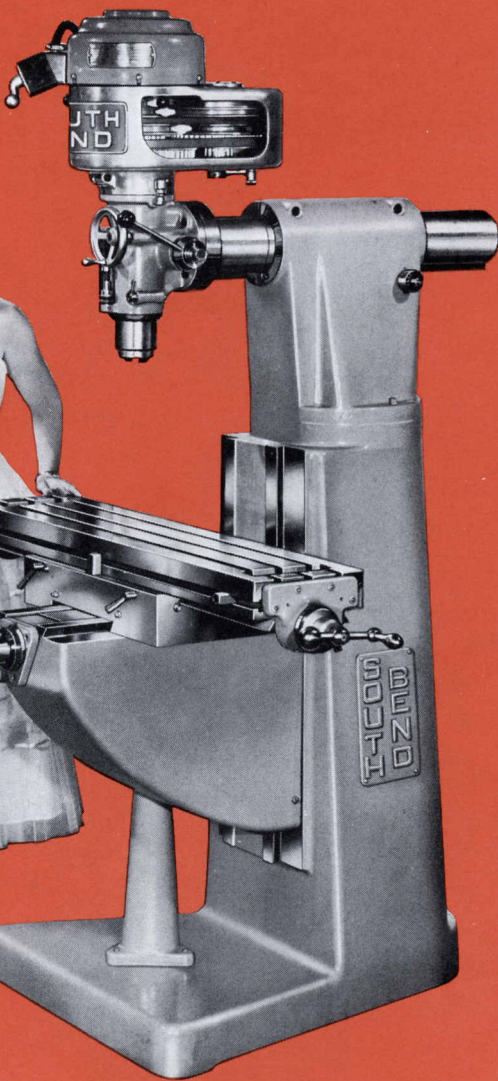


*meet the new
member of the
South Bend family*



Precision

VERTICAL MILLING MACHINE

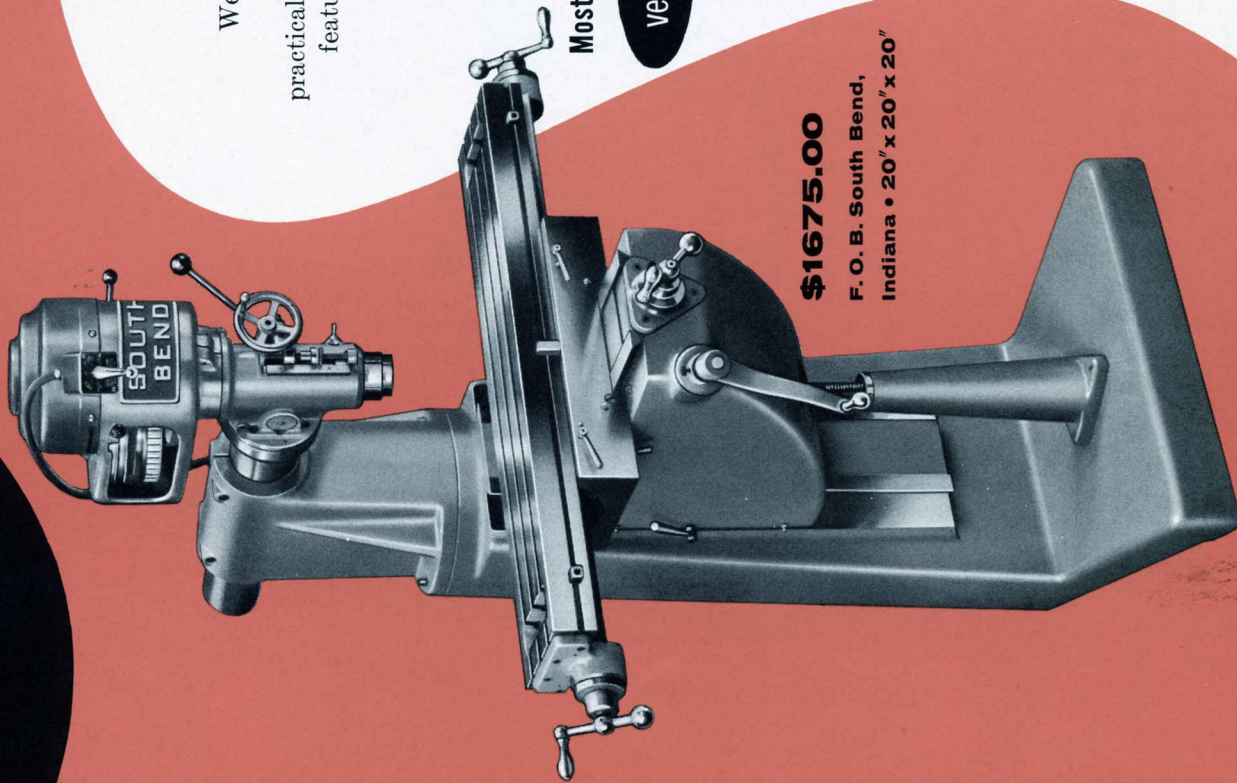
South Bend introduces...

