—Side take-out slot for blade permits use of solid front trunnion (not split for blade removal) located directly under work load. Rip fence guide rails need not be removed when changing blades.



(Left) **Exact Tension Blade Scale**—Direct reading scale on blade tension adjustment shows correct tension for different blade widths. Scale readings are not affected by variable blade lengths.

(Right) **Exclusive "Locked-In" Table Insert Cannot Rotate** because there is a slot in the insert which meshes with a pin in the table. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.

DELTA QUALITY EXTRAS

- Double-sealed, lubricated-for-life ball bearings for upper and lower wheels and blade supports and all shafts of back gear unit insure many years of trouble-free performance.
- Upper and lower wheels completely guarded. All portions of blade enclosed and guarded except portion actually cutting material.
- Rugged 14x14" table has a $\frac{3}{8}$ x $\frac{3}{4}$ " miter gage groove. Machined for rip fence. Widely spaced double trunnions and heavy ribbing provide rigid support for work.
- Guides are finest type ever offered. Each adjusts independently of the other, also adjusts with micrometer accuracy. Guide pins can be set to blade teeth without disturbing the setting of the blade supports; blade supports can be set without altering adjustment of guide pins. Ball bearing blade supports are reversible and double-sealed.
- Magnesium wheels are carefully balanced for true running, also rimmed for proper mounting of tire.



14" Metal Cutting Band Saw
Shown on Totally Enclosed Steel Stand with Accessory Sliding Jig, Lamp Attachment, Retractable Casters and Electricals.



14" Metal Cutting Band Saw
Shown on Open Steel Stand with Accessory Sliding Jig, Stop Rods, Lamp Attachment, Retractable Casters and Electricals.

The Rockwell Delta 14" Metal Cutting Band Saw gives you eight cutting speeds—40 to 3000 FPM—using a standard motor. This means that you get the lowest band saw speed in the industry—40 FPM. You get a choice of any of these eight speeds—40, 60, 85, 115, 160, 220 or 335 FPM for metal cutting and a high speed of 3000 FPM for wood cutting. You can cut stainless steel, armor plate, high speed steel, alloy steel, cast iron, transite and such other materials as woods and plastics.

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA 14" METAL CUTTING BAND SAW

The Rockwell Delta 14" Metal Cutting Band Saw incorporates a modern drive. A special feature of this drive is the unique, multiple dog clutch that permits instant changes from direct to gear drive (or vice versa) by a simple shift of a knob. V-belts are not disturbed.

In direct drive, the bull gear "free wheels" on a large, double-row ball bearing without any wear or power loss through the gear train. In gear drive, powerful torque is transmitted to the lower wheel by a 55 to 1 reduction ratio.

Six ball bearings on the gear shafts; a double-row ball bearing in the bull gear; a massive, heat treated, alloy steel lower wheel shaft, plus an oil bath that lubricates all gears, assure smooth, efficient power transmission even under heavy operating loads.

A VERSATILE SAW FOR ALL SHOPS

You can use this low-cost unit to handle both wood and metal cutting jobs in school shops, tool rooms, foundries and all shops that have the problem of cutting a wide variety of materials.

MACHINE DATA

Overall Dimensions:

Height (on Stand) 65½"
Width 25"
Front to Rear 17½"

Capacities:

Blade to Frame 13¾"
Under Guide and Wheel 6¼"
Under Guide and Wheel (with 894 Height Attachment) 12¼"

Speeds (with 1725 RPM Motor) ... 40, 60, 85, 115, 160, 220, 335, 3000 FPM

Table:

Size 14 x 14"
Groove ⅜" Deep by ¾" Wide
Tilt to Right ... 45°; to Left ... 10°
Height from Floor 42¾"

Blade:

Width: Maximum ¾"
Length: Maximum 94"
Minimum . . . 91½"; Standard . . . 93½"
Length (with 894 Height Attachment):
Maximum 106"
Minimum . . . 103½"; Standard . . . 105"

STANDARD EQUIPMENT

Basic Machine Without Stand: includes wheel and blade guards, 7" arbor pulley for wood cutting, No. 41-724 4-step arbor pulley (¾" bore) for metal cutting, ⅜" to ⅝" and ¾" to ½" reducing bushings for ¾" bore 4-step motor

pulley, 49-111 (set of 2) matched V-belts, 41-714 motor pulley (¾" bore), blade guides and No. 1062 metal cutting blade.

CATALOG LISTING

No. 28-300 Basic Machine Without Stand: 14" Metal Cutting Band Saw with wheel and blade guards, 7" arbor pulley for wood cutting, 41-724 4-step arbor pulley, (with ¾" bore), for metal cutting, ⅜" to ⅝" and ¾" to ½" reducing bushings for motor pulley, 49-111 (set of two) matched V-belts, 41-714 4-step motor pulley (with ¾" bore), blade guides and 1062 metal cutting blade. Without stand, motor or switch. 172 lbs.

No. 28-390 Machine With Totally Enclosed Steel Stand and Belt Guard: Same as 28-300 except with 50-122 totally enclosed steel stand and belt guard. Without motor or switch. 217 lbs.

No. 28-387 Machine With Open Steel Stand: Same as 28-300 except with 50-891 open steel stand and 883 belt guard. Without motor or switch rod. 207 lbs.

NOTE: Items bearing individual catalog numbers as included in 28-300, 28-390, 28-387, can be ordered separately; see price list.

TOTALLY ENCLOSED STEEL STAND WITH BELT GUARD, MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Totally Enclosed Steel Stands With Electricals Can Be Ordered Either With Or Without the Basic No. 28-300 14" Band Saw.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, ½ Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	81	49-963
	Push Button Switch and Magnetic Starter	TEFC	60-1725	115/230	94	49-964
Three Phase, ½ Horsepower	Push Button Switch Only	TEFC	60-1725	230/460	83	49-969
	Push Button and Overload Switches	TEFC	60-1725	230/460	86	49-970
	Push Button Switch with Magnetic Starter	TEFC	60-1725	230/460	95	49-971
	Push Button Switch and Magnetic Starter (w/115 V Transformer)	TEFC	60-1725	230/460	98	49-972

NOTE: Single phase electricals will be wired for 115V, unless 230V is specified. Three phase electricals will be wired for 230V, unless 208V or 460V is specified. Power cord and plug supplied for single phase only.

Motors and motor controls for Rockwell Delta 14" Band Saws may be ordered unmounted. For listing, see Sections P and Q.

DELTA QUALITY ACCESSORIES THAT ENABLE YOU TO DO MORE ON THE 14" METAL CUTTING BAND SAW

No. 883 Guard for V-belt (recommended for use with 50-891 stand). 9 lbs.

No. 41-712 Motor Pulley, 4-step, ½" bore. 1½ lbs.

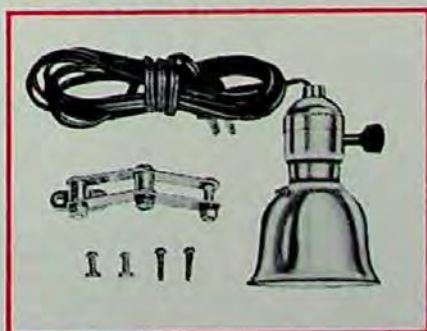
No. 41-713 Motor Pulley, 4-step, ⅝" bore. 1½ lbs.

No. 41-714 Motor Pulley, 4-step, ¾" bore. 1½ lbs.

No. 49-111 V-belts, matched set of two, 41" and 58½" O.C. Used with 50-122 and 50-891 stands. 1 lb.

No. 50-122 Totally Enclosed Steel Stand. Includes 50-139 basic stand, 50-136 motor plate and 50-135 belt guard. 54 lbs.

No. 50-891 Open Steel Stand, 24" high with top 8 x 16". 25 lbs.

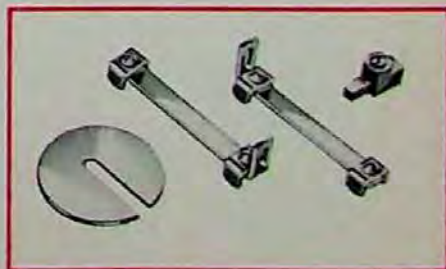


No. 882 Lamp Attachment—Uses standard 15 or 25-watt bulb (not included). Includes mounting bracket, shade, socket and 115V 8-foot cord with plug. 1½ lbs.

Height Attachment—Increases capacity of 14" Band Saw from 6¼" to 12¼" under the guide. Add at any time. Needs 105" blades.



No. 894 Height Attachment with cast block, dowels and bolt, extension front blade guard, wood back blade guard. 15 lbs.



No. 28-810 Sanding Attachment—Includes flat and curved platens with guides and mounting brackets. 1 lb.

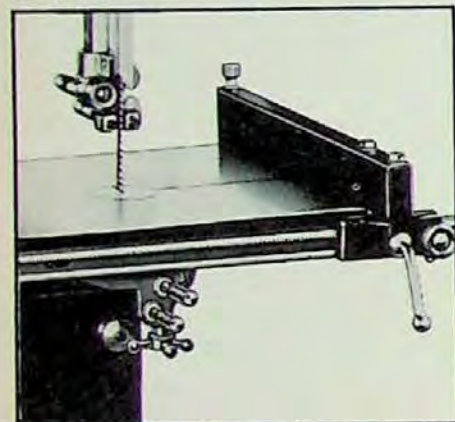
ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA 14" METAL CUTTING BAND SAW



No. 28-836 Sanding Belt—Garnet type, five, No. 80 grit, fine, 1/2" wide, 91" long, 1 lb.

No. 28-837 Sanding Belt—Garnet type, five, No. 40 grit, medium, 1/2" wide, 91" long, 1 lb.



No. 28-843 Rip Fence—With 18" guide bars and mounting screws, 8 lbs.

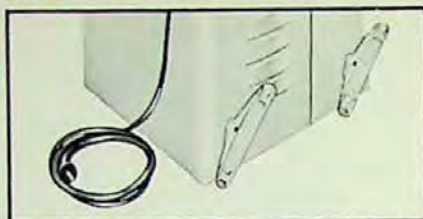
No. 28-845 Rip Fence—With 32" guide bars and mounting screws, 10 lbs.

RETRACTABLE CASTER SETS

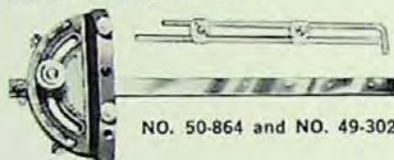
Make your Rockwell Delta Industrial Machines mobile and increase their usefulness to your operation.

With Delta Retractable Casters on your machines, you can easily wheel them about your plant or shop—right to the job site, 13 lbs.

No. 49-363 Retractable Caster Set—For 50-891 open steel stand.



No. 50-111 Retractable Caster Set—For 50-122 totally enclosed steel stand. Has built-in leveling screws, 13 lbs.



NO. 50-864 and NO. 49-302

No. 50-864 Sliding Jig—For straight and angle cut-off work. Has 3/8" x 3/4" x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions, 4 lbs.

No. 49-302 Stop Rods—For 50-864 Sliding Jig, 5/16" diameter, with two clamps and two screws, 1/2 lb.

No. 865 Clamp Attachment for Sliding Jig—With clamp bar, two sliding clamp screws, and front and rear posts, 2 1/4 lbs.

No. 873 Extra Clamp Screw and Block—For Clamp Attachment, 1 lb.

Butt Welder for Band Saw Blades—For welding your own blades from economical coiled stock, repairing broken blades or re-welding band saw blades in connection with special internal cutting operations. Handles wood, metal and skip tooth blades up to 1/2" wide. Incorporates a built-in grinder for finishing welds, a push button control for uniform welding and annealing of blades and a convenient carrying handle, 53 lbs.



No. 28-463 Butt Welder, 115V, 50/60 cy, single phase, 1/2" capacity. Includes grinder with guard, carrying handle, brackets for bench mounting and 6-foot grounding cord with 3-prong parallel blade plug.

No. 28-464 Butt Welder, same as 28-463 except with 3-prong tandem blade plug.

Metal Cutting Band Saw Blades—These are regular set, hard-edge, flexible-back standard blades for cutting all metals. All blades are 93 1/2" long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
1058	1/2"	2 1/2"	10
1060	1/2"	2 1/2"	14
1062	1/2"	2 1/2"	18
1064	1/2"	2 1/2"	24

Wood Cutting Band Saw Blades—93 1/2" blades are standard; 105" blades used with 894 Height Attachment.

NUMBER (93 1/2" LONG)	NUMBER (105" LONG)	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
1032	1045	1/8"	1/4"	6
1033	1046	3/16"	1/2"	6
1034	1047	1/4"	3/4"	6
1036	1048	3/8"	1"	5
1038	1050	1/2"	1 1/4"	5
1040	1052	3/4"	1 3/4"	4

Skip Tooth Band Saw Blades—For cutting aluminum, magnesium, plastics and all kinds of wood. All blades are 93 1/2" long.

NUMBER	WIDTH	MIN. CUT. RAD.	TEETH PER IN.
28-884	1/4"	3/4"	6
28-885	3/8"	1"	4
28-886	1/2"	1 1/4"	4
28-887	3/4"	1 3/4"	4

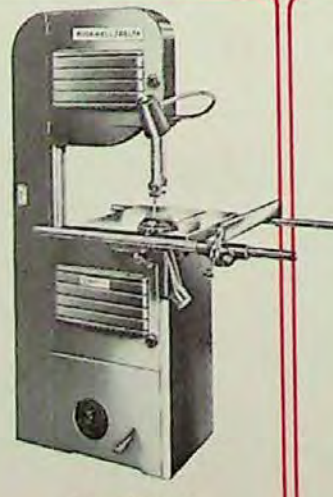
SEE THE COMPLETE ROCKWELL DELTA QUALITY BAND SAW LINE TODAY!



ROCKWELL DELTA
14" WOOD CUTTING
BAND SAW



ROCKWELL DELTA
14" METAL
CUTTING BAND SAW



ROCKWELL DELTA
20" WOOD CUTTING
BAND SAW

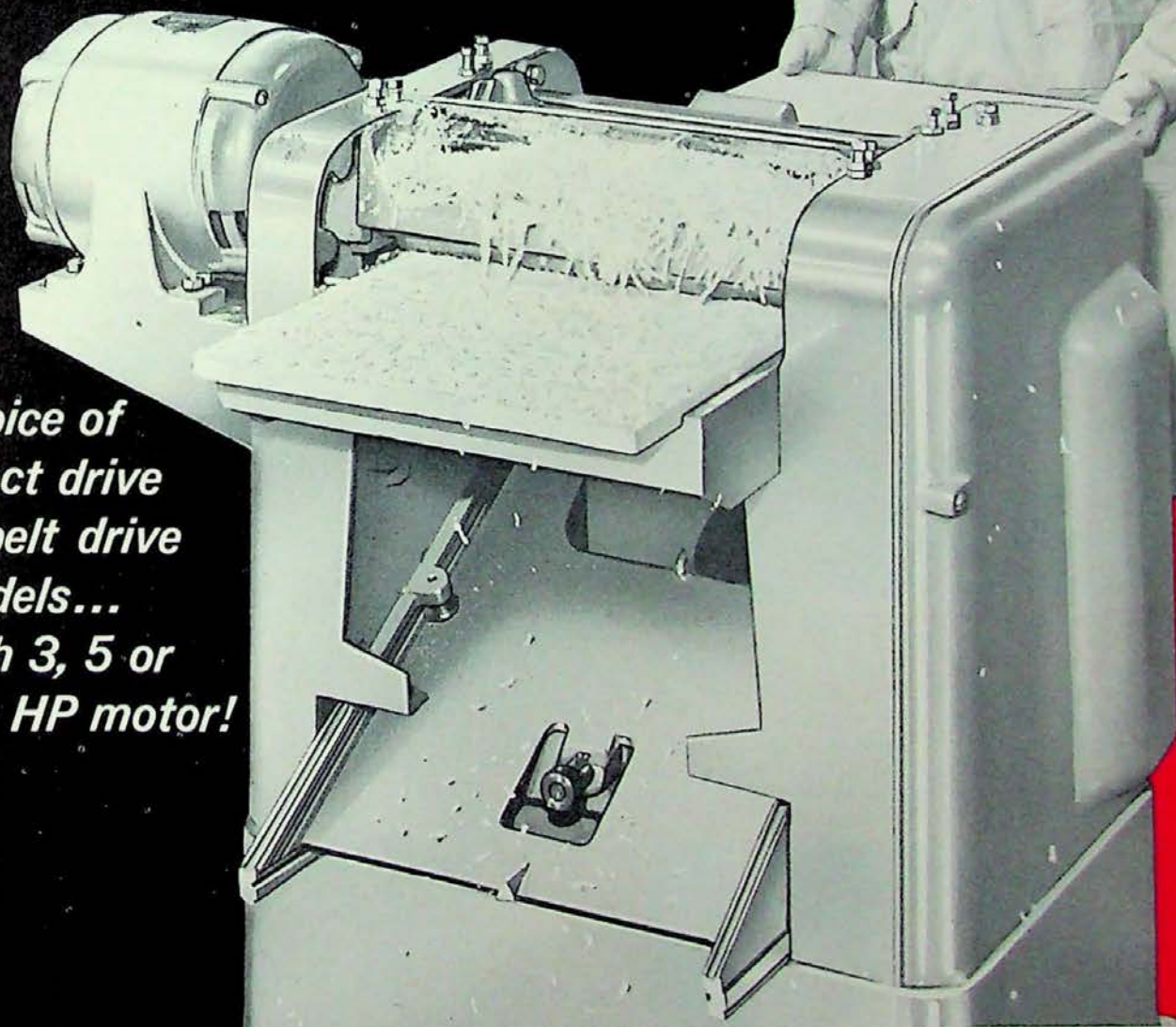


ROCKWELL DELTA
20" METAL
CUTTING BAND SAW

*NOW! An economical 18" Planer
with wedge bed construction...
separate feed and cutterhead drive systems...
positive worm gear feed drive...
and other preferred features usually available
only in much higher priced planers!*

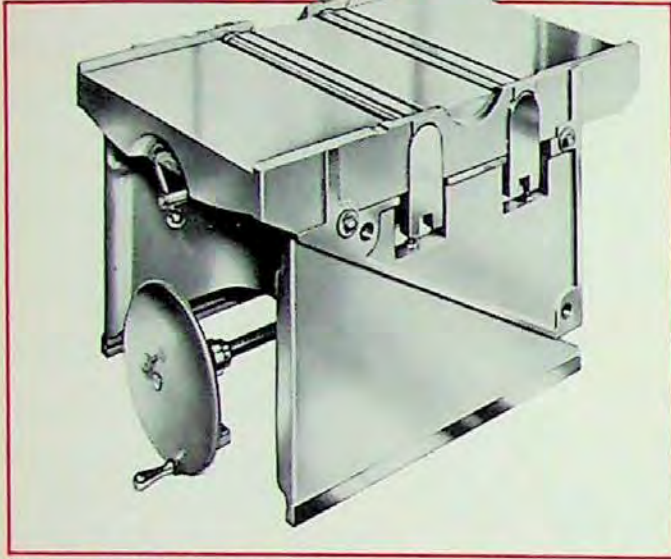
ROCKWELL DELTA **18" x 6" PLANER**

*Choice of
direct drive
or belt drive
models...
with 3, 5 or
7½ HP motor!*

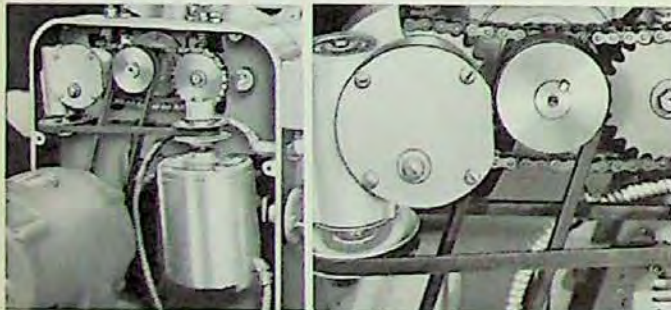


ROCKWELL DELTA 18" x 6" PLANER

**DELTA QUALITY FEATURES
THAT MAKE THE 18" PLANER
AN OUTSTANDING VALUE!**



Wedge Bed Construction—assures precision accuracy and ease of adjustment with greater work support than conventional raising screws. Inclined ways direct the even rise and fall of the bed. seldom require adjustment. Cutting loads are supported by a large area of solid metal which actually serves as a compression member. Up to now, wedge bed construction has usually been found only on larger, high production surfacers.



(Left) Simplified, Separate Feed and Cutterhead Drive Systems—this modern, preferred type of construction means that maximum horsepower is delivered to the feed rolls, without "robbing" power from the cutterhead. You get top efficiency, keep maintenance and downtime to a minimum.

(Right) Completely Sealed Worm Gear Drive—delivers tremendous horsepower to the feed rolls. This unique feed system operates in a sealed oil bath, totally shielded from dirt or foreign matter.



Quick Setting, Positive Control Locks—assure safe, accurate control at all times. Just a twist of the wrist is needed to lock the controls at the desired setting.



Redi-Set, Fast Bed Roll Adjustment—an accessory that allows you to raise or lower the bed rolls in an instant for rough or finish surfacing. Bothersome, time consuming adjustments under the bed are eliminated.



(Left) Instant Acting Magnetic Controls—furnished as standard equipment on all machines. Magnetic controls interlock the separate feed drive and cutterhead motors, enabling the operator to stop both in seconds.

(Right) Variable Speed Cutting Feed—enables you to select any feed range between 15 and 36 feet per minute. You can adjust the feed of the machine to suit the type of stock you're planing and get maximum efficiency at all times.



Safe Depth of Cut—limited to $\frac{1}{4}$ ", eliminates any possibility of overloading the machine when finishing hard, extra wide stock.

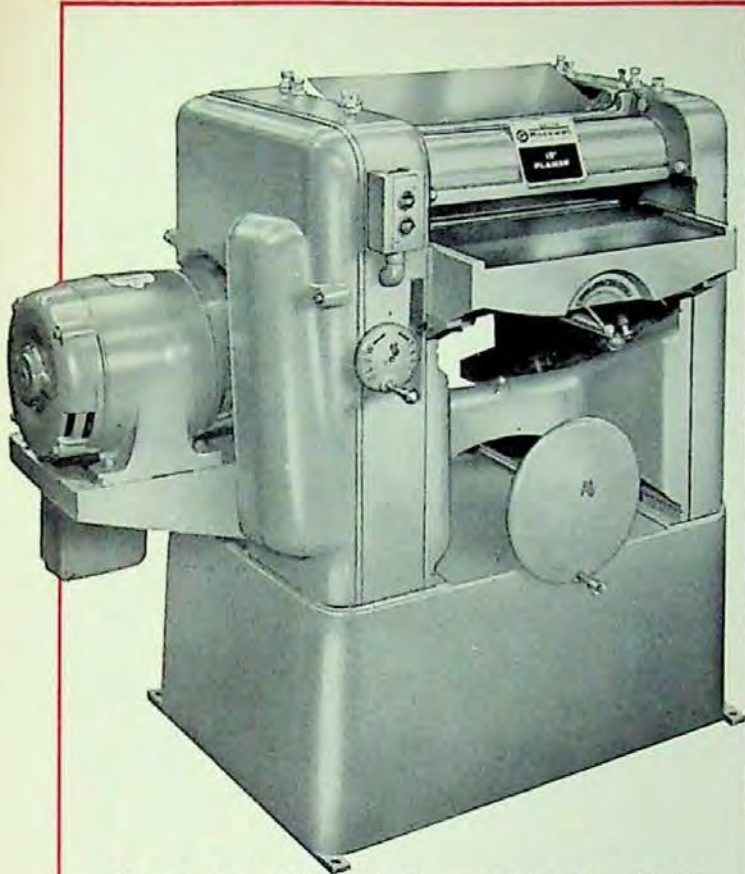
DELTA QUALITY EXTRAS

Lubricated-For-Life Sealed Ball Bearing Construction Throughout—even the bed rolls of the massive one piece bed are mounted on lubricated-for-life, sealed ball bearings that stand up longer under pressure and require no troublesome grease cups or fillings.

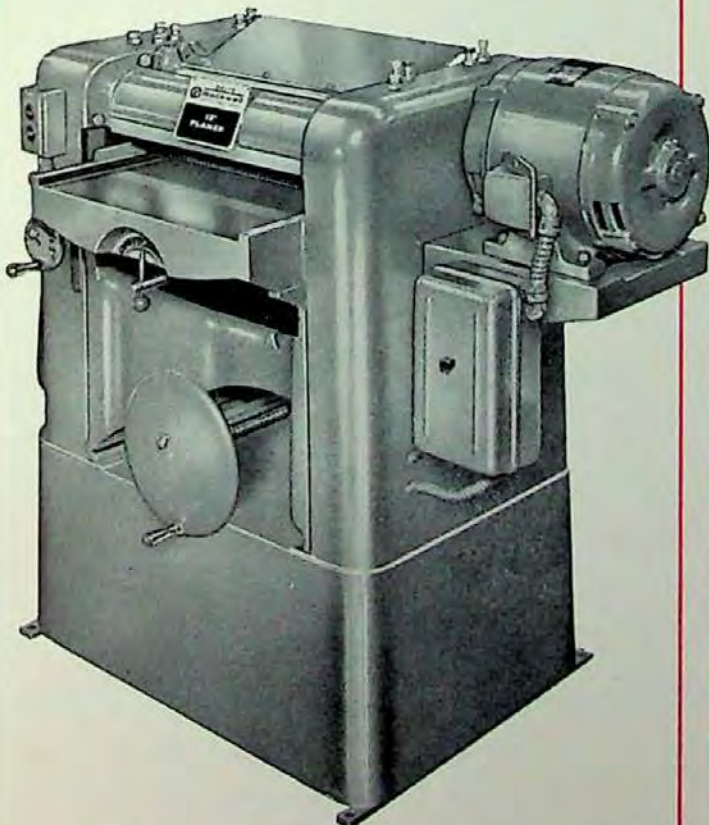
Rugged Construction—built to last... the 18" Planer will withstand the heaviest of cutting loads with no tension strain.

Knife Grinding and Jointing Attachment—an accessory extra that allows you to grind a completely new bevel on the knives *without* removing the cutterhead from the planer.

ROCKWELL DELTA 18" x 6" PLANER



No. 22-212 18" x 6" Planer. Belt Drive Model Shown with 5 HP Motor and Accessory 22-803 Redi-Set Adjustable Bed Roll Attachment.



No. 22-207 18" x 6" Planer. Direct Drive Model Shown with 5 HP Motor and Accessory 22-803 Redi-Set Adjustable Bed Roll Attachment.

Choice of Belt Drive or Direct Drive Models

The many fine features of this heavy-duty production type planer make it especially suited for use in lumber yards and mills, furniture factories, also as an excellent training unit for vocational and trade schools.

Here's why! Separate motors drive the cutterhead and the feed, eliminating a troublesome clutch. A single "up-front" electrical control stops all moving parts almost instantly with the touch of a finger. Wedge-bed construction provides greater work support and increased accuracy. Redi-set easy bed roll adjustment (accessory) makes it convenient and easy to work with all grades of lumber. You get all these high-planer-cost features and many more with the husky Delta 18" Planer.

See it demonstrated and prove to yourself why it truly is the outstanding planer value in its class!

MACHINE DATA

- Motors 3, 5 and 7½ HP
- Capacity:
 - Width of stock 18" Maximum
 - Thickness of stock: Maximum 6"; Minimum 1/8"
 - Depth of cut 1/4" Maximum
 - Minimum length 8" Unbutted
- Rate of Feed:
 - Linear feet per minute 15 to 36 Variable
 - Inches of stock cut per minute Variable
 - Cuts per minute 10, 350
- Cutterhead:
 - Type 3 Knife
 - Diameter 3 1/4"
 - Diameter of cutting circle 3 1/2"
 - Knives: (3) High Speed Steel 5/32" x 1 1/8" x 18 1/8"
 - Speed 3600 RPM (Direct and Belt Drive Models)
- Feed Rollers:
 - Drive Separate 1/3 HP Motor
 - In-feed rollers 2 1/4" Diameter, Solid Serrated
 - Out-feed rollers 2 1/4" Diameter, Smooth
 - Speed (RPM) Variable
- Bed Rollers 2 1/4" Diameter, 8" C.C.
- Bed Dimensions 20" x 30"
- Table Raising Mechanism Wedge Bed
- Thickness Scale 0" to 6"
- Overall Dimensions:
 - Depth 32"; Width 31 1/2"; Height 41"
 - Floor Space 21 1/4" x 31 1/2"
- Approximate Shipping Weight with Motor 1200 lbs.

STANDARD EQUIPMENT

Basic Machine includes set of three cutterhead knives, separate feed motor, feed motor pulley and V-belt. Drive motor, belts, cutterhead pulley, motor pulley, coupling and electrical controls must be ordered separately.

CATALOG LISTING

Basic Machine. Includes No. 22-800 set of 3 cutterhead knives, separate feed motor, feed motor pulley and V-belt, but less drive motor, drive belts, cutterhead pulley, motor pulley, coupling and electrical controls. 1030 lbs.

Belt Drive Model No.	Direct Drive Model No.	Voltage and Phase (Feed Motor Only)
22-203	22-201	Single Phase, 230 Volts
22-223	22-224	Three Phase, 230/460 Volts
22-216	22-215	Three Phase, 575 Volts

Continued on next page

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 18" x 6" PLANER

CATALOG LISTING—Continued

CONVENIENT ALL-INCLUSIVE NUMBERS

18" Planer Complete. Includes drive motor, drive belts and pulleys or coupling. Completely wired with magnetic electrical controls, ready to run. Specify voltage.

FOR SINGLE PHASE OPERATION

Belt Drive Model No.	Direct Drive Model No.	Drive Motor HP and Voltage	Weight Lbs.
22-210	22-205	3 HP, 230 Volts	1180
22-212	22-207	5 HP, 230 Volts	1210

FOR THREE PHASE OPERATION

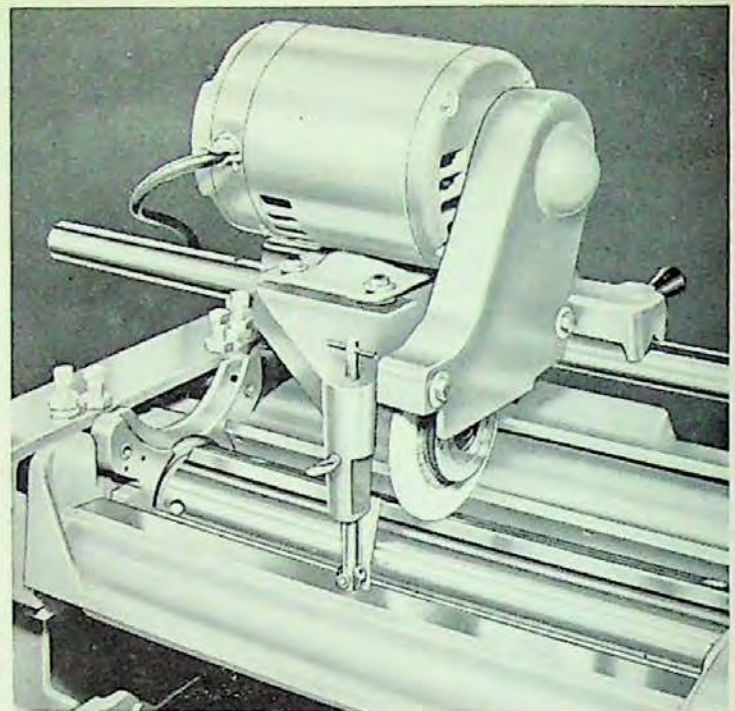
Belt Drive Model No.	Direct Drive Model No.	Drive Motor HP and Voltage	Weight Lbs.
22-225	22-226	3 HP, 230/460 volts	1180
22-220	22-217	3 HP, 575 volts	1180
22-227	22-228	5 HP, 230/460 volts	1210
22-221	22-218	5 HP, 575 volts	1210
22-229	22-230	7½ HP, 230/460 volts	1220
22-222	22-219	7½ HP, 575 volts	1220

DELTA QUALITY ACCESSORIES

- No. 41-515 Two-Groove Motor Pulley, 7/8" bore.
- No. 41-517 Two-Groove Pulley for motor or cutterhead, 1 1/8" bore.
- No. 41-607 Three-Groove Pulley for motor or cutterhead, 1 1/8" bore.
- No. 49-112 Set of Two V-belts, 35 1/2" O.C., for cutterhead drive.
- No. 49-114 Set of Three V-belts, 35 1/2" O.C., for cutterhead drive.
- NOTE:** Three belts required for 7 1/2 HP drive motor.
- No. 49-149 V-belt, 33" O.C., for feed drive.
- No. 22-810 Motor Coupling, 7/8" x 1 1/8" bore.
- No. 22-811 Motor Coupling, 1 1/8" x 1 1/8" bore.
- No. 22-812 Variable Speed Pulley for feed drive.
- No. 22-800 Set of 3 knives. 5 lbs.



