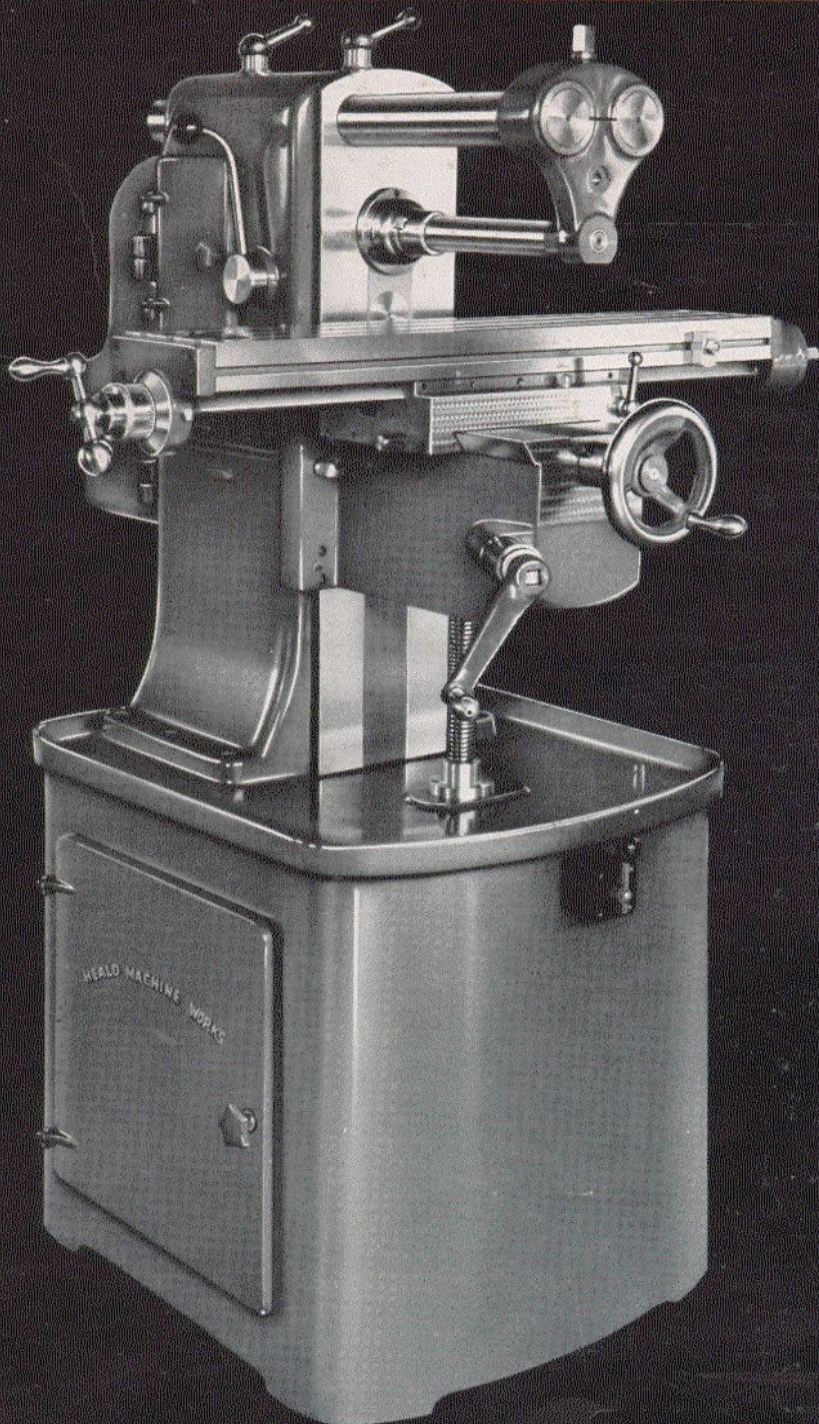


HEALD

*Milling
Machines*



No. 1-B
Heavy Duty
Horizontal
Back Geared
MILLING
MACHINE

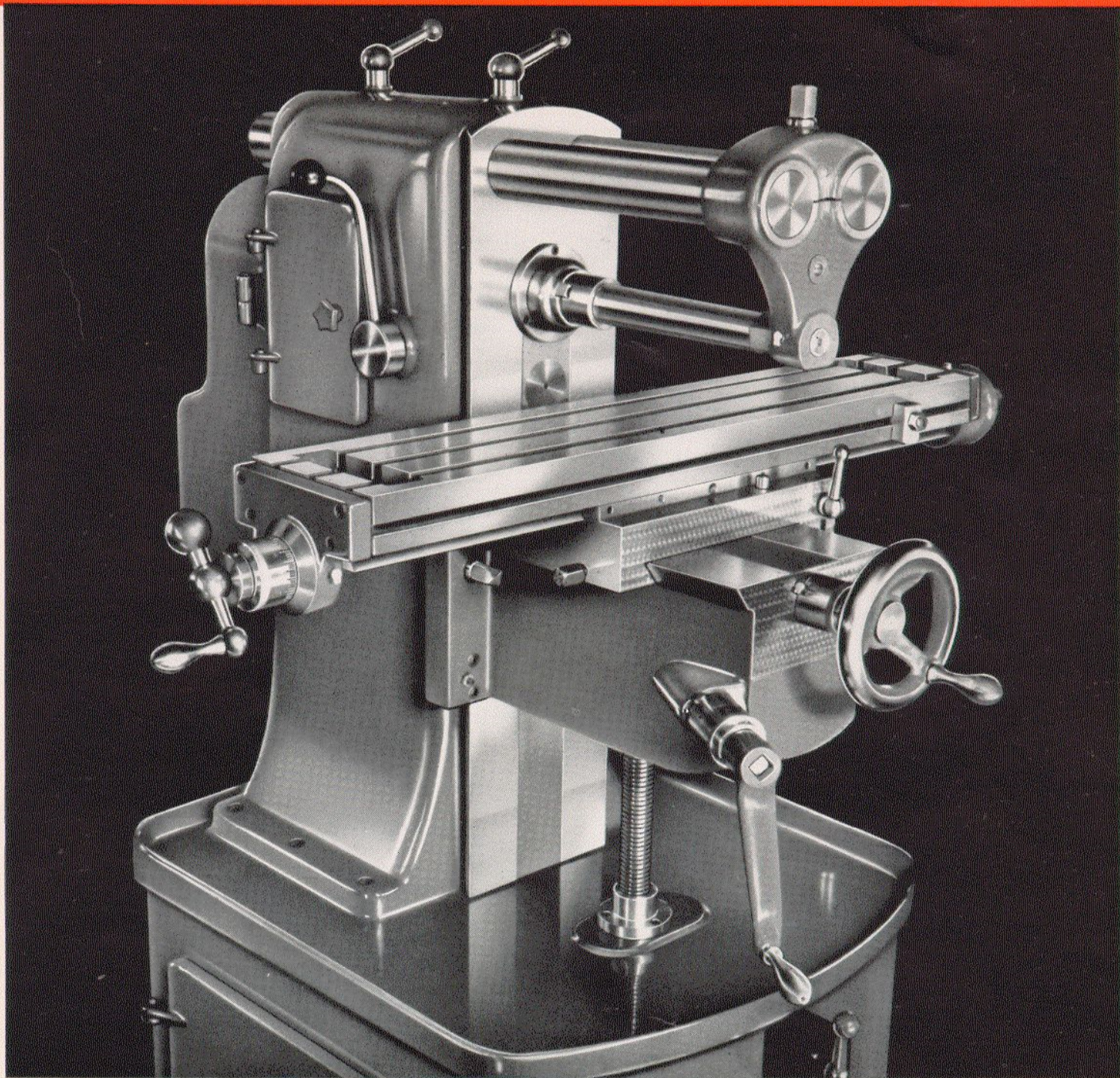
Wright & Gade Tool Company
3701 N. Broad Street
Phila. 40, Penna.
Telephone - BA-3-9430

HEALD MACHINE WORKS

1835 STEWART AVE.

SPRINGFIELD, MISSOURI

HEALD MILLI



No. 1-B HEAVY DUTY HORIZONTAL BACK GEARED
MILLING MACHINE

Sturdy spindle drive with quick cam acting release loosens motor and spindle belts for easy shifting. Ample adjustment for $\frac{5}{8}$ V. Belts. Power feed is operated through hardened and ground worm. Quick release lever makes feed changes easy. Feed pulleys are mounted in yokes with two full bearings, assuring uniform belt tension

HEALD MACHINE WORKS

NG MACHINE

No. 1-B HEAVY DUTY HORIZONTAL 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.

One-Piece Column—

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

Arbor Support—

2 Heavy $2\frac{1}{4}$ inch overarm shafts are held rigid by two locks on column.

Drive—

By two-step cone pulley on motor to counter-shaft. From counter-shaft to spindle by four-step cone pulley. Eight speeds by direct belt drive and eight 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.

Wide Range—

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

Box Type Knee—

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

Ball Bearing Thrusts—

All screws on this machine have ball bearing thrusts.

Quick Setting Dials—

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

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.

SPRINGFIELD, MISSOURI

General Specifications — Heald Precision No. 1-B MILLING MACHINE

ALL CASTINGS NORMALIZED

Capacity—

Longitudinal Feed	20"
Traverse Feed	6½"
Vertical Feed	13"
