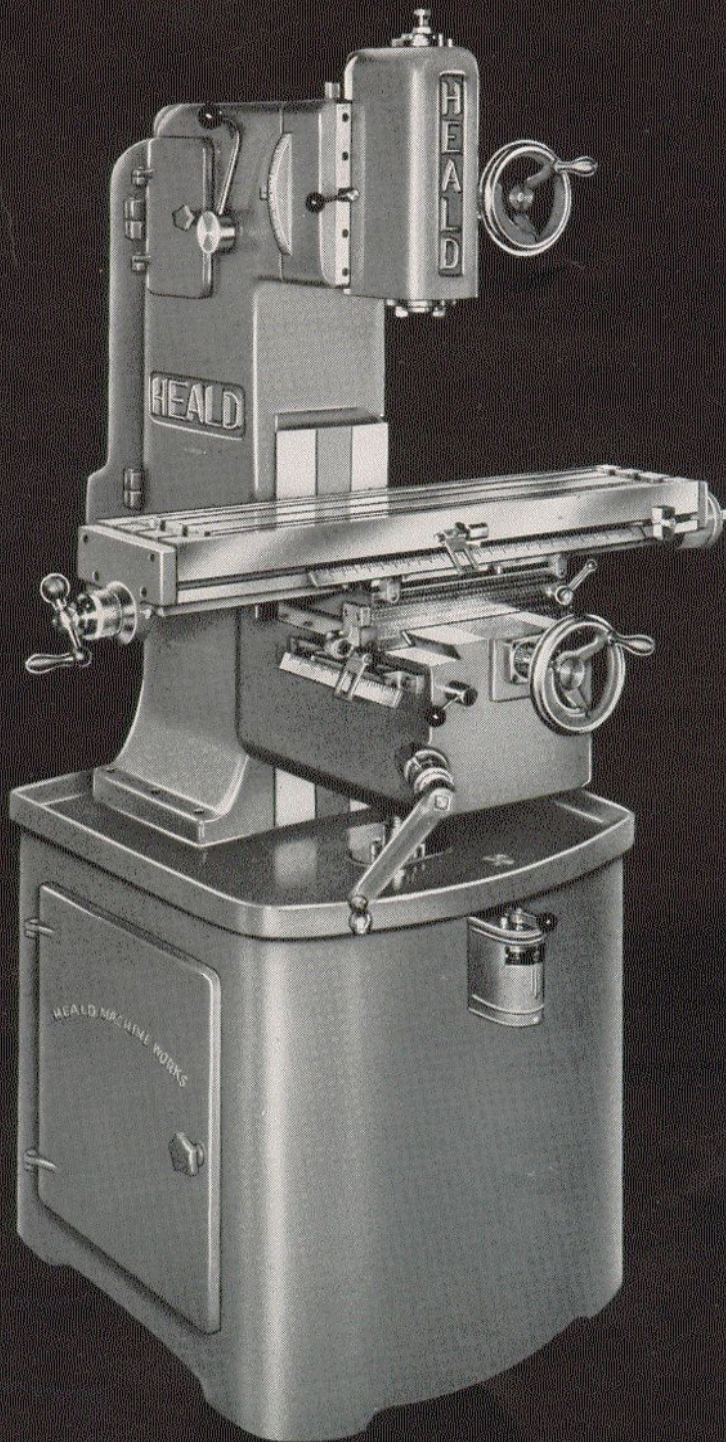


HEALD

*Milling
Machines*



No. 1-V
Heavy Duty
Vertical
Back Geared
MILLING
MACHINE

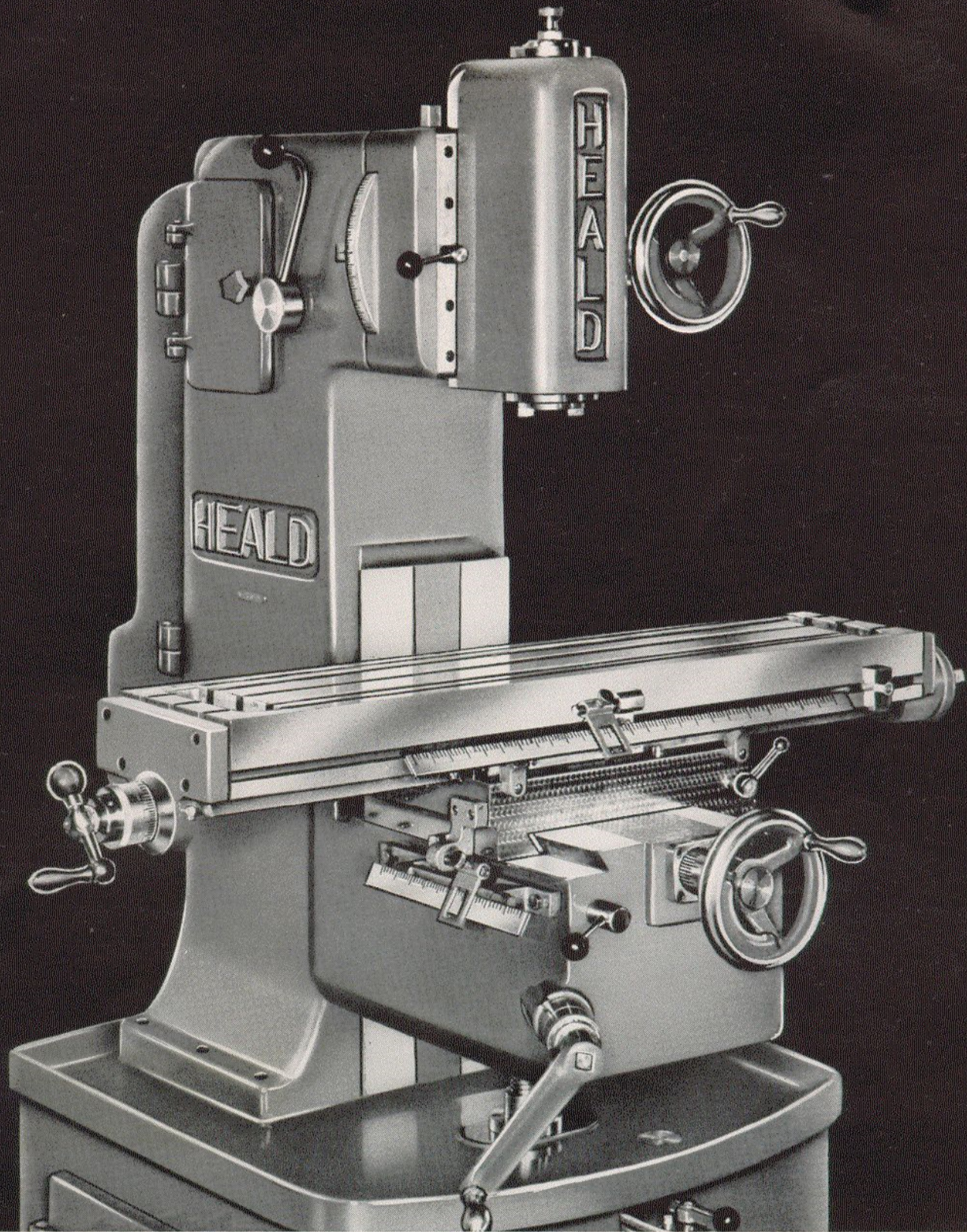
Wright & Gade Tool Company
3701 N. Broad Street
Phila. 40, Penna.
Telephone - BA-3-9430

HEALD MACHINE WORKS

1835 STEWART AVE.

SPRINGFIELD, MISSOURI

HEALD MILLI



No. 1V HEAVY DUTY VERTICAL BACK GEARED MILLING MACHINE

HEALD MACHINE WORKS

NG MACHINE

Features of the
**No. 1V HEAVY DUTY VERTICAL BACK GEARED
MILLING MACHINE**

Precision Built—

The Heald Milling Machine is a precision built machine tool, designed to meet the requirements of heavier, higher priced equipment. All dovetails and sliding surfaces ground finished, including table top.

Wide Range—

The wide range of spindle speeds on this back geared machine makes possible the use of larger cutters and deeper, smoother cuts.

Back Gears—

Back Gears Mounted on ball bearings, are engaged by moving outside lever to forward position. Direct drive in back position. Can be shifted while machine is running.