No. 22-801
Shaving Hood
with
6" diameter
opening.
11 lbs.



No. 22-802 Knife Grinding and Jointing Attachment. Complete with 1/3 HP, 115/230 V, 60 cycle single phase motor. Includes 115 V 8-foot cord with 3-prong grounding type plug. Allows you to grind new bevel edges on the planer knives without removing the cutterhead from the planer. 58 lbs.

No. 22-803 Redi-Set Adjustable Bed Roll Attachment.

No. 22-804 Redi-Set Adjustable Bed Roll Attachment, same as 22-803 but price includes installation at factory when ordered as new equipment on new planers. 13 lbs.

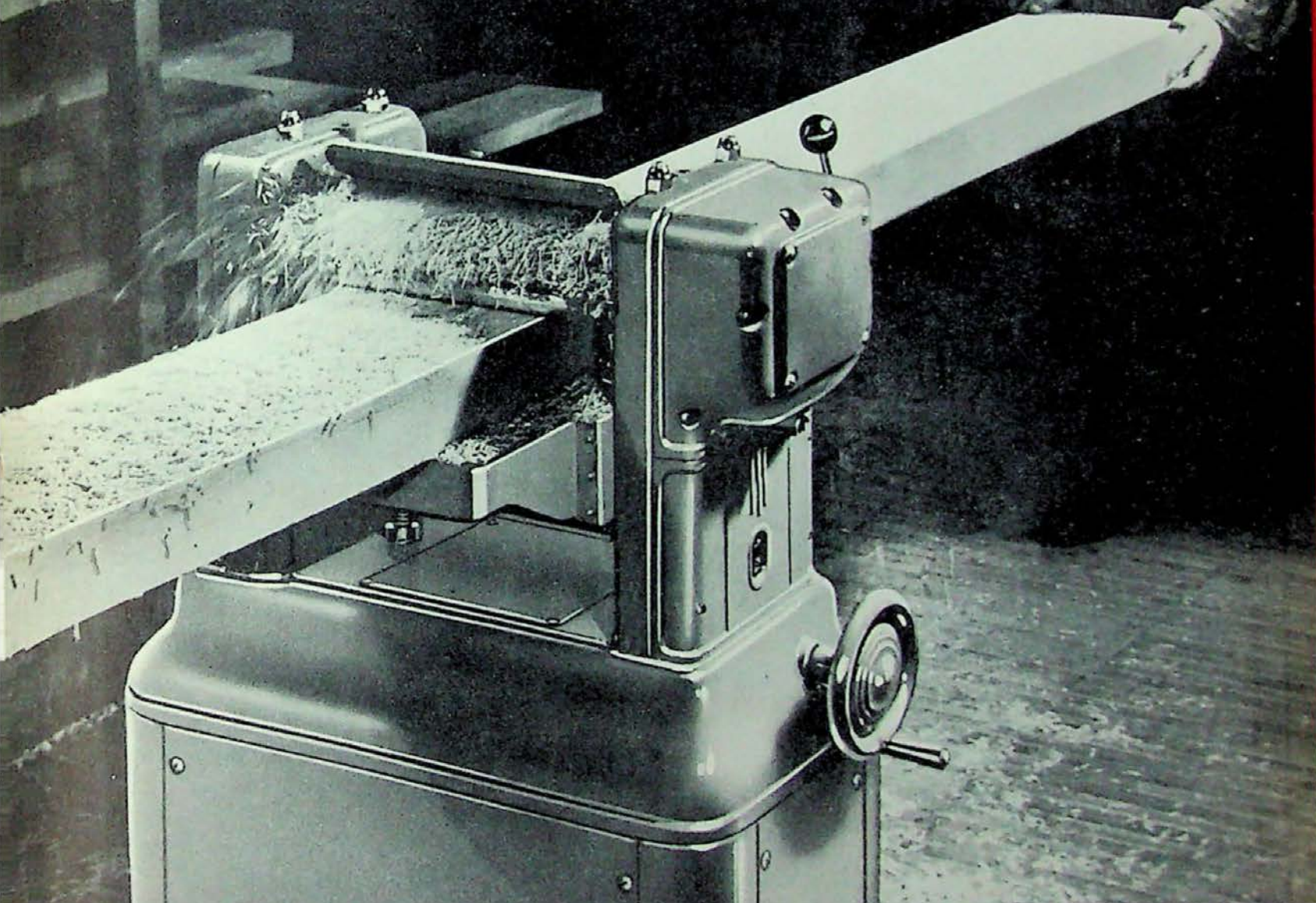


ROCKWELL DELTA INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shutdowns and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

ROCKWELL DELTA 13" x 5" PLANER

... the Safest Planer Ever Built!

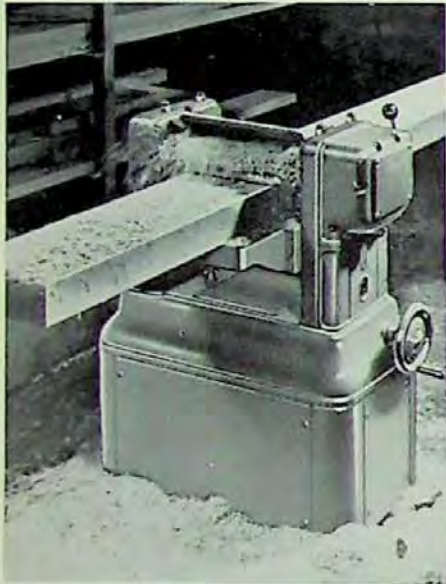


Compare These Outstanding Features:

- All moving parts are fully enclosed
- Safety Clutch permits immediate disengagement of feed mechanism
- Chip Breaker Shield provides added operator protection
- Push Button Switch assures safe on-off motor control
- Positive Table Stops fully protect user, cutterhead and knives.

ROCKWELL DELTA 13" x 5" PLANER

**DELTA
QUALITY FEATURES
FOR BIG PLANER
PERFORMANCE AT
SMALL PLANER COST!**



Big Capacity—planes stock up to 13" wide, varying in thickness from $\frac{1}{16}$ " to a full 5" . . . offers a full $\frac{1}{8}$ " depth of cut!



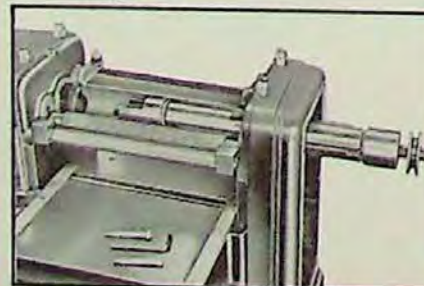
Exclusive Finger-Tip Clutch Control—allows the operator to start and stop the feed mechanism *without* stopping the machine.



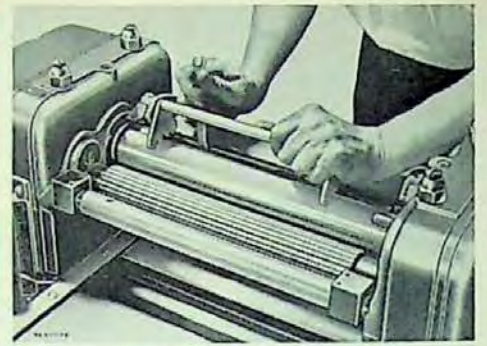
Six-Inch Minimum Planing Length—The Rockwell Delta 13" x 5" Planer handles short, unbutted material only 6" in length—makes it possible to salvage material that might otherwise be scrapped.



Automatically Lubricated Feed Drive—the entire mechanism of this powerful drive, from the continuous, anti-friction roller chain that links the out-feed and in-feed roll sprockets to the double worm reduction gear drive and drive chain, is automatically lubricated during operation through a fully enclosed oil bath system.



Cartridge-Type Cutterhead—eliminates costly shut-down time when knives become dull. You simply remove the entire cutterhead and insert a new one. Replacement cutterhead, complete with knives, bearings and bearing housings, is available as an accessory.



Exclusive Blade Adjustment Feature—special bridge-type, knife-setting gage, in combination with the built-in cutterhead knife-positioning springs, permits quick, accurate, independent adjustment of the planer knives. Uniform setting of knives assures greater cutting efficiency, longer life between sharpenings.

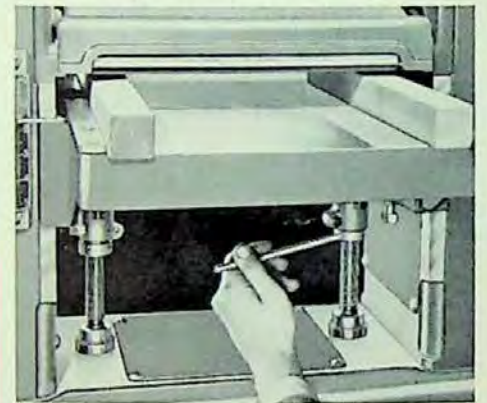


Table Alignment Controls—raising and lowering screws facilitate leveling the table parallel to the cutterhead, as needed, for continued accurate planing results. Built-in adjustable table gibs compensate for wear.

DELTA QUALITY EXTRAS

Shielded, Sealed, Lubricated-For-Life Ball Bearings—for smooth cutterhead operation, trouble-free service and longer machine life. Cutterhead knives are fully machined and balanced.

Sturdy Construction—fine gray iron castings throughout give maximum rigidity between all working parts, minimizing vibration.

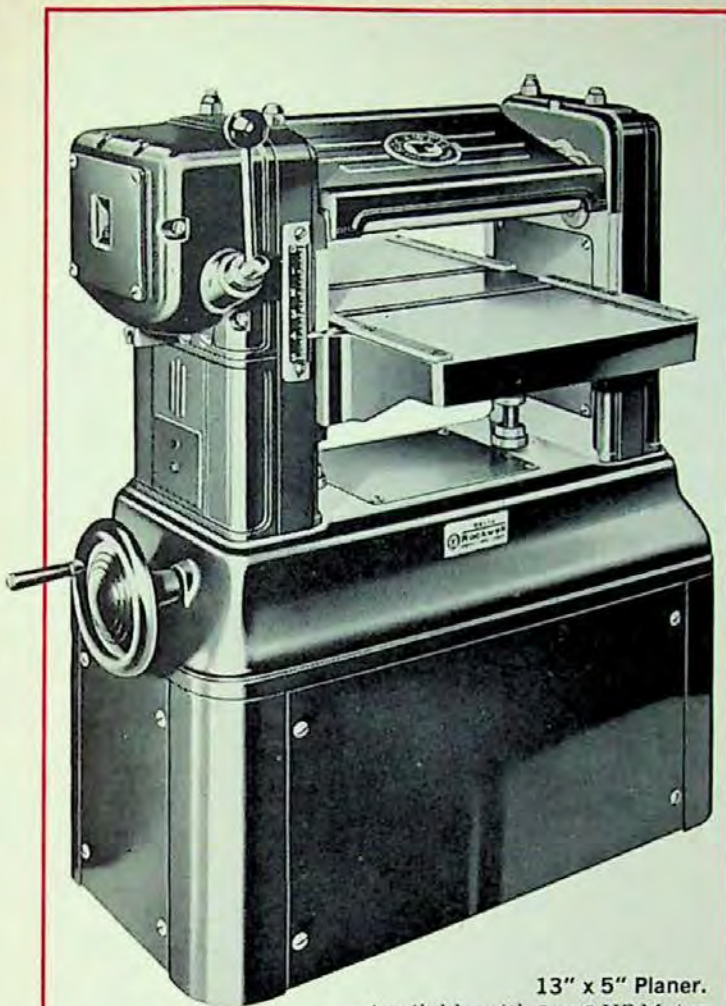
High-Speed Cutterhead—gives 12,600 cuts per minute, providing an exceptionally smooth finish on all stock.

Convenient Controls—all controls are located within easy reach of the operator. Depth scale can be conveniently read from right or left of machine. Table control is self-locking in any position and features safe, positive stops that make it impossible for table to strike the cutterhead knives.

Table Roll Adjustment Feature—permits adjustment of table rolls to correct height to facilitate surfacing slightly rough material.

Knife Grinding Attachment—an accessory extra that enables you to sharpen cutterhead knives *without* removing the cutterhead from the planer.

ROCKWELL DELTA 13" x 5" PLANER



13" x 5" Planer.
Available with 2 or 3 HP Motor
for Single or Three Phase Operation.

**Safety Designed
With You in Mind!**

The many many outstanding safety features of the Rockwell Delta 13" x 5" Planer make it especially ideal for use in school shops and commercial installations where safety is of prime importance. Rockwell's attention to safety, however, in no way affects the machine's function for dressing wood to exact parallel thickness.

This precision planer will handle stock up to 13" wide, varying in depth from 1/16" to 5". Short stock, only 6" in length, can be planed "unbutted." The high speed cutterhead gives 12,600 cuts per minute, providing an exceptionally smooth finish.

Since user requirements vary, Rockwell Delta offers you a 2 HP motor for school and general industrial applications and a 3 HP motor for heavy duty work.

Ask us for a "proof-by-performance" demonstration today!

STANDARD EQUIPMENT

Basic Machine includes ball bearing cutterhead with set of three knives, cutterhead pulley and cover plate. Motor, motor pulley, belt and electrical controls must be ordered separately.

MACHINE DATA

- Motors.....2 and 3 HP
- Capacity:
 - Width of Stock.....13" Maximum
 - Thickness of Stock: Maximum.....5"; Minimum.....1/16"
 - Depth of Cut.....1/8" Maximum
 - Minimum Length.....6", Unbutted
- Rate of Feed:
 - Linear Feet Per Minute.....14
 - Inches of Stock Cut Per Minute.....168
 - Number of Cuts Per Inch of Feed.....75
 - Number of Cuts Per Minute.....12,600
- Cutterhead:
 - Diameter.....2 3/4"
 - Diameter of Cutting Circle.....2 9/16"
 - Speed.....4200 RPM
- Feed Drive Mechanism...Fully Enclosed Within Gear Box. The positive, powerful drive consists of a continuous anti-friction roller chain, linking the solid steel sprockets of the out-feed and in-feed rolls. The drive chain is driven by a double worm gear reduction drive which in turn is driven by the cutterhead.
- Feed Rollers (Solid, Stress-Proof Steel):
 - In-Feed Rollers.....1 3/4" Diameter, Serrated
 - Out-Feed Rollers.....1 3/4" Diameter, Smooth
 - Speed.....Approximately 35 RPM
- Steel Table Rollers (Idlers).....Centered 5 1/2" Apart, 1 1/2" O.D., 7/8" I.D.
- Table Raising and Lowering Mechanism:
 - Hand Wheel Moves Table 1/16" Per Turn
- Thickness Scale.....0" to 5"
- Table Dimensions.....13" Working Width by 26"
- Overall Dimensions:
 - Width.....35"; Depth.....26"; Height.....39 3/4"
 - Floor Space.....30" x 16"
- Approximate Shipping Weight.....700 Lbs.

CATALOG LISTING

No. 22-101 Basic Machine. Includes 22-128 set of three high-speed steel knives, cutterhead pulley, knife-setting gage and table roll setting gage. Also contains cover plate and mounting studs for Manual Starters 49-800, 49-838 and 49-839. Without motor, motor pulley, V-belt and electrical controls. 600 lbs.

Motor Pulleys (3 lbs. each)

7" Diameter for 60 Cy. Operation	8 1/2" Diameter for 50 Cy. Operation	Bore
41-174	41-194	3/4"
41-175	41-195	7/8"
41-006	41-016	1"
41-177	41-197	1 1/8"

V-Belts (1/2 lb. each)

68 1/2" O.C. for 60 Cy. Operation	70 1/2" O.C. for 50 Cy. Operation
49-156	49-157

MOTORS AND CONTROLS

FOR SINGLE PHASE OPERATION

No. 93-610 Motor, 2 HP, capacitor start, 115/230 V, 60 cy. AC, 1725 rpm, 3/4" shaft. Without switch or power cord. 79 lbs.

No. 93-410 Motor, 3 HP, capacitor start, 115/230 V, 60 cy. AC, 1725 rpm. Without switch, cord and plug. 122 lbs.

No. 49-800 Starter, Manual. For AC, 2 or 3 HP Planer motor on 230 V only. Provides overload protection. Specify motor number and voltage when ordering. 5 lbs.

No. 49-664 Starter, Magnetic. For AC, 2 HP Planer motor on 230 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number and voltage when ordering. 5 lbs.

Continued on next page

ROCKWELL DELTA 13" x 5" PLANER

MOTORS AND CONTROLS—Continued

No. 49-844 Starter, Magnetic. For AC, 2 or 3 HP Planer motor on 230 V only. Provides low-voltage, no-voltage and overload protection. Does not include No. 49-842 start-stop control station. Specify motor number and voltage when ordering. 5 lbs.

No. 49-842 Magnetic Starter Control Push Button Switch Kit. Provides integral start-stop control station for 49-844 Starter. 1 lb.

No. 49-850 Cover Plate. Required for use with Magnetic Starters 49-664 and 49-844. 2 lbs.

FOR 3 PHASE OPERATION

No. 96-329 Motor, 2 HP, 230/460 V, 60 cy, AC, 1725 rpm, 3/4" shaft. Without switch or power cord. 62 lbs.

No. 96-629 Motor, 3 HP, 230/460 V, 60 cy, AC, 1725 rpm, 1 1/8" shaft. Without switch or power cord. 97 lbs.

No. 96-679 Motor, 3 HP, 230/460 V, 60 cy, AC, 1725 rpm, 1 1/8" shaft. Without switch or power cord. Totally enclosed, non-ventilated. 125 lbs.

No. 49-838 Starter, Manual. For AC, 2 HP Planer motor. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.

No. 49-839 Starter, Manual. For AC, 3 HP Planer motor. Provides overload protection. Specify motor number and voltage when ordering. 5 lbs.

No. 49-666 Starter, Magnetic. For AC, 2 or 3 HP Planer motor. Provides low-voltage, no-voltage and overload protection. Does not include No. 49-842 start-stop control station. For use with 208-230/460 V, 60 cy. Specify motor number and voltage when ordering. 6 lbs.

No. 49-842 Magnetic Starter Control Push Button Switch Kit. Provides integral start-stop control station for 49-666 Starter. 1 lb.

No. 49-850 Cover Plate. Required for use with Magnetic Starter 49-666. 2 lbs.

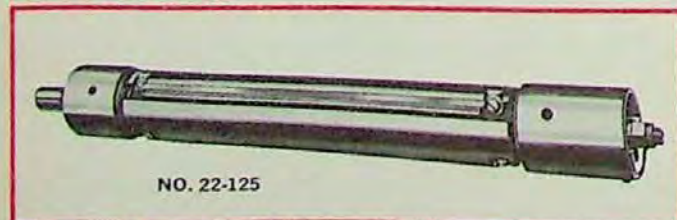
CONVENIENT ALL INCLUSIVE NUMBERS

(Motors and Controls are not factory mounted and wired, but furnished separately. For ordering convenience, select from the following All Inclusive Catalog Numbers.)

HP	Phase	Cycles and Voltage	†Electrical Control	*Catalog Number
2	1	60-115/230	Manual Starter	22-161
2	1	60-115/230	Magnetic Starter	22-181
2	3	60-230/460	Manual Starter	22-163
2	3	60-230/460	Magnetic Starter	22-183
3	1	60-115/230	Manual Starter	22-171
3	1	60-115/230	Magnetic Starter	22-191
3	3	60-230/460	Manual Starter	22-173
3	3	60-230/460	Magnetic Starter	22-193

†On-off switch and overload protection included with all controls.
*Specify voltage so that correct overload heaters are furnished.

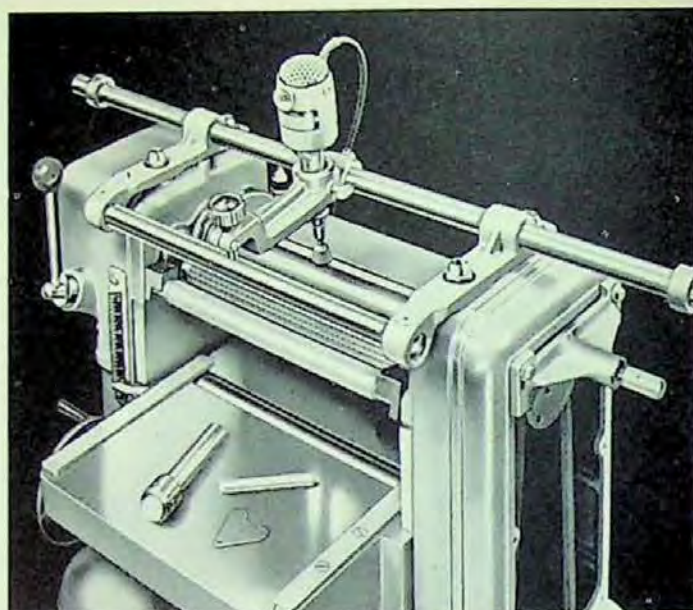
ACCESSORIES



NO. 22-125

No. 22-125 Ball Bearing, 3-Knife Cutterhead; 22-128 set of 3 spring-loaded, H.S.S. knives; bearings and bearing housings. 28 lbs.

No. 22-128 Spring-Loaded H.S.S. Knives, extra set of 3. 3 lbs.



No. 22-130 Knife Grinding and Jointing Attachment.
Shown with No. 37-816 Motor.

No. 22-130 Knife Grinding and Jointing Attachment. With guide rail and mounting parts, locking and positive index device, and jointing stone with adapter. Less motor. 26 lbs.

No. 37-816 Motor, 115 V, AC-DC, 25 to 60 cy. Includes on-and-off switch, 115 V 9 1/2-foot cord and 3-prong grounding type plug, one fine and one medium wheel and wheel dressing stone. 5 lbs.

No. 22-107 Knife Jointing Attachment (not needed if ordering 22-130). Complete with base and handles, diagonal bar, adjusting block and screw, and 1" fine jointing stone. 8 lbs.

No. 22-116 Grinding Wheels, box of 3, medium grit (#60). 1/4 lb.

No. 22-117 Grinding Wheels, box of 3, fine grit (#100). 1/4 lb.

No. 22-118 Jointing Stone. 1/4 lb.

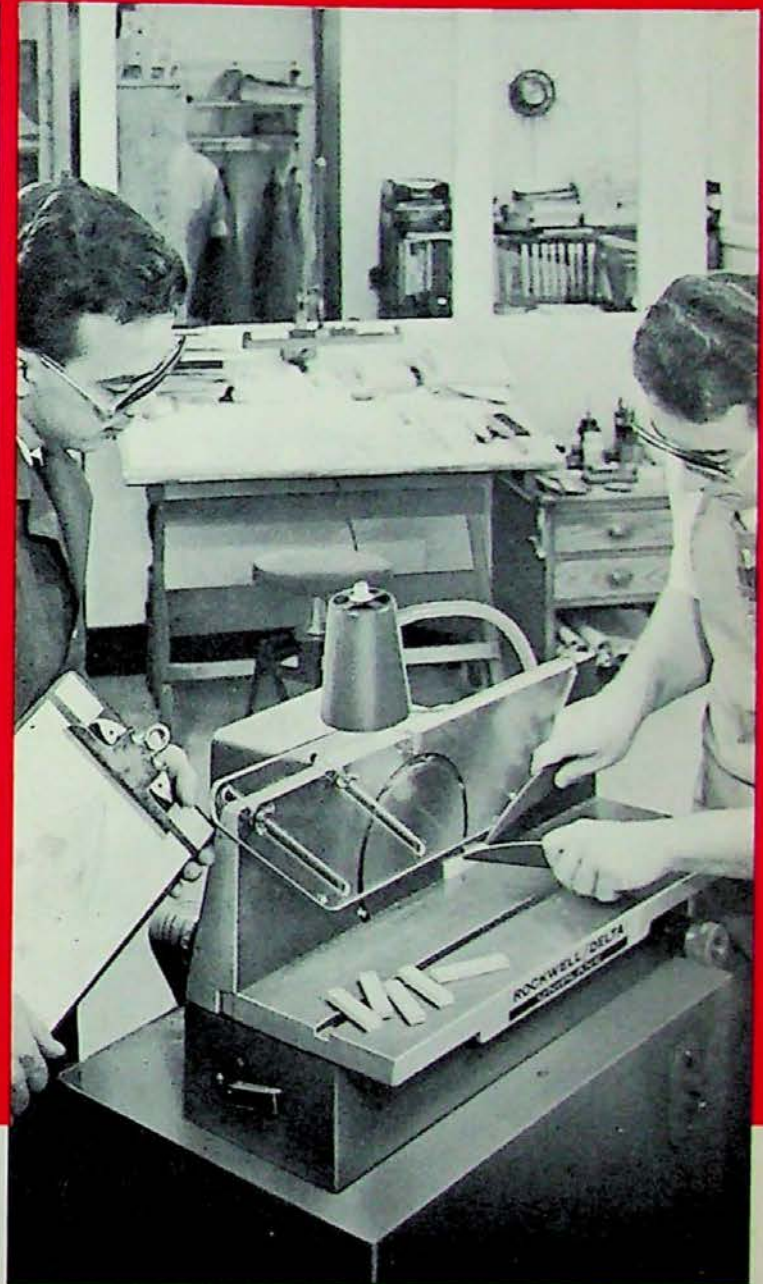


No. 22-115 Shaving Hood with 6" diameter connection to be used with suction system. 8 lbs.

No. 22-113 Lubricating Oil for gear drive, gallon can. 6 1/2 lbs.

NEW ROCKWELL DELTA UNIPLANE*

A Completely New Concept for Working Wood, Plastics, Compositions



DOES **MORE JOBS SAFER** THAN ANY OTHER MACHINE!

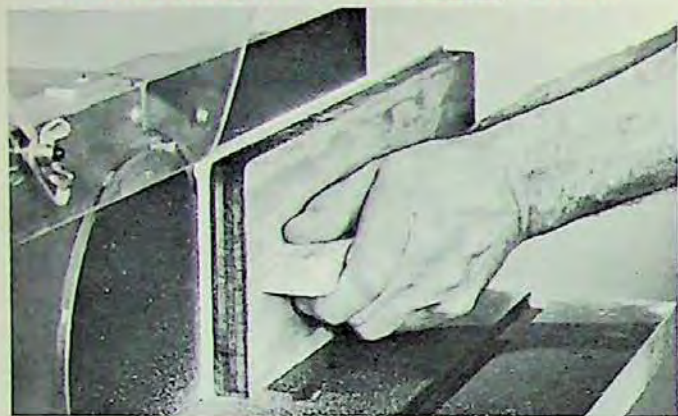
PLANING / JOINTING / BEVELING / CHAMFERING / TRIMMING / TAPERING / And Many More

*Trademark

K3

NEW ROCKWELL DELTA UNIPLANE

**DELTA QUALITY FEATURES THAT
GUARANTEE TOP UNIPLANE
PERFORMANCE FOR EVERY USER!**

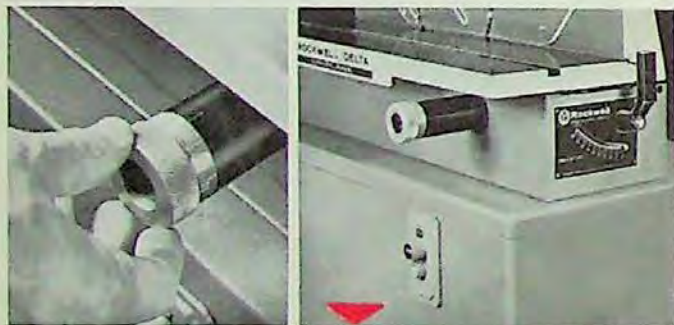


Unique, Safe Cutting Action—Exposed portion of cutters revolves in a path only three-eighths of an inch wide. This feature was specially designed into the UNIPLANE to provide maximum operator safety.

Kickback of material is eliminated due to the rotary and shearing action of the cutters.

Cutterhead has two sets of cutters—four cutters that score and four that shear the material. Note in illustration that the cutter entering the material first makes a scoring cut, while the cutter which follows makes a shearing cut. This unique cutting action produces exceptionally fine cutting results!

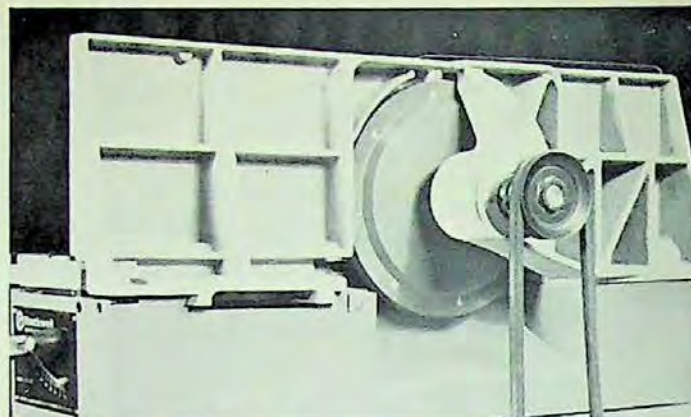
Micro-Set® Cut Control—Equipped with a precision Acme thread feed screw (machine tool type) permitting exceptionally accurate depth-of-cut settings. Large, knurled dial facilitates effortless settings. Graduated collar is calibrated in 64ths of an inch. Markings are widely spaced to permit easy reading and assure accurate adjustment.



Convenient Controls—Depth of Cut Control, placed at front of machine, is readily accessible. Large, easy-to-read graduations are in full view of operator. Convenient handles at right and left ends of machine securely lock table in position. Adjustable, easy-to-read angle scale is calibrated from 0 to 45°. Safe push button switch, located within easy reach, is equipped with a shrouded start button to prevent accidental starts and a protruding stop button for quick, emergency stops.



Preferred Dove-Tailed Ways—Infeed fence rides on precision, dove-tailed ways. Easily adjustable gibs compensate for any wear.



Massive Construction—Extra large bearing housing, which carries the arbor, bearings and cutterhead, is integrally cast with the outfeed fence to assure perfect cutting accuracy. Cast iron, scientifically ribbed fences are stress relieved to maintain accurate alignment.

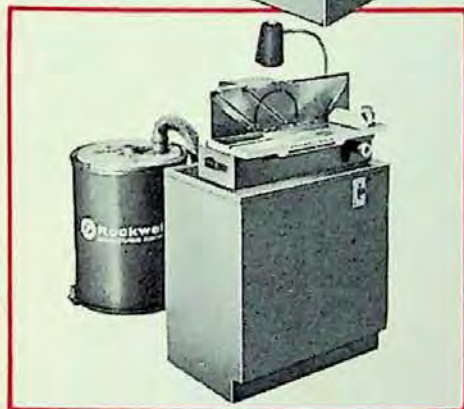
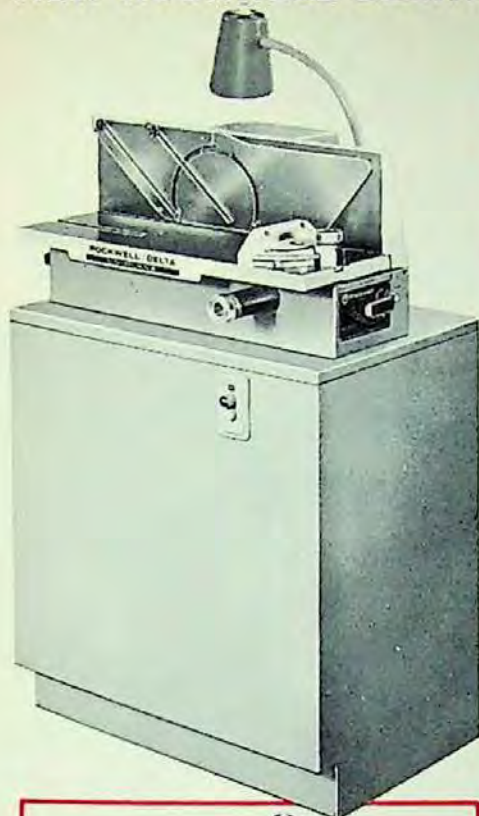


Specially Designed Cutterhead—Dynamically balanced, cast iron cutterhead provides flywheel type action for smooth cutting. Cutterhead mounts on a tapered shaft, with key, for minimum runout and utmost accuracy. Cutters, which are securely locked in place by special screws, can be easily and quickly changed. Sealed, preloaded ball bearings are lubricated for life for maintenance-free operation.



Fully Adjustable, Heavily Ribbed Table—Has positive stops at 0° and 45°. Large handles enable table to be locked securely at any angle in between. Cast iron, scientifically ribbed table is stress relieved to maintain flatness. Table tilts on two large, widely spaced trunnions for maximum support and rigidity. Built-in slot for miter gage assures perfect accuracy for trimming operations.

