

We
present the new

SOUTH BEND

Precision

VERTICAL MILLING MACHINE

20" x 20" x 20"

(Table travel x Spindle to table x Spindle to column)

Our selection of quality machine tools continues to grow with the addition of this new machine. We are proud to announce this Vertical Milling Machine and know that after you have perused the illustrations, features and specification data, you will be anxious to see it demonstrated.

At this printing we are filling our production schedules for January delivery. We invite you to visit our distributors in principal cities and see this new machine in action at that time.

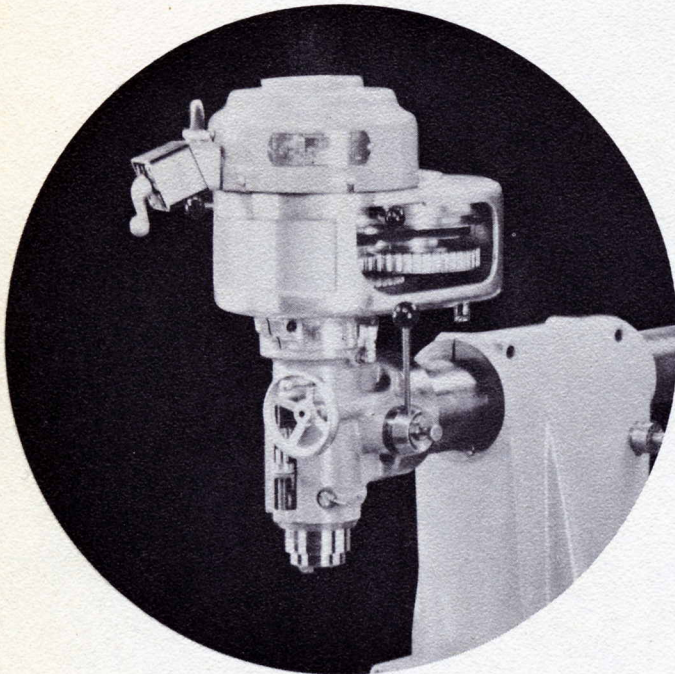


SOUTH BEND LATHE WORKS

features

COMPARE THESE FEATURES FOR PROOF

of Variety of Jobs . . . of Lower Set-up Costs . . . of More Efficient Production!



Eight spindle speeds, from 135 to 3750 R.P.M. or 90 to 2500 R.P.M.

Lo-Loss drive to spindle at all speeds, full utilization of horsepower at all times. Spindle driven by timing belt.

Dependable micrometer depth stop graduated in thousandths and positive quill lock.

4" Quill travel. (Manual feed standard. Automatic feed available as optional at extra cost on deferred delivery basis.)

Turnstile lever for rapid hand feed, disengages when worm and worm gear fine feed is used.

Collet capacity to $\frac{3}{4}$ " — individual tool holders to 1" capacity.

Quill $3\frac{1}{4}$ " diameter — ground and precision fitted to bored and honed head.

Head semi-steel casting honed to a perfect precision fit to quill — 360° rotation of head by worm and gear.

Spindle hardened and ground alloy steel, $1\frac{1}{4}$ " — 10 spline drive — No. 30 milling machine taper and precision bearings. Face tapped to receive four $\frac{3}{8}$ "-16 mounting screws.

$4\frac{1}{2}$ " diameter flanged ram with rack and permanently fitted pinion with tapered gib for easy, positive and accurate in and out movement of ram — this feature allows and increases the cross milling capacity and assures accurate movement for change in set-ups.

Rugged, heavy ribbed column, knee and table construction with wide dovetail ways and tapered gibs for maximum rigidity.

Precision anti-friction bearings throughout.

