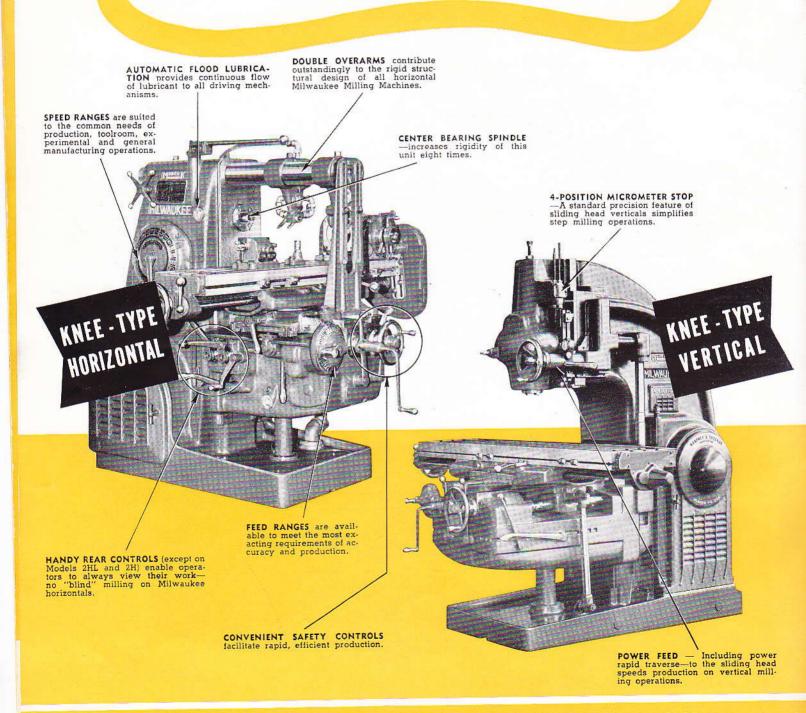
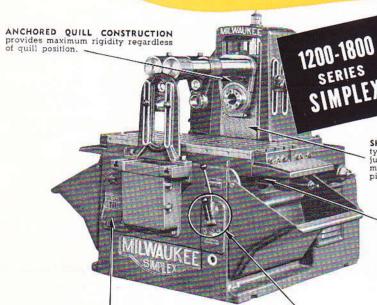


INCE 1898 the story of sound engineering, precision manufacturing and superior workmanship in *Milwaukee* Milling Machines has never changed. To users for 45 years it has meant thousands of hours of profitable, efficient performance. It is this quality of assured productivity in *Milwaukee* Milling Machines that brings satisfaction and justifies investment in them.

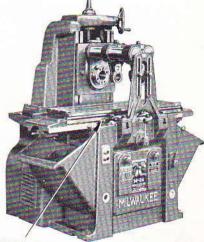


HATEVER problems of production may arise in the shop or in the toolroom, *Milwaukee* Milling Machines will be found adequately capable of doing the necessary milling. More than forty styles and sizes of knee type and bed type models are available, each having speed and feed ranges suitable to the requirements of materials used and the degree of accuracy and finish desired.



SPINDLE BLOCKS on bed type machines can be adjusted vertically to accommodate small or large workpieces alike.

> CLIMB CUT SCREW permits climb milling on bed type machines—results in improved finishes and reduced cutter wear.

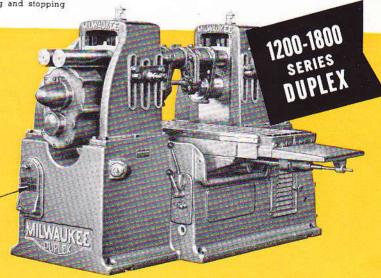


AUTOMATIC CYCLES for greater production are provided for in all Simplex and Duplex machines.

M-SERIES SIMPLEX

SPEEDS AND FEEDS are obtained by pick-off gears. 1200-1800 Series Models have available ten speed and eighteen feed changes. M-Series Models (shown right above) have sixteen changes each of speed and feed.

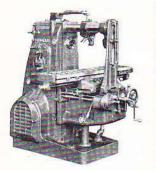
SIMPLE HYDRAULIC CONTROLS automatically actuate the clutches for feed, rapid traverse, intermittent cutting, automatic reverse and starting and stopping the spindle.



DUPLEX SPINDLE SPEED UNITS— Independent speeds are furnished for each spindle, permitting the use of different diameter cutters.