NEW ROCKWELL DELTA UNIPLANE



Here's a machine that offers a unique yet superior method for jointing or surfacing material up to 6" in width or thickness, or even as small as a matchstick, all with complete safety!

For example, the Rockwell Delta UNIPLANE will do all these operations safely and with unbelievable accuracy: Planing, jointing, beveling, chamfering, trimming, tapering, and many more.

Users everywhere—pattern makers, model makers, furniture manufacturers, antique repairmen, school shop instructors, plastic fabricators—agree that the Rockwell Delta UNIPLANE is the most advanced step taken in the machinery industry in more than 50 years!

Let us "Performance-Prove" its merits to you.

MACHINE DATA

Cutting Capacity:
Width6"; Depth 1/8"

Cutting Circle8" Diameter

Cutterhead:
Speed4,000 RPM; 32,000 Cuts Per Minute
Number of Cutters8
Runs on Sealed, Lubricated-for-Life Ball Bearings.

Table:
Surface—Overall .8" Wide x 26" Long
Working Height on Stand 36 1/2"
Tilts Upward to 45°
Positive Stops 0° and 45°
Miter Gage Slot 3/8" x 3/4"

Fences:
Overall Size7" High x 26" Long
WaysDove-tailed
Cut Control... Calibrated in 64ths of an Inch.

Overall Dimensions:
Height on Stand44"
Width18"; Length26"

Shipping Weight (On Stand)240 lbs.

STANDARD EQUIPMENT

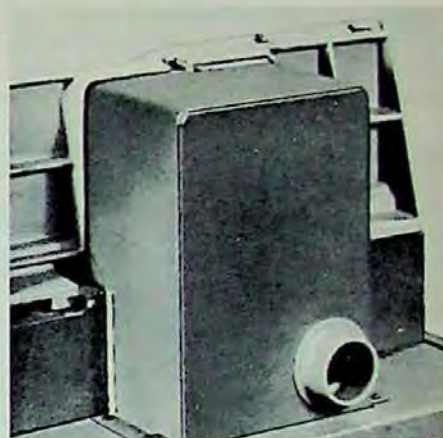
Basic Machine includes set of eight high-speed steel cutters, cutterhead guard, cutterhead pulley and precision gage for setting cutters.

CATALOG LISTING

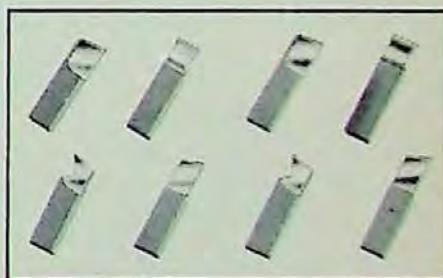
No. 22-300 Basic Machine Without Stand. UNIPLANE with set of eight high-speed steel cutters, "clear-view" cutterhead guard, cutterhead pulley and precision gage for setting cutters. Without stand, motor pulley, V-belt, motor and switch. 125 lbs.

DELTA QUALITY ACCESSORIES

No. 410 V-belt, 42 1/8" OC, for 3450 RPM motors. 1 lb.



No. 22-835 Belt and Pulley Guard. Completely encloses V-belt and motor pulley. Equipped with a 2 1/2" exhaust port for connecting to any Rockwell Vacuum Cleaner. 8 lbs.



No. 22-836 High-Speed Steel Cutters, set of eight, including four scoring and four shearing cutters, precision ground and sharpened. Sold only in sets. 2 lbs.

No. 22-837 Carbide Cutters, set of eight including four scoring and four shearing cutters, precision ground and sharpened. Sold only in sets. 2 lbs.

No. 25-857 Lamp Attachment. For 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses std. bulb (not included) up to 75 watts. 3 lbs.

TOTALLY ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley, V-belt, Belt and Pulley Guard Included.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1/4 Horsepower	Push Button Switch Only	TEFC	60-3450	115/230	115	52-051
	Push Button Switch and Magnetic Starter	TEFC	60-3450	115/230	128	52-052
	Push Button Switch Only	TEFC	60-3450	230/460	111	52-053
Three Phase, 3/4 Horsepower	Push Button and Overload Switches	TEFC	60-3450	230/460	115	52-054
	Push Button Switch and Magnetic Starter	TEFC	60-3450	230/460	124	52-055
	Push Button Switch and Magnetic Starter w/115V Transformer	TEFC	60-3450	230/460	126	52-056

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug supplied for single phase only.

Motors and motor controls for Rockwell Delta UNIPLANES may be ordered unmounted. For listing, see Sections P1 and Q1. Only Rockwell Delta Motors are recommended for the UNIPLANE due to their special starting characteristics.

NEW ROCKWELL DELTA UNIPLANE



No. 34-833 Miter Gage. Features adjustable, positive stops at most-used positions of 90° and 45°, R. and L., with accurately calibrated scale to facilitate in-between settings through 120° swing. 4 lbs.

No. 41-052 Motor Pulley, 3½" diameter, ½" bore. 1 lb.

No. 41-053 Motor Pulley, 3½" diameter, ⅝" bore. 1 lb.

No. 41-054 Motor Pulley, 3½" diameter, ¾" bore. 1 lb.



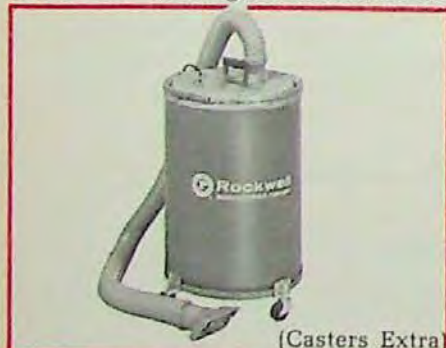
No. 49-230 90° Elbow, 2½" diameter. Attaches to 22-835 belt and pulley guard. Deflects chips downward into any container. ¼ lb.

No. 49-245 Four-Wheel Caster Set for 18 and 28-Gallon Vacuum Cleaners. 3 lbs.



(Casters Extra)

No. 49-255 All-Purpose Vacuum Cleaner, 28-gallon capacity, complete with 6 amp motor, switch and cord; filter bag, fiber collector drum; 2½" diameter x 6' hose and 3" x 6" rectangular nozzle. 20 lbs.

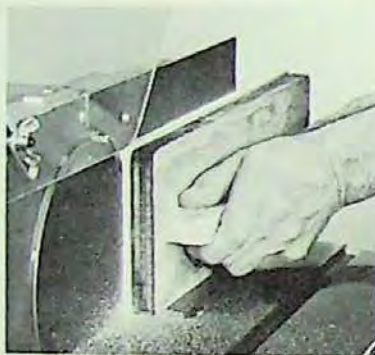


(Casters Extra)

No. 49-254 All-Purpose Vacuum Cleaner, same as 49-255, except 18-gallon capacity drum. 18 lbs.

No. 50-138 Steel Stand, enclosed type, 16" wide x 26" long x 30½" high. Completely encloses motor and electrical controls. Equipped with floor mounting holes. 75 lbs.

**The Rockwell Delta
UNIPLANE
Does More Operations Safer
Than Any Other Machine!**



PLANES THIN MATERIAL SMOOTHLY



TRIMS COMPOUND MITERS ACCURATELY



SURFACES EXTRA SMALL PIECES SAFELY



DRESSES HARD OR SOFT WOODS EASILY



CHAMFERS SMALL PIECES WITH COMPLETE SAFETY



TRIMS COMPOSITIONS EXACTLY



FINISHES PLASTICS WITH EASE



JOINTS PLYWOODS AND LAMINATES SMOOTHLY



SQUARES ENDS PERFECTLY USING MITER GAGE

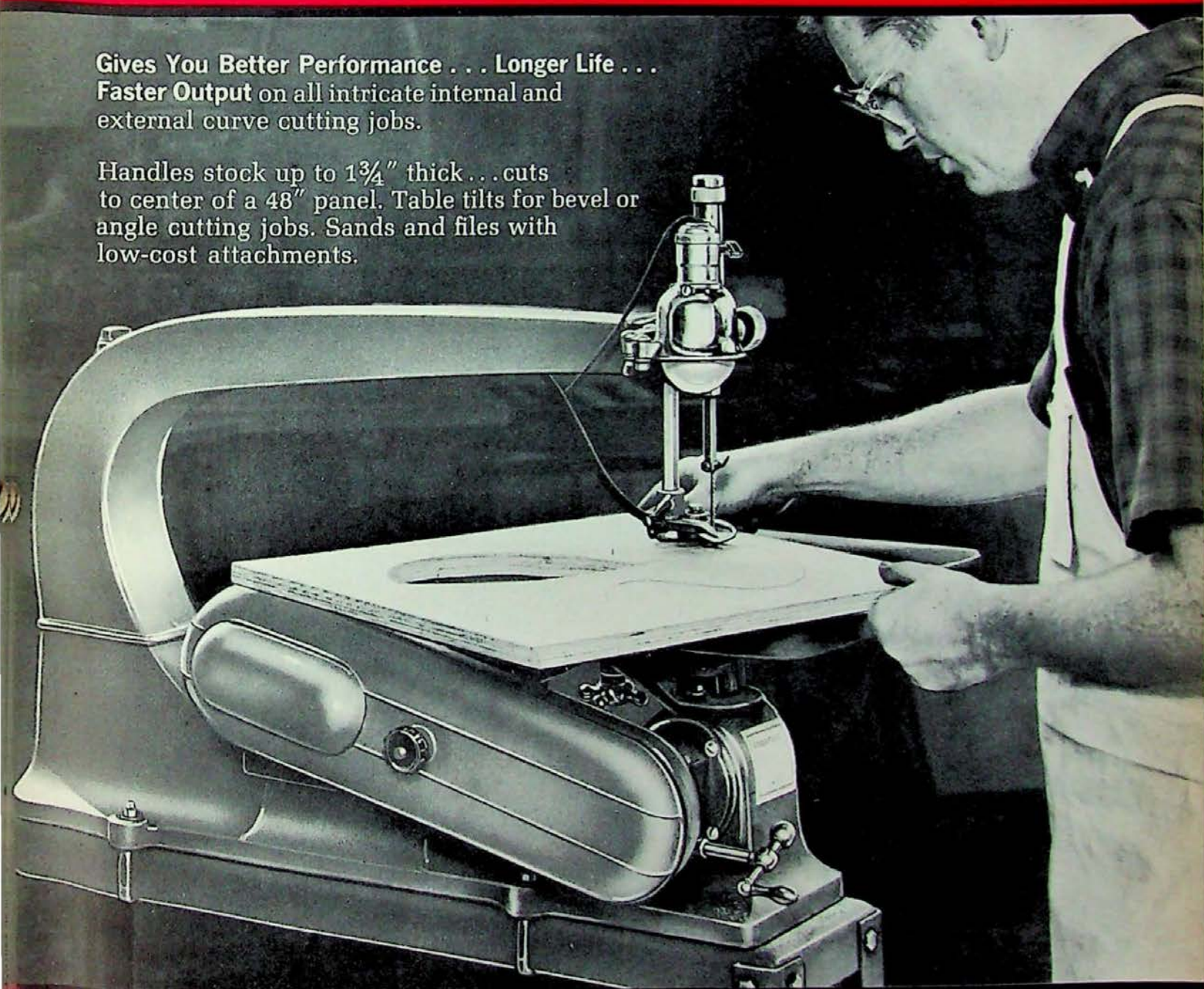
Note: Guard raised for photo clarity.

ROCKWELL DELTA 24" SCROLL SAW

First Choice In Woodworking Shops Everywhere!

**Gives You Better Performance . . . Longer Life . . .
Faster Output** on all intricate internal and
external curve cutting jobs.

Handles stock up to 1 $\frac{3}{4}$ " thick . . . cuts
to center of a 48" panel. Table tilts for bevel or
angle cutting jobs. Sands and files with
low-cost attachments.



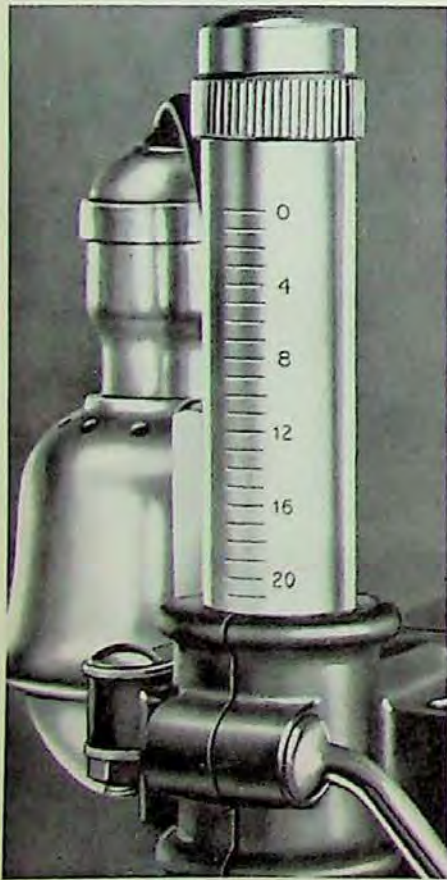
Choice of Variable-Speed or Four-Speed Models!

ROCKWELL DELTA 24" SCROLL SAW

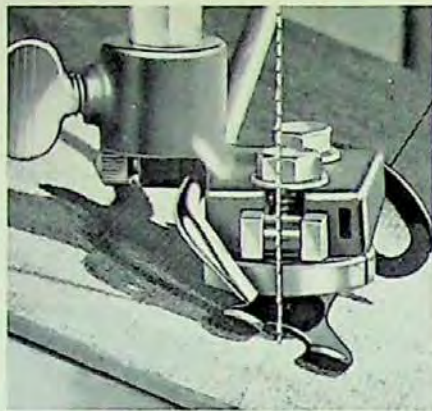
**DELTA
QUALITY FEATURES
THAT ASSURE
BETTER PERFORMANCE...
LONGER LIFE...
FASTER OUTPUT!**



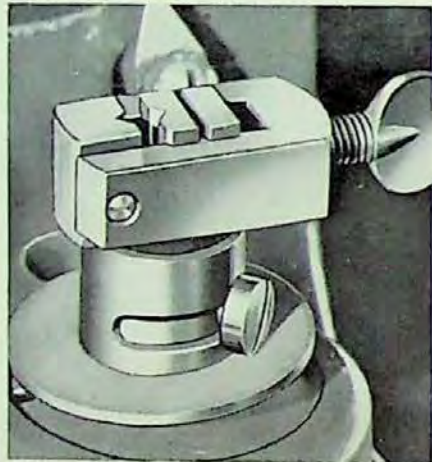
Big Capacity—Cuts stock up to 1 3/4" thick... offers full 24" arm-to-blade capacity for ripping. Converts to saber saw, with removal of overarm, for cutting materials of unlimited size.



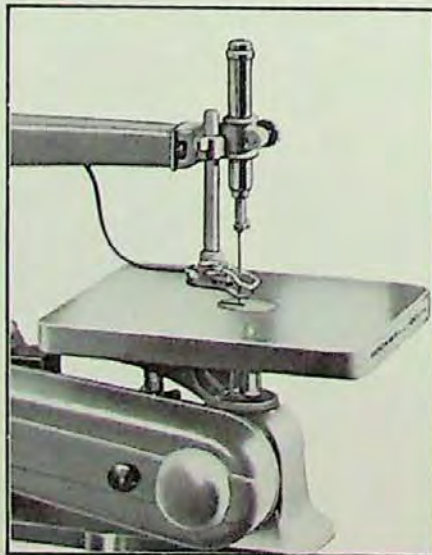
Handy Blade Tensioning Control—permits accurate adjustment of blade tension best suited for each type of blade or particular job. Assures longer blade life; minimizes blade breakage.



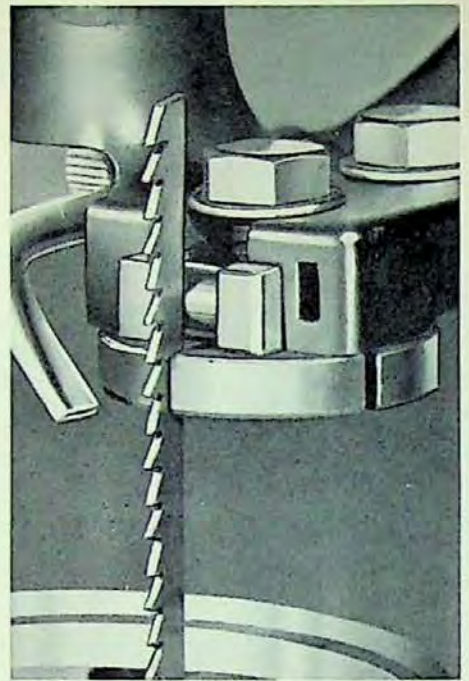
Convenient Spring Hold-Down—for added accuracy and ease of operation. Holds work firmly against the table, even on bevel cutting operations. Prevents material from lifting with up-stroke of blade.



Positive Grip Chuck—securely holds flat, blank-end saw blades, plus round shank accessories including sanding attachment and machine files. Chuck's 90° rotating feature permits an unlimited length of cut on extra long material.



Extra Large Table—measures a full 14" x 14"—provides ample support for large, bulky panels and other hard-to-handle materials. Table tilts 45° right and 15° left for standard bevel cutting; 45° front for beveling of extra long stock.



Universal Blade Guide and Roller Support—rigidly supports all types of blades, including saber blades, in true alignment for smoother, more accurate cutting.

**DELTA
QUALITY EXTRAS**

Splash-System Lubrication—automatic lubrication of the Timken bearing crankshaft assures smooth scroll saw performance. Oil level may be easily and quickly checked; re-filled as needed.

Built-In Air Blower—keeps cutting line free of nuisance dust. Operates off of shaft driven pump making air available even for saber blades.

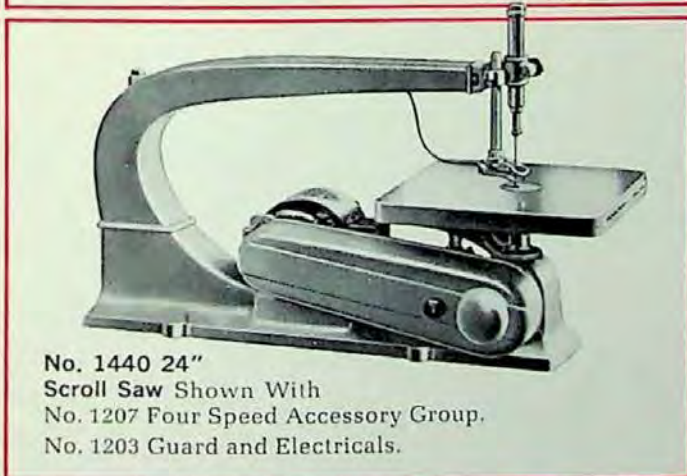
Wide Range of Speeds—permits cutting of a variety of materials—soft and hard woods, ferrous and non-ferrous metals, plastics, etc. You simply turn the up-front variable speed control handle to set the speed you need for the best possible cutting results. Four speed model offers the four most popular cutting speeds within the preferred 610 to 1725 CSM speed range.

Complete Line of Blades—Rockwell makes available more than 24 different blades in a variety of widths and profiles. There's a blade for every type of sawing job, almost any material!

ROCKWELL DELTA 24" SCROLL SAW



No. 43-311 24"
Variable Speed Scroll Saw
Shown With Accessory
No. 49-363 Retractable Casters
and No. 882 Lamp Attachment.



No. 1440 24"
Scroll Saw Shown With
No. 1207 Four Speed Accessory Group.
No. 1203 Guard and Electricals.

Rockwell Delta 24" Scroll Saws are big capacity, rugged machines that handle everything from fine, intricate work to large, bulky panels. They are first choice in school shops, cabinet shops, display shops, pattern shops . . . wherever there exists the problem of doing internal or external precision cutting of irregular shapes.

Whether you select the Rockwell Delta Four-Speed Model with speeds of 610, 910, 1255 and 1725 C.S.M., or the Variable-Speed Model with speeds from 650 to 1700 C.S.M., your Delta Scroll Saw contains all these built-in, high quality features: Timken-bearing crankshaft, automatically lubricated from splash system in crankcase . . . shaft driven blower pump which makes air available even for saber blades . . . universal tilting table that tilts 45° right -15° left for normal bevel cutting and 45° front for bevel cutting of extra long stock and more.

STANDARD EQUIPMENT

Basic Machine includes one saber blade and three scroll saw blades. Motor and controls, pulleys, V-belt and belt guard must be ordered separately.

MACHINE DATA

Capacities:

Arm to Blade 24"
Thickness of Cut 1 3/4" Maximum
Chucks Can Be Rotated for Unlimited Length of Cut.
Overarm Can Be Removed for Unlimited Cutting
Capacity with Saber Blade.

Table:

Size 14" x 14"
Tilt 45° Right, 15° Left, 45° Front
From Floor on Stand 42 1/4"
From Floor on Special, Low Height Stand 37 1/4"

Speeds:

Variable Speed Model 650 to 1700 C.S.M.*
Four-Speed Model 610, 910, 1255, 1725 C.S.M.*

Overall Dimensions:

Length . . . 36", Width . . . 15", Height (on Stand) . . . 55"

*Cutting Strokes Per Minute.

CATALOG LISTING

No. 1440 Basic Machine Without Stand: 24" Scroll Saw with 1 saber blade and 3 scroll saw blades. Without motor, switch, pulleys, belt or belt guard. 102 lbs.

No. 40-205 Basic Machine With Steel Stand (Four-Speed Model): Same as 1440 except Four-Speed and with 50-717 steel stand. 41-722 4-step cone pulley with 1/2" bore on arbor, 41-712 4-step motor pulley (with 1/2" bore), 340 V-belt, 1203 belt and pulley guard, 1 saber blade and 3 scroll saw blades. Without motor or switch. 161 lbs.

No. 40-305 Basic Machine With Steel Stand (Variable-Speed Model): Same as 1440 except Variable-Speed and with 50-717 steel stand, 1443 arbor pulley with 1/2" bore, 1446 variable-speed motor pulley with 1/2" bore, 1447 motor base and bracket, 331 V-belt, 1442 belt and pulley guard, 1 saber blade and 3 scroll saw blades. Without motor and switch. 160 lbs.

NOTE: Items bearing individual catalog numbers as included in 40-205 and 40-305 can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

No. 62-110 Motor, 1/2 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. With on-and-off switch, 115 V 8-foot cord and 3-prong grounding type plug. 28 lbs.

FOR 3 PHASE OPERATION

No. 66-139 Motor, 1/2 HP, 230/460 V, AC, 60 cy, 1725 rpm. Without switch or power cord. 23 lbs.

No. 49-671 Push Button Switch for manual on-and-off control where overload protection is not desired. Mounting Bracket is not required. 3 lbs.

No. 49-838 Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.

No. 49-665 Starter, Magnetic. For 60 cy, 208-230/460 V. Provides low-voltage, no-voltage and overload protection. Does not include No. 49-842 start-stop control station. Specify motor number and voltage when ordering. 11 1/2 lbs.

No. 49-842 Magnetic Starter Control Push Button Switch Kit. Provides integral start-stop control station for 49-665 Starter. 1 lb.

No. 49-848 Bracket for mounting above starters (except 49-671) on steel stand. 3 lbs.

CONVENIENT ALL-INCLUSIVE NUMBERS

FOR SINGLE PHASE OPERATION

No. 40-211 Four-Speed 24" Scroll Saw complete. Includes 40-205 scroll saw with steel stand and 62-110 1/2 HP motor with switch. 189 lbs.

No. 40-311 Variable-Speed Scroll Saw complete. Includes 40-305 scroll saw with steel stand and 62-110 1/2 HP motor with switch. 188 lbs.

FOR 3 PHASE OPERATION

No. 40-213 Four-Speed 24" Scroll Saw complete. Includes

Continued on next page

ROCKWELL DELTA 24" SCROLL SAW

CATALOG LISTINGS—Continued

40-205 scroll saw with steel stand, 66-139 ½ HP motor, 49-838 starter (specify voltage) and 49-848 mounting bracket, 193 lbs.

No. 40-313 Variable-Speed Scroll Saw complete. Includes 40-305 scroll saw with steel stand, 66-139 ½ HP motor, 49-838 starter (specify voltage) and 49-848 mounting bracket, 192 lbs.

DELTA QUALITY ACCESSORIES THAT MAKE THE 24" SCROLL SAW MORE VALUABLE

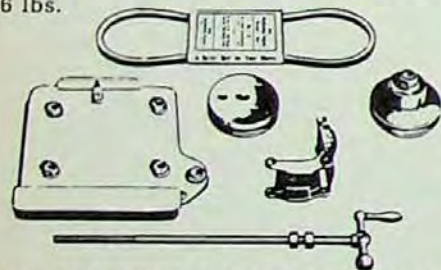
No. 50-310 Steel Stand. Special height for schools: 7" x 33" x 26½" high, 39 lbs.

No. 50-717 Steel Stand. 7" x 33" x 31½" high, 39 lbs.

No. 49-363 Retractable Caster Set. For 50-717 or 50-310 steel stand, 11 lbs.

No. 1207 Four-Speed Accessory Group. Consists of 41-712 Motor Pulley (½" bore), 41-722 machine pulley and 340 V-belt, 1¾ lbs.

No. 1203 Belt and Pulley Guard. For use with 1207 Four-Speed Accessory Group, 6 lbs.



No. 1444 Variable Speed Accessory Group. Converts the Four-Speed 24" Scroll Saw to a Variable Speed Model. This efficient drive, with a range of 650 to 1700 cutting strokes per minute provides the proper cutting speed for any material—high speed for fast, fine work—slow speed for heavy work—and an infinite choice of speeds in between. A convenient speed control handle permits fine speed adjustment—even within 1 or 2 C.S.M.—while the machine is running.

Consists of 1446 variable-speed motor pulley (½" bore), 1447 motor base with bracket, screws and handle, 331 special V-belt and 1443 special drive pulley (½" bore), 11 lbs.

No. 1442 Belt and Pulley Guard. For use with 1444 Variable Speed Assembly, 6 lbs.



No. 1204 Lower Saber Saw Blade Guides. Support saber blade directly below table. Enable you to do perfect straight-line saber cutting because the blade is supported below the table as well as above.

Consists of (2) lower guides with post, nut and thumb screw. Blade slots .030" and .040". ½ lb.



No. 711 Sanding Attachment. For sanding concave, convex or flat surfaces. Eliminates annoyance of makeshift devices. Knurled knob expands body of sanding attachment, tightens garnet sleeve securely, 1½" wide, ½" thick and 2½" long. ¼" dia. shank fits universal lower chuck of scroll saw. With one sleeve.

Sanding Sleeves. Package of 6.

Number	Type	Grit and Finish
841	Garnet	No. 1 Medium
842	Garnet	No. 1/0 Fine



No. 1202 Individual Blade Guides. Supplement the regular guide and hold-down. Used where close following of a line or pattern is important. Ideal for puzzle and marquetry work.

Set of six different, hardened steel guides and bracket, 1 lb.

No. 715 Self-Centering Lower-Jaw Chuck. Fits lower plunger of scroll saw. Valuable aid for fine marquetry and puzzle work. Fine blades are automatically guided to center of chuck, then locked with thumb screw. Includes special jaw for use with upper chuck. ¾ lb.



No. 882 Lamp Attachment. Eliminates shadows and brings light to your work where needed for accurate following of layouts, yet does not glare. Can be swung out of the way by a touch of the finger. Furnishes every machine with its own illumination, independent of the shop lighting system. Uses standard 15 or 25 watt bulb. Includes shade, socket, cord, four flat links, bolts, spacer and attachment bracket, 1½ lbs.

SCROLL SAW BLADES

A proper blade for every job. All are 5" long with accurately spaced teeth. Heat treated for extra long life. Have ⅝" blank ends for fastening into chuck. ½ doz. to a package. ¼ lb.

Cat. No.	Material Cut	Width In.	Teeth Per Inch	Blade Full Size
58	Steel ■ Iron Lead ■ Copper	.070	32	
59	Aluminum Pewter Asbestos Paper ■ Felt	.070	20	
60	Steel ■ Iron Lead ■ Copper Brass	.070	15	
61	Aluminum Pewter Asbestos	.085	15	
64	Wood	.110	20	
65	Asbestos ■ Brake Lining ■ Mica Steel ■ Iron Lead ■ Copper Brass Aluminum Pewter	.250	20	
77	Wood Panels and Veneers	.048	18	
81	Plastics Celluloid	.070	14	
82	Hard Rubber Bakelite	.055	16	
83	Ivory ■ Wood	.045	18	
84	Wood Veneer Plus Plastics Celluloid Hard Rubber Bakelite Ivory Extremely Thin Materials	.035	20	
85	Plastics Celluloid	.050	15	
86	Hard Rubber	.055	12	
87	Bakelite	.070	7	
88	Ivory ■ Wood	.110	7	
91	Wall Board Pressed Wood Wood ■ Lead Bone ■ Felt Paper ■ Copper Ivory Aluminum	.110	15	
92		.110	10	
93	Hard and Soft Wood	.187	10	
94		.250	7	
95	Pearl ■ Pewter Mica	.054	30	
96	Pressed Wood Sea Shells	.054	20	
97	Jewelry Metals	.070	15	
98	Hard Leather	.085	12	

As a general rule, always select the narrowest blades recommended for intricate curve cutting and widest blades for straight and large curve cutting operations.

SABER BLADES FOR WOOD

Made of high-grade steel with teeth hardened and accurately set. Are 5" in length. ½ doz. to a package. ¾ lb.

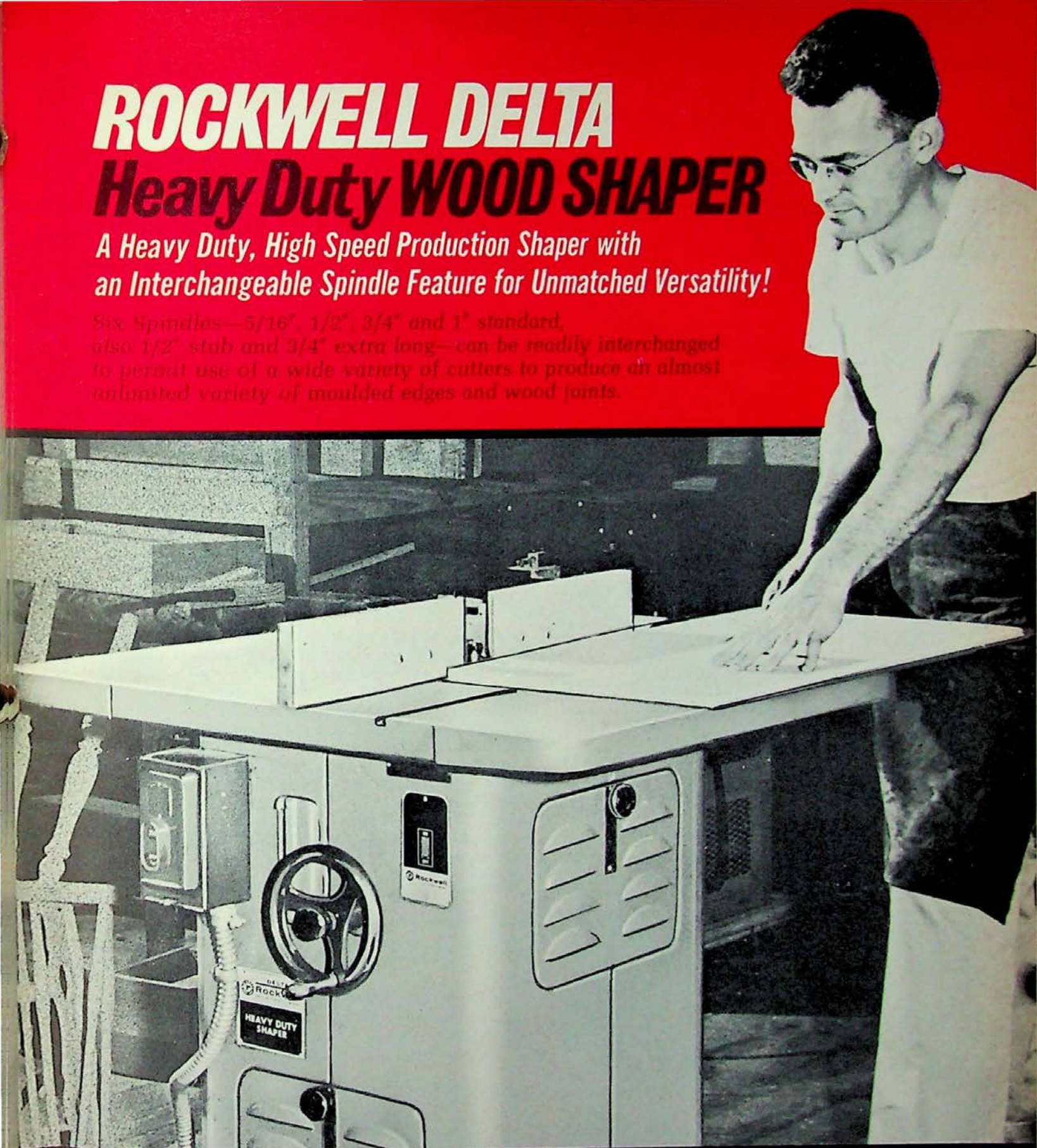
No. 703 .025" thick, .187" wide, 9 teeth per inch.

