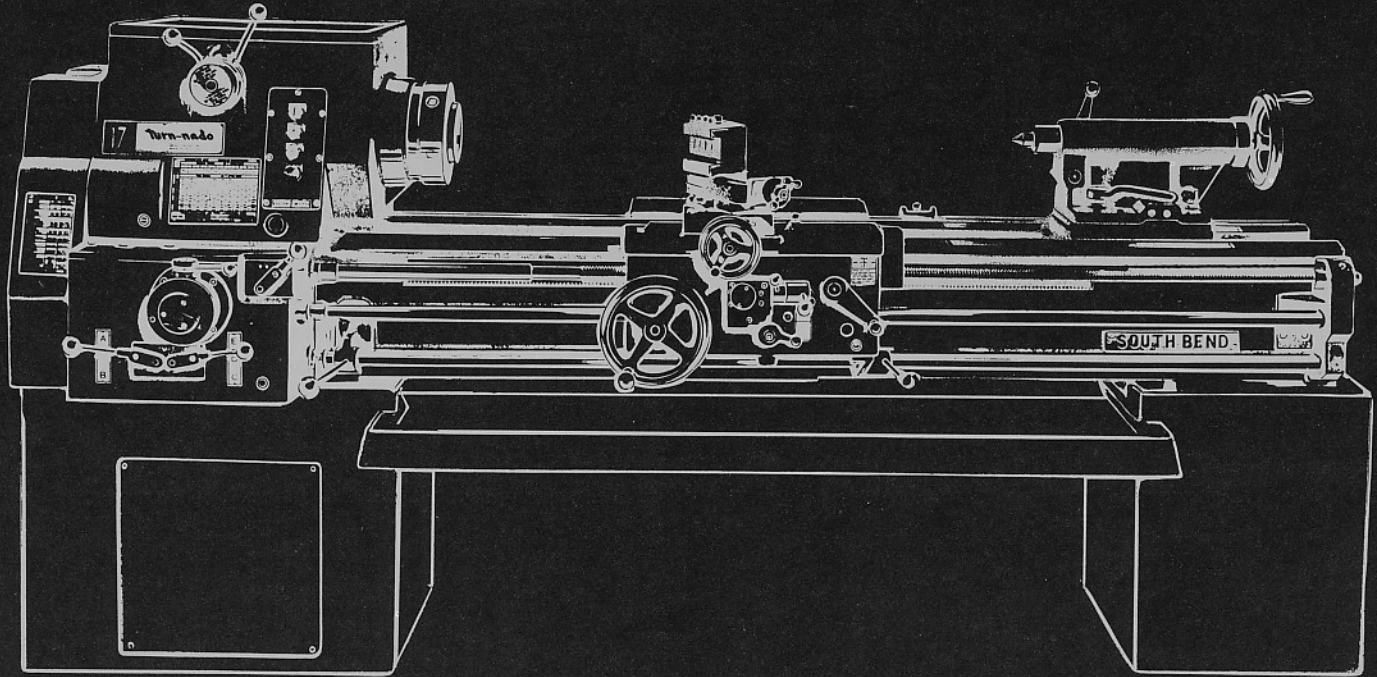


SOUTH BEND®



17" ^{turn-nado}® GEARED HEAD LATHE

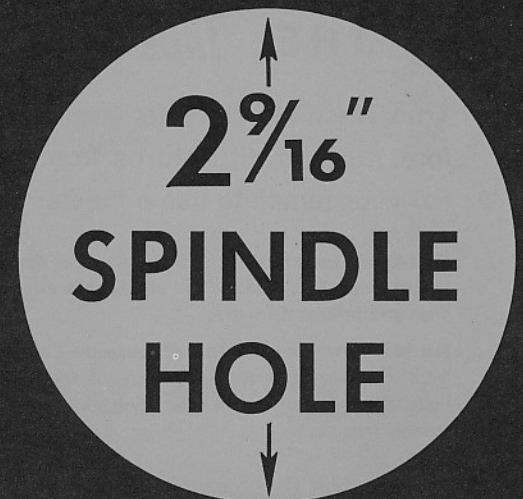
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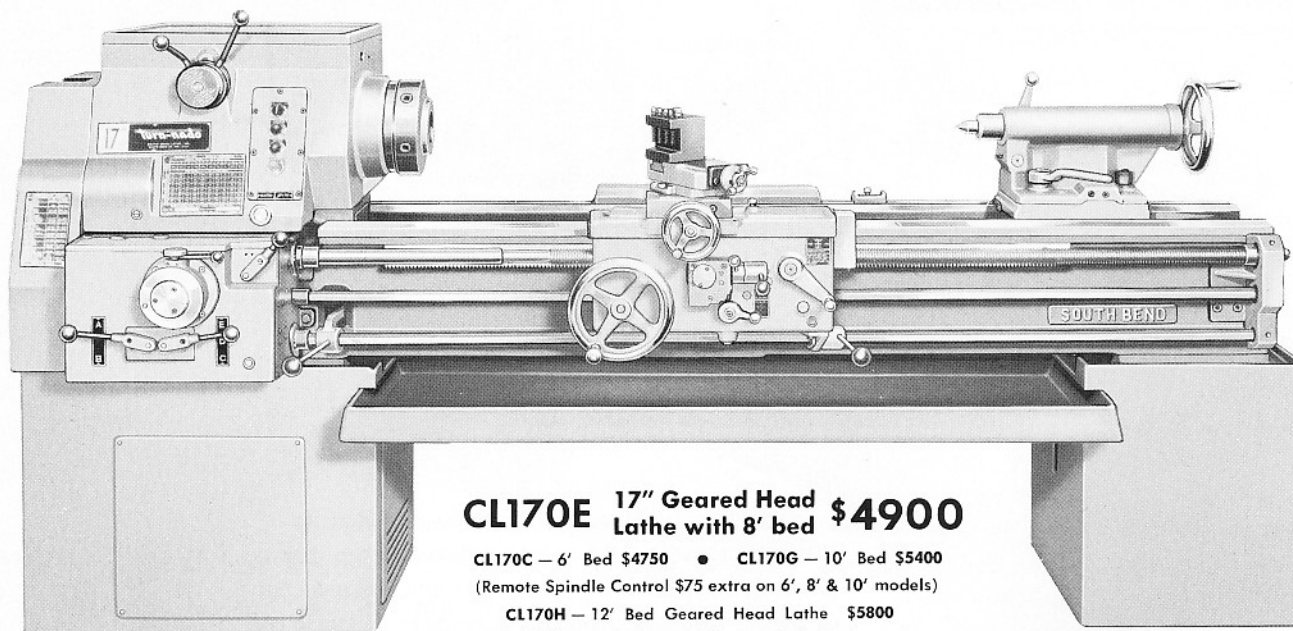
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425 EAST MADISON STREET
SOUTH BEND, INDIANA 46622



Bk. Rt.
U.S. POSTAGE
PAID
Permit 176
South Bend, Ind.

BEFORE YOU DECIDE ON YOUR NEXT LATHE



CL170E 17" Geared Head Lathe with 8' bed \$4900

CL170C — 6' Bed \$4750 • CL170G — 10' Bed \$5400

(Remote Spindle Control \$75 extra on 6', 8' & 10' models)

CL170H — 12' Bed Geared Head Lathe \$5800

Includes center leg and Remote Spindle Control

(Electricals Extra)

compare the 17" **Turn-nado** GEARED HEAD LATHE built by SOUTH BEND

In just two years, the popularity of South Bend's 17" Geared Head Lathe has spread throughout the metal-working industry.

By leaps and bounds our customers are discovering that with minimum investment this new lathe means faster machining from rough to finish—great capacity for work (a full 2-9/16" hole through spindle)—almost effortless operation—offering less chance for operator fatigue and resulting errors.