Drive—

By three-step cone pulley on motor to counter-shaft. From counter-shaft to spindle by four-step cone pulley. Twelve speeds by direct belt drive and twelve speeds by back-gears. Back-gears engaged from outside of machine by single lever. Motor switch with forward, stop and reverse positions conveniently located at front of machine. Vee-type belts of large section and long length used for spindle drive.

Coolant System—

Extra—Oil pan and strainer built in top of base. Coolant tank, motor-driven pump and piping can be furnished as extra equipment.

Motor Recommended—

2 H. P. 1725 R. P. M.

Extra Equipment— Furnished to Order—

Plain and Swivel Vises.
Coolant Tank, Pump and Piping.

One-Piece Column—

The column on this machine is a heavy one-piece casting.

Ball Bearing Thrusts—

All screws on this machine have ball bearing thrusts.

Quick Setting Dials—

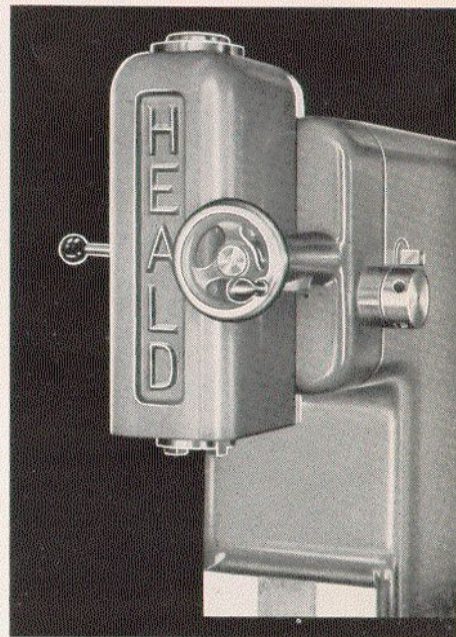
Large quick setting dials accurately graduated in .001. Table screw .002.

Box Type Knee—

Box type knee with long 55 ways assuring long wear and extreme accuracy.

Gibs—

Tapered Gibs assure close adjustment to maintain even bearing at all times.



EITHER HAND WHEEL OR SIDE LEVER
CAN BE USED TO FEED HEAD

Manufactured by

**HEALD MACHINE WORKS
SPRINGFIELD, MISSOURI—U. S. A.**

SPRINGFIELD, MISSOURI

GENERAL SPECIFICATIONS

HEALD PRECISION No. 1-V MILLING MACHINE

ALL CASTINGS NORMALIZED

Capacity—

Longitudinal Feed 22"
Traverse Feed 7"
Vertical Feed 11½"
Head Travel 3"

Longitudinal feed automatic. Hand traverse and vertical feed.

Table—

Size over-all 7⅝" x 34"
Working surface 7⅝" x 28½"
T-slots, number and size Three 9/16"
Hand rapid travel, fully enclosed.

Feeds—

Eight feeds in thousandths per revolution of spindle, .0015, .0025, .004, .0055, .0065, .009, .015, .024.

Feed changes made by shifting two Vee-belts on cone pulleys.

Automatic feed tripping mechanism furnished as standard equipment.

Spindle—

Steel—4140 H.T.

Mounted on precision Timken tapered roller bearings.

Hole through spindle 19/32

Standard Milling Machine Tapered Spindle #30

Spindle Speeds Number 24

Spindle speeds—Range 75, 105, 160, 190, 240, 265, 295, 340, 365, 400, 470, 530, 600, 700, 750, 800, 960, 1050, 1140, 1390, 1550, 2130, 2370, 3000.

Floor Space—

At right angles to spindle 96"

Parallel to spindle 96"

Weight—Approx. 2300 lbs.

Vertical Head—

Swivels in vertical plane 180, travels 3"

Vertical Head operates by hand wheel or lever.

Throat depth, clearance 9½"

Clearance over dovetails 8¼"

Greatest distance from end of spindle to face of table 14½"

DISTRIBUTED BY

WRIGHT & GADE TOOL CO.
Production and Machine Tools
3701 NO. BROAD STREET
PHILADELPHIA 40, PA.
Baldwin 3-9430