No. 704 .035" thick, .250" wide, 7 teeth per inch.

ROCKWELL DELTA **Heavy Duty WOOD SHAPER**

*A Heavy Duty, High Speed Production Shaper with
an Interchangeable Spindle Feature for Unmatched Versatility!*

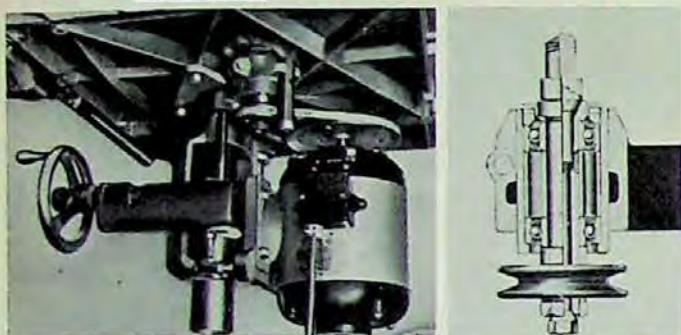
*Six Spindles—5/16", 1/2", 3/4" and 1" standard,
also 1/2" stub and 3/4" extra long—can be readily interchanged
to permit use of a wide variety of cutters to produce an almost
unlimited variety of moulded edges and wood joints.*



IDEALLY SUITED FOR CABINET SHOPS, FURNITURE FACTORIES, SPECIALTY SHOPS, SCHOOLS, AND SASH AND DOOR COMPANIES.

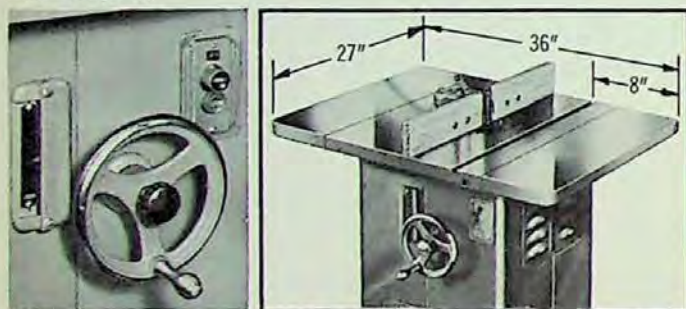
ROCKWELL DELTA HEAVY DUTY WOOD SHAPER

**DELTA QUALITY FEATURES
THAT MAKE THE HEAVY DUTY SHAPER
THE BIGGEST VALUE IN ITS CLASS!**



(Left) **Unitized Drive Mechanism**—The spindle, housing, motor, raising and lowering mechanism are a single self-contained unit, securely assembled to the under side of the table for absolute 90° spindle-to-table alignment.

(Right) **Rugged Spindle Assembly**—Short, rigid drive spindle and closely set lubricated-for-life ball bearings—pre-loaded to prevent distortion at high speeds—assure accurate, chatter-free shaping.



(Left) **Conveniently Grouped Controls**—The spindle adjusting hand wheel, spindle lock, height adjustment scale and starting switch all are grouped at the front of the machine within easy reach of the operator from his normal working position.

(Right) **Massive Table**—Measures a full 20" x 27". Can be increased to 36" x 27" by adding two extension wings. Furnishes ample support for shaping large work. Has precision ground face, ribbed under-table construction to prevent warping and springing. Milled $\frac{3}{8}$ " x $\frac{3}{4}$ " groove permits use of a variety of accessory work-holding devices, such as miter gage, tenoner and sliding shaper jig.



(Left) **Fully Adjustable Fence**—Both fence halves are independently adjustable for precise depth-of-cut settings using the same convenient control knob and locking lever. Fence halves measure a full $3\frac{3}{4}$ " x $12\frac{3}{8}$ " and adjust end-wise so that fence opening can be varied in direct relation to the cutter size for safer operation. Entire fence assembly can be easily removed for free-hand shaping of curved or irregular work.

(Right) **Interchangeable Spindles**— $\frac{5}{16}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" standard spindles; a $\frac{1}{2}$ " stub spindle for cope cutters and an extra-long $\frac{3}{4}$ " spindle with $4\frac{3}{8}$ " capacity under the nut, are readily interchangeable to permit use of a wide variety of shaper cutters. Table opening size can be varied, as needed, by removing special table insert rings.



No. 43-205 Heavy Duty Wood Shaper
Shown With Accessory Cutterhead and Electricals.

A favorite in cabinet shops, furniture factories, specialty shops, school shops, sash and door companies and similar installations because of its unequalled versatility. This Rockwell Delta Shaper is engineered to accept six interchangeable spindles! It will handle $\frac{5}{16}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" standard spindles, a $\frac{1}{2}$ " stub spindle, plus an extra long $\frac{3}{4}$ " spindle with $4\frac{3}{8}$ " capacity under the nut. There's practically no limit to the variety of cuts the Delta Shaper will produce because of the wide range of shaper cutter sizes it will accommodate. This unmatched shaping versatility, together with Delta's famous quality construction, make the Delta Wood Shaper the biggest value in its class!

STANDARD EQUIPMENT

Basic Machine includes fence, $\frac{3}{4}$ " and $\frac{1}{2}$ " spindles, one table extension, table inserts, starting pin, spindle pulley, motor pulley, V-belt and wrenches.

MACHINE DATA

Spindle:	
Diameters Furnished	..... $\frac{1}{2}$ " and $\frac{3}{4}$ "
Diameters (Accessory Equipment)	..... $\frac{5}{16}$ " and 1";
	..... $\frac{3}{4}$ " Extra Long and $\frac{1}{2}$ " Stub
Capacity (Under Nut): 1" Spindle	..... 4";
$\frac{3}{4}$ " Spindle	..... $3\frac{1}{4}$ "; $\frac{3}{4}$ " Spindle (Extra Long)..... $4\frac{3}{8}$ ";
$\frac{1}{2}$ " Spindle	..... $2\frac{1}{2}$ "; $\frac{5}{16}$ " Spindle..... $1\frac{1}{2}$ "
Travel	..... 3"
Speed	..... 10,000 RPM
Table:	
Size	..... 20" x 27"
Size (With Extra Extension)	..... 28" x 27"
Size (With Two Extra Extensions)	..... 36" x 27"
Height	..... 34"
Insert Opening Diameters	..... $6\frac{3}{4}$ ", $3\frac{1}{2}$ ", 3" and $1\frac{3}{8}$ "
Fence Size (Each Side)	..... $3\frac{3}{4}$ " x $12\frac{3}{8}$ " x $1\frac{5}{16}$ "
Overall Dimensions:	
Width	..... 20"; Width (With Two Extra Extensions)..... 36"
Depth	..... 27"; Height..... $37\frac{3}{4}$ "

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA HEAVY DUTY WOOD SHAPER

CATALOG LISTING

No. 1340 Wood Shaper with one 1349 8" x 27" table extension, 1354 fence, 43-937 3/4" spindle, 1347 1/2" spindle, table inserts, starting pin, spindle pulley, 7 1/2" motor pulley (3/4" bore), 287 V-belt (30" O.C.) and wrenches. Without motor, controls or cutters. 273 lbs.

No. 43-205 Wood Shaper. Same as No. 1340 except with two 1349 8" x 27" table extensions. Without motor, controls or cutters. 300 lbs.

NOTE: Items bearing individual catalog numbers, as included in 1340 and 43-205, can be ordered separately; see price list.

MOTORS AND CONTROLS (Factory Mounted and Wired)

*MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1 Horsepower	Push Button Switch Only	GD	60-3450	115/230	75	49-933
	Push Button Switch and Magnetic Starter	GD	60-3450	115/230	82	49-934
Single Phase, 2 Horsepower	Push Button Switch Only	GD	60-3450	115/230	85	49-935
	Push Button Switch and Magnetic Starter	GD	60-3450	115/230	92	49-936
	Push Button Switch Only	GD	60-3450	230/460	59	49-937
Three Phase, 1 Horsepower	Push Button Switch and Overload Switch	GD	60-3450	230/460	64	49-938
	Push Button Switch and Magnetic Starter	GD	60-3450	230/460	66	49-939
	Push Button Switch and Magnetic Starter (w/115 Volt Transformer)	GD	60-3450	230/460	70	49-940
	Push Button Switch Only	GD	60-3450	230/460	61	49-945
Three Phase, 1 1/2 Horsepower	Push Button Switch and Overload Switch	GD	60-3450	230/460	66	49-946
	Push Button Switch and Magnetic Starter	GD	60-3450	230/460	68	49-947
	Push Button Switch and Magnetic Starter (w/115 Volt Transformer)	GD	60-3450	230/460	72	49-948
	Push Button Manual Starter w/Overload	GD	60-3450	230/460	85	49-942
Three Phase, 3 Horsepower	Push Button Switch and Magnetic Starter	GD	60-3450	230/460	92	49-943
	Push Button Switch and Magnetic Starter (w/115 Volt Transformer)	GD	60-3450	230/460	96	49-944

*All Motors Supplied with Integral Reversing Switch.

NOTE: Single phase, 1 HP electricals will be supplied wired for 230V, unless 115V is specified. Single phase, 2 HP electricals will be supplied wired for 230V only. Three phase electricals will be supplied wired for 230V, unless 208V or 460V is specified. Power Cord and Plug supplied

for single phase only. Motors and motor controls for Rockwell Delta Heavy Duty Wood Shapers may be ordered unmounted. For listing, see Sections P and Q.

DELTA QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE

No. 1346 5/16" Spindle. For 3-lip shaper cutters with 5/16" hole. 1 lb.

No. 1347 1/2" Spindle. Included with basic machine. For 3-lip shaper cutters with 1/2" hole. 1 lb.

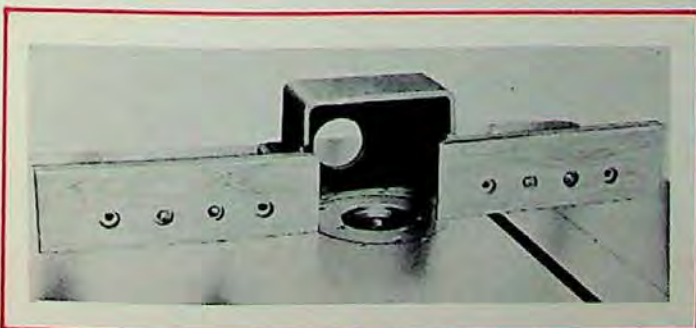
No. 1345 1/2" Stub Spindle. For cope cutters with 1/2" hole. 1 lb.

No. 43-937 3/4" Spindle. Included with basic machine. For use with cutterheads with 3/4" hole. 3/4 lb.

No. 43-826 Extra Long 3/4" Spindle Cartridge Assembly for counter-clockwise rotation. Has 3/4 x 10 RH thread. Provides 4 3/8" capacity under nut. For use with wide cutters for fluting and reading. 2 lbs.

43-827 Extra Long 3/4" Spindle Cartridge Assembly for clockwise rotation. Has 3/4 x 10 LH thread. Provides 4 3/8" capacity under nut. 2 lbs.

No. 43-828 1" Spindle Cartridge Assembly for use with 1" hole cutters. For clockwise or counter-clockwise rotation. 2 lbs.



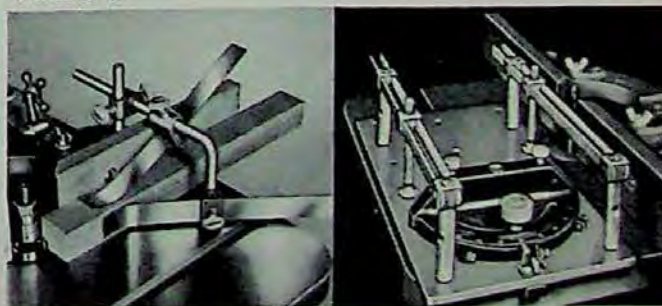
No. 43-830 Fence Guard Assembly. For large diameter cutters. Fence halves adjust independently. Accommodates cutters up to 6" in diameter when used with 43-828 1" diameter Spindle Cartridge Assembly.



No. 50-864 Auto-Set® Miter Gage. For straight and angle edge shaping. Has 3/8" x 3/4" x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 865 Clamp Attachment for miter gage. Holds work evenly and safely when edge shaping with miter gage. Includes clamp bar, two sliding clamp screws, front and rear posts. 2 1/4 lbs.

No. 873 Extra Clamp Screw and Bracket for clamp attachment. 1 lb.



(Left) **No. 983 Spring Hold Downs.** Used with shaper fence on straight shaping operations. Holds work firmly against fence and table. Accommodates work up to 3 1/2" thick, any length. 2 lbs.

(Right) **No. 1186 Sliding Shaper Jig.** For horizontal shaping operations such as tenon and groove cutting. Securely holds short and narrow work, prevents slipping. 19 lbs.

No. 1170 Tenoner. Used with 1186 Shaper Jig Base. Simplifies vertical shaping operations as in-face shaping and drawer construction. 21 lbs.

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ROCKWELL DELTA HEAVY DUTY WOOD SHAPER

ACCESSORIES—Continued

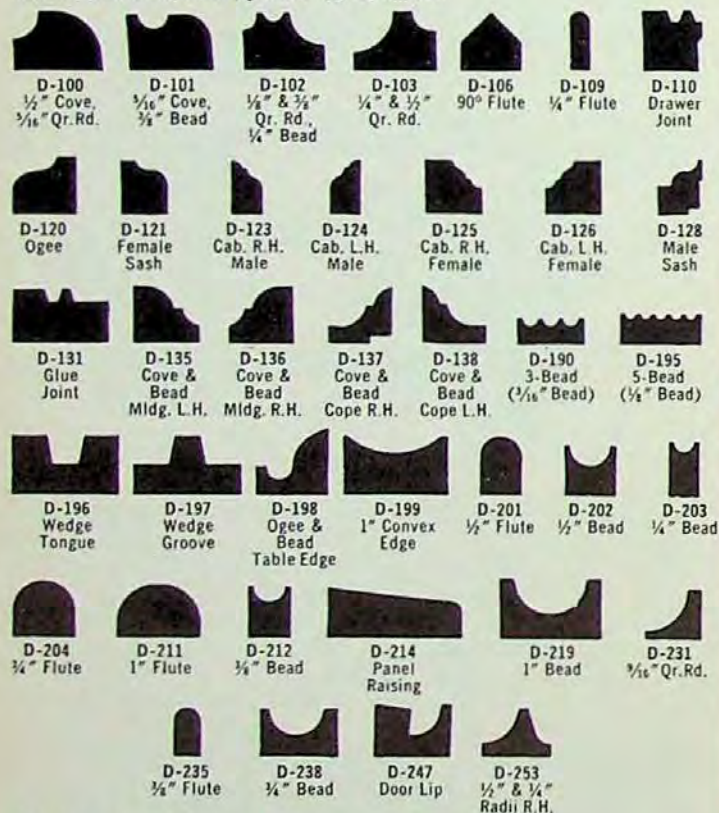


No. 1348 Safety Ring Guard. For added safety and convenience on curved and circular edge shaping operations. Complete with mounting bracket. 8 lbs.

3-LIP SHAPER CUTTERS



All have $\frac{1}{2}$ " arbor hole. Involute relief design permits honing of the face without changing the shape. Cutters D-128 and D-137 are counterbored to fit Stub Spindle No. 1345. Cutters are shown $\frac{3}{8}$ size. $\frac{1}{2}$ lb. each.



Straight Cutters— $\frac{1}{2}$ " Hole

Number	Thickness	Diameter	Number	Thickness	Diameter
D-107	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	D-108	$\frac{1}{4}$ "	$1\frac{1}{16}$ "
D-130	$\frac{3}{4}$ "		D-127	$\frac{3}{8}$ "	
D-104	1"		D-139	$\frac{1}{4}$ "	$2\frac{1}{32}$ "
D-105	$1\frac{1}{2}$ "		D-129	$\frac{3}{8}$ "	

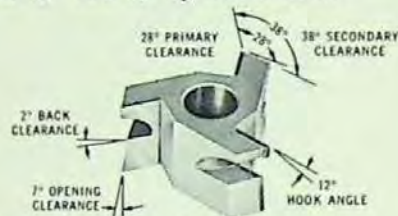
Spacing Collars— $\frac{1}{2}$ " Hole

Number	Diameter	Thickness	Number	Diameter	Thickness
D-133	$1\frac{3}{16}$ "	$\frac{1}{8}$ "	D-144	1"	$\frac{3}{8}$ "
D-150	$1\frac{3}{8}$ "	$\frac{3}{16}$ "	D-173	$1\frac{1}{16}$ "	
			D-145	$1\frac{1}{8}$ "	
D-155	$\frac{3}{4}$ "	$\frac{1}{4}$ "	D-132	$1\frac{1}{32}$ "	
			D-141	$1\frac{1}{16}$ "	
			D-146	$1\frac{1}{4}$ "	
			D-174	$1\frac{1}{16}$ "	
			D-175	$1\frac{1}{16}$ "	
			D-176	$1\frac{1}{16}$ "	
D-140	$1\frac{1}{16}$ "	$\frac{3}{8}$ "	D-147	$1\frac{3}{8}$ "	
D-215	$1\frac{15}{32}$ "		D-148	$1\frac{1}{2}$ "	
D-151	$1\frac{1}{8}$ "		D-177	1"	
D-142	$\frac{3}{4}$ "		D-178	$1\frac{11}{16}$ "	
D-171	$1\frac{3}{16}$ "		D-179	$1\frac{13}{16}$ "	
D-143	$\frac{7}{8}$ "	D-180	$1\frac{7}{8}$ "		
D-172	$1\frac{5}{16}$ "	D-149	$1\frac{15}{16}$ "		

CARBIDE-TIPPED DOOR LIP SHAPER CUTTERS

The special design of the cutters assures a sharp edge on the tool lip, resulting in these user benefits: Cutter runs cool and will not overload the machine. Cutter lasts longer because a heavy cutting corner can be maintained. The cutter won't burn the work. Cutter stays sharp longer and will not heel. Finally, the pattern can be ground many times.

No. 43-900 Door Lip Cutter. For clockwise rotation. Cuts with rabbet down, feed left to right. $2\frac{5}{16}$ " diam. with bushing for use on $\frac{1}{2}$ " and $\frac{3}{4}$ " spindles. 10 oz.



No. 43-901 Door Lip Cutter. For counter-clockwise rotation. Same as 43-900 except right to left feed. 10 oz.

COLLAR SETS

No. 1210 Set of 7 Collars. $\frac{3}{4}$ " to $1\frac{1}{8}$ " Diameter. D-142, D-143, D-144, D-145, D-171, D-172, D-173. $\frac{3}{4}$ lb.

No. 1211 Set of 6 Collars. $1\frac{1}{16}$ " to $1\frac{1}{2}$ " Diameter. D-141, D-146, D-147, D-148, D-174, D-175. 1 lb.

No. 1212 Set of 6 Collars. $1\frac{1}{16}$ " to $1\frac{7}{8}$ " Diameter. D-149, D-176, D-177, D-178, D-179, D-180. $1\frac{1}{2}$ lbs.

No. 1191 Set of 4 Collars for Sash Cutters. D-140, D-141, D-150 and D-151. $\frac{1}{2}$ lb.

No. 1198 Set of Table Inserts With Guide Shoulders. For template shaping operations where collars are not used. Set of two— $2\frac{3}{8}$ " and $1\frac{5}{8}$ " diameter. $1\frac{1}{2}$ lbs.

CUTTER AND COLLAR SETS

No. 1182 Standard Cutter Set. Consists of cutters D-100 to D-109 inclusive and collars D-142 to D-149 inclusive. Packed in wood box. $3\frac{1}{2}$ lbs.

No. 1213 Cove and Bead Cutter Set. Consists of cutters D-129, D-135 to D-139 inclusive and collars D-132 and D-134. Packed with 1345 Stub Spindle Assembly and SP-10 Wrench. 2 lbs.

No. 1214 Sash and Cabinet Cutter Set. Consists of cutters D-140, D-120, D-121, D-123 to D-128 inclusive and collars D-140, D-141, D-150 and D-151. Packed with 1345 Stub Spindle Assembly and SP-10 Wrench. 3 lbs.

3-KNIFE SAFETY CUTTERHEAD

Enables circular saw moulding cutter knives to be used on the wood shaper.

No. 1343 Cutterhead. Includes wrench and bushing for use with $\frac{1}{2}$ " and $\frac{3}{4}$ " shaper spindles. Furnished without knives. $1\frac{1}{2}$ lbs. For actual size and shape of cutters, see Section "G6."



SAFETY CUTTERHEAD AND BLANK KNIVES

For special mouldings that cannot be made with standard shaper cutters. Knives are self-hardening and sand-blasted so that desired cutter shape may be drawn directly on them and ground to shape.

No. 1342 Cutterhead. For use with $\frac{3}{4}$ " spindle. $2\frac{3}{4}$ " high, with tightening block; less knives. $1\frac{1}{2}$ lbs.

No. 1192 Cutterhead. For use with $\frac{1}{2}$ " spindle. $2\frac{3}{4}$ " high, with tightening block; less knives. $1\frac{1}{2}$ lbs.

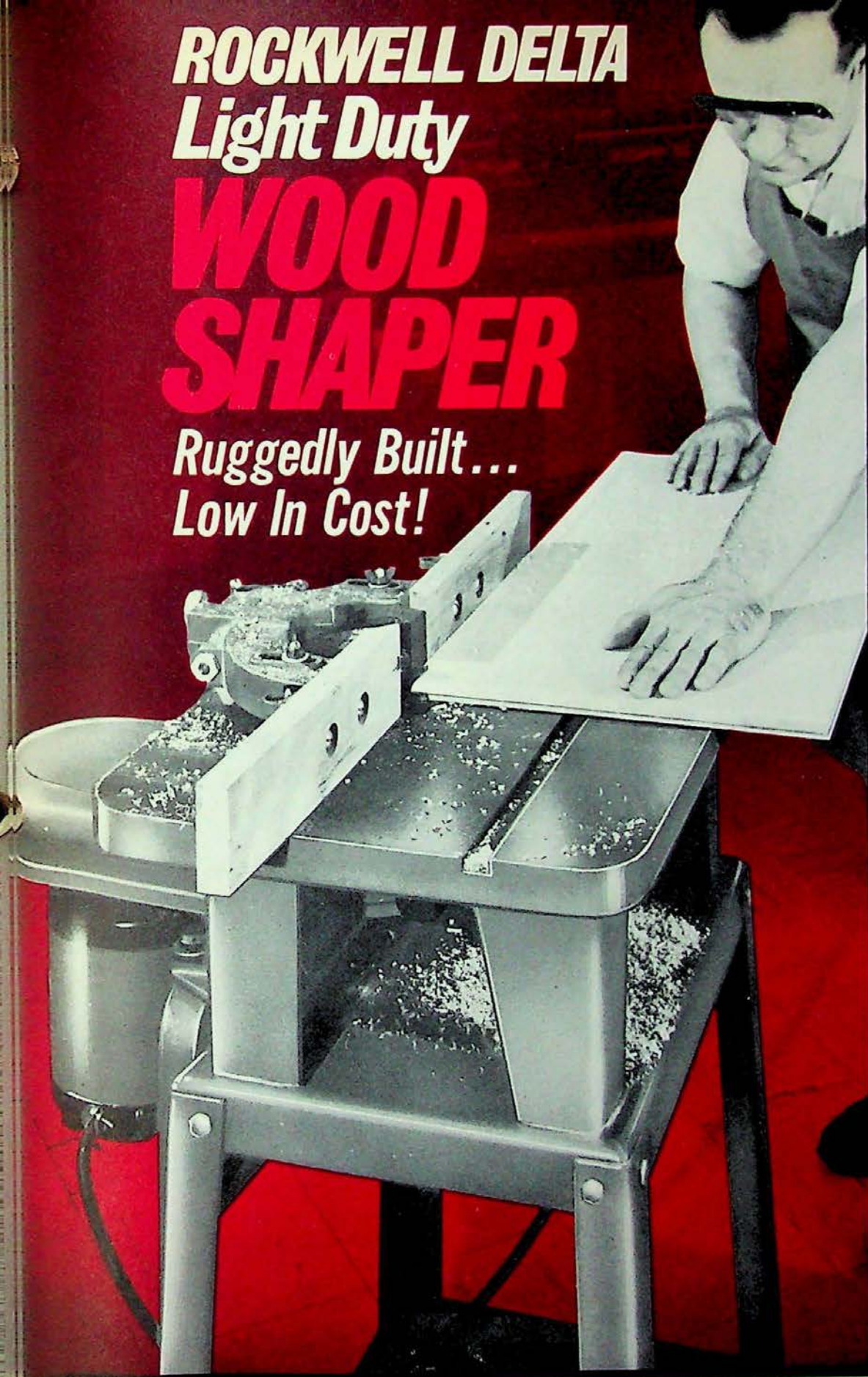
Blank Knives—Set of Two. For use with 1342 and 1192 cutterheads. All $\frac{1}{8}$ " thick with 30° clamping angle.



Number	1193	1194	1195	1196
Size	$\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{3}{4}$ x $2\frac{1}{2}$	1" x $2\frac{1}{2}$	$1\frac{1}{2}$ x $2\frac{1}{2}$

ROCKWELL DELTA **Light Duty** **WOOD** **SHAPER**

**Ruggedly Built...
Low In Cost!**



- Offers unlimited possibilities for making mouldings on straight, internal and external, curved and irregular surfaces.
- Three interchangeable spindles available— $5/16$ " and $1/2$ " standard, $1/2$ " stub.
- Quick positioning, cam type spindle raising and lowering mechanism for easy operation.
- Large, independently adjustable fence halves for maximum safety and top quality performance.
- Rugged spindle assembly—short, rigid drive spindle and closely spaced bearings—assures accurate, chatter-free shaping.
- See this **BIG VALUE** in action today!

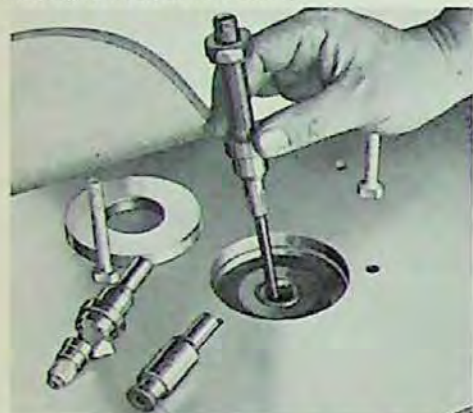
ROCKWELL STATIONARY POWER TOOLS FOR THE BUILDING TRADES

ROCKWELL DELTA LIGHT DUTY WOOD SHAPER

DELTA QUALITY FEATURES



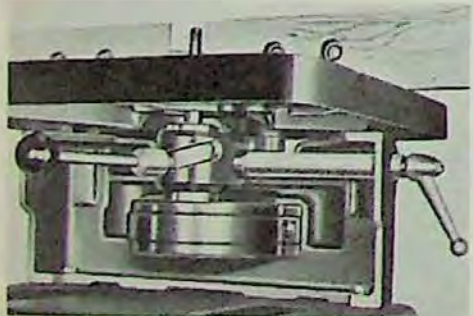
Single Knob Control insures accurate fence adjustments—both halves are independently adjustable for greater safety and convenience.



Interchangeable Spindles, including a stub spindle for cope cuts on windows and doors permit use of a wide variety of cutters.



Guard Completely Covers Motor, belt and pulley for greater operator safety. Spring holddown, ring guard and other safety items available as accessories.



Convenient Spindle Control Lever under front of table facilitates height settings—special lock handle securely holds desired setting.

Short, Rigid Spindle (not shown) with closely spaced bearings, eliminates whip, assures smooth, clean work. Requires no lubrication for life of bearings.



Wood Shaper with Motor, On-Off and Reversing Switch, Motor, Pulley, V-Belt, Stand and Accessory casters.

The Delta Wood Shaper offers unlimited possibilities for making mouldings on straight, internal and external, curved and irregular surfaces. Shaper cutters with $\frac{1}{2}$ " hole can be used, also cope cutters using the $\frac{1}{2}$ " stub spindle. This extreme versatility together with such quality features as precision ground $15\frac{1}{2}$ " x 18" table... lubricated-for-life ball bearing spindle... fully adjustable fence... and more make the Delta Shaper an unequalled value.

MACHINE DATA

Overall Dimensions

Width	25 $\frac{1}{2}$ "
Depth	25 $\frac{1}{2}$ "
Height	
Bench Model	10 $\frac{1}{2}$ "
On Stand	37"

Table:

Size	15 $\frac{1}{2}$ " x 18"
Table Slot	$\frac{3}{8}$ " x $\frac{3}{4}$ "
Insert Openings (Diameter)	
	3" and 1 $\frac{3}{8}$ "

Fence Size (each side) 3" x 11 $\frac{1}{2}$ "

Working Height On Stand 34"

Capacity:

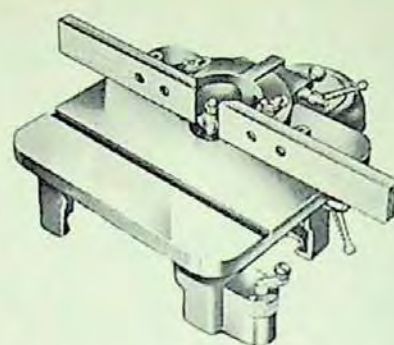
$\frac{1}{2}$ " Spindle (under nut) 2 $\frac{3}{8}$ "

Spindle:

Travel

Speed (with 3450 rpm motor) 7 $\frac{1}{8}$ "

9000 rpm



Wood Shaper (bench model)

CATALOG LISTING

No. 43-110 Basic Machine Without Stand. Includes fence, $\frac{1}{2}$ " spindle, table insert, starting pin, belt and pulley guard, spindle pulley and wrenches. Without stand, motor pulley, V-belt, motor, switch and power cord. 87 lbs.

CONVENIENT ALL-INCLUSIVE NUMBERS FOR SINGLE PHASE WITH HEAVY DUTY MOTOR

No. 43-111 Light Duty Wood Shaper complete. Includes 43-110 shaper with 50-305 Stand, 62-213 $\frac{1}{2}$ HP Motor with 115V power cord and plug set, 49-316 Reversing Drum Switch, 43-805 Motor Pulley ($\frac{5}{8}$ " bore) and 49-105 V-belt (30 $\frac{1}{8}$ " O.C.). 129 lbs.

No. 43-112 Light Duty Wood Shaper complete. Includes 43-110 Shaper with 50-305 Stand, 83-361 1 HP Motor with Integral Reversing Switch, 49-670 Manual Control Push Button Switch, 49-513 115V power cord and plug set, 43-804 Motor Pulley ($\frac{3}{4}$ " bore) and 273 V-belt (32 $\frac{1}{8}$ " O.C.). 189 lbs.

ACCESSORY EQUIPMENT

No. 43-804 Motor Pulley, $\frac{3}{4}$ " bore. 2 lbs.

No. 43-805 Motor Pulley, $\frac{5}{8}$ " bore. 2 lbs.

No. 273 V-belt, 32 $\frac{1}{8}$ " O.C. 1 lb.

No. 49-105 V-belt, 30 $\frac{1}{8}$ " O.C. 1 lb.

No. 50-305 Open Steel Stand. 26 $\frac{1}{4}$ " high. 32 lbs.

No. 49-362 Retractable Casters. 12 lbs.

No. 982 Shaper Fence. Included with basic machine. 12 lbs.

No. 1190 Stub Spindle. For counter-bored $\frac{1}{2}$ " hole 3-lip shaper cutters: Nos. D-128, D-137. 1 lb.

No. 43-935 $\frac{1}{2}$ " Spindle. Included with basic machine. For $\frac{1}{2}$ " hole 3-lip shaper cutters. 1 lb.

No. 1198 Table Insert. With Guide Shoulders. For shaping with template without the use of collars. 3" O.D. and 1 $\frac{3}{8}$ " I.D.

No. 43-817 Ring Guard. Added safety and convenience on curved and circular edge shaping operations. Complete with mounting bracket. 9 lbs.