From head to tail this lathe offers more value for your dollar—with an 8" D-1 Cam Lock spindle nose standard equipment. Hardened and ground bed ways and cross-feed screws standard equipment. Built in leveling screws for headstock and tailstock—sliding chip pan with chip slide an integral part of bed. In every way designed to lower your costs, lessen down time and produce a greater profit for you.

Compare the 17" South Bend...and you'll buy South Bend

	South Bend	Lathe A	Lathe B
Headstock Bearing Area on Bed.....	21-3/4	21-1/8	20-9/16
Front Spindle Bearing.....	2 rollers	1 roller	1 roller
Hole through Spindle.....	2-9/16	1-49/64	1-3/4
Number of changes for Feeds.....	60	48	48
Number of Power Cross Feeds.....	60	48	48

In many ways a **SOUTH BEND**

COSTS LESS than competitive lathes.

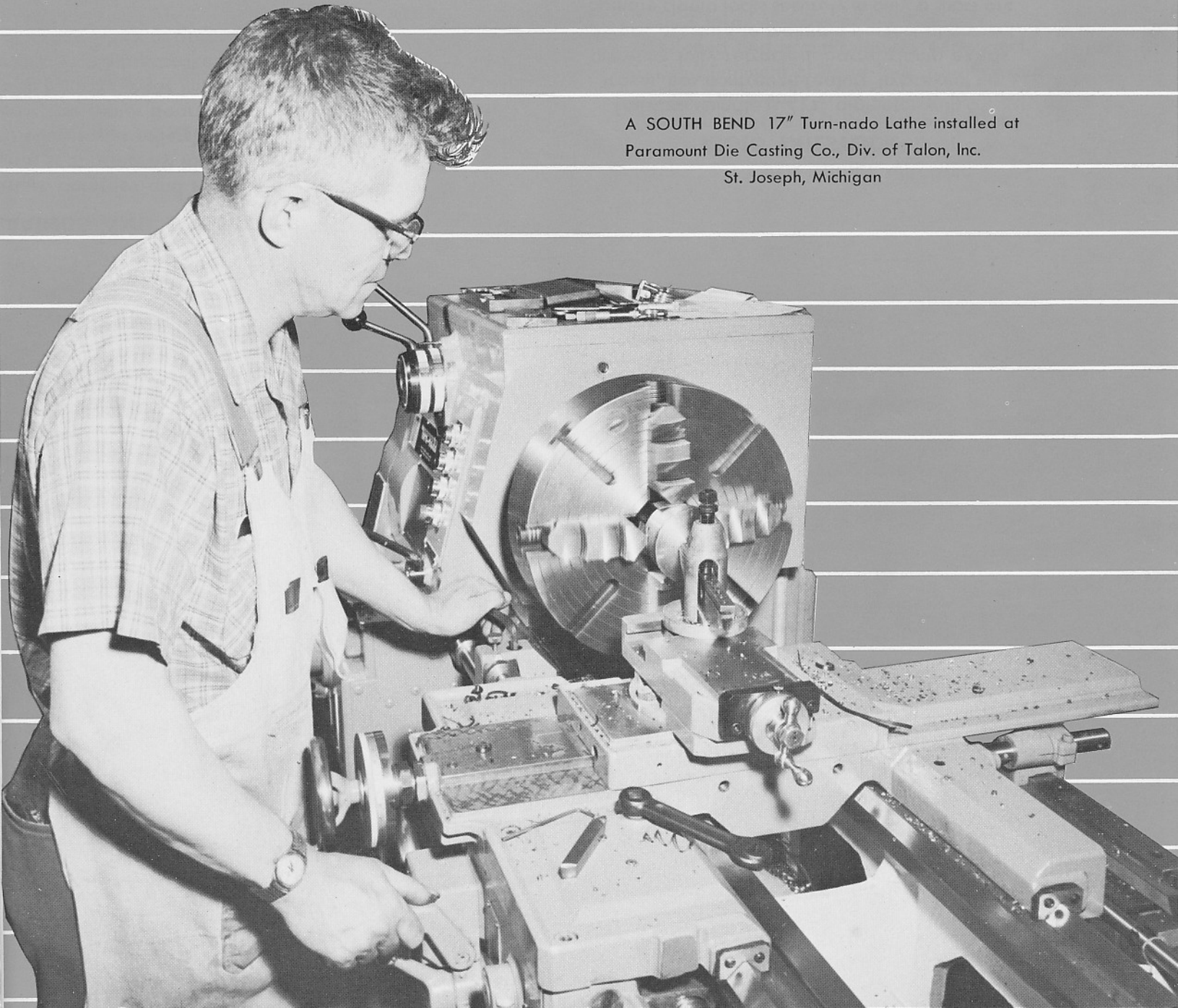
It will pay you to investigate the...