A NEW MILLING MACHINE—offering you versatility and productivity at low cost. Here's a miller that is new from head to foot—designed with all the common-sense ideas for which your shop men have been asking. You'll find it has exceptional rigidity; that it is quick and easy to set up; that its accuracy is true and long-lasting. Operators will like its ease and practicability—management will appreciate its cost-consciousness.

The new
South Bend—

The greatest milling machine value

for Toolroom, Production Shop, Tool and Die Shop!



\$1675.00

F. O. B. South Bend,
Indiana • 20" x 20" x 20"

We think that you will find this new South Bend Vertical Milling Machine to be one of the finest and most practical engineering jobs in the machine tool field. Its operating features, plus its price, spell greater productivity at reduced costs. Listed below are the detailed features which tell the story, but you cannot really appreciate the efficiency of this machine until you see it in operation. Be sure to inspect it at Booth #543, Metalworking Equipment Exposition.

Most important points to check about a milling machine—

versatility!

productivity!

price!

Compare the features for proof

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

- 1 Eight spindle speeds, from 135 to 3750 R.P.M. or 90 to 2500 R.P.M.
- 2 Lo-Loss drive to spindle at all speeds, full utilization of horsepower at all times. Spindle driven by timing belt.
- 3 Dependable micrometer depth stop graduated in thousandths, and positive quill lock.
- 4 4" quill travel. (Manual feed standard. Automatic feed available as optional at extra cost on deferred delivery basis.)
- 5 Turnstile lever for rapid hand feed, disengages when worm and worm gear fine feed is used.
- 6 Collet capacity to 3/4"—individual tool holders to 1" capacity.
- 7 Quill 3 3/4" diameter—ground and precision fitted to bored and honed head.
- 8 Head semi-steel casting honed to a per-foot precision fit to quill—360° rotation of head by worm and gear.
- 9 Spindle hardened and ground alloy steel, 1 1/4"—10-spline drive—No. 30 milling machine taper and precision bearings. Face tapped to receive four 3/8"-16 mounting screws.
- 10 4 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.
- 11 Rugged, heavy ribbed column, knee and table construction with wide dovetail ways and tapered gibs for rigidity.

Specifications

| | | | | |
|--|-----------|------|------|------|
| Table length | 32" | | | |
| (42" Table Optional At Extra Cost) | | | | |
| Table width | 9" | | | |
| Longitudinal table travel | 20"—30" | | | |
| Cross feed | 9 1/2" | | | |
| Vertical feed of knee | 18" | | | |
| Maximum distance spindle to table | 20" | | | |
| Maximum distance spindle to column | 20" | | | |
| Ram travel by rack and pinion | 15" | | | |
| Spindle taper | #30 M.M. | | | |
| Number of spindle speeds | 8 | | | |
| Spindle speeds based on choice of motor: | | | | |
| 1 H.P. 1800 R.P.M. motor | 135 | 220 | 350 | 560 |
| | 900 | 1450 | 2330 | 3750 |
| 3/4 H.P. 1200 R.P.M. motor | 90 | 150 | 230 | 375 |
| | 600 | 965 | 1550 | 2500 |
| 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 H.P. 3 phase 60 cycle 220/440 Volt 1800 R.P.M. motor,
- 3/4 H.P. 3 phase 60 cycle 220/440 Volt 1200 R.P.M. motor.