ROCKWELL DELTA 12" Heavy Duty WOOD LATHE

Variable Speed With Gap Bed



This rugged, heavy duty wood lathe will provide the day-in, day-out top-flight performance you expect on every job. Here's why:

- It offers **Extra Big Capacity!**
- It contains **A Powerful Variable Speed Drive!**
- It incorporates **A Safety Engineered Design Throughout!**
- It provides **Unequaled Versatility!**

These are just a few of many reasons why the Rockwell Delta 12" Heavy Duty Wood Lathe is a favorite in industry, commercial and school shops everywhere. Let us prove its value to you today!

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 12" HEAVY DUTY WOOD LATHE

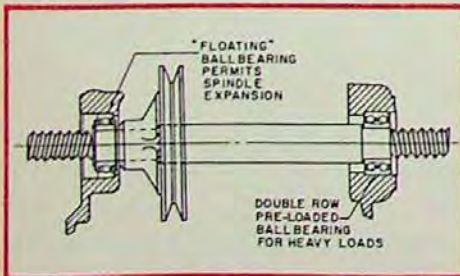
**DELTA QUALITY FEATURES
THAT MAKE THE 12"
HEAVY DUTY WOOD LATHE
UNMATCHED
IN ITS CLASS!**



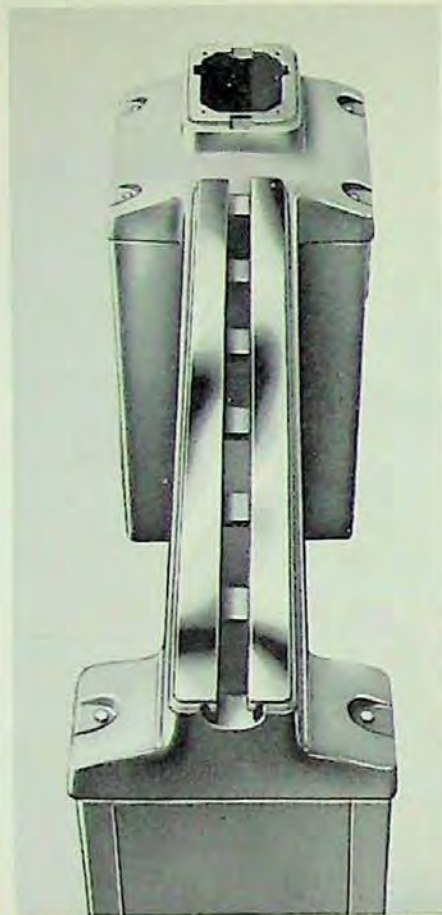
Designed For Big Capacity Jobs—You can turn stock up to 12" in diameter over the bed . . . up to 16½" diameter by 3½" thick over the bed gap . . . extra large work on the outboard spindle.



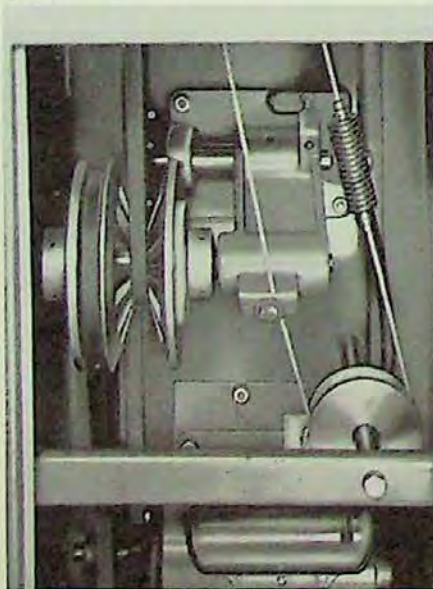
Rugged Head Stock Construction—It's engineered to give extra rigidity for heavy, rough turning. Cover completely encloses belt and pulleys for added safety and is easy to remove for changing belt.



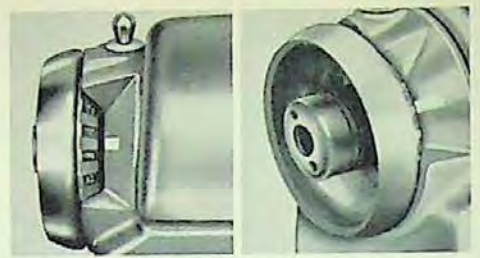
Maximum Thrust Head Stock Spindle—A double row, preloaded, sealed-for-life ball bearing at the work end permits maximum thrust for heavy turning and metal spinning. "Floating" ball bearing construction on the outboard end allows for expansion as spindle warms up.



Massive Bed—It is scientifically ribbed and ruggedly constructed to minimize vibration. Bed and head stock mounting are precision ground simultaneously for absolute alignment, guaranteeing top quality lathe performance.



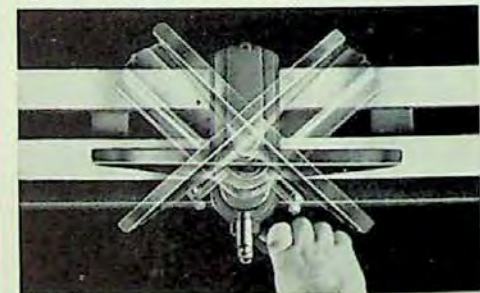
Modern, Efficient Variable Speed Drive—Gives you all the advantages of a variable speed drive, with an infinite choice of speeds from 340 to 3200 RPM. Its simple construction, with few operating parts, makes it function very smoothly. During speed changes, the variable speed pulley moves up or down at the correct angle to maintain perfect belt alignment at all speeds. This assures higher power transmission efficiency.



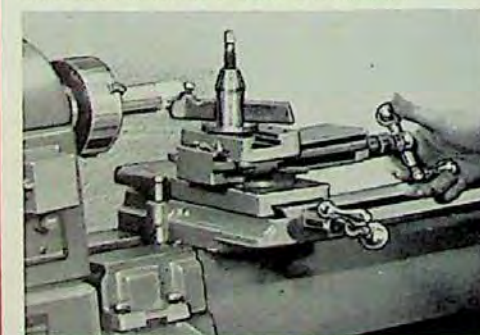
Scientifically Designed Hand Wheel—Large and easy to grip, the indexing and tailstock hand wheels are engineered to conform to the contours of the hand. Indexing of spindle to any of 48 index stops can be done quickly. Extra smooth finish assures maximum operator safety.



Quick Operating Speed Control—Convenient placement of variable speed control lever permits quick selection of any speed from 340 to 3200 RPM. When "pushed in," lever locks at desired speed, even under heavy loads.



Universal Tool Support—It is exceptionally handy and fast in action. Heavy and substantial, it locks to the bed at any desired position by means of the convenient lever at the front where it does not interfere with the work.



Gap Filler Block Increases Lathe Versatility—Filler block extends the bed ways into the gap to provide rigid tool support for light metal turning, metal spinning, face plate turning and any work that must be done right at the headstock. Filler block also can be mounted on a bench beyond the tailstock for extra long turnings.

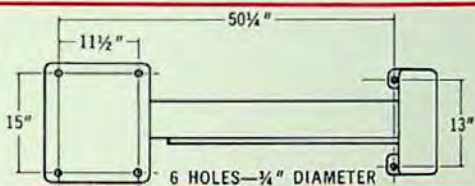
ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 12" HEAVY DUTY WOOD LATHE



No. 46-450
12" Heavy Duty Wood Lathe
On Cabinet With Electricals.

Location
of Floor
Mounting
Holes



A Variable-Speed, Gap-Bed Lathe for Wood Turning, Metal Spinning and Light Metal Turning

This massive lathe is designed for industry, commercial shops and schools—wherever there is a demand for continued accuracy and long life through years of safe, heavy duty operation.

Extra BIG Capacity—You can turn stock up to 12" in diameter over the bed . . . up to 16 1/2" diameter by 3 1/2" thick over the large bed gap . . . extra large work on the outboard spindle. And with Delta's Gap Filler Block, which actually extends the bed ways into the gap, you get the rigid tool support you need for metal spinning, thin face plate turnings, any work that must be done right at the headstock.

Powerful Variable Speed Drive—The perfected Delta variable speed drive offers an extremely low speed of 340 rpm for turning of metals or rough woods plus an infinite choice of speeds up to 3200 rpm, a safe speed for sanding and polishing. This drive, which also includes speeds of 900 to 1400 rpm for metal spinning, guarantees

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 3/4 Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	30	49-693
	Push Button Switch and Magnetic Starter	TEFC	60—1725	115/230	37	49-827
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	47	49-828
	Push Button Switch and Magnetic Starter	TEFC	60—1725	115/230	54	49-829
Three Phase, 3/4 Horsepower	Push Button Switch Only	TEFC	60—1725	230/460	32	49-830
	Push Button and Overload Switches	TEFC	60—1725	230/460	35	49-694
	Push Button Switch and Magnetic Starter	TEFC	60—1725	230/460	38	49-832
	Push Button Switch and Magnetic Starter w/115V Transformer	TEFC	60—1725	230/460	42	49-833
Three Phase, 1 Horsepower	Push Button Switch Only	TEFC	60—1725	230/460	34	49-834
	Push Button and Overload Switches	TEFC	60—1725	230/460	37	49-835
	Push Button Switch and Magnetic Starter	TEFC	60—1725	230/460	40	49-836
	Push Button Switch and Magnetic Starter w/115V Transformer	TEFC	60—1725	230/460	44	49-837

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug supplied

smooth, even transmission of power to the spindle under all work loads.

Engineered for Safety—Completely covered drive mechanism fully protects operator from moving parts. Convenient hand wheels and quick operating speed control reduce operator fatigue. Push button switch plus the optional Slow-Start feature provide user with added safety.

Unequaled Versatility—In addition to basic operations such as turning woods, metals and plastics and metal spinning, this lathe will do dozens of important workshop jobs. With Delta's unmatched line of more than 50 engineered accessories you can do sanding, grinding, buffing, polishing, drilling, reeding, fluting and many other operations.

MACHINE DATA

Capacities:

Swing Over Bed	12"
Swing Over Bed Gap	16 1/2" Diameter for 3 1/2" Stock
Distance Between Centers	38"

Speeds:

With 1725 RPM Motor	Variable from 340 to 3200 RPM
With 1140 RPM Motor	Variable from 230 to 2135 RPM

Spindle:

Nose—Inboard	1"—8 RH Thread
Nose—Outboard	1"—8 LH Thread
Hole (Completely Through Spindle)	5/8"

Headstock and Tailstock Tapers No. 2 M.T.

Ram Travel 2 1/4"

Height—Centerline of Spindle to Floor 42 3/4"

Overall Dimensions:

Height 46 1/2"; Width 22"; Length 63"

Approximate Shipping Weight 490 lbs.

STANDARD EQUIPMENT

Basic Wood Lathe includes deluxe cabinet, 12" tool support, 6" tool support, tool support base, off-set tool support base, drive center, cup center, 3" face plate, 6" face plate, motor pulley and two V-belts.

CATALOG LISTING

No. 46-450 Basic Machine With Deluxe Cabinet. Includes 692 12" Tool Support, 46-805 6" Tool Support, 1461 Tool Support Base, 46-430 Off-set Tool Support Base, 933 Drive Center, 934 Cup Center, 936 3" Face Plate, 937 6" Face Plate, 49-146 V-belt (65 1/8" OC), 49-195 V-belt (37 1/8" OC) and 3" OD Motor Pulley (5/8" bore). Without motor and switch. 490 lbs.

No. 41-042 Motor Pulley, 3" diameter, 1/2" bore. 1 lb.

No. 41-043 Motor Pulley, 3" diameter, 5/8" bore. 1 lb.

No. 41-044 Motor Pulley, 3" diameter, 3/4" bore. 1 lb.

for single phase only. Motors and motor controls for Rockwell Delta 12" Heavy Duty Wood Lathes may be ordered unmounted. For listing, see Sections P and Q. Continued on next page

ROCKWELL DELTA 12" HEAVY DUTY WOOD LATHE

CATALOG LISTING—Continued

SLOW-START SWITCH KITS (Factory Mounted and Wired)

If Slow-Start Feature is desired, order one of the following kits in addition to the machine, motor and control.

No. 46-456 For Use With Manually Controlled Lathes, single phase, 115/230 V, 50/60 cy, or three phase, 208-230 V, 60 cy.

No. 46-851 For Use With Magnetically Controlled Lathes, single phase, 115 V, 60 cy or 208-230/460 V with 115 V transformer.

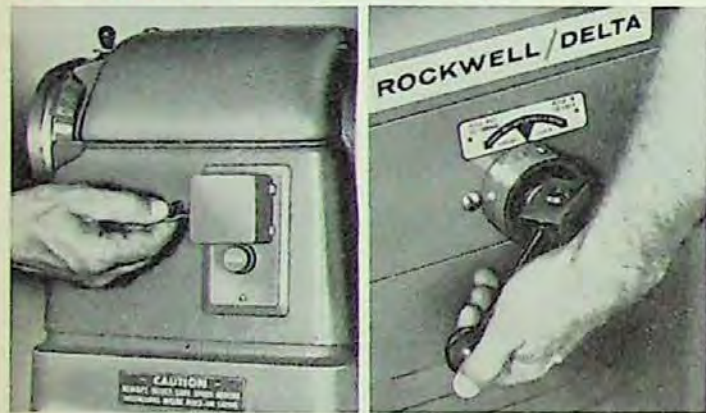
No. 46-852 For Use With Magnetically Controlled Lathes, single phase, 230 V, 60 cy, or three phase, 208-230 V, 60 cy.

MAKE LATHE OPERATIONS SAFER WITH DELTA'S SLOW-START FEATURE

(Easy To Mount On Lathes In The Field Only)

No. 46-455 Slow-Start Switch Kit For Manual Or Magnetic Control. For use with single phase, three phase and DC motors up to 1 HP, AD-DC, 115-230 V. Kit includes limit switch with operating mechanism, cable, switch cover and lock assembly. When using this switch kit for magnetic control, No. 49-399 or 49-508 Relay is required.

Here is How the Slow-Start Feature Operates . . .



(Left) This accessory provides maximum safety for novice lathe operators in schools, training institutions, etc. With it the lathe can be started *only* at the slowest speed. Above, the shop instructor locks hood after pressing switch button to "on" position, ready for student's use.

(Right) Now, student starts lathe by merely pulling variable speed control lever to right. When desired speed is obtained, he pushes lever in, locking it in position. Then, he proceeds to operate the lathe.



(Left) Should a danger signal suddenly appear, the operator's first reaction would be to stop the lathe. This he does by pressing the "stop" button. Now, the lathe cannot be started again by actuating the variable speed control lever since the current is off. The locked hood also makes the "start" button inaccessible.

(Right) Next, the difficulty is determined, either by the student or the instructor, and corrected. Then, the instructor must unlock the hood, press the "start" button and lock the hood again before the student can proceed.

NOTE: See Section N4 for complete range of wood lathe accessories.

NEW! ROCKWELL DELTA WOOD TURNING DUPLICATOR

For Safe, Accurate Duplication of Complex Wood Turnings



- Used on Delta and Other Wood Lathes
- Takes Only a Few Minutes to Install

Now! You can teach your students how to reproduce one or any number of intricate wood turnings *exactly* on your 11" or 12" wood lathes. With the New Rockwell Delta Wood Turning Duplicator, you get all these benefits:

Maximum Accuracy With Exact Duplication . . . you can reproduce complicated turnings *perfectly*—patterns, balusters, lamps, table and chair legs—up to 4" in diameter.

Complete Safety . . . firmly held on the lathe, the Duplicator has minimum tool overhang for *safe, smooth* operation.

Increases Student Participation . . . with the New Rockwell Delta Wood Turning Duplicator, there's *less* time spent per student on the lathe, *more* opportunity to learn.

Minimum Stock Spoilage . . . the Duplicator *eliminates* costly mistakes, thus, there are *no more* discarded turnings.

SPECIFICATIONS

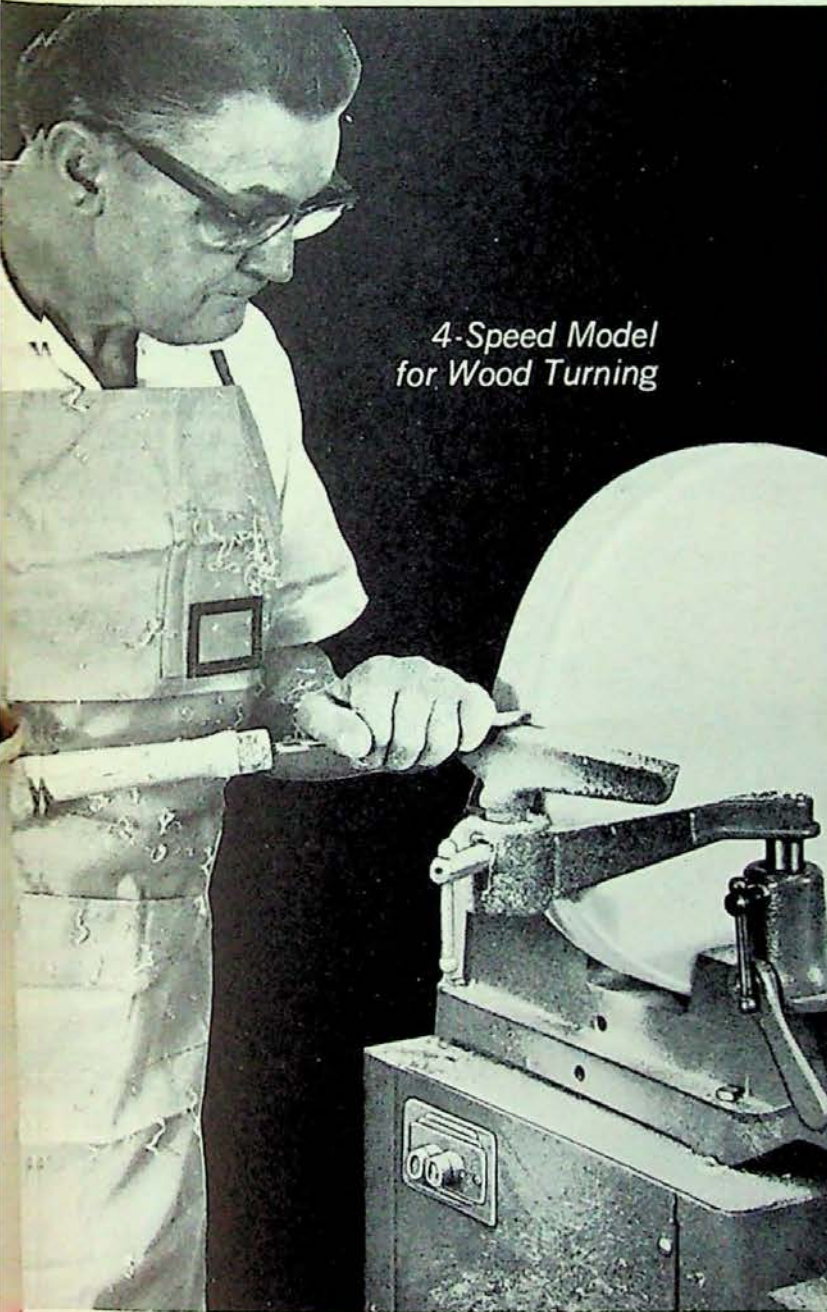
Maximum Diameter	4"
Maximum Length	28½"
Cutting Tool Bit (Standard)	
Ground to Shape	¼" x ¼"
Shipping Weight	24 lbs.

No. 46-840 Wood Turning Duplicator complete.

ROCKWELL DELTA

12" Standard Duty WOOD LATHE

Select From Two Gap Bed Models — 4 Speed or Variable Speed



4-Speed Model
for Wood Turning

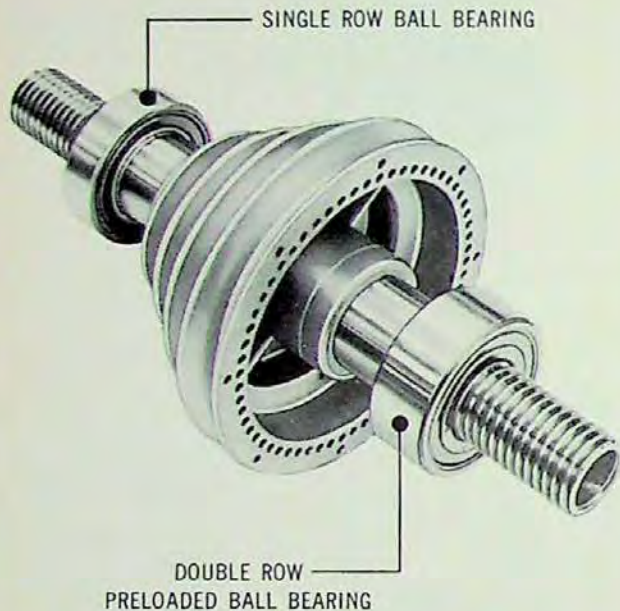


Variable-Speed Model
for Wood Turning,
Metal Spinning,
Light Metal Turning
and Plastics

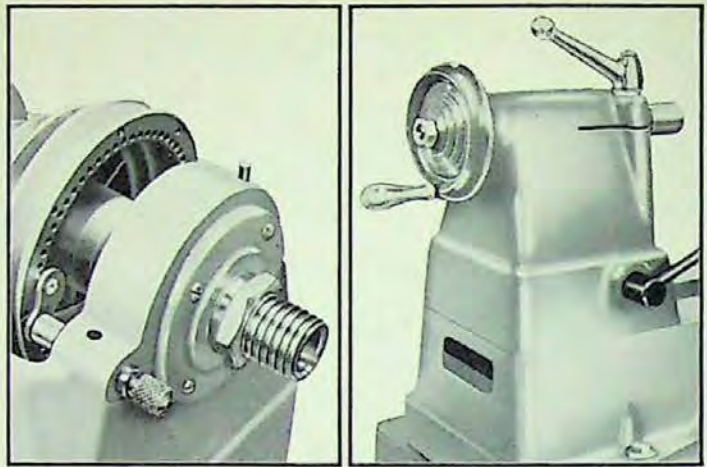
No matter which model you select, you get top quality performance with big capacity . . . 12" over bed
. . . 16" over gap . . . extra large using outboard spindle . . . plus 39" between centers ■ Famous Delta
Quality Construction: Smooth operating variable speed drive . . . large, double row, preloaded head-
stock bearing . . . convenient controls . . . massive bed . . . universal tool support . . . and many more.

ROCKWELL DELTA 12" STANDARD DUTY WOOD LATHE

**DELTA QUALITY FEATURES
THAT ADD UP TO MORE
VALUE FOR EVERY USER!**

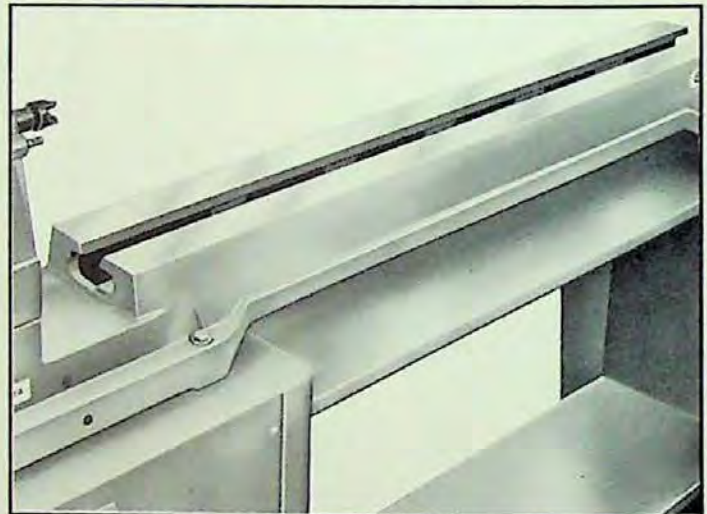


Rugged Headstock Construction—Spindle drive is placed between inboard and outboard bearings, reducing spindle whip to a minimum. A double row, preloaded, sealed-for-life ball bearing at the inboard end permits maximum thrust for heavy turning and metal spinning... "floating" ball bearing construction on outboard end allows for expansion as spindle warms up.

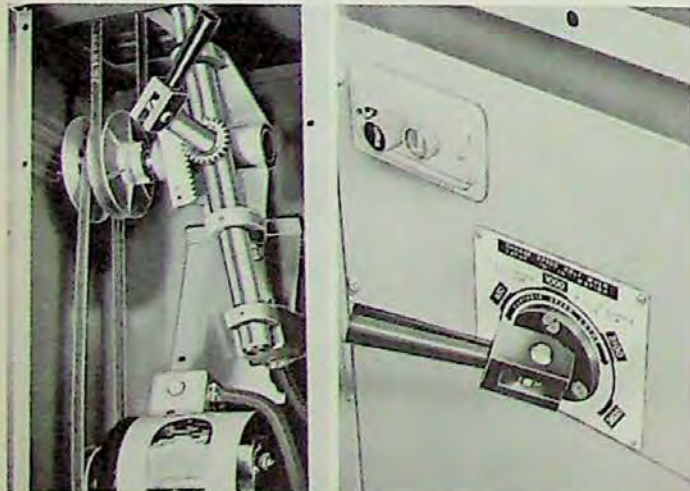


(Left) Famous Indexing Mechanism—Two rows of holes in headstock pulley—8 and 60—can be engaged quickly by the unique indexing pin. Now, you can obtain the maximum number of index divisions for reeding and fluting.

(Right) Modern Tailstock Controls—Fast operating cam clamp quickly locks massive tailstock to bed. Positive, 360° wrap-around clamp firmly holds ram in position selected. Non-jamming No. 2 M.T. ram automatically ejects centers when retracted. Ram travels a full 2 1/4" and is graduated in 1/16ths.

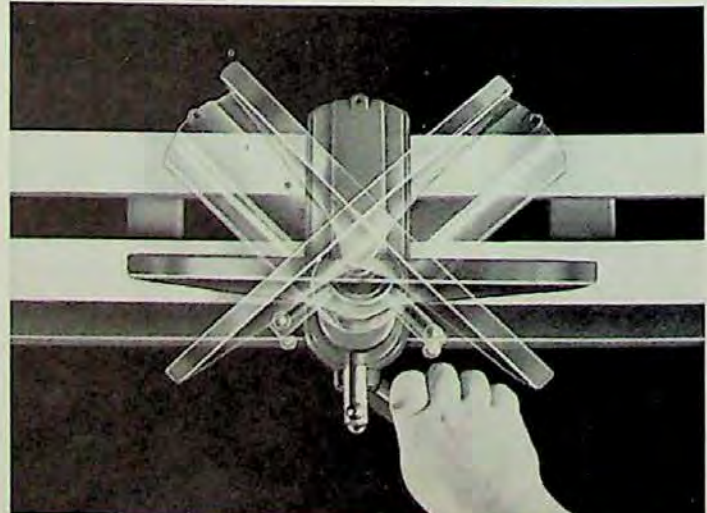


Massive Bed—Made of fine grained cast iron, bed is scientifically ribbed and ruggedly constructed to minimize vibration. Bed and headstock are precision ground for perfect alignment, assuring high quality lathe performance.



(Left) Smooth Operating Variable Speed Drive—Simply constructed, dual belt drive has few operating parts. Ball bearing Jack shaft, that raises and lowers quickly by means of a rack and pinion, always keeps belts in perfect alignment. This assures higher power transmission efficiency—1/2 HP motor does work of 3/4 HP motor required with "old-fashioned," spring-loaded drives.

(Right) Convenient Controls—Variable speed control lever is conveniently placed for quick selection of any speed from 340 to 3600 RPM. When "pushed in," lever locks at desired speed. Adjacent push button switch has a shrouded start button to prevent accidental starts and a protruding stop button for fast emergency stops.

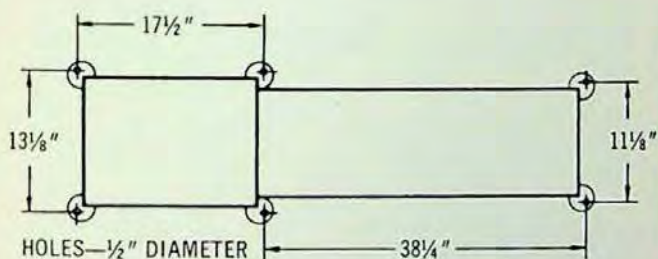


Universal Tool Support—Exceptionally handy and fast in action. Heavy and substantial, it locks to the bed at any desired position by means of the convenient lever at the front where it does not interfere with the work.

ROCKWELL DELTA 12" STANDARD DUTY WOOD LATHE



No. 46-525
12" Variable Speed Wood Lathe
On Cabinet With Electricals.



Location of Floor Mounting Holes



No. 46-200
12" 4-Speed Wood Lathe
Shown With Accessory 50-150 Cabinet
and Electricals.

**A Quality Built,
Big Capacity Lathe at an
Exceptionally Low Price!**

Its many fine features is only one of the reasons why the Rockwell Delta 12" Standard Duty Wood Lathe meets the needs of industry, commercial shops and schools so well.

To appreciate its true value, investigate its BIG CAPACITY... rugged construction... safety of design... and its great versatility (more than 50 Rockwell Delta lathe accessories are available). Then, you will agree that it is the BIGGEST VALUE in its class.

Whatever your needs—Variable Speed or 4-Speed—let us "performance-prove" this fine Rockwell Delta Quality Lathe for you today.

MACHINE DATA

Capacities:

Swing Over Bed	12"
Swing Over Bed Gap	16" Diameter for 2 1/2" Stock
Distance Between Centers	39"

Speeds:

Variable Speed Model	340 to 3600 RPM
Four Speed Model	915, 1380, 2150, 3260 RPM

Spindle:

Nose-Inboard	1"—8 RH Thread
Nose-Outboard	1"—8 LH Thread
Hole (Completely Through Spindle)	5/8"

Headstock and Tailstock Tapers

Ram Travel

Height—Centerline of Spindle to Floor

Overall Dimensions:

Height.....45 1/4"; Width.....16 1/2"; Length.....60"

Approximate Shipping Weight (Floor Models)

STANDARD EQUIPMENT

Basic Wood Lathes include a spur center, cup center, tool support base, 12" tool support, 6" tool support, 3" face plate, motor pulley and V-belt. Variable-Speed Model also includes a cabinet and two V-belts.

CATALOG LISTING

4-SPEED MODEL

No. 46-200 Basic Machine Without Cabinet. Includes 933 spur center, 934 cup center, 1461 tool support base, 692 12" tool support, 46-805 6" tool support, 936 3" face plate, 4-step motor pulley (5/8" bore) and 49-094 V-belt (81" O.C.). Without motor and switch. 135 lbs.

NOTE: The above lathe cannot be used with the Variable Speed Cabinet.

No. 50-150 Cabinet, steel, sturdily constructed, totally encloses motor and drive, has hinged motor plate for easy speed changes, and two shelves. 110 lbs.

No. 41-732 Motor Pulley, 4-step, 1/2" bore. 1 1/8 lbs.

No. 41-733 Motor Pulley, 4-step, 5/8" bore. 1 1/8 lbs.

No. 41-734 Motor Pulley, 4-step, 3/4" bore. 1 1/8 lbs.

No. 46-201 Basic Machine With Cabinet. Includes 46-200 Lathe with 50-150 Cabinet. Without motor and switch. 245 lbs.

VARIABLE-SPEED MODEL

No. 46-525 Basic Machine With Cabinet. Includes 933 Spur Center, 934 Cup Center, 1461 Tool Support Base, 692 12" Tool Support, 46-805 6" Tool Support, 936 3" Face Plate, 3 1/2" O.D. motor pulley (5/8" bore), 49-167 V-belt (45 1/8" O.C.) and 51-008 V-belt (47 1/8" O.C.). Without motor and switch. 305 lbs.

NOTE: Variable-speed model cannot be furnished without cabinet.

No. 41-052 Motor Pulley, 3 1/2" diameter, 1/2" bore. 1 lb.

No. 41-053 Motor Pulley, 3 1/2" diameter, 5/8" bore. 1 lb.

No. 41-054 Motor Pulley, 3 1/2" diameter, 3/4" bore. 1 lb.

ROCKWELL DELTA INDUSTRIAL WOODWORKING MACHINES

ROCKWELL DELTA 12" STANDARD DUTY WOOD LATHE

CATALOG LISTING—Continued

MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	CYCLES AND MOTOR RPM	VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, ½ Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	25	49-853
	Push Button Switch and Magnetic Starter	TEFC	60—1725	115/230	32	49-854
Single Phase, ¼ Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	30	49-855
	Push Button Switch and Magnetic Starter	TEFC	60—1725	115/230	37	49-856
Three Phase, ½ Horsepower	Push Button Switch Only	TEFC	60—1725	230/460	29	49-857
	Push Button and Overload Switches	TEFC	60—1725	230/460	32	49-858
	Push Button Switch and Magnetic Starter	TEFC	60—1725	230/460	35	49-859
	Push Button Switch and Magnetic Starter w/115V Transformer	TEFC	60—1725	230/460	39	49-860
	Push Button Switch Only	TEFC	60—1725	230/460	32	49-861
Three Phase, ¼ Horsepower	Push Button and Overload Switches	TEFC	60—1725	230/460	35	49-862
	Push Button Switch and Magnetic Starter	TEFC	60—1725	230/460	38	49-863
	Push Button Switch and Magnetic Starter w/115V Transformer	TEFC	60—1725	230/460	42	49-864
	Push Button Switch Only	TEFC	60—1725	230/460	32	49-861

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 208 V or 460 V is specified. Power cord and plug supplied

for single phase only. Motors and motor controls for Rockwell Delta 12" Standard Duty Wood Lathes may be ordered unmounted. For listing, see Sections P and Q.