Milwaukee MACHINE TOOLS

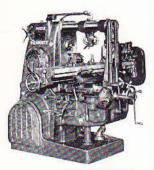
Milwaukee MILLING MACHINES



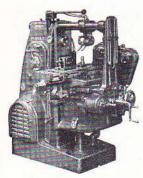
MODEL 2H PLAIN



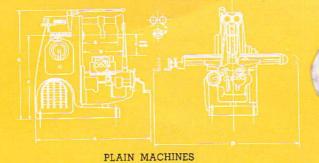
MODEL 5H PLAIN



MODEL 3K UNIVERSAL

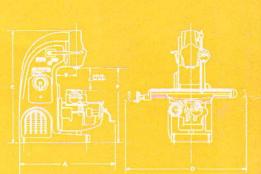


MODEL 2HL UNIVERSAL









VERTICAL	MACHINES	

DIMENSIONS AND

K	NEE	Т	YP	E	M	ACHIN	ES	— Р	LAIN		•	Uľ	II	ER	SA	L
Model	Table	Pov	wer Fe	ed Ra	nge	Range of Feeds	No.	Rapid	Range	No.	Motor	Wgt.	P	lan Din	nensions	
and Style	Working Surface	Long.	Cross	Vert.	Sh.		of Feeds	Traverse		of Speeds	H.P.	Lbs.	A	В	B'	
2HL			-C-1													
Plain		28"	10"	16"		12" to 20" L-C			35 to 1400		- 400	2700	561/4	2111/15	191/8	
Universal	46"x9"	28"	10"	16"		1/4" to 10" V	16	Yes	R.p.m.	16	- 3	3000	56 1/4	211/16	191/8	
Vertical		28"	10"	16"								3300	56 14	14		
2H		10°					. 1									
Plain		28"	10"	17"		16" to 20" L-C			35 to 1400			3750	601/4	245/6	211/4	
Universal	50"x10"	28"	10"	17"		14 to 10" V	16	Yes	R.p.m.	16	5	3950	6014	245/6	211/4	
Vertical		28"	12"	15"	4"		- 1650 - 1770	100				4250	601/4	14	1	
2K			J. W.		evillisiiii		96		Live III (LAVIE					
Plain		28"	10"	17"		W" to 60" L-C			15 to 1500			6100	691/4	26 1/8	23 3/4	
Universal	56"x12"	28"	10"	17"		1/4" to 60" L-C 1/8" to 30" V 1/8" to 30" SH	32	Yes	R.p.m.	24	7 1/2	6400	6934	261/6	233/8	
Vertical		28"	12"	14"	6"	28 10 30 131	174					6700	691/4	14	- 58	
3H					intel Intel							dir.	Jegiji.			
Plain		34"	12"	17"		16" to 30" L-C			20 to 1000			6150	69 14	267/6	23 3/8	
Universal	64"x13 ½"	34"	12"	17"	100 to 1	1/2" to 30" L-C 1/4" to 15" V 1/4" to 15" SH	16	Yes	R.p.m.	16	7 1/2	6450	69 1/4	267/6	23 3/8	
Vertical		34"	12"	14"	6"	4 00 10 211						6750	6914	14		
3K								- 10	- 25					I come		
Plain		34"	12"	18"	100	1/" to 60" L-C			15 to 1500			7800	7.00	311/16	27 3/4	
Universal	64"x 15½"	34"	12"	18"	100	14" to 60" L-C 15" to 30" V - 15" to 30" SH	32	Yes	R.p.m.	24	10	8250		30%	277/16	
Vertical		34"	14"	16"	7"							8800	75%	18		
4H	Henry 1970 Henry 1970			DI III	1110					-				I Service	100	
Plain		42"	14"	18"	(A)	1/4" to 30" L-C			20 to 1000	10		7850	- 0.000	30%	27%	-0-
Universal	74"x15½"	42"	14"	18"		14" to 30" L-C 14" to 15" V 14" to 15" SH	16	Yes	R.p.m.	16	10	8300	753/4	30%15	277/6	
Vertical		42"	14"	16"	7"							8850	753/4	18		
4K				vc7. T	ine mil					1				Loc	001/	
Plain		42"	14"	20"		1/4" to 60" L-C			13 to 1300	A STATE OF THE STA			86 34	36	321/2	
Universal	82"x18"	42"	14"	20"		¼" to 60" L-C 1%" to 30" V 1%" to 30" SH	32	Yes	R.p.m.	24	15	13200		36	321/2	
Vertical		42"	16"	20"	8"	,				-		14000	86 34	21		0
5H	TOTAL TOTAL			100 mm			HP(1)					200			0017	
Plain		52"	16"	20"	1700	1/" to 60" L-C			13 to 1300		15	12500		36	32 1/2	
Universal	94"x18"	52"	16"	20"		14" to 60" L-C 18" to 30" V - 18" to 30" SH	32	Yes	R.p.m.	24	or 20	100	86 3/4	36	32 1/2	
Vertical		52"	16"	20"	8"	1000000						14200	86.34	21		
5HM										5			1 000 0	no.	Local	
Plain	94"x18"	52"	16″	20"		14" to 60" L-C 15" to 30" V 15" to 30" SH	32	Yes	12 ½ to 500 or	16	25	-	86 34	36	321/2	
Vertical	34 A10	52"	16"	20"	8"	1/8" to 30" SH			13 to 1300 R.p.m.)		14250	86 34	21	Juli III	
*Reference	e: L—Lon	gitudir	nal; C-	-Cross	s; V-	Vertical; SH—S	liding	Head, F	eed and Spe	ed Ran	ges List	ed are	Standa	rd.		