*No. 1-BT	16½"

Longitudinal feed automatic. Hand traverse and vertical feed.

Spindle—

Chrome nickle steel—4140 H.T.

Mounted on precision Timken tapered roller bearings.

Size of taper—No. 40 NMMT

Hole through spindle 21/32"

Size of taper — No. 9 B & S

Hole through spindle ¾"

Spindle speeds Number Sixteen

Spindle speeds—Range 45, 66, 96, 128, 131, 175,
186, 256, 264, 362, 384, 514, 526, 703, 1056,
1447.

Feeds—

Eight feeds in thousandths per revolution of spindle, .0021, .0035, .005, .006, .0075, .010, .013, .025.

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

Automatic feed tripping mechanism furnished as standard equipment.

Standard Table—

Size over-all	6¾" x 31¼"
Working surface	6¾" x 25¼"
T-slots, number and size	Three 9/16"
Hand rapid travel, fully enclosed.	

Large Table—

Size over-all	7 5/8"x34"
Working surface	7 5/8"x28½"
T-slots, number and size	Three 9/16"

Arbor Supports—

Round double-overarms of 2¼" diameter solid steel.

Greatest diameter cutter that can be used with overarm supports in place 8 1/16"

Greatest distance from end of spindle to face of arbor supports 14⅝"

Floor Space—

At right angles to spindle	96"
Parallel to spindle	96"
Weight—Approx. No. 1-B	1800 lbs.
Weight—Approx. No. 1-BT	1950 lbs.

Motor Recommended—

No. 1-B—1 H. P. 1725 R. P. M.

No. 1-BT—1½ H. P. 1725 R. P. M.

Extra Equipment

Furnished to Order—

Vertical Spindle Attachment.

Plain and Swivel Vises.

Dividing Head.

Coolant Tank, Pump and Piping.

→ *Note—All specifications on No. 1-BT are same as No. 1-B except Vertical Feed

All Specifications Subject to Factory Change

DISTRIBUTED BY

WRIGHT & GADE TOOL CO.
Production and Machine Tools
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PHILADELPHIA 40, PA.
Baldwin 3-9430