SLOW-START SWITCH KITS (Factory Mounted and Wired)

If Slow-Start Feature is desired, order one of the following kits in addition to the machine, motor and control.

No. 46-459 For Use With Manually Controlled Lathes, single phase, 115/230 V, 50/60 cy, or three phase, 208-230 V, 60 cy.

No. 46-853 For Use With Magnetically Controlled Lathes, single phase, 115 V, 60 cy or 208-230/460 V with 115 V transformer.

No. 46-854 For Use With Magnetically Controlled Lathes, single phase, 230 V, 60 cy, or three phase, 208-230 V, 60 cy.

MAKE LATHE OPERATIONS SAFER WITH DELTA'S SLOW-START FEATURE!

(Easy To Mount On Lathes In The Field Only)

No. 46-460 Slow-Start Switch Kit For Manual Or Magnetic Control. For use with single phase, three phase and DC motors up to 1 HP, AC-DC, 115-230 V. Kit includes limit switch with operating mechanism, cable, switch cover and lock assembly. When using this switch kit for magnetic control, No. 49-399 or 49-508 Relay is required. For Variable Speed Models only.

Here is How the Slow-Start Feature Operates...



(Left) This accessory provides maximum safety for novice lathe operators in schools, training institutions, etc. With it the lathe can be started only at the slowest speed. Above, the shop instructor locks hood after pressing switch button to "on" position, ready for student's use. (Right) Now, student starts lathe by merely pulling variable speed control lever to right. When desired speed is obtained, he pushes lever in, locking it in position. Then, he proceeds to operate the lathe.



(Left) Should a danger signal suddenly appear, the operator's first reaction would be to stop the lathe. This he does by pressing the "stop" button. Now, the lathe cannot be started again by actuating the variable speed control lever since the current is off. The locked hood also makes the "start" button inaccessible.

(Right) Next, the difficulty is determined, either by the student or the instructor, and corrected. Then, the instructor must unlock the hood, press the "start" button and lock the hood again before the student can proceed.

NOTE: See Section N4 for complete range of wood lathe accessories.

NEW! ROCKWELL DELTA WOOD TURNING DUPLICATOR

For Safe, Accurate Duplication of Complex Wood Turnings



- Used on Delta and Other Wood Lathes
- Takes Only a Few Minutes to Install

Now! You can teach your students how to reproduce one or any number of intricate wood turnings exactly on your 11" or 12" wood lathes. With the New Rockwell Delta Wood Turning Duplicator, you get all these benefits:

Maximum Accuracy With Exact Duplication . . . you can reproduce complicated turnings perfectly—patterns, balusters, lamps, table and chair legs—up to 4" in diameter.

Complete Safety . . . firmly held on the lathe, the Duplicator has minimum tool overhang for safe, smooth operation.

Increases Student Participation . . . with the New Rockwell Delta Wood Turning Duplicator, there's less time spent per student on the lathe, more opportunity to learn.

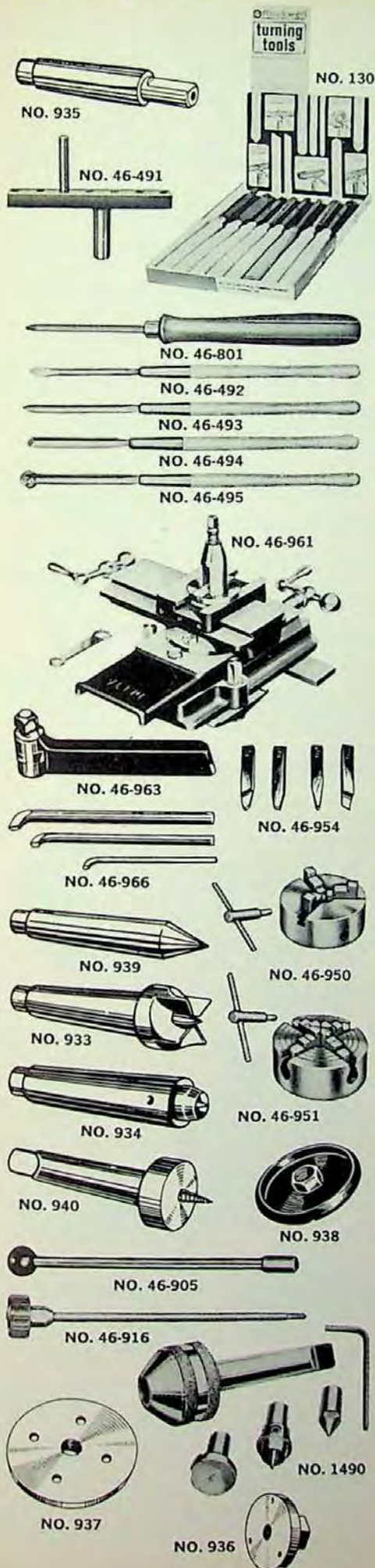
Minimum Stock Spoilage . . . the Duplicator eliminates costly mistakes, thus, there are no more discarded turnings.

SPECIFICATIONS

Maximum Diameter 4"
 Maximum Length 28½"
 Cutting Tool Bit (Standard)
 Ground to Shape ¼" x ¼"
 Shipping Weight 24 lbs.

No. 46-840 Wood Turning Duplicator complete.

ROCKWELL DELTA WOOD LATHE ACCESSORIES



WOOD TURNING TOOLS

Complete set of eight basic tools. Made of a special, high-grade alloy steel with precision ground cutting edges. Handles are extra long and of choice hardwoods. Heavy gauge metal ferrules firmly join the 10 $\frac{1}{4}$ " long handles and steel tongues to give long tool life. Blades are 6" long—overall length, 17". 1 $\frac{1}{2}$ lbs.

- No. 121 1" Skew.
- No. 124 $\frac{1}{2}$ " Skew.
- No. 122 $\frac{3}{4}$ " Gouge.
- No. 126 $\frac{1}{2}$ " Gouge.
- No. 123 $\frac{1}{4}$ " Gouge.
- No. 125 $\frac{1}{8}$ " Parting Tool.
- No. 127 $\frac{1}{2}$ " Spear Point.
- No. 128 $\frac{1}{2}$ " Round Nose.
- No. 130 Set of above eight chisels. 6 lbs.

TUNGSTEN ALLOY TIPPED TURNING CHISELS

For cutting metals such as brass, bronze, aluminum, and mild steel free-hand as easily as wood and plastic. Two styles—square nose and round nose. Two sizes— $\frac{9}{64}$ " for fine work and $\frac{17}{64}$ " for large, heavy work. Have an extremely long life with little or no sharpening required. 1 $\frac{1}{2}$ lbs.

- No. 46-801 Square Nose, $\frac{9}{64}$ ".
- No. 46-802 Round Nose, $\frac{9}{64}$ ".
- No. 46-803 Square Nose, $\frac{17}{64}$ ".
- No. 46-804 Round Nose, $\frac{17}{64}$ ".

METAL SPINNING TOOLS

Made of exceptionally high grade hardened steel to assure long spinning edge life. Blades have specially designed tangs which wedge firmly into the handles. Overall length, approximately 30".

- No. 46-492 Flat Tool.
- No. 46-493 Pointed Tool.
- No. 46-494 Cut-Off Tool.
- No. 46-495 Beading Tool.
- No. 46-496 Set of above four tools.
- No. 46-491 Tool Rest. For use with metal spinning tools. Has multiple openings for positioning of fulcrum pin.

METAL TURNING ACCESSORIES

When equipped with metalworking accessories, your lathe can turn non-ferrous metals, do drilling and boring operations, etc.

No. 46-961 Compound Slide Rest. Accurately built with dovetail ways and graduated compound base that rotates 360°. Feed screws are covered to protect them from dirt and chips—fitted with micrometer sleeves, accurately graduated. With tool post, rocker, washer and wrench. 32 lbs.

HOLDER, BORING BARS, TOOL BITS

For use with the No. 46-961 Slide Rest. Holder is extremely useful and many uses can be found for it. Holds both boring bars and $\frac{1}{4}$ " square bits. Holder has two holes to facilitate holding tool. Made of case hardened tool steel.

No. 46-963 Holder for Boring Bar and Tool Bits. 1 $\frac{1}{2}$ lbs.

No. 46-966 Boring Bars, set of three, $\frac{1}{8}$ ", $\frac{3}{16}$ " and $\frac{1}{4}$ ". $\frac{1}{2}$ lb.

No. 46-954 Tool Bits, set of four, high-speed steel, $\frac{1}{4}$ " x $\frac{1}{4}$ " x $1\frac{1}{8}$ ", includes roughing, finishing, right corner and left corner. 1 lb.

No. 939 60° Plain Center for metal turning, hardened and ground. $\frac{3}{8}$ lb.

CHUCKS

No. 46-950 4", 3-Jaw Universal Type Threaded 1"—8 R. H. Has three internal and three external jaws. 8 lbs.

No. 46-951 4", 4-Jaw Independent Type Threaded 1"—8 R. H. Has one set of jaws, reversible for internal or external work. 8 lbs.

CENTERS

All with No. 2 M.T. shank.

No. 933 Spur, Drive. For headstock. Has replaceable center pin, hardened and polished. $\frac{3}{8}$ lb.

No. 934 Cup, Dead. For tailstock. Has replaceable center pin, hardened and polished. $\frac{3}{8}$ lb.

No. 940 Screw Center. Excellent for turning small, delicate work. With $1\frac{1}{16}$ " long replaceable screw. Has $1\frac{1}{2}$ " diameter face. $\frac{1}{2}$ lb.

No. 968 Geared Chuck with key. For drilling on the lathe. 0 to $\frac{1}{2}$ " capacity. 2 $\frac{1}{2}$ lbs.

No. 935 Adapter. With $\frac{1}{2}$ " x $1\frac{1}{8}$ " plain shank. Permits use of all attachments with $\frac{1}{2}$ " bore. $\frac{3}{8}$ lb.

No. 1490 Ball Bearing Center with three replaceable centers and wrench. Husky and true running with no chatter. Has double-row, sealed, lubricated-for-life bearings to take exceptionally heavy radial and thrust loads.

KNOCKOUT BAR

No. 46-905 Knockout Bar, 10 $\frac{7}{8}$ " from end of tip to ball. For removing centers and other attachments. 2 lbs.

DRAW BOLTS

For holding No. 2 M.T. attachments, including sanding drums and screw centers. With $\frac{1}{4}$ "—20 thread. 1 lb.

No. 46-916 Draw Bolt with $\frac{1}{4}$ "—20 thread for hollow spindles which are 13 $\frac{1}{2}$ " long. For 12" Heavy Duty Wood Lathe.

No. 46-850 Draw Bolt with $\frac{1}{4}$ "—20 thread for hollow spindles which are 9 $\frac{3}{4}$ " long. For 12" Standard Duty Wood Lathe.

FACE PLATES AND HAND WHEEL

With 1"—8 thread.

No. 936 Face Plate, 3" diameter with R.H. thread. For small and medium face plate work. 1 $\frac{1}{2}$ lbs.

No. 937 Face Plate, 6" diameter with R.H. and L.H. thread to fit spindles with 1"—8 thread. For large face plate work. 3 lbs.

No. 938 Hand Wheel, 5" diameter. Fits L.H. end of lathe spindle with 1"—8 thread. For quick positioning of work or rapid stopping of lathe. 3 lbs.

ROCKWELL DELTA WOOD LATHE ACCESSORIES

SANDING DRUMS

No. 163 Abrasive Drum, 3 x 3", with No. 2 M.T. shank. 2½ lbs.

No. 164 Abrasive Drum, 1¾ x 2", with No. 2 M.T. shank. 1¾ lbs.

SANDING SLEEVES

3" diameter x 3" Sleeves. Package of 6. For use with No. 163 Sanding Drum.

No. 831 Coarse Garnet. No. 1½ grit. ½ lb.

No. 832 Medium Garnet. No. ½-60 grit. ½ lb.

No. 833 Aluminum Oxide (for metal). No. 1-50 grit. ½ lb.

1¾" Diameter x 2" Sleeves. Package of 6. For use with No. 164 Sanding Drum.

No. 836 Coarse Garnet. No. 1½-40 grit. ¼ lb.

No. 837 Medium Garnet. No. ½-60 grit. ¼ lb.

No. 838 Aluminum Oxide (for metal). No. 1-50 grit. ½ lb.

TOOL RESTS AND BASES

Heavy and strong with 1" diameter shank.

No. 690 Tool Rest. 4" wide. 1¾ lbs.

No. 46-805 Tool Rest. 6" wide. 2 lbs.

No. 692 Tool Rest. 12" wide. 3 lbs.

No. 46-431 Calibrated Tool Rest. 12" wide. Has a calibrated, hardened steel insert for making accurate measurements and divisions on work. 3½ lbs.

No. 694 Tool Rest. 24" wide. For extra long turnings. Has two 1" diameter shanks. Requires an extra 1461 Tool Support Base for use on lathe. 7 lbs.

No. 695 Right Angle Tool Rest. Especially useful for face plate work. 3 lbs.

No. 1461 Tool Rest Base. Has V-shaped hole for ½" to 1" diameter shank tool rests. With universal locking mechanism. 9 lbs.

No. 46-430 Off-Set Tool Rest Base. With V-shaped hole for ½" to 1" diameter shank tool rests. For face plate turning on extra large stock over the gap. 5 lbs.

No. 1468 Steady Rest. Capacity up to 2¼" diameter. Prevents spring and vibration when working long, thin stock. Has heavy cast iron base with sliding arms of steel. 4 lbs.

FLOOR STAND

No. 697 Floor Stand. Heavy and rigid. For face plate work on the outboard end of the spindle. Has V-hole to accommodate tool support with ½" to 1" shank. 43 lbs.

MACHINE SPUR BITS

Made of selected steel. Have brad point and two cutting spur lips. All with ½" diameter shank. ⅝ lb.

No. 804 ¼". No. 808 ½".

No. 805 ⅝". No. 809 ⅞".

No. 806 ⅞". No. 810 1".

No. 807 1 1/16". No. 812 1 1/8".

No. 818 Complete set of eight machine spur bits.

GRINDING AND BUFFING ACCESSORIES

With ½" hole. Use with No. 144 and 145 Arbors.

No. 3101 Grinding Wheel, ½" x 6" diameter, 46 grit, coarse, aluminum oxide. 1¾ lbs.

No. 3102 Grinding Wheel, ½" x 6" diameter, 60 grit, fine, aluminum oxide. 1¾ lbs.

No. 23-620 Grinding Wheel, ⅝" x 6" diameter, 36 grit, coarse, aluminum oxide. 2 lbs.

No. 23-621 Grinding Wheel, ⅝" x 6" diameter, 60 grit, fine, aluminum oxide. 2 lbs.

No. 3113 Wire Brush, 6" diameter, coarse, set of two. 1 lb.

No. 3114 Wire Brush, 6" diameter, fine, set of two. 1 lb.

No. 3115 Fiber Brush, 6" diameter, Tampico fiber, set of two. 1 lb.

No. 4005 Buffing Wheel, ½" x 6" diameter, circular stitching. 1 lb.

SCREW-ON ARBORS FOR ½" HOLE ACCESSORIES

No. 144 Screw-On Arbor, with 1"-8 R.H. thread. For mounting grinding wheels, buffing wheels, wire brushes, etc. 1 lb.

No. 145 Screw-On Arbor, Same as No. 144, except with 1"-8 L.H. thread 1 lb.

BUFFING COMPOUNDS

Giant one pound bars of the most common compounds used for buffing, polishing and cleaning all types of materials.

No.	Description	Use
4007	Rouge (Red)	For gold, silver and other precious metals
4008	Rouge (White)	For nickel, chromium, iron, stainless steel, cast brass and aluminum
4009	Emery (Black)	For removing rust, scale and tarnish
4010	Tripoli (Brown)	For aluminum, brass, copper, pewter, wood, plastic

No. 4004 Buffing Compound Kit. Consisting of ¼ lb. bars of compounds: Rouge Red, Rouge White, Emery Black and Tripoli Brown. Weight 1 lb.

No. 4003 Buffing Wheel and Compound Kit. Nos. 4005 and 4004 combined. Weight 2 lbs.

DISC SANDING ACCESSORIES

No. 46-934 Sanding Disc with one garnet disc. 8½" diameter. With 1"-8 R.H. thread. 3 lbs.

ABRASIVE PAPER DISCS

Garnet, package of 12, 8½" diameter, fine and coarse, for use with 46-934 Sanding Disc. 2 lbs.

No. 46-815 Garnet Paper Disc, 40 grit, coarse.

No. 46-817 Garnet Paper Disc, 80 grit, fine.

No. 49-503 Disc Adhesive. Special quick drying type for changing from one abrasive disc to another in a few minutes. 2 lbs.

No. 34-226 Miter Gage. With stop rods and clamp. 3 lbs.

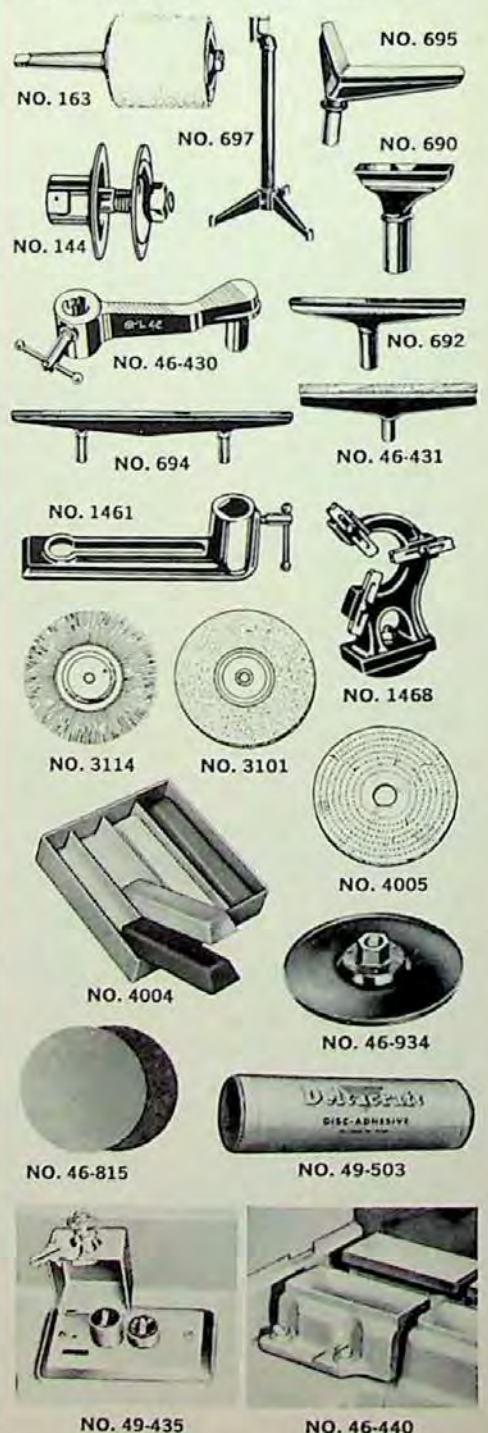
GAP FILLER BLOCK

Provides rigid tool support for metal spinning, thin face plate turnings, any work that must be done right at the headstock. Can be mounted on a bench beyond tailstock end of lathe bed for extra long turnings. The No. 697 Floor Stand is recommended for this operation.

No. 46-440 Filler Block for mounting in gap or beyond bed of 12" Heavy Duty Wood Lathes bearing Serial No. 124-9001 and higher. 6 lbs.

LOCK TYPE SWITCH COVER

No. 49-435. Excellent for use as a safety lock out device for switches with push button controls. Used on circular saws, drill presses, lathes, etc. ½ lb.

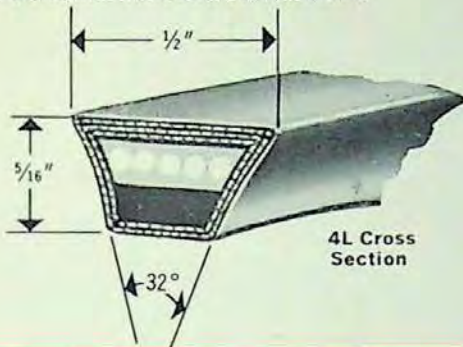


ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA ACCESSORIES AND ATTACHMENTS FOR ALL SHOPS

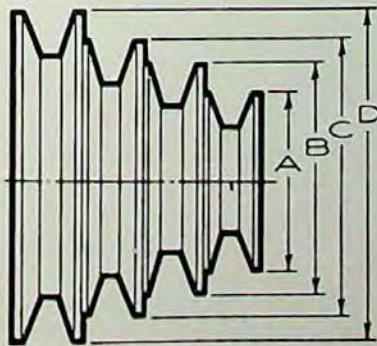
V-BELTS (4L Type)

Designed to make perfect contact with side of V-groove, these V-belts transmit maximum power with minimum slip. Cords are saturated with pure liquid rubber, imbedded in special rubber stock which resists fatigue and carries off heat. All belts are heat and oil resistant.



CAT. NO.	OUT. CIR.	CAT. NO.	OUT. CIR.
49-162	24 1/8"	SC49-145	46 1/16"
271	25 1/8"	*289	46 1/8"
*49-124	26 1/16"	51-007	46 1/8"
49-178	26 1/8"	VF51-008	47 1/8"
VF49-170	27 1/8"	453	47 3/8"
49-177	27 1/8"	51-009	48 1/8"
51-004	28"	*294	51 1/8"
272	28 3/8"	49-142	51 1/8"
†49-150	28 3/4"	501	52"
*291	29 1/8"	510	53 1/4"
49-101	29 1/8"	520	54 1/8"
49-105	30 3/8"	530	55 3/8"
†49-121	30 3/8"	49-144	56 1/8"
287	31 1/8"	49-173	57 1/8"
284	31 3/8"	560	58 29/32"
273	32 1/8"	49-130	58 1/8"
49-149	33 1/8"	49-172	59 1/8"
331	34 1/4"	†49-140	59 1/2"
49-153	34 1/4"	49-141	60 1/8"
49-152	36 1/8"	49-148	62 1/8"
340	36 1/2"	588	63 3/8"
49-195	37 1/8"	49-146	65 1/8"
49-115	39 3/8"	644	66 3/8"
49-154	40 1/8"	49-096	68 3/8"
387	40 1/2"	49-094	81 1/16"
49-168	41 1/8"	49-179	94 3/16"
49-196	41 1/2"		
410	42 1/8"		
430	44 1/8"		
*51-013	45 1/16"		
VF49-167	45 1/8"		

VF—Vibration free. †Matched set of two.
 *Matched set of three. ‡Matched set of four.
 SC—Specially constructed.



STEP PULLEYS FOR 4L CROSS SECTION BELTS
 (5/8" and 3/4" Bore Contain 3/16" Keyways)

OLD CAT. NO.	CAT. NO. (1/2" BORE)	CAT. NO. (3/8" BORE)	CAT. NO. (3/4" BORE)
718	41-712	41-713	41-714
720	41-722	41-723	41-724
932	41-732	41-733	41-734
985	41-702	41-703	41-704

SINGLE GROOVE PULLEYS FOR 4L CROSS SECTION BELTS (5/8" and 3/4" Bore Contain 3/16" Keyways)

SINGLE GROOVE PULLEY O.D.	CAT. NO. (1/2" BORE)	CAT. NO. (3/8" BORE)	CAT. NO. (3/4" BORE)
2"	41-002	41-003	41-004
2 1/4"	41-012	41-013	41-014
2 1/2"	41-022	41-023	41-024
2 3/4"	41-032	41-033	41-034
3"	41-042	41-043	41-044
3 1/2"	41-052	41-053	41-054
4"	41-062	41-063	41-064
4 1/2"	41-072	41-073	41-074
5"	41-082	41-083	41-084
5 1/2"	41-092	41-093	41-094
6"	41-102	41-103	41-104
6 1/2"	41-112	41-113	41-114
7"	41-122	41-123	41-124
*7 1/2"	.....	.....	41-134
8"	41-142	41-143	41-144
10"	41-152	41-153	41-154
12"	41-162	41-163	41-164

*A special balanced cast iron pulley for the No. 1340 Heavy Duty Wood Shaper. Available only with 3/4" bore.

SPECIAL HEAVY DUTY SINGLE AND MULTIPLE GROOVE PULLEYS

O.D.	GROOVES	CAT. NO. (5/8" BORE)	CAT. NO. (3/4" BORE)	CAT. NO. (7/8" BORE)	CAT. NO. (1" BORE)	CAT. NO. (1 1/8" BORE)	KEYWAY	BELT CROSS SECTION
3"	1	41-203					3/16"	"4L"
3"	3				41-637		3/4"	"4L"
3"	3		41-644				3/16"	"4L"
3 1/4"	4			41-746	41-747		3/4"	"4L"
3 1/2"	2			41-515			3/4"	"3V"
3 3/4"	2	41-504	41-505				3/16"	"4L"
3 3/4"	2				41-517		3/4"	"3V"
6"	3				41-627		3/4"	"4L"
3 3/4"	3				41-607		3/4"	"3V"
7"	3				41-617		3/4"	"4L"
7"	1	41-174	41-175	41-006	41-177		3/4"	"A"
8 1/2"	1	41-194	41-195	41-016	41-197		3/4"	"A"

FOUR-STEP PULLEYS

Made for same size V-belts as single groove pulleys. May be used in pairs as listed in table below and will provide speeds listed when used with 1725 rpm motor. All available with 1/2", 5/8" and 3/4" bores. 5/8" and 3/4" bores have a 3/16" keyway.

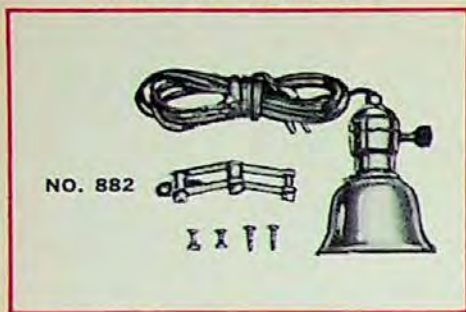
NUMBER OF PULLEY	PULLEY (Outside) DIMENSIONS—INCHES			
	A	B	C	D
41-712 41-713 41-714	1.750	2.230	2.700	3.150
41-722 41-723 41-724	3.150	3.620	4.060	4.500
41-732 41-733 41-734	2.500	3.156	3.875	4.500
41-702 41-703 41-704	2.156	3.109	4.250	5.250

DRIVER	DRIVEN	SPEEDS			
41-712 41-713 41-714	41-712 41-713 41-714	905	1410	2100	3340
41-722 41-723 41-724	41-722 41-723 41-724	1180	1520	2000	2530
41-712 41-713 41-714	41-722 41-723 41-724	610	910	1255	1725
41-722 41-723 41-724	41-712 41-713 41-714	1725	2370	3290	4900
41-732 41-733 41-734	41-732 41-733 41-734	915	1380	2150	3260
41-702 41-703 41-704	41-702 41-703 41-704	656	1240	2400	4500

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA ACCESSORIES AND ATTACHMENTS FOR ALL SHOPS

LAMP ATTACHMENTS



No. 882 For use with the drill press, band saw, scroll saw and other machines. Furnishes every machine with its own illumination, independent of the shop lighting system. Uses std. 15 or 25-watt bulb. 1½ lbs.



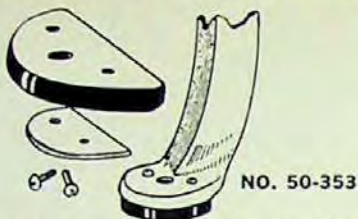
No. 25-857 Deluxe Flexible Type for 115 V. For use on 20" Band Saws, 6" Tool Grinder, TOOLMAKER Grinder, drill presses, metal lathes and in other shop locations. With 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.

LINE-SHAFT HANGER

No. 49-370 This sturdy, practical Line-Shaft Hanger is self-aligning in every direction and is adjustable up and down from 4 to 5" in height. Oil wells hold a large supply of lubricant to keep bronze bearings properly lubricated. For ¾" shafting only. 6 lbs.

FLEXIBLE COUPLINGS

No. 49-379 Necessary where motors are connected directly to the end of line shafts or to the shafts of machines. One side has ¾" bore to suit line shafts, other side bored to ½, ⅝ or ¾". Specify bore when ordering. 1 lb.

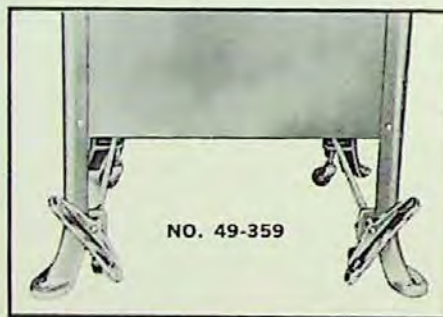


RUBBER FEET FOR STEEL STANDS
No. 50-353 Provide smoother, quieter operation of machines. With metal plates to fit into recesses of stand feet. Drilled and tapped for machine screws. Cannot be used with Delta Retractable Casters.

Set of four rubber feet with plates and screws. 1 lb.

RETRACTABLE CASTER SETS

Make your Rockwell Delta Industrial Machines mobile and increase their usefulness to your operation. With Retractable Casters on your Rockwell Delta Machines, you can easily wheel them about your plant or shop, right to the job site. 13 lbs.



No. 49-359 Retractable Caster Set.
Fits Open Steel Stand or Legs:

Used On	Machines Used On
50-113 (Legs)	"PLUS 105" 9" Radial Saw
50-109 (Stand)	"DELUXE 105" 10" Radial Saw
50-435 (Stand)	No. 31-705 Combination Belt and Disk Finishing Machine

No. 49-360 Retractable Caster Set.

Fits Open Steel Stand:

Stand Used On	Machines Used On
50-308	No. 34-650 9" Saw—4" Jointer Combination

No. 49-362 Retractable Caster Set.

Fits Open Steel Stand:

Stands Used On	Machines Used On
50-432	No. 31-105 12" Disk Sander
50-810	No. 34-611 9" Circular Saw
50-821	11" Drill Press, Radial D.P., Motorized Miter Box
50-305	No. 43-111 Light Duty Wood Shaper.

No. 49-363 Retractable Caster Set.

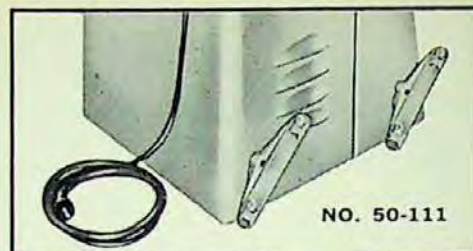
Fits Open Steel Stand:

Stands Used On	Machines Used On
50-106	Sander/Grinder
50-304	4" Precision Jointer
50-310, 50-717	24" Scroll Saw
50-406	No. 31-505 6" Belt Sander
50-656	No. 37-221 6" Deluxe Jointer
50-891	Nos. 28-297 and 28-387 14" Band Saws

No. 49-364 Retractable Caster Set.

Fits Open Steel Stand:

Stands Used On	Machine Used On
50-315	10" Bench Saw



No. 50-111 Retractable Caster Set.

Furnished with built-in levelling screws that assure a level base at all times. Fits Totally Enclosed Steel Stand:

Stands Used On	Machines Used On
50-121	No. 37-225 6" Deluxe Jointer
50-122	Nos. 28-285 and 28-390 14" Band Saws
50-125	No. 31-515 6" Belt Sander
50-126	No. 31-110 12" Disk Sander
50-127	No. 34-615 9" Circular Saw

No. 50-119 Retractable Caster Set.

Fits Cabinet Type Stand:

Stand Used On	Machines Used On
50-120	"DELUXE 105" 10" Radial Saw "PLUS 105" 9" Radial Saw

No. 49-324



GRAY MACHINE ENAMEL

A high quality gray enamel that is color blended to match the production finish of Rockwell-built Delta Industrial Machines. Ideal for covering scratches, nicks, chips, etc., to make machine surfaces look like new. Prevents bare surfaces from rusting.

No. 49-333 Quart size. 5 lbs.

No. 49-334 Gallon size. 14 lbs.