SPECIFICATIONS







1200-1800 SERIES DUPLEX

M-SERIES SIMPLEX

VERTICAL

in Ir	State Ship				
C, Min	. C. Max	. D	Е	F	G
0	161/4	87 5/8	55 %	44	4%
0	151/4	87 1/2	55 1/8	44	49/16
- 0	1814	87 1/8	6934	46	
		ž – įvi	WHEN.		
.0	171/2	921/8	58 1/8	46	5%
0	16	92	58 1/8	46	53/16
0	171/4	92	70	46	
				- 1	
0	171/15	9934	62 1/2	48	63/8
0	1511/16	9934	621/2	48	63/8
0	191/16	99 5/8	751/8	50	
AND SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOL					
0	171/16	1133/4	62 1/2	48	6 3/8
0	1511/15	113 1/8	6232	48	6 3/8
0	191/16	11334	74	50	- KARA
				100	
0	181/8	117 3/4	661/4	50	71/4
0	16 1/2	1171/8	661/4	50	71/4
0	21	117 3/4	8134	52 3/4	977
8			-0		
0	181/8	1403/4	661/4	50	71/4
0	16 1/2	14034	661/4	50	71/4
0	21	1403/4	813/4	52 3/4	
,					
0	20	144	71	55	8%6
0	181/§	1421/4	71	55	8%
0	22	144 %	89	57	Language of the same of the sa
0	20	166	71	55	8%
0	181/8	164 7/8	71	55	8%
0	22	166	89	57	
			70		
0	20	166	71	55	8916
0	22	166	89	57	

BED TYPE MACHINES - SIMPLEX • DUPLEX

1200 - 1800 SERIES SIMPLEX

Machine Data	1224	1236	1248	1824	1836	1848	1854
A	63/8"	63/5"	63/8"	63/8"	68/8"	63/4"	68/8"
B (Min.)	37/8"	37/8"	37/8"	37/8"	37/8"	37/8"	37/4"
B (Max.)	107/8"	107/8"	107/8"	107/8"	101/8"	107/8"	10%"
C (Min.)	31/2"	31/2	31/2"	31/2"	31/6"	31/4"	31/4"
C (Max.)	121/2"	121/2"	121/2"	121/2"	121/4"	121/9"	1215"
D (Max.)	231/2"	231/2"	231/2"	291/2"	291/2"	291/5"	2916"
Table Working Surface	12"x42"	12"x54"	12"x66"	18"x42"	18"x54"	18"x66"	18"x72"
Power Table Feed	24"	36"	48"	24"	36"	48"	54"
Standard Feed Range	1/2"-20"	1/2"-20"	1/2"-20"	1/2"-20"	1/2"-20"	15"-20"	1/2"-20"
Number of Feeds	18	18	18	18	18	18	18
Power Rapid Traverse	120"/min.	120"/min.	120"/min.	120"/min.	120"/min.	120"/min.	120"/min
Standard Speed Range	30-200	30-200	30-200	30-200	30-200	30-200	30-200
Number of Speeds	10	10	10	10	10	10	10
Horsepower	73/2	7½	71/2	71/2	71/6	71/2	71.5
Weight (Lbs.)	7400	7800	8100	8000	8400	8800	9000