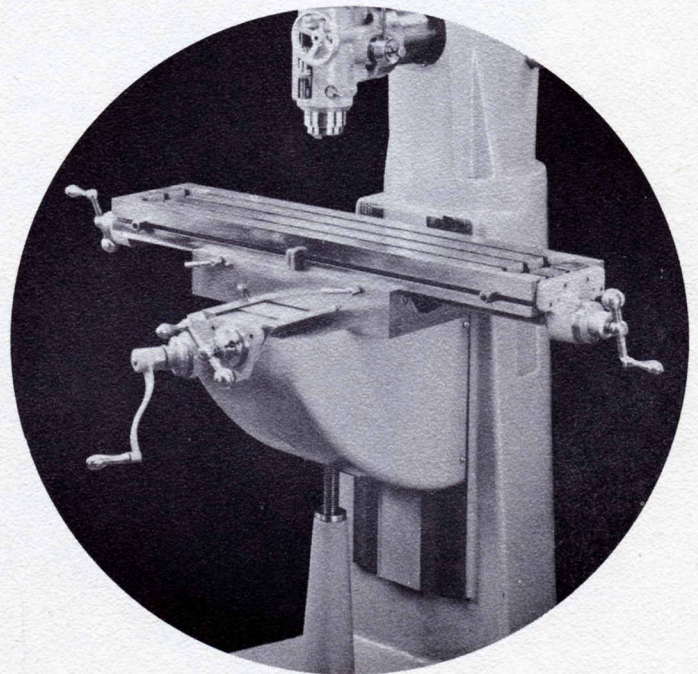
Alemite lubrication to all flat bearing surfaces. Oil reservoir for spindle lubrication.

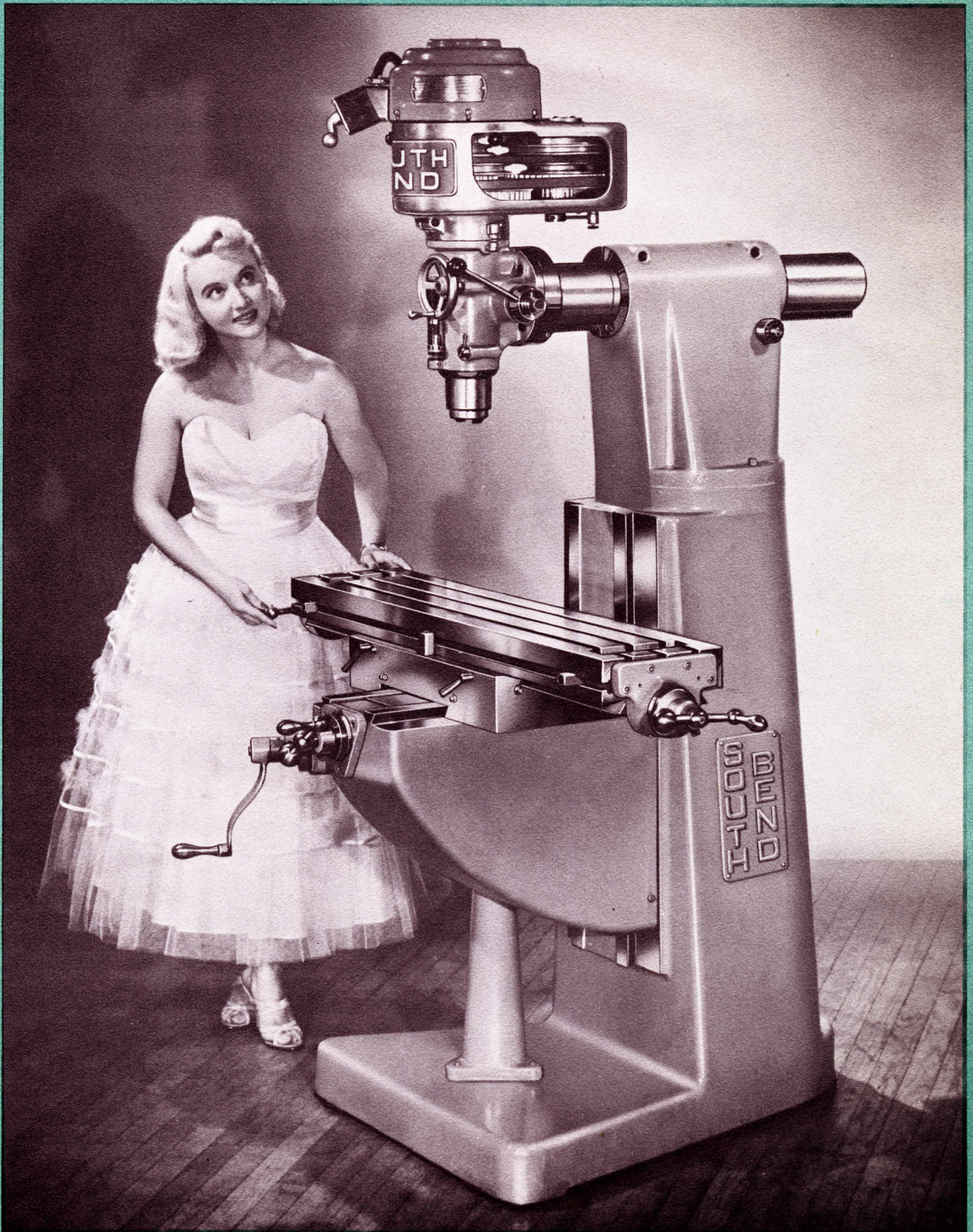
$1\frac{1}{4}$ " — 5 pitch acme precision feed screws. All fitted with large easy to read, graduated adjustable collar reading in thousandths.