No. 49-323 Push Button Self-Spray Can (12 av. ozs.) for easy retouching of Delta Industrial Machines. (Dealers note: Single cans are not shipped from the factory. Order No. 49-324.) 1 lb.

No. 49-324 Carton of 12 each of No. 49-323. 12 lbs.

STOP RUST

No. 109 Pint can. 1¼ lbs.

No. 110 Case of 12 pints. 16 lbs.

RUST REMOVER

No. 49-320 Half pint bottle. 1½ lbs. (Dealers note: Single bottles are not shipped from the factory. Order No. 49-304.)

No. 49-304 Carton of 10 each of No. 49-320. 15 lbs.

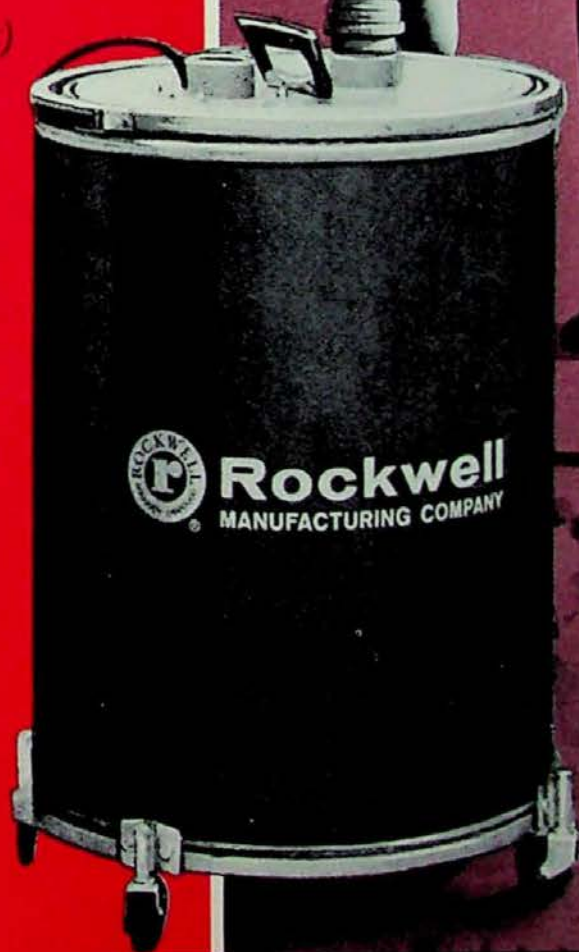
No. 49-322 Gallon bottle. 15 lbs.

GUM AND PITCH REMOVER

No. 4051 Keeps tools clean, new looking. Improves their cutting performance. ½ lb.

ROCKWELL All-Purpose VACUUM CLEANERS

- **VERSATILE VACUUM CLEANERS**
*for hundreds of commercial,
school shop and home applications!*
- **FEATURE A POWERFUL MOTOR—**
*pick up almost anything
(including nails and screws)
with complete safety!*
- **EXTRA LARGE 2-1/2" DIAMETER HOSE**
*handles large chips
and bulky
debris without
clogging!*
- **COMPLETE LINE OF ACCESSORIES**
*available
to make
these cleaners
real time
and
money savers!*



ROCKWELL VACUUM CLEANERS

**DO ALL THESE JOBS
WITH ROCKWELL
VACUUM CLEANERS**



For use with woodworking power tools to collect dust and chips at the source.



For general purpose shop cleaning, picking up saw dust, shavings, filings, and other shop debris.

MACHINE DATA

Motor:

28, 18-gal. Models; 6 Amps, AC-DC, Develops 1 HP

5-gal. Model; 5.2 Amps, AC-DC, Develops ¾ HP

Hose: 2½" Dia. x 6-Foot

Drum Capacity:

MODEL 49-255—28 Gallon

MODEL 49-254—18 Gallon

MODEL 49-253—5 Gallon

Overall Dimensions:

28-Gallon Unit; 25¾" High; 19" Dia.

18-Gallon Unit; 22¾" High; 16" Dia.

5-Gallon Unit; 14¾" High; 12" Dia.

Weight:

28-Gallon Unit; 20 Lbs.

18-Gallon Unit; 18 Lbs.

5-Gallon Unit; 13 Lbs.

FOR DRY PICKUP ONLY

CATALOG LISTING

No. 49-255 All-Purpose Vacuum Cleaner, 28-gallon capacity, complete with 6 amp motor, switch and cord; filter bag, fiber collector drum; 2½" diameter x 6' hose and 3" x 6" rectangular nozzle. 20 lbs.

No. 49-254 All-Purpose Vacuum Cleaner, same as 49-255, except 18-gallon capacity drum. 18 lbs.

No. 49-253 All-Purpose Vacuum Cleaner, 5-gallon capacity, complete with 5.2 amp motor, switch and cord; filter bag; steel collector drum; 2½" diameter x 6' hose and 3" x 6" rectangular nozzle. 13 lbs.



Model 49-255
28-gallon capacity
vacuum cleaner
(casters extra).



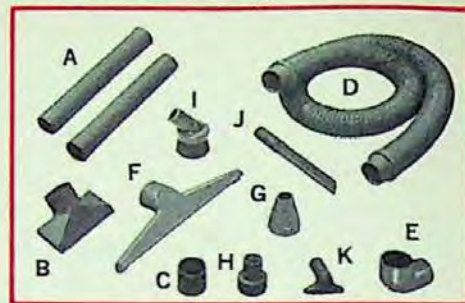
Model 49-254
18-gallon capacity
vacuum cleaner
(casters extra).



Model 49-253
5-gallon capacity
vacuum cleaner
(casters extra).

Rockwell Vacuum Cleaners are ideal for "big job" cleaning chores too bulky or messy for a standard cleaner to handle. Extra powerful, they will handle a wide variety of waste—sawdust, wood chips and shavings, paint and rust chippings, grit and filings—in quantities that would clog an ordinary type cleaner. You can't hurt the motor with anything you pick up because all debris is drawn directly into the collector drum, bypassing the motor. Easy roll casters (optional) increase the mobility of these Rockwell Cleaners.

ACCESSORY EQUIPMENT



ACCESSORIES

A. No. 49-226 Set of Extension Tubes for floor cleaning, 2½" diameter x 45" overall. 2 lbs.

B. No. 49-227 Nozzle, 3" x 6" rectangular. Standard equipment with Vacuum Cleaners. 1 lb.

C. No. 49-228 Hose Coupling. For connecting two 6-foot lengths of 49-229 2½" diameter hose. 1 lb.

D. No. 49-229 Hose, 2½" dia. x 6'. Replacement for standard hose or for use as extension with No. 49-228 Coupling. 3 lbs.

E. No. 49-230 Elbow, 90°, 2½" dia. ¼ lb.

F. No. 49-231 Floor Brush, 14" wide. 2 lbs.

G. No. 49-232 Round Nozzle, 2½" dia. ¼ lb.

H. No. 49-236 Reducer. Permits attaching of 1¼" diameter cleaner attachments to Rockwell Cleaner Hose. 1 lb.

I. No. 49-240 Round Brush, 2½" diameter with 1¼" diameter outlet. Requires No. 49-236 Reducer for attaching to 49-229 2½" diameter hose. 1 lb.

J. No. 49-242 Crevice Tool. With 1¼" diameter outlet. Requires No. 49-236 Reducer for attaching to 2½" diameter hose. 1 lb.

K. No. 49-581 Fan Tail, 3" with 1¼" diameter outlet. Requires No. 49-236 Reducer for attaching to 2½" diameter hose. 1 lb.

OTHER ACCESSORIES (Not Shown)

No. 49-233 Flange, 2½" diameter. For making your own attachments for your power tools.

No. 49-243 Replaceable Filter Bags, package of five. 1 lb.

No. 49-244 Four-Wheel Caster Set for 5-Gallon Vacuum Cleaner. 3 lbs.

No. 49-245 Four-Wheel Caster Set for 18 and 28-Gal. Vacuum Cleaners. 3 lbs.

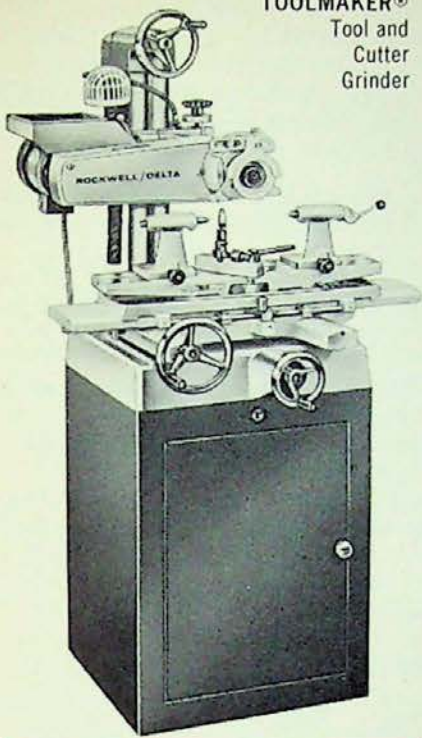
No. 49-583 Set of Extension Tubes, for floor cleaning, 1¼" diameter x 48" overall. 2 lbs.

No. 49-596 Hose, 1¼" dia. x 72". 2 lbs.

No. 49-598 Hose Coupling for connecting two 6-foot lengths of 49-596 1¼" diameter hose. 1 lb.

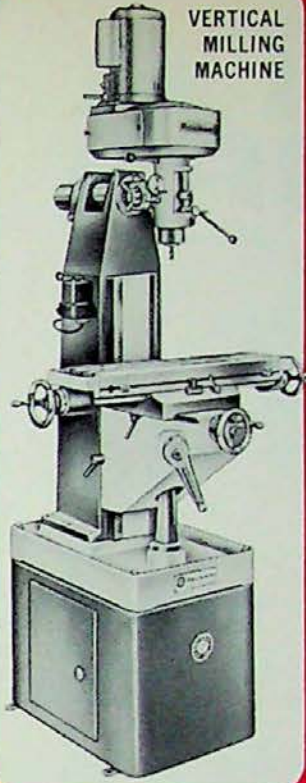
For other accessories, see product pages.

TG-3
TOOLMAKER®
Tool and
Cutter
Grinder

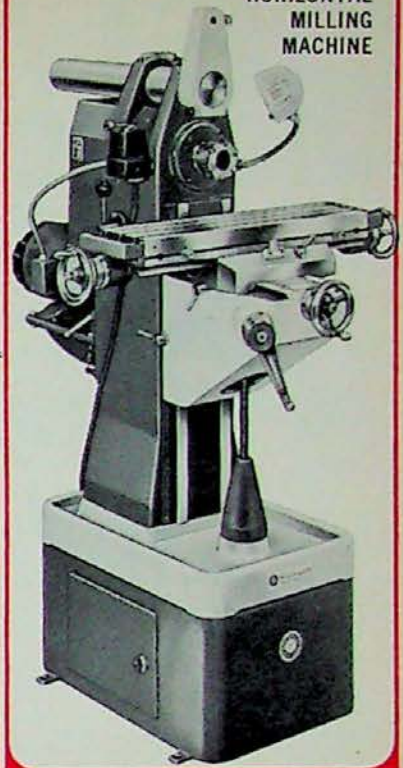


*The newest,
most modern
line of
metal lathes,
milling
machines and
TOOLMAKER®
grinders
for industry
and
school shops*

VERTICAL
MILLING
MACHINE



HORIZONTAL
MILLING
MACHINE

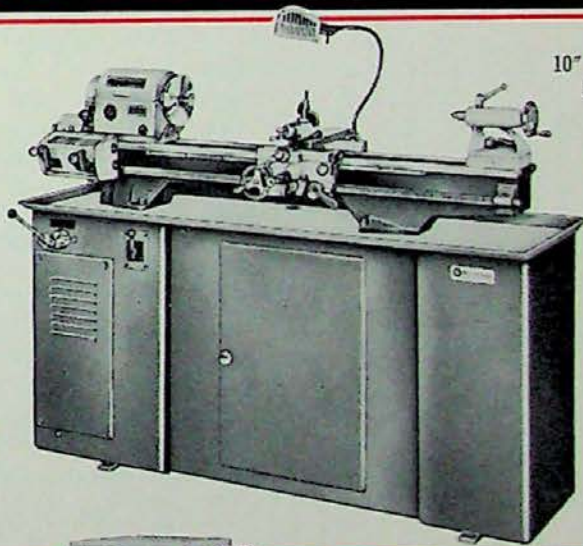


ROCKWELL MACHINE TOOLS

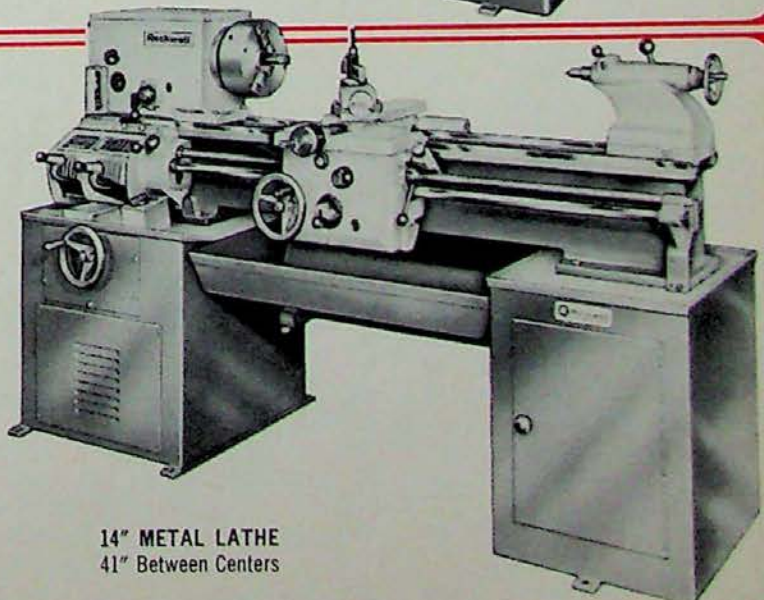
Every Rockwell-built Machine Tool is a product of over 35 years' experience in manufacturing the world's most famous power tools. Like all Rockwell-built power tools, these machine tools offer you quality that only the most advanced engineering skills could create—and only the most modern production facilities could maintain.

These fine engineering skills and tremendous production facilities are backed up by a widespread industrial distributor organization equipped to render the type of cooperation and service you need—and get—when you buy a Rockwell Machine Tool.

10" METAL LATHE
Underneath Drive
Cabinet Model
36"
Between
Centers

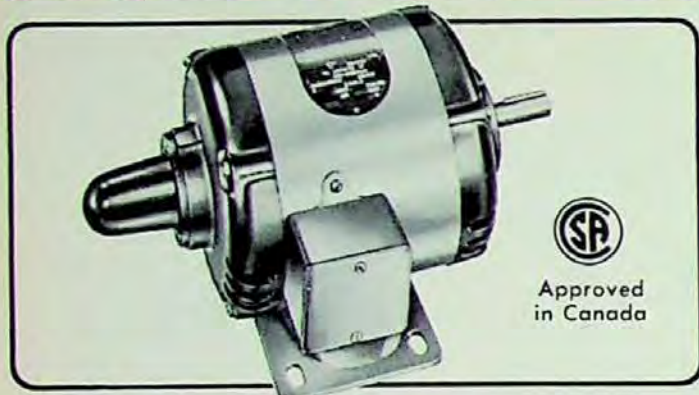


11" METAL LATHE
24" Between Centers



14" METAL LATHE
41" Between Centers

ROCKWELL DELTA MOTORS



Designed Specifically for Delta Products

Dependable Delta Heavy Duty Motors are comparatively low in cost—but they are NOT built down to a price. Quality has been maintained throughout. They are the finest motors available at anywhere near their price. New, dependable Delta Standard Duty Motors give you all the performance you require, on the products for which they are recommended, at the lowest possible cost! Check the specially engineered features on all Delta Motors.

- All ball bearings are lubricated for life. Bearing designs permit Delta Motors to be mounted either vertically or horizontally.
- All Delta Motors comply with or exceed the motor manufacturing power standards (breakdown torque) as established by the National Electrical Manufacturers Association (NEMA).
- All double-shaft motors are supplied with one shaft guard for maximum safety to the operator.
- Accurately balanced rotors insure smoothness of operation and prevent destructive vibration.
- Well designed ventilating systems assure cool operating motors, thus providing adequate overload capacity and longer motor life.

SPECIFICATIONS FOR ROCKWELL DELTA SINGLE PHASE MOTORS

(All motors supplied with cord sets are grounded and wired for 115V unless otherwise noted)

Catalog Number	H.P.	R.P.M.	Volts	Cycles	Shaft	Frame Size	Switch	Cord & Plug	Enclosure	Duty	Wt. Lbs.
SPLIT PHASE											
x60-013	1/3	1725	115	60	1/2" Single	No. 6	None Order 49-311	None— Included with 49-311	GD	Heavy	16
x*60-050	1/2	3450	115	60	1/2" Single	No. 6	SPST	Yes	GD	Standard	25
CAPACITOR START											
62-010	1/2	1725	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	25
62-011	3/4	1725	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	30
62-012	1	1725	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	47
62-020	3/4	3450	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	30
62-110	1/3	1725	115/230	60	1/2" Double	No. 6	DPST	Yes	GD	Heavy	24
62-213	1/2	3450	115	60	5/8" Single	Special	None	Yes	GD	Heavy	22
*62-253	3/4	3450	115	60	5/8" Double	No. 6	§SPST	Yes	GD	Heavy	31
*62-273	1	3450	115	60	5/8" Double	No. 6	§SPST	Yes	GD	Heavy	34
*62-413	1/3	1725	115	60	5/8" Single	No. 6	SPST	Yes	GD	Heavy	22
*62-653	1/2	1725	115	60	5/8" Double	No. 6	SPST	Yes	GD	Heavy	27
62-660	1/2	3450	115/230	60	5/8" Single	No. 6	DPST	Yes	GD	Heavy	28
62-680	1/2	1725	115/230	60	5/8" Single	No. 6	DPST	Yes	GD	Heavy	31
**62-683	1/2	1140	115/230	60	5/8" Single	No. 6	DPST	Yes	GD	Heavy	44
62-710	3/4	1725	115/230	60	5/8" Single	No. 6	None	Yes	GD	Heavy	38
62-731	1	3450	115/230	60	5/8" Single	Special	No	Yes	TEFC	Heavy	32
62-751	1½	3450	115/230	60	5/8" Single	Special	No	Yes	TEFC	Heavy	37
82-710	1/2	1725	115/230	60	3/4" Single	No. 8½	DPST	Yes	GD	Heavy	46
82-910	3/4	1725	115/230	60	3/4" Single	No. 8½	DPST	Yes	GD	Heavy	54
82-912	3/4	1140	115/230	60	3/4" Single	No. 8½	DPST	Yes	GD	Heavy	70
83-112	1	1140	115/230	60	3/4" Single	No. 8½	DPST	Yes	GD	Heavy	74
†83-361	1	3450	115/230	60	3/4" Single	No. 8½	None	None	GD	Heavy	59
83-510	1	1725	115/230	60	3/4" Single	No. 8½	DPST	Yes	GD	Heavy	59
‡83-560	1	1725	115/230	60	3/4" Double	No. 8½	§DPST	Yes	GD	Heavy	59
83-610	1½	1725	115/230	60	3/4" Single	No. 8½	None	None	GD	Heavy	80
83-611	1½	3450	115/230	60	3/4" Single	Special	None	None	TENV	Heavy	60
•83-621	1½	3450	115/230	60	3/4" Single	Special	None	None	TEFC	Heavy	58
•83-631	2	3450	115/230	60	3/4" Single	Special	None	None	TEFC	Heavy	67
•83-651	3	3450	115/230	60	3/4" Single	Special	None	None	TEFC	Heavy	80
†83-761	2	3450	115/230	60	3/4" Single	No. 8½	None	None	GD	Heavy	70
93-410	3	1725	115/230	60	1½" Single	NEMA 215	None	None	GD	Heavy	120
93-441	3	3450	115/230	60	1½" Single	NEMA 213	None	None	GD	Heavy	112
93-510	5	1725	230	60	1½" Single	NEMA 215	None	None	GD	Heavy	180
93-541	5	3450	230	60	1½" Single	NEMA 215	None	None	GD	Heavy	150
93-610	2	1725	115/230	60	3/4" Single	No. 8½	None Order 49-800	None	GD	Heavy	78
93-711	3	3450	115/230	60	1½" Single	NEMA 213	None	None	TEFC	Heavy	145
REPULSION INDUCTION											
85-110	1½	3450	115/230	60	3/4" Single	Special	None	None	TENV	Heavy	81

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA MOTORS

SPECIFICATIONS FOR ROCKWELL DELTA 3 PHASE MOTORS

Catalog Number	H.P.	R.P.M.	Volts	Cycles	Shaft	Frame Size	Switch	Cord & Plug	Enclosure	Duty	Wt. Lbs.	fCat. No. 575V Version	fCat. No. 208V Version
66-019	1/2	1725	230/460	60	5/8" Single	No. 6			TEFC	Standard	27	66-016	66-022
66-020	3/4	3450	230/460	60	5/8" Single	No. 6			TEFC	Standard	25	66-026	66-025
66-029	3/4	1725	230/460	60	5/8" Single	No. 6			TEFC	Standard	30	66-017	66-023
66-039	1	1725	230/460	60	5/8" Single	No. 6			TEFC	Standard	32	66-018	66-024
x66-069	1/2	3450	230/460	60	1/2" Single	No. 6			GD	Standard	17	66-061	66-062
66-139	1/3	1725	230/460	60	1/2" Double	No. 6			GD	Heavy	20	66-130	66-135
66-369	1/2	1725	230/460	60	5/8" Single	No. 6			GD	Heavy	26	66-341	66-359
66-379	1/2	1140	230/460	60	5/8" Single	No. 6			GD	Heavy	31	66-347	66-383
66-719	3/4	1725	230/460	60	5/8" Single	No. 6			GD	Heavy	32	66-730	66-712
66-739	1	3450	230/460	60	5/8" Single	Special			TEFC	Heavy	28	66-732	66-736
66-759	1 1/2	3450	230/460	60	5/8" Single	Special			TEFC	Heavy	44	66-754	66-755
86-529	1/2	1725	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	42	86-530	86-535
86-759	3/4	1725	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	43	86-730	86-735
86-769	3/4	1140	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	46	86-732	86-737
86-909	1	1725	230/460	60	3/4" Double	No. 8 1/2			GD	Heavy	44	86-930	86-935
86-919	1	3450	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	44	86-931	86-936
86-969	1	1140	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	57	86-932	86-937
86-999	1	1725	230/460	60	3/4" Double	No. 8 1/2			TENV	Heavy	47	86-980	86-991
87-149	1 1/2	1725	230/460	60	3/4" Double	No. 8 1/2			GD	Heavy	50	87-130	87-135
87-159	1 1/2	3450	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	50	87-131	87-136
87-169	1 1/2	1140	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	64	87-132	87-137
87-179	1 1/2	1725	230/460	60	3/4" Double	No. 8 1/2			TENV	Heavy	90	87-128	87-173
87-319	2	3450	230/460	60	3/4" Single	Special			TENV	Heavy	58	87-312	87-318
87-359	3	3450	230/460	60	3/4" Single	Special			TEFC	Heavy	67	87-352	87-353
87-619	3	3450	230/460	60	3/4" Single	No. 8 1/2			GD	Heavy	66	87-613	87-614
96-329	2	1725	230/460	60	3/4" Double	No. 8 1/2			GD	Heavy	62	96-330	96-321
96-429	5	3450	230/460	60	1 1/8" Single	NEMA 213			TEFC	Heavy	133	96-431	96-430
96-449	7 1/2	3450	230/460	60	1 1/8" Single	NEMA 213			TEFC	Heavy	150	96-442	96-443
96-629	3	1725	230/460	60	1 1/8" Single	NEMA 213			GD	Heavy	74	96-630	96-634
96-659	3	3450	230/460	60	7/8" Single	NEMA 184			GD	Heavy	120	96-651	96-646
96-679	3	1725	230/460	60	1 1/8" Single	NEMA 215			TENV	Heavy	125	96-672	96-673
96-729	5	1725	230/460	60	1 1/8" Single	NEMA 215			GD	Heavy	110	96-730	96-725
96-749	5	3450	230/460	60	1 1/8" Single	NEMA 213			GD	Heavy	106	96-751	96-744
96-779	5	1725	230/460	60	1 1/8" Single	NEMA 215			TENV	Heavy	132	96-771	96-772
96-849	7 1/2	3450	230/460	60	1 1/8" Single	NEMA 215			GD	Heavy	106	96-851	96-844

Not supplied. For recommended switch for particular motor application, refer to product page listing.

Not supplied. For recommended wiring for particular motor application, refer to product page listing.

Write for information on available motors not listed. Such motors, when ordered special, are not subject to cancellation.

*Supplied with integral, manual reset and thermal overload protection.

**Capacitor start—capacitor run motor.

xWith sleeve bearings.

#Cord and plug set supplied with motor is grounding type with 3-prong tandem plug for 230V operation.

§Switch wired for remote control.

†Supplied with integral reversing switch.

*Due to larger physical dimensions, motor will not fit UNISAW cabinets with oval-shaped opening on right side.

†208 and 575V motors can be used on same machines as 230/460V motors. See section P2.

DPST—Double pole, single throw.

SPST—Single pole, single throw.

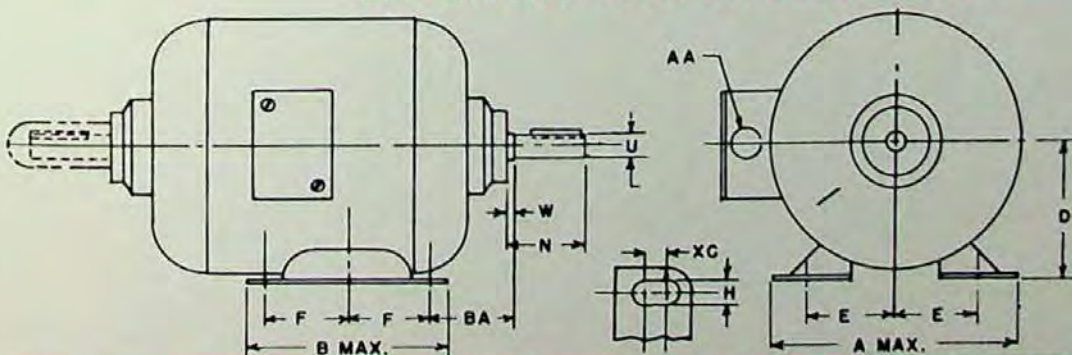
TE—Totally enclosed.

TENV—Totally enclosed, non-ventilated.

TEFC—Totally enclosed, fan cooled.

GD—Guarded drip-proof.

DIMENSIONAL DATA ON DELTA MOTORS



*Some Delta motors are supplied with a junction box in one of the motor end bells instead of on the side of the motor frame. Motors with end bell junction boxes do not have knockouts, only 2 slots which allow passage of motor cables, and holes which allow mounting of control switch or cable clamp.

**Some Delta motors are supplied with either a 1/2" diameter shaft with a flat or with a 3/8" diameter shaft and 3/16 x 3/16 x 1 1/4" key.

†Supplied with key.

Motor Frame	A Max	AA	B Max	BA	D	E	F	H	N-W	U	XC
Delta No. 6	6 5/16	1/2*	4 1/4	2	3 1/4	2 1/2	1 15/16	3/8	1 7/8	1/2**	1 1/32
Delta No. 8 1/2	8 3/8	1/2	5	3 17/32	4 1/2	3 3/16	1 7/8	3/16	2 1/4	3/4†	3/8
NEMA 182	9	3/4	6 1/2	2 3/4	4 1/2	3 3/4	2 1/4	13/32	2 1/4	3/8†	—
NEMA 184	9	3/4	7 1/2	2 3/4	4 1/2	3 3/4	2 3/4	13/32	2 1/4	3/8†	—
NEMA 213	10 1/2	3/4	7 1/2	3 1/2	5 1/4	4 1/4	2 3/4	13/32	3	1 1/8†	—
NEMA 215	10 1/2	3/4	9	3 1/2	5 1/4	4 1/4	3 1/2	13/32	3	1 1/8†	—

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA MOTORS

Machines On Which ROCKWELL DELTA Single Phase Motors May Be Used

Single Phase Motors	20" Drill Press	17" Drill Presses	15" VS6 Drill Press	15" 6+6 Drill Press	15" Utility Drill Press	Unidrill	Ram Type Drill Press	12" Cut-Off Machine	Sander/Grinder	6" Ab. Belt Finishing Machine	12" Ab. Disk Finishing Machine	Comb. Belt & Disk Finishing Machine	8" Jointer	6" Jointer	4" Jointer
60-013															X
60-050									X						
62-010				X	X					X				X	
62-011			X	X	X					X					
62-012										X					
62-020															
62-110				X	X										
62-213															
62-253															
62-273															
62-413				X	X	X									X
62-653				X	X										
62-660									X						
62-680			X	X	X	X	X			X				X	
62-683			X	X	X										
62-710										X					
62-731															
62-751															
82-710										X	X				
82-910	X	X								X	X	X	X		
82-912	X	X								X					
83-112	X	X													
83-361															
83-510	X	X								X		X			
83-560													X		
83-610	X	X													
83-611															
83-621															
83-631															
83-651															
83-761															
85-110															
93-410								X							
93-441									X						
93-510									X						
93-541															
93-610	X														
93-711															

Machines On Which ROCKWELL DELTA Three Phase Motors May Be Used

Three Phase Motors	20" Drill Press	17" Drill Presses	15" VS6 Drill Press	15" 6+6 Drill Press	15" Utility Drill Press	Unidrill	Ram Type Drill Press	12" Cut-Off Machine	Sander/Grinder	6" Ab. Belt Finishing Machine	12" Ab. Disk Finishing Machine	Comb. Belt & Disk Finishing Machine	8" Jointer	6" Jointer	4" Jointer
66-019				X	X					X				X	
66-020															
66-029			X	X	X					X					
66-039										X					
66-069									X						
66-139				X	X										X
66-369			X	X	X	X	X			X				X	
66-379			X	X	X	X	X								
66-719										X					
66-739															
66-759															
86-529										X	X				
86-759	X	X								X	X	X	X		
86-769	X	X								X					
86-909	X	X								X	X	X	X		
86-919															
86-969	X	X													
86-999	X	X									X		X		
87-149	X	X								X			X		
87-159															
87-169	X	X													
87-179	X	X									X		X		
87-319															
87-359															
87-619															
96-329	X														
96-429															
96-449															
96-629								X							
96-659									X						
96-679									X						
96-729									X						
96-749															
96-779								X							
96-849															

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA MOTORS

Machines On Which ROCKWELL DELTA Single Phase Motors May Be Used

Single Phase Motors	9" Bench Saw	10" Bench Saw	10" Unisaw	12" - 14" Circular Saw	9" Saw 4" Jtr. Comb.	14" Wood Band Saw	14" Metal Cutting Band Saw	20" Wood Band Saw	20" Metal Cutting Band Saw	13" Planer	18" Planer	Uni-plane	24" Scroll Saw	Heavy Duty Wood Shaper	Light Duty Wood Shaper	12" Hvy. Duty Wood Lathe	12" Std. Duty Wood Lathe
60-013																	
60-050																	
62-010						X	X										X
62-011						X	X									X	X
62-012																X	
62-020												X					
62-110						X	X						X				
62-213															X		
62-253	X																
62-273	X				X												
62-413																	
62-653																	
62-660																	
62-680						X	X									X	X
62-683																	
62-710						X	X									X	X
62-731		X															
62-751		X															
82-710																	
82-910																	
82-912																	
83-112																	
83-361														X	X		
83-510																	
83-560								X	X								
83-610																	
83-611			X														
83-621			X														
83-631			X														
83-651			X														
83-761														X			
85-110			X														
93-410										X							
93-441											X						
93-510																	
93-541											X						
93-610										X							
93-711				X													

Machines On Which ROCKWELL DELTA Three Phase Motors May Be Used

Three Phase Motors	9" Bench Saw	10" Bench Saw	10" Unisaw	12" - 14" Circular Saw	9" Saw 4" Jtr. Comb.	14" Wood Band Saw	14" Metal Cutting Band Saw	20" Wood Band Saw	20" Metal Cutting Band Saw	13" Planer	18" Planer	Uni-plane	24" Scroll Saw	Heavy Duty Wood Shaper	Light Duty Wood Shaper	12" Hvy. Duty Wood Lathe	12" Std. Duty Wood Lathe
66-019						X	X										X
66-020												X					
66-029						X	X									X	X
66-039																X	
66-069																	
66-139						X	X						X				
66-369						X	X									X	X
66-379																X	X
66-719						X	X									X	X
66-739		X															
66-759		X															
86-529																	
86-759																	
86-769																	
86-909								X	X								
86-919														X			
86-969																	
86-999								X	X								
87-149								X	X								
87-159														X			
87-169									X								
87-179								X	X								
87-319			X														
87-359			X														
87-619														X			
96-329									X	X							
96-429				X													
96-449				X													
96-629										X							
96-659											X						
96-679										X							
96-729																	
96-749											X						
96-779												X					
96-849												X					

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA CONTROLS AND WIRING KITS

For application of controls and wiring kits, refer to controls and wiring kits listed on product pages. Also see Section Q2. • Write to factory for information on available motor controls and wiring kits not listed. Such items, when ordered special, are not subject to cancellation.