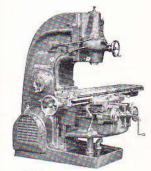
1200 - 1800 SERIES DUPLEX

Machine Data	1224	1236	1248	1836	1848	1854
A	63/8"	63/8"	63/8"	63/5"	63/5"	63/6"
B (Min.)	73/4"	734"	734"	1334"	1334"	1384"
B (Max.)	213/4"	2134"	213/4"	2734"	2734"	2734*
C (Min.)	3½"	31/2"	31/2"	31/2"	31/4"	314"
C (Max.)	121/2"	121/2"	121/2"	121/2"	121/5"	1215"
Table Working Surface	12"x42"	12"x54"	12"x66"	18"x54"	18"x66"	18"x72"
Power Table Feed	24"	36"	48"	36"	48"	54 "
Standard Feed Range	1/2"-20"	1/2"-20"	1/2"-20"	1/2"-20"	1/2"-20"	1/2"-20"
Number of Feeds	18	18	18	18	18	-18
Power Rapid Traverse	120"/min.	120"/min.	120°/min.	120°/min.	120"/min.	120"/min.
Standard Speed Range	30-200	30-200	30-200	30-200	30-200	30-200
Number of Speeds	10	10	10	10	10	10
Horsepower	10	10	10	10	10	10
Weight (Lbs.)	10750	11050	11350	11450	11750	12200

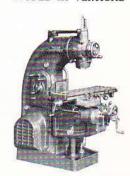
M - SERIES SIMPLEX

Machine Data	M-18	M-24	M-30
A	5916"	51/15"	5%"
B (Min.)	31/4"	31/4"	31/4"
B (Max.)	714"	71/4"	71/4"
C (Min.)	3"	3"	3"
C (Max.)	11"	11"	11"
D (Max.)	145/8"	145%"	145%"
Table Working Surface	13"x34"	13 "x40 "	13"x46"
Power Table Feed	18"	24"	30"
Standard Feed Range	½" to 20"	½" to 20"	½" to 20"
Number of Feeds	16	16	16
Power Rapid Traverse	150"/min.	150"/min.	150"/min.
Standard Speed Range	20-500 r.p.m.	20-500 r.p.m.	20-500 r.p.m
Number of Speeds	16	16	16
Horsepower	5	5	5
Weight (Lhs.)	4525	4600	4675

lilwankee MILLING **MACHINES**



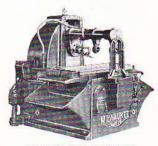
MODEL 4H VERTICAL



MODEL 2HL VERTICAL



M SERIES SIMPLEX



1200 SERIES SIMPLEX



1800 SERIES DUPLEX

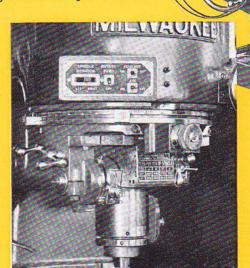
Milwaukee MACHINE TOOLS

THE ROTARY HEAD Milwaukee MILLING MACHINE

The performance record of this thoroughly different precision machine tool in the production of aircraft parts, optical instruments, plastics, forgings, die-castings, molds,

hobs and related work has been outstanding. The rotary head method of milling permits the usual job to be done faster and the difficult job easier. Work can be planned, laid out and completed at a single setup with exceptional accuracy.

Because you can't afford to overlook the possibilities of this machine tool, investigate its advantages in connection with your work by writing to Dept. RH., Kearney & Trecker Products Corporation.

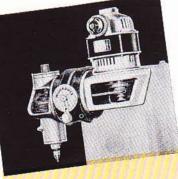


The unique feature of this unusual machine is the rotary movement of the head carrying the work spindle. Circular and angular movements of the spindle are thus made possible, and combined with the longitudinal and lateral movements of the table, they provide for cutting of all manner of geometrical



MIDGETMILL

The Midgetmill is a completely universal milling attachment, designed for application on the overarms of any make milling machine. This attachment mills, drills and bores with precision and speed. A Thou-Meter, reading in thousandths of an inch, eliminates costly errors in close work.

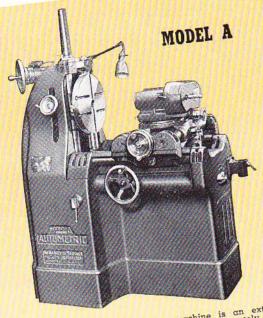


SPEEDMILL

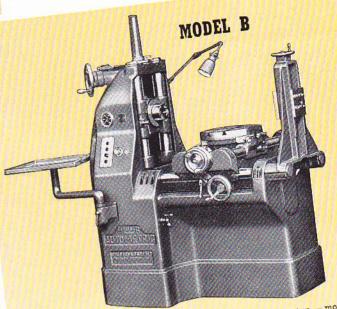
The Speedmill attachment is particularly efficient when using small end mills for accurate toolroom work. Speeds are available up to 5300 r.p.m. Applicable to any milling machine overarm, this attachment can be relied upon to perform smoothly with utmost rigidity in operation.