SOUTH BEND 17" Geared Head Lathe

YOU GET SOMETHING EXTRA when you buy SOUTH BEND

Take a lathe with 60 power feeds and 70 changes for threading • combine this tremendous range of speeds and feeds with a full 2-9/16" hole through spindle • build extra beef into the bed and headstock and tailstock to practically eliminate twist and deflection under heavy loads • place all controls in such a convenient position that operator "reach" is practically eliminated • add almost 60 years of lathe building experience and you will see why the South Bend 17" Turn-nado Geared Head Lathe is the most Productive—the most Accurate—the Biggest Lathe Value on the market today.

A SOUTH BEND 17" Turn-nado Lathe installed at
Paramount Die Casting Co., Div. of Talon, Inc.
St. Joseph, Michigan



S P E C I F I C A T I O N S

CAPACITY

Swing over bed and saddle wings	17-1/8"
Swing over cross slide	10-1/2"
Swing over cross slide without chip guard	11-1/4"
Swing over compound rest	4-1/4"

HEADSTOCK

Length on bed	21-3/4"
Front spindle bearing	6-5/8" O.D. Tapered Roller (2)
Intermediate spindle bearing	Bronze
Rear spindle bearing	Ball
Radial load capacity of front bearing at 100 rpm	24,600 lb.
Thrust load capacity of front bearing at 100 rpm	11,500 lb.
Spindle nose	8" D-1 Cam-lock
Size of center (Morse taper)	No. 5
Distance from spindle center to floor	44"
Hole through spindle	2-9/16"

SPINDLE SPEEDS

1800-rpm motor (single speed)	(9) 60 — 1580 rpm
900-rpm motor (single speed)	(9) 30 — 790 rpm
1800 — 900-rpm motor (two speeds)	(18) 30 — 1580 rpm
Recommended motor size	5 hp
Optional motor	7-1/2 hp
Recommended two-speed motor	5 — 2-1/2 hp or 7-1/2 — 3-3/4 hp

BED

Width	13"
Depth	12-1/8"
Length	6'6", 8'6", 10'6", 12'6"
Distance between centers	30", 54", 78", 102"

STANDARD EQUIPMENT

8" D-1 Cam-Lock Spindle, Hardened and Ground Bedways, Hardened and Ground Cross Feed and Compound Rest Screws, Chip Pan, Small Face Plate, Thread Dial Indicator, Open Side Tool Post, Thread Cutting Stop, Spindle Sleeve No. 4 MT 60° Center, No. 5 MT 60° Center and necessary Wrenches.