MANUAL SINGLE PHASE CONTROLS AND WIRING



49-311



1115

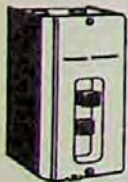


49-316



49-316

49-669



49-800



49-357

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches				Weight Lbs.
			115V AC	230V AC	115V DC	230V DC	
MANUAL CONTROL SWITCH WITH WIRING							
49-311	60-013 Motor	On-Off Toggle Switch, 1-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug and Switch Lead	1	1	—	—	1
49-312	Coolant Pump	On-Off Toggle Switch, 2-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug, Mounting and Connecting Hardware.	1½	1½	1½	1½	2
49-313	Coolant Pump	On-Off Toggle Switch, 2-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 230 V Grounding Plug, Mounting and Connecting Hardware.	1½	1½	1½	1½	1
15-811	All 15" Drill Presses and Unidrill	Start-Stop Push Button Switch, 2-Pole, 5-Wire Cable Assembly, Mounting and Connecting Hardware.	1	1½	1	1½	2
20-611	All 17" and 20" Drill Presses	Start-Stop Push Button Switch, 2-Pole, 4-Wire Conduit Assembly, Mounting and Connecting Hardware.	1	1½	1	1½	2
34-891	10" Tilting Arbor Bench Saw	Start-Stop Push Button Switch, 2-Pole, 5-Wire Cable Assembly, Mounting and Connecting Hardware.	1	1½	1	1½	3
46-461	12" Std. Duty Wood Lathe	Start-Stop Push Button Switch, 2-Pole, 5-Wire Cable Assembly, Mounting and Connecting Hardware.	1	1½	1	1½	1
46-471	12" Heavy Duty Wood Lathe	Start-Stop Push Button Switch, 2-Pole, 5-Wire Cable Assembly, Mounting and Connecting Hardware.	1	1½	1	1½	1
49-410	Ram Type Radial Drill Press	Start-Stop Push Button Switch, 3-Pole, Two 3-Wire Cable Assemblies, Mounting and Connecting Hardware.	2	2	—	—	2
46-455	12" Heavy Duty Wood Lathe	Slo-Start Switch, Two-Pole, with Operating Mechanism, 5-Wire Cable, Switch Cover with Lock Assembly, Mounting and Connecting Hardware.	1	1	1	1	7
46-460	12" Std. Duty V-S Wood Lathe	Slo-Start Switch, Two-Pole, with Operating Mechanism, 5-Wire Cable, Switch Cover with Lock Assembly, Mounting and Connecting Hardware.	1	1	1	1	7
MANUAL CONTROL SWITCH							
1115	General See Description	On-Off Toggle Switch, 2-Pole, Three Hole Flush Mounting with Hole in Toggle. For Replacement Use on No. 62-110, 62-680, 62-683, 82-710, 82-910, 82-912, 83-112 and 83-510 Motors. For Use with No. 49-385 Kit.	1½	1½	1½	1½	1
49-330	10" Grinder	On-Off Toggle Switch, 2-Pole, Single Hole Mounting with Solid Toggle. For Replacement Use.	1½	1½	1½	1½	2
49-331	General See Description	On-Off Toggle Switch, Single Pole, Single Hole Mounting with Hole in Toggle. For Replacement Use on No. 62-253, 62-273, 62-653 and 62-413 Motors and 49-311 Switch Kit.	1	1	—	—	1
49-670	General	Start-Stop Push Button Switch, 2-Pole, Includes Box and Cover. Recommended for Use on Open Steel Stands and for Replacement Use.	1	1½	1	1½	2
49-316	Light Duty Wood Shaper	Drum Switch in NEMA Type 1 Enclosure. For Reversing (For-Off-Rev.) Control of 62-213 Motor.	1	—	—	—	2
OVERLOAD SWITCH							
Provides Motors with Protection from Overloads							
49-669	General	Two-Pole with Manual Reset Button in a NEMA Type 1 Enclosure. To insure that Correct Heater Coils are Supplied Specify Motor No., HP, RPM, Phase and Voltage When Ordering.	1	2	2	2	3
MANUAL STARTER							
Provides Control and Overload Protection. Has Start and Stop-Reset Buttons. To insure that Correct Heater Coil is Supplied, Specify Motor No., HP, RPM, and Voltage When Ordering.							
49-800	General	Manual Starter, Size 1, NEMA 1 Enclosure.	2	3	—	—	5
49-843	General	Manual Starter, Size 1½, NEMA 1 Enclosure.	3	5	—	—	7
Catalog Number	Product Usage	Description	Amp Rating		Weight Lbs.		
			115V AC	230V AC			
WIRING							
49-357	General	Consists of 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug.	13	—	3		
49-513	General	Consists of 8', #14-3 Wire Cable, S/3 Prong 115 V Grounding Plug.	18	—	3		
49-417	General	Consists of 8', #16-3 Wire Cable, SJ/3 Prong 230 V Grounding Plug.	—	13	2		
49-514	General	Consists of 8', #14-3 Wire Cable, S/3 Prong 230 V Grounding Plug.	—	18	3		
49-315	General	Consists of 3' Long Flexible Conduit with Three #14 Wires and Fittings.	15	15	1		
49-385	General	Consists of Box, Clamps, Cover, 2-Wire Cable to Provide Remote Control of Single Phase Motors. No. 1115 Toggle Switch (Not Supplied) Must be Used with this Kit.	13	13	2		

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA CONTROLS AND WIRING KITS

MANUAL SINGLE PHASE CONTROLS AND WIRING—Continued

Catalog Number	Product Usage	Description	Amp Rating		Weight Lbs.
			115V AC	230V AC	
MANUAL CONTROL SWITCH RODS					
Provide Very Low-Cost, Finger-Tip Control of Single Phase Motors Which Have Built-In Toggle Switches. Made of 1/32" Steel Rod with a Loop Handle at One End and Cotter Pin Hole at Opposite End.					
1330	General See Description	Switch Rod, 17 1/4" Long. Includes Cotter Pin, Screw Eye for Wood and Bracket for Mounting on Steel Stand. For Use on Sander/Grinder with No. 50-106 Open Steel Stand.	—	—	2
1331	General See Description	Switch Rod, 15 1/2" Long. Includes Cotter Pin and Bent Wire Guide with Grommet. For Use on "6 Plus 6", "VS6" and 15" Utility Drill Presses, UNIDRILL and Super-Hi 14" Drill Press.	—	—	1
1333	General See Description	Switch Rod, 17 1/4" Long. Includes Cotter Pin and Bracket with Grommet for Mounting on Steel Stand. For Use on 6" Deluxe Jointer on No. 50-656 Open Steel Stand and 4" Precision Jointer on No. 50-304 Open Steel Stand.	—	—	2
1334	General See Description	Switch Rod, 18 1/4" Long. Includes Cotter Pin, Screw Eye for Wood and Bracket for Mounting on Steel Stands. For Use on 6" Abrasive Belt Finishing Machine on No. 50-406 Open Steel Stand, and 14" Metal Cutting and Wood Cutting Band Saws on No. 50-891 Open Steel Stand.	—	—	2

MANUAL THREE PHASE CONTROLS AND WIRING

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches		Weight Lbs.
			208-230V AC	460-575V AC	

MANUAL CONTROL SWITCH AND WIRING

15-813	All 15" Drill Presses and UNIDRILL	Start and Stop Push Button Switch, 3-Pole, Two 4-Wire Cable Assemblies, Mounting and Connecting Hardware.	3	3	2
20-613	All 17" and 20" Drill Presses	Start and Stop Push Button Switch, 3-Pole, Six-Wire Conduit Assembly, Mounting and Connecting Hardware.	3	3	2
34-893	10" Tilting Arbor Bench Saw	Start and Stop Push Button Switch, 3-Pole, 4-Wire Cable, Mounting and Connecting Hardware.	3	3	4
46-463	12" Std. Duty Wood Lathe	Start and Stop Push Button Switch, 3-Pole, 4-Wire Cable, Mounting and Connecting Hardware.	3	3	1
46-473	12" Heavy Duty Wood Lathe	Start and Stop Push Button Switch, 3-Pole, 4-Wire Cable, Mounting and Connecting Hardware.	3	3	1
49-410	Ram Type Radial Drill Press	Start and Stop Push Button Switch, 3-Pole, Two 3-Wire Cable Assemblies, Mounting and Connecting Hardware.	3	3	2
46-455	12" Heavy Duty Wood Lathe	Slo-Start Switch, Two-Pole, with Operating Mechanism, 5-Wire Cable, Switch Cover with Lock Assembly, Mounting & Connecting Hardware.	1	—	7
46-460	12" Std. Duty V-S Wood Lathe	Slo-Start Switch, Two-Pole, with Operating Mechanism, 5-Wire Cable, Switch Cover with Lock Assembly, Mounting & Connecting Hardware.	1	—	7

MANUAL CONTROL SWITCH

49-671	General	Start and Stop Push Button Switch, 3-Pole, Includes Box and Cover. Recommended for Use on Open Steel Stands & for Replacement Use.	3	3	2
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OVERLOAD SWITCH

Provides Motors with Protection from Overloads

49-669	General	Two-Pole with Manual Reset Button in a NEMA Type 1 Enclosure. To Insure that Correct Heater Coils are Supplied, Specify Motor No., HP, RPM, Phase and Voltage When Ordering.	5	5	3
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MANUAL STARTER

Provides Control and Overload Protection. Has Start and Stop-Reset Buttons. To Insure that Correct Heater Coils are Supplied, Specify Motor No., HP, RPM and Voltage When Ordering

49-838	General	Manual Starter, Size 0, NEMA Type 1 Enclosure	3	5	5
49-839	General	Manual Starter, Size 1, NEMA Type 1 Enclosure.	7 1/2	10	5

WIRING

Catalog Number	Product Usage	Description	Amp Rating		Weight Lbs.
			208-230V AC	460-575V AC	
49-315	General	Consists of 3' Long Flexible Conduit with Three #14 Wire and Fittings.	15	15	1

MAGNETIC SINGLE AND THREE PHASE CONTROLS AND WIRING

Catalog Number	Product Usage	Description	Voltage Rating	Weight Lbs.
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MAGNETIC CONTROL SWITCH AND WIRING

15-812	All 15" Drill Presses and UNIDRILL	Start and Stop Push Button Magnetic Starter Control Switch, 4-Wire Cable Assembly, Mounting and Connecting Hardware. Used to Control 49-664, 49-665, 49-674 or 49-698 Magnetic Starter.	600 Volts Max.	1
20-612	All 17" and 20" Drill Presses	Start and Stop Push Button Magnetic Starter Control Switch, 3-Wire Flexible Conduit Assembly, Mounting and Connecting Hardware. Used to Control 49-664, 49-665, 49-674 or 49-698 Magnetic Starter.	600 Volts Max.	2



1330



49-671



49-838

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA CONTROLS AND WIRING KITS

MAGNETIC SINGLE AND THREE PHASE CONTROLS AND WIRING—Continued

Catalog Number	Product Usage	Description	Voltage Rating				Weight Lbs.
MAGNETIC CONTROL SWITCH AND WIRING							
34-892	10" Tilting Arbor Bench Saw	Start and Stop Push Button Magnetic Starter Control Switch, Cable Assembly, Mounting and Connecting Hardware. Used to Control 49-664, 49-665, 49-674 or 49-698 Magnetic Starter.	600 Volts Max.				3
46-462	12" Std. Duty Wood Lathes	Start and Stop Push Button Magnetic Starter Control Switch, Mounting and Connecting Hardware. Used to Control 49-664, 49-665, 49-674 or 49-698 Magnetic Starter.	600 Volts Max.				1
46-472	12" Heavy Duty Wood Lathe	Start and Stop Push Button Magnetic Starter Control Switch, Mounting and Connecting Hardware. Used to Control 49-664, 49-665, 49-674 or 49-698 Magnetic Starter.	600 Volts Max.				1
49-842	General See Description	Start and Stop Push Button Magnetic Starter Control Switch, Wiring and Mounting Hardware to Allow Switch to be Connected to and Mounted in a 49-664, 49-665, 49-666, 49-674, 49-698, 49-699, 49-840, 49-841, 49-844 or 49-845 Magnetic Starter to Provide Integral Push Button Control.	600 Volts Max.				5
46-455	12" Heavy Duty Wood Lathe	Slo-Start Switch, Two-Pole, with Operating Mechanism, 5-Wire Cable, Switch Cover with Lock Assembly, Mounting and Connecting Hardware. When Using this Switch Kit for Magnetic Control, No. 49-399 or 49-508 Relay is Required.	300 Volts Max.				7
46-460	12" Std. Duty V-S Wood Lathe	Slo-Start Switch, Two-Pole, with Operating Mechanism, 5-Wire Cable, Switch Cover with Lock Assembly, Mounting and Connecting Hardware. When Using this Switch Kit for Magnetic Control, No. 49-399 or 49-508 Relay is Required.	300 Volts Max.				7
MAGNETIC CONTROL SWITCH							
49-672	General	Start and Stop Push Button Magnetic Starter Control Switch, Includes Box and Cover. Recommended for Remote Control of Magnetic Starters and for Replacement Use.	600 Volts Max.				2
			Maximum HP Rating of Switches				
			1 Phase		3 Phase		
Catalog Number	Product Usage	Description	115V AC	230V AC	208-230V AC	460-575V AC	Weight Lbs.



MAGNETIC STARTERS

These Magnetic Starters Provide Full Voltage or 115 Volt Control. They Offer Low-Voltage, No-Voltage and Accurate Overload Protection for Single and Three Phase Motors. To insure that Correct Heater Coils are Supplied, Specify Motor No., HP, RPM and Voltage When Ordering. They Are Supplied with a Reset Button Only in the Cover. Separate or Integral Start and Stop Control Station Must be Used. See Page 3 for Switches Recommended—Nos. 15-812, 20-612, 34-892, 46-462, 46-472, 49-672 and 49-842.

MAGNETIC SINGLE PHASE STARTERS, FULL VOLTAGE

Catalog Number	Product Usage	Description	115V AC	230V AC	208-230V AC	460-575V AC	Weight Lbs.
49-664	General	Magnetic Starter, Size 0, NEMA Type 1 Enclosure, 115/230 Volt, 50/60 Cy. Operating Coil.	1	2	—	—	13
49-844	General	Magnetic Starter, Size 1, NEMA Type 1 Enclosure, 115/230 Volt, 50/60 Cy. Operating Coil.	2	3	—	—	5
49-841	General	Magnetic Starter, Size 1½, NEMA Type 1 Enclosure, 115/230 Volt, 50/60 Cy. Operating Coil.	3	5	—	—	7



MAGNETIC THREE PHASE STARTERS, FULL VOLTAGE

Catalog Number	Product Usage	Description	115V AC	230V AC	208-230V AC	460-575V AC	Weight Lbs.
49-665	General	Magnetic Starter, Size 00, NEMA Type 1 Enclosure, 208-230/460 Volt, 50/60 Cy. Operating Coil.	—	—	1½	2	12
49-666	General	Magnetic Starter, Size 0, NEMA Type 1 Enclosure, 208-230/460 Volt, 50/60 Cy. Operating Coil.	—	—	3	5	14
49-840	General	Magnetic Starter, Size 1, NEMA Type 1 Enclosure, 208-230/460 Volt, 50/60 Cy. Operating Coil.	—	—	7½	10	7
49-698	General	Magnetic Starter, Size 00, NEMA Type 1 Enclosure, 575 Volt, 50/60 Cy. Operating Coil.	—	—	—	2	7

MAGNETIC THREE PHASE STARTERS, 115 VOLT CONTROL

Control Transformers (Page 4) are Required for Starters Listed Below

Catalog Number	Product Usage	Description	115V AC	230V AC	208-230V AC	460-575V AC	Weight Lbs.
49-674	General	Magnetic Starter, Size 00, NEMA Type 1 Enclosure, 115 Volt, 50/60 Cy. Operating Coil.	—	—	1½	2	12
49-699	General	Magnetic Starter, Size 0, NEMA Type 1 Enclosure, 115 Volt, 50/60 Cy. Operating Coil.	—	—	3	5	9
49-845	General	Magnetic Starter, Size 1, NEMA Type 1 Enclosure, 115 Volt, 50/60 Cy. Operating Coil.	—	—	7½	10	5
49-667	General	Reversing Magnetic Starter, Size 0, NEMA Type 1 Enclosure, 115 Volt, 50/60 Cy. Operating Coil.	—	—	3	5	27
49-668	General	Reversing Magnetic Starter, Size 00, NEMA Type 1 Enclosure, 115 Volt, 50/60 Cy. Operating Coil.	—	—	1½	2	23



Catalog Number	Product Usage	Description	Amp Rating				Weight Lbs.
			115V AC	230V AC	208-230V AC	460-575V AC	
WIRING, SINGLE PHASE							
49-357	General	Consists of 8', #16-3 Wire Cable, Type SJ with 3-Prong 115 Volt Grounding Plug.	13	—	—	—	3

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA CONTROLS AND WIRING KITS

MAGNETIC SINGLE AND THREE PHASE CONTROLS AND WIRING —Continued

Catalog Number	Product Usage	Description	Amp Rating				Weight Lbs.
			115V AC	230V AC	208-230V AC	460-575V AC	
WIRING, SINGLE PHASE							
49-513	General	Consists of 8', #14-3 Wire Cable, Type S with 3-Prong 115 Volt Grounding Plug.	18	—	—	—	3
49-417	General	Consists of 8', #16-3 Wire Cable, Type SJ with 3-Prong 230 Volt Grounding Plug.	—	13	—	—	2
49-514	General	Consists of 8', #14-3 Wire Cable, Type S with 3-Prong 230 Volt Grounding Plug.	—	18	—	—	3

WIRING, SINGLE AND THREE PHASE							
49-315	General	Consists of 3' Long Flexible Conduit with Three #14 Wires and Fittings.	15	15	—	—	1

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches			Weight Lbs.
			1 Phase		3 Phase	
			115V AC	208-230V AC	208-230V AC	

CONTROL RELAY						
49-399	12" V-S Wood Lathes	Relay, 2-Pole, in a NEMA Type 1 Enclosure with a 208-230 Volt, 60 Cy. Operating Coil. Recommended for Use with Magnetically Controlled Variable Speed Wood Lathes When They Utilize Slo-Start Feature.	1	1	1	6
49-508	12" V-S Wood Lathes	Relay, 2-Pole, in a NEMA Type 1 Enclosure with a 115 Volt, 60 Cy. Operating Coil. Recommended for Use with Magnetically Controlled Variable Speed Wood Lathes When They Utilize Slo-Start Feature.	1	1	1	5



49-399

Catalog Number	Product Usage	Description	Primary Voltage	Weight Lbs.
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CONTROL TRANSFORMERS

These Transformers Provide 115 Volt Control When Used with Magnetic Starters. They have a Secondary Voltage of 115 Volts; are Rated 50 VA, 60 Cy. They are Supplied with Integral Pipe Nipple for Mounting in Starter Box Knockout.

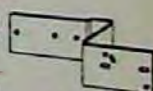
49-517	General	Control Transformer.	575	2
49-519	General	Control Transformer.	230/460	2
49-528	General	Control Transformer.	208	2



49-519

MOUNTING BRACKETS AND COVER FOR CONTROLS

Catalog Number	Product Usage	Description
49-633	See Description	Mounting Bracket for Controls Listed on All 15" or 17" Drill Presses Except on 15" Multiple Spindle Drill Presses where the Center to Center Distance Between Columns is Less Than 13 Inches. Used to Mount No. 49-800 or 49-838 Manual Starter; No. 49-664, 49-665, 49-674 or 49-698 Magnetic Starter or No. 49-669 Overload Switch.
49-635	20" Drill Press	Mounting Bracket for No. 49-800 or 49-838 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698 or 49-699 Magnetic Starter or No. 49-699 Overload Switch.
49-638	Ram Type Radial Drill Press or UNIDRILL	Mounting Bracket for No. 49-664, 49-665, 49-674 or 49-698 Magnetic Starter or No. 49-669 Overload Switch.
49-846	Open Steel Stands	Mounting Bracket for No. 49-800 or 49-838 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698, 49-699 or 49-844 Magnetic Starter; No. 49-669 Overload Switch; No. 49-670 or 49-671 Push Button Control Switch.
49-847	See Description	Mounting Bracket for Controls Listed on 15", 8-Spindle Drill Presses, or any 15" Multiple Spindle Drill Press Where the Center to Center Distance Between Columns is Less than 13". Used to Mount No. 49-664, 49-665, 49-674 or 49-698 Magnetic Starter or No. 49-669 Overload Switch.
49-848	10" Unisaw	Mounting Bracket for No. 49-800, 49-838 or 49-839 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698, 49-699 or 49-844 Magnetic Starter, or No. 49-669 Overload Switch.
49-849	Heavy Duty Wood Shaper	Mounting Bracket for No. 49-800, 49-838 or 49-839 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698, 49-699 or 49-844 Magnetic Starter, or No. 49-699 Overload Switch.
49-850	13" x 5" Planer	Cover for No. 49-664, 49-666 or 49-844 Magnetic Starter Mounted in the Side of the Planer.



49-847



49-848

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA CONTROLS AND WIRING KITS

Machines On Which ROCKWELL DELTA Controls And Wiring Kits May Be Used

Controls Cat. No.	20" D.P.	17" D.P.	15" VS6 D.P.	15" 6+6 D.P.	15" Utility D.P.	Uni- Drill	Ram Type D.P.	14" Super Hi D.P.	Coolant Pumps	12" Cut-off Mach.	TG-3 Grinder	1 HP 10" Grinder	7" Std. Grinder	6" Tool Grinder	6" Bench Grinders	Metal Dust Col- lector	1/2 HP Buffer	Sander Grinder	6" Ab. Belt Fin. Mach.	
1115			X	X	X			X												X
1330																		X		
1331			X	X	X	X		X												
1333																				
1334																				X
15-811			X	X	X	X														
15-812			X	X	X	X														
15-813			X	X	X	X														
20-611	X	X																		
20-612	X	X																		
20-613	X	X																		
34-891																				
34-892																				
34-893																				
46-455																				
46-460																				
46-461																				
46-462																				
46-463																				
46-471																				
46-472																				
46-473																				
49-311																				
49-312									X											
49-313									X											
49-315								X	X	X	X	X	X	X		X	X	X	X	X
49-316																				
49-330												X								
49-331			X	X	X															
49-357			X	X	X						X									X
49-385																		X		
49-399																				
49-410								X												
49-417			X	X	X	X	X	X			X		X	X		X	X	X	X	X
49-508																				
49-513	X	X																		X
49-514	X	X										X								X
49-516	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
49-517	X	X	X	X	X	X	X	X		X	X	X		X				X	X	X
49-519	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
49-633		X	X	X	X			X								X	X	X	X	X
49-635	X																			
49-638						X	X													
49-664	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
49-665	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
49-666	X									X										
49-667																				
49-668															X					
49-669	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49-670	X	X	X	X	X	X	X	X	X		X	X	X				X	X	X	X
49-671	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X
49-672	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
49-674	X	X	X	X	X	X	X	X	X		X	X	X			X	X	X	X	X
49-698	X	X	X	X	X	X	X	X			X	X	X			X	X	X	X	X
49-699	X													X					X	X
49-800									X	X									X	X
49-838								X	X	X		X	X				X	X	X	X
49-839																				
49-840																				
49-841																				
49-842								X	X	X		X	X			X	X	X	X	X
49-843															X	X	X	X	X	X
49-844																				
49-845										X										
49-846																				
49-847	X	X	X	X	X		X											X	X	X
49-848																				
49-849																		X	X	X
49-850																				

ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA CONTROLS AND WIRING KITS

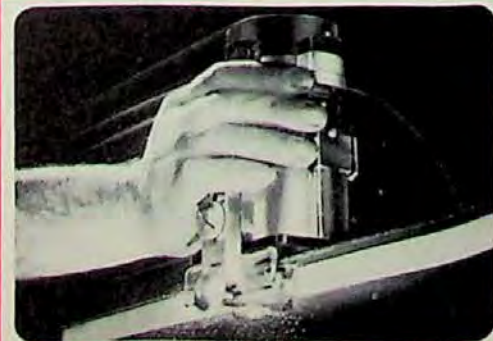
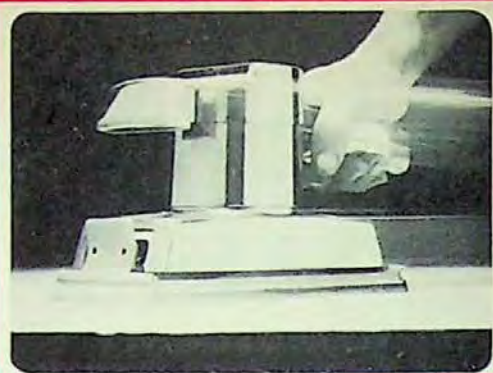
Machines On Which ROCKWELL DELTA Controls And Wiring Kits May Be Used

Controls Cat. No.	12" Ab. Disk Fin. Mach.	Comb. B & D Fin. Mach.	8" Jtr.	6" Jtr.	4" Jtr.	9" Bench Saw	10" Bench Saw	10" Uni- saw	12"-14" Circ. Saw	9" Saw 4" Jtr. Comb.	14" Band Saw	20" Band Saw	20" Metal Band Saw	13" Planer	18" Planer	Uni- Plane	24" Scroll Saw	Hvy. Duty Wood Shaper	Lt. Duty Wood Shaper	12" Hvy. Duty Wood Lathe	12" Std. Duty Wood Lathe	
1115	X			X							X											
1330																						
1331																						
1333				X	X																	
1334											X											
15-811																						
15-812																						
15-813																						
20-611																						
20-612																						
20-613																						
34-891								X														
34-892								X														
34-893								X														
46-455																					X	
46-460																						X
46-461																						X
46-462																						X
46-463																						X
46-471																					X	
46-472																					X	
46-473																					X	
49-311					X																	
49-312																						
49-313																						
49-315	X	X	X	X	X		X	X	X		X	X	X	X	X		X	X		X	X	
49-316																				X		
49-330																						
49-331					X																	
49-357				X	X						X										X	X
49-385		X																				
49-399																					X	X
49-410																						
49-417				X			X				X						X				X	X
49-508																					X	X
49-513	X	X	X									X	X									
49-514	X	X	X					X				X	X					X				
49-516	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X		X	X	
49-517	X	X	X	X	X		X	X			X	X	X				X	X		X	X	
49-519	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X		X	X	
49-633																						
49-635																						
49-638																						
49-664	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X	
49-665	X	X	X	X	X		X	X			X	X	X			X	X	X		X	X	
49-666								X	X			X	X	X	X							
49-667																						
49-668																						
49-669	X	X	X	X	X		X	X			X	X	X			X	X	X		X	X	
49-670	X	X	X	X	X		X	X			X	X	X			X	X	X		X	X	
49-671	X	X	X	X	X		X	X			X	X	X		X	X	X	X		X	X	
49-672	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X		X	X	
49-674	X	X	X	X	X		X	X			X	X	X			X	X	X		X	X	
49-698	X	X	X	X	X		X	X			X	X	X				X	X		X	X	
49-699								X	X			X	X		X			X				
49-800	X	X		X	X			X	X		X			X	X							
49-838	X	X	X	X	X			X			X			X	X		X	X				
49-839								X	X					X	X			X				
49-840									X													
49-841									X													
49-842	X	X	X	X	X	X		X	X	X	X			X	X		X	X				
49-843									X													
49-844									X					X	X			X				
49-845									X						X							
49-846	X	X		X			X				X						X					
49-847																						
49-848	X	X		X	X	X	X			X	X						X					
49-849																			X			
49-850															X							

**SEE YOUR
INDUSTRIAL DISTRIBUTOR
FOR ALL YOUR
ROCKWELL
PORTABLE POWER TOOL
AND ACCESSORY NEEDS**

He can provide you with:

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- Prompt information on new and old products. He is in constant touch with manufacturers who supply him with information on new products and developments.
- One source for many types of products. One source ordering simplifies your purchasing procedure and reduces your accounting costs.



ROCKWELL DELTA INDUSTRIAL MACHINES

ROCKWELL DELTA AUTHORIZED PARTS DISTRIBUTORS

The Authorized Rockwell Delta Parts Distributors or Factory Service Centers listed below stock a complete line of replacement parts. To save time and shipping costs, send your parts orders to your nearest Distributor or Factory Branch. In most cases they will be filled and shipped within 48 hours. Parts orders are not filled direct from the factory.



ATLANTA, GEORGIA 30301
Rockwell Manufacturing Company
1495 Northside Drive, N. W.
Phone: 404 351-5434

BOSTON, MASSACHUSETTS 02134
Rockwell Manufacturing Company
414 Cambridge Street
Phone: 617 782-1700

BUFFALO, NEW YORK 14204
Karle Saw Company, Inc.
138-150 Chicago St., Cor. So. Park Ave.
Phone: 853-8053 or 8054

CHARLOTTE, NORTH CAROLINA 28201
Industrial and Textile Supply
1300 South Mint Street
Phone: 376-6411

CHICAGO, ILLINOIS 60160
Rockwell Manufacturing Company
4533 North Avenue
Melrose Park, Illinois
Phone: 921-2650

CINCINNATI, OHIO 45203
Rockwell Manufacturing Company
906 Dalton Street
Phone: 241-2737

CLEVELAND, OHIO 44114
Rockwell Manufacturing Company
1234 East 26th Street
Phone: 216 621-6329

DALLAS, TEXAS 75247
Rockwell Manufacturing Company
2934 Iron Ridge Street
Phone: 214 631-1890

DENVER, COLORADO 80207
Rockwell Manufacturing Company
4900 East 39th Avenue
Phone: 303 388-5803

DETROIT, MICHIGAN 48220
Waterston's
960 West Eight Mile Road
Phone: 564-5794 or 545-1500

KANSAS CITY, MISSOURI 64108
Rockwell Manufacturing Company
1649 Jarboe Street
Phone: 221-2710

MILWAUKEE, WISCONSIN 53222
Rockwell Manufacturing Company
10700 W. Burleigh Street
Phone: 414 774-3650

NEW YORK, NEW YORK 10013
Rudolf Bass, Inc.
175 Lafayette Street, Cor. Grand Street
Phone: 212 CA 6-4000

PHILADELPHIA, PENNSYLVANIA 19122
Delta Equipment Company
1776 North Fifth Street
Phone: 215 236-6350

PHILADELPHIA, PENNSYLVANIA 19106
Swanger Brothers
116 North 3rd Street
Phone: 627-0178

PITTSBURGH, PENNSYLVANIA 15208
Rockwell Manufacturing Company
400 N. Lexington Avenue
Phone: 241-8400

PORTERVILLE, CALIFORNIA 93257
Rockwell Manufacturing Company
Highway 65 and Pioneer Avenue
P. O. Box 711
Phone: 209 784-7180

PORTLAND, OREGON 97232
Rockwell Manufacturing Company
2755 Northeast Broadway
Phone: 503 288-6888

SEATTLE, WASHINGTON 98109
Rockwell Manufacturing Company
1918 Minor Avenue
Phone: 206 622-4576

WORCESTER, MASSACHUSETTS 01604
Waite Hardware Company
189 Front Street
Phone: 617 753-8161

CANADA
ROCKWELL MANUFACTURING CO.
OF CANADA LIMITED
40 Wellington Street, P. O. Box 848
Guelph, Ontario, Canada
Phone: 519 822-2840

HAWAII
VON HAMM YOUNG LIMITED
720 Kapiolani Boulevard, P. O. Box 2630
Honolulu, Hawaii 96803

ROCKWELL DELTA

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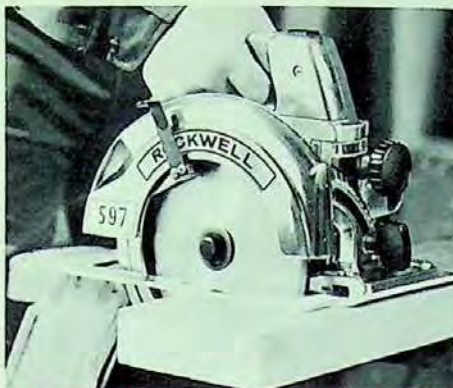
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