ROTARY HEAD MILLING MACHINE - MIDGETMILL - SPEEDMILL - CENTER SCOPE KEARNEY &



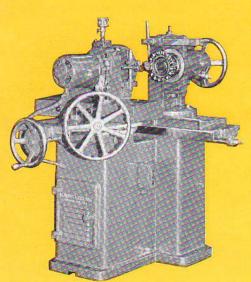
The Model A Autometric jig boring machine is an extremely versatile tool. Besides its ability to bore holes accurately at any locating, it is equally dependable for locating, inspecting and layout angle, it is equally dependable for locating, inspecting and layout work. These various operations can be performed in a single work. Investigate its possibilities — learn of its advantages, setup. Write for Bulletin SW-A.



Its ability to handle a complete job in a single setup — more accurately and more rapidly than ever before — makes the Model B Autometric indispensable equipment for the precise boring of a B Autometric indispensable equipment for the precise boring of wide variety of parts. Accurate measuring through the Autometric wide variety of parts. Accurate measuring through the Autometric method is an ever-present feature.

Write for Bulletin SW-B.

FACE MILL GRINDER



THREE-BEARING WHEEL SPINDLE WITH FLYWHEEL

JEWELED BEARING DIAL INDICATOR

CAPACITY — ALL FACE MILLS UP TO 16" IN DIAMETER

SPINDLE HEAD UPRIGHT SWIVELS 360° — VERTICAL RANGE 5%/"

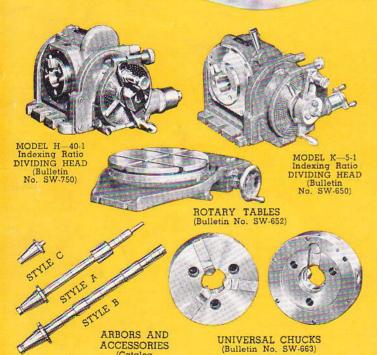
13" SADDLE CROSS FEED RANGE

No. 50 STANDARD TAPER SPINDLE The Milwaukee Face Mill Grinder is a heavy duty machine, incorporating every feature needed for properly sharpening face milling cutters, particularly those of the tungsten-carbide type. The basic design of this machine tool embodies strength, precision and capacity. Results from its use include: (1) faster cutting, (2) more accurate work, (3) better finishes, and (4) longer cutter life.

Milwaukee

ATTACHMENTS

The choice of attachments to broaden the working range of a standard milling machine is an important one. Milwaukee Milling Machine attachments and accessories - built to the same fine standards of accuracy found in Milwaukee Milling Machines—are available in types and sizes to meet the needs of any shop. Complete information may be obtained by requesting the bulletins listed under the illustrations.





PLAIN VISES (Bulletin No. SW-657) (Bulletin No. SW-657)

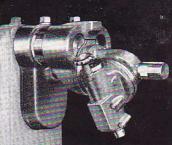
KEARNEY & TRECKER CORPORATION MILWAUKEE, WISCONSIN

(Catalog No. SW-42)

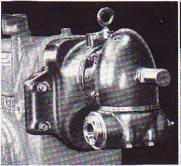
KEARNEY & TRECKER Products CORPORATION

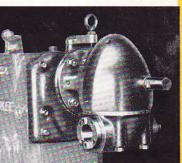
SUBSIDIARY OF KEARNEY & TRECKER CORPORATION

MILWAUKEE, WISCONSIN

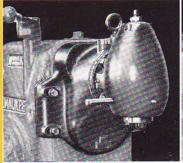


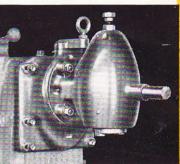
STANDARD HI-SPEED LIGHT HI-SPEED UNIVERSAL MILLING ATTACHMENTS (Bulletin No. SW-754) (Bulletin No. SW-751)



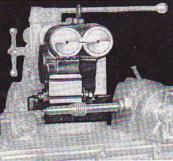


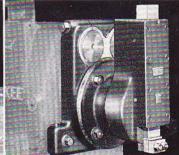
STANDARD UNIVERSAL HEAVY DUTY UNIVERSAL MILLING ATTACHMENTS (Bulletin No. SW-658) (Bulletin No. SW-753)





STANDARD VERTICAL HEAVY DUTY VERTICAL HEAV
MILLING ATTACHMENTS
(Bulletin No. SW-755) (Bulletin No. SW-752)





THREAD MILLING ATTACHMENT (Bulletin No. SW-653)

SLOTTING ATTACHMENT (Bulletin No. SW-656)

PRECISION MEASURING INSTRUMENTS (Bulletin No. SW-664)

FULL-BACK FACE MILL CUTTERS (Bulletin No. SW-665)