GEARBOX—THREADS & FEEDS

Number of thread selections	70
Range of threads (20T stud gear)	2-3/4 — 160 t.p.i.
Range of threads (40T stud gear)	1-3/8 — 2-1/2 t.p.i.
Range of longitudinal feeds (60)	0.0021 — 0.1242"
Range of cross-feeds (60)	0.0011 — 0.0678"
Lead screw	1-3/8" — 4

SADDLE

Length on bed	20-1/4"
Saddle bearing on ways in square inches62
Bridge width	7"
Cross-feed travel (without taper attachment)	12-1/4"
Cross-feed travel (with taper attachment)	14"
Compound rest travel	3-1/2"
Round tool post opening	13/16 x 2"

TAILSTOCK

Length on bed	11-3/4"
Spindle diameter	2-1/2"
Spindle travel	6"
Size of centers (Morse taper)	No. 4
Setover in either direction from center	1/2"

TAPER ATTACHMENT

Maximum taper per foot	4"
Maximum turning length at one setting	16"

EXTRA EQUIPMENT AVAILABLE

Taper attachment, Steady Rest, Follower Rest, Large Face Plate, Micrometer Carriage Stop, Square Turret, Lathe Chucks and many other accessories.

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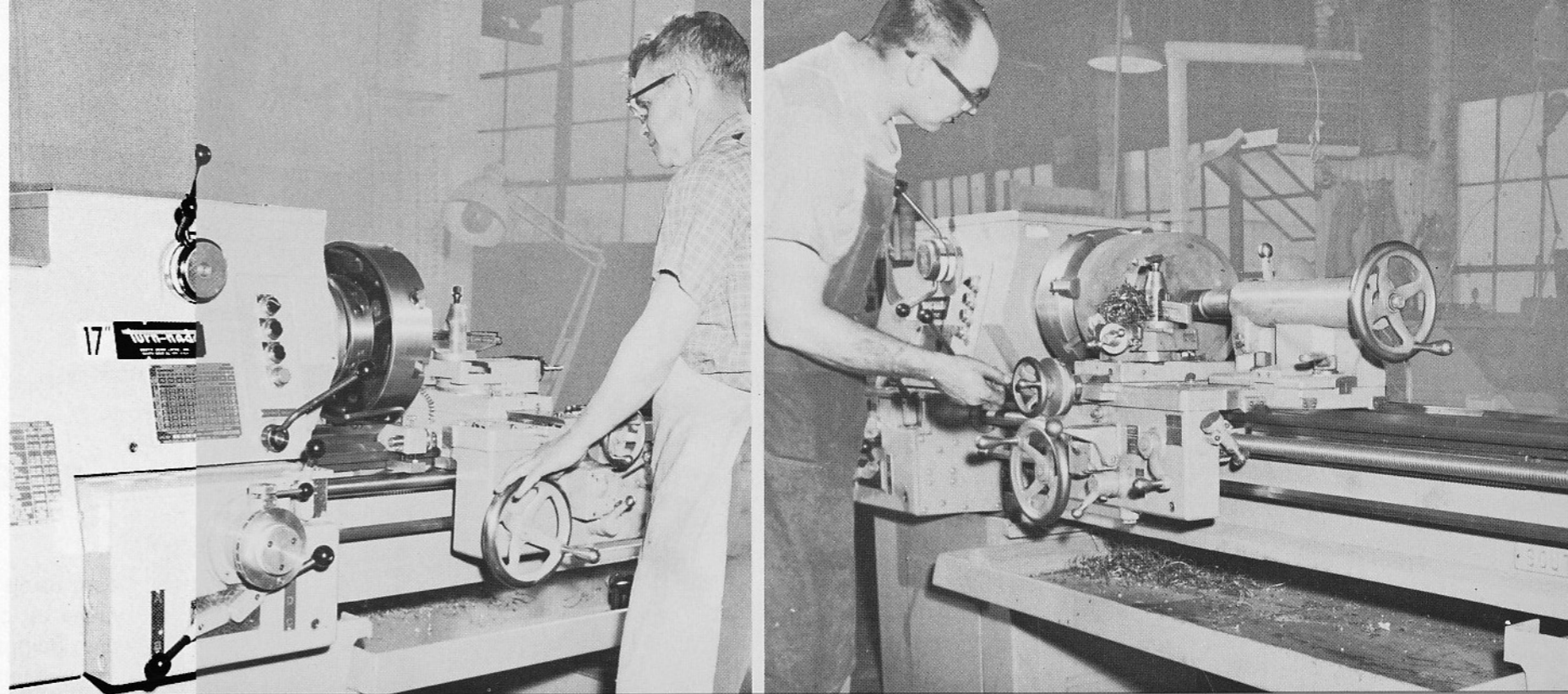
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 *Ample Parking Available