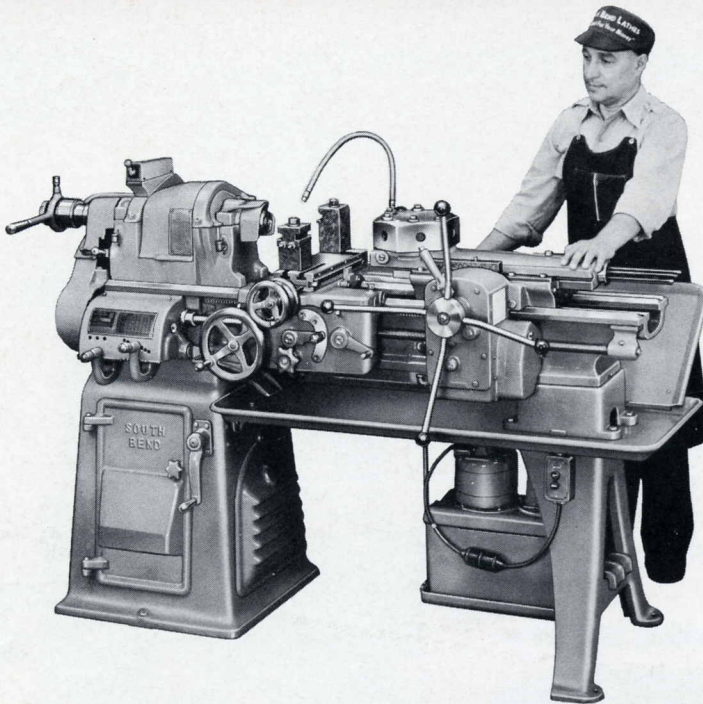
Reversible switch for right and left hand rotation.

Master collet holder, wrench and four collets—sizes 3/8"—1/2"—5/8"—3/4".

- 12 All bearings precision anti-friction.
- 13 Alemite lubrication to all flat bearing surfaces. Oil reservoir for spindle lubrication.
- 14 1 1/4"—5-pitch Acme precision feed screws. All fitted with large, easy to read, graduated adjustable collar reading in thousandths.
- 15 Adjustable stops in "T" slot for regulating length of table travel.
- 16 Manual longitudinal and cross feeds to table are standard equipment. Power longitudinal feeds available as optional at extra cost on deferred delivery basis.
- 17 Troughs and precision measuring bars with dial indicator stops optional at extra cost on deferred delivery basis.

See the new South Bend in action at the Metalworking Equipment Exposition, Booth #543, Chicago Coliseum.

Another South Bend 1st At The Show—
NEW 13" TURRET LATHE



Greater productivity from new tools is highlighted in this new Turret Lathe. Containing all the South Bend advantages of an engine lathe, this new turret lathe features operating convenience and tooling arrangement which make for greater speed, simplified set-up and reduced down-time. For greater output at reduced investment—See the new 13" South Bend Precision Turret Lathe at Booth 543, Metalworking Equipment Exposition, Chicago Coliseum.

9-55

Copyright 1955 by South Bend Lathe Works. All rights reserved.

Printed in U.S.A.

South Bend Lathe Works, South Bend 22, Indiana.

Send the following information regarding your new Vertical Milling Machine:

- Complete description, specifications, prices
- Quotation
- Name of nearest authorized Dealer

Company _____

Name _____

Street _____

City _____ State _____

Building Better Tools Since 1906 • SOUTH BEND LATHE • South Bend 22, Indiana