Adjustable stops in "T" slot for regulating length of table travel.

Manual longitudinal and cross feeds to table are standard equipment. Power longitudinal feeds available as optional at extra cost on deferred delivery basis.

Troughs and precision measuring bars with dial indicator stops are available as optional at extra cost on deferred delivery basis.





price **\$1675.00** F. O. B. South Bend, Indiana
WITH STANDARD EQUIPMENT

SPECIFICATIONS

Table lengths	32" — 42"								
(42" Table optional at extra cost)									
Table width	9"								
Longitudinal table travel	20" - 30"								
Cross feed	9½"								
Vertical feed of knee	18"								
Maximum distance spindle to table	20"								
Maximum spindle to column	20"								
Ram travel by rack and pinion	15"								
Spindle taper	#30M.M.								
Number of spindle speeds	8								
Spindle speeds based on choice of motor:									
1 HP — 1800 RPM motor —	<table border="0"> <tr> <td>135</td> <td>220</td> <td>350</td> <td>560</td> </tr> <tr> <td><u>900</u></td> <td><u>1450</u></td> <td><u>2330</u></td> <td><u>3750</u></td> </tr> </table>	135	220	350	560	<u>900</u>	<u>1450</u>	<u>2330</u>	<u>3750</u>
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¾ HP — 1200 RPM motor —	<table border="0"> <tr> <td>90</td> <td>150</td> <td>230</td> <td>375</td> </tr> <tr> <td><u>600</u></td> <td><u>965</u></td> <td><u>1550</u></td> <td><u>2500</u></td> </tr> </table>	90	150	230	375	<u>600</u>	<u>965</u>	<u>1550</u>	<u>2500</u>
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Spindle travel	4"								
Head rotation	360°								
Approximate net weight	1600 lbs.								

Above specifications subject to change without formal notice.

STANDARD EQUIPMENT

Choice of motor as follows:

1 HP 3 phase 60 cycle 220/440 volt
1800 RPM motor

¾ HP 3 phase 60 cycle 220/440 volt
1200 RPM motor

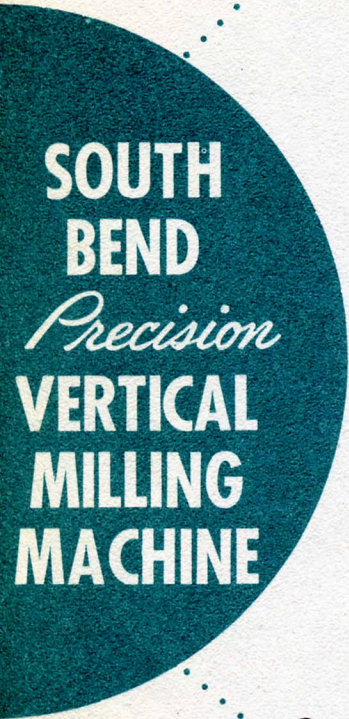
Reversible switch for right and left hand rotation

9"x32" Table

Master collet holder, Wrench and Four Collets —
Sizes ⅜" — ½" — ⅝" — ¾"

OPTIONAL AT EXTRA COST

42" Table 30" Travel	\$75.00
Collets — ¾" maximum	\$3.00 each
Tool makers Vise	\$87.00
Extra Jaws	\$20.00
Cutter Arbor	\$38.00



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SOUTH BEND 22, INDIANA, U. S. A.