for High Precision Low-Cost Machining on every job

No matter what the operation, turning, threading, drilling, boring, this South Bend 17" Turn-nado lathe will do the job—Fast, Accurate...with minimum original investment • Large shop—small shop—this lathe has the features you need to "turn a profit" in today's competitive machining market • Throughout its entire design you'll find improvements that pay off in lower machining costs.



ALL GEARED HEADSTOCK

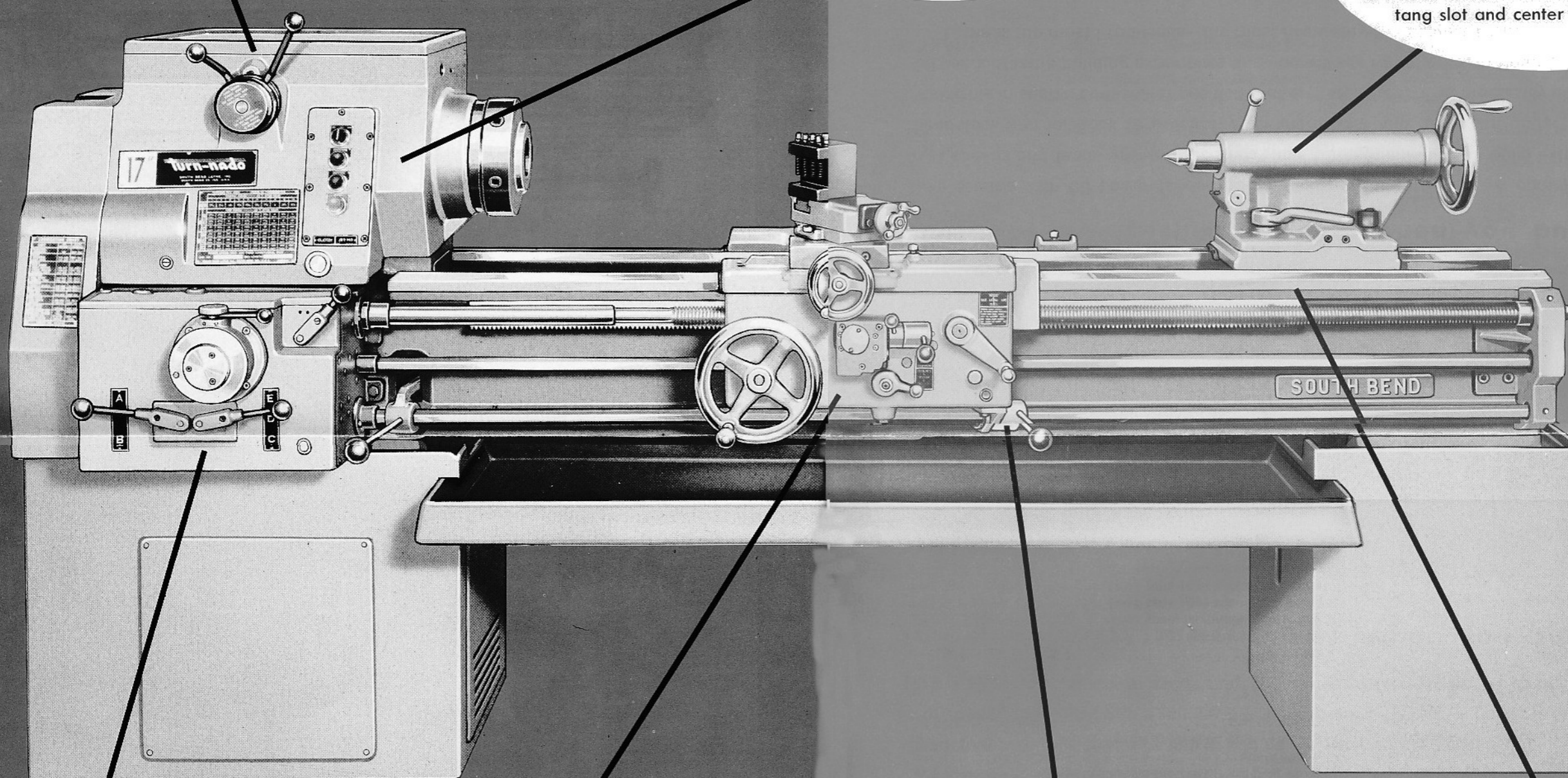
The massive headstock has all controls grouped for convenient operation. Operator moves two shifting levers to obtain any of the 9 or 18 available spindle speeds. Full gear drive transmits maximum horsepower through the entire range of feeds. Pressure oiling system showers oil on every moving part.

BEARINGS AND CONTROLS

To assure accuracy and stability the spindle is supported by four bearings, two opposing taper roller bearings, one adjustable bronze center bearing and one pre-loaded ball bearing. New improved friction disc clutch and spindle brake can be applied from headstock or apron position.

RIGID TAILSTOCK

Tailstock spindle is 2½" diameter with 6" travel, has nonfreeze feature to prevent tie up when fully retracted. Barrel clamp exerts upward pressure to maintain perfect alignment. Spindle clamp locks securely in only a short arc of travel. Center mark for setting tool height, tang slot and center ejector built in.



WIDE RANGE GEAR BOX

Totally enclosed gear box provides a selection of 70 screw threads, 60 changes for power longitudinal and power cross feeds. Self contained, constant flow oiling system keeps all moving parts bathed in oil. Thread selection from 1½ to 160 per inch.

APRON AND CARRIAGE

62 inches of bearing surface align the carriage positively on the bed ways. Direct reading micrometer collars graduated in thousandths of an inch. Hardened and ground screw threads on cross-feed and compound screws. Adjustable tapered gibbs.

OPERATING CONTROLS

NEW FEATURE Separate spindle and brake control located at the apron is standard equipment on 17" Turn-nado lathes with 12' bed. Can be obtained as extra on other bed length. This extra control, speeds up operator efficiency.

HARDENED BED WAYS

3 large V-ways and 1 flat way hardened and ground, insures permanent, precise alignment of headstock, tailstock and carriage. Diagonally cross braced to maintain accuracy. Brace design lets coolant and chips slide down and out the back of the bed into the chip pan.

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increase production

CONTOUR TURN — BORE — FACE — WITH THE **TRUE-TRACE** LATHE ATTACHMENT

True-Trace attachments give you more parts per hour, at less cost per part. Therefore, more Profit Returns from your lathe with set up time of just a few minutes. For your template use a master part or an inexpensive flat template.

Self Contained Unit—Uses its own set of dovetail ways and cylinder. Template rail and bracket power unit with all lines and fittings furnished.

No Machine Conversion Required—Can be moved from machine to machine quickly, easily—after initial installation. Tracer requires but a few minutes to install or remove from lathe.

Proven Hydraulic Operation—Trouble free hydraulic servo-valve and cylinder has proved itself in thousands of installations—Completely reliable—year after year.

Eliminates Operator Error—Only one dimension to measure then other dimensions stay true, part after part. Only low cost single point tools are used. Shape and contour are controlled by template and Tracer.

Photos at right show typical installation on 17" South Bend Lathes...

