

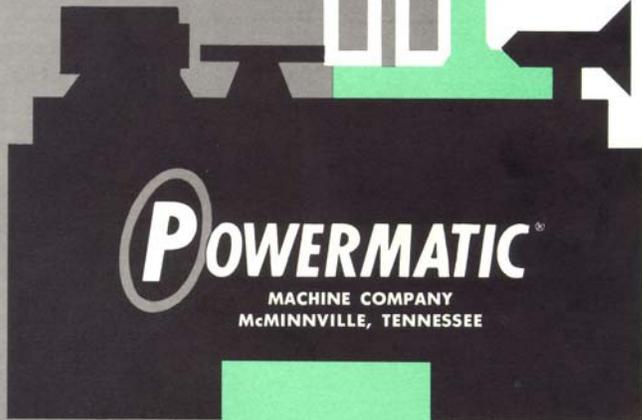
CATALOG

#

60

GODEN R. ADAMS, INC.
ERDLE ST. DR. - 2ND FLOOR
ROCHESTER 18, N. Y.
PHONE 5-4470

POWERMATIC MACHINE COMPANY • GENERAL CATALOG #60

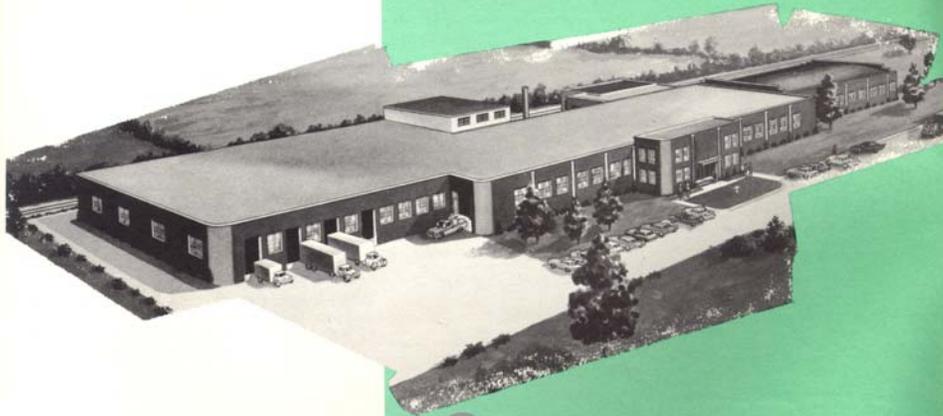


FINER
WOODWORKING
AND
METALWORKING
MACHINE
TOOLS

**The Power
Behind
each Machine . . .**

Powermatic is *people* . . . the highly skilled abilities of hundreds of *people* whose day-to-day precision craftsmanship with modern, automated facilities builds machine tools that have won unquestioned acceptance and respect among leading production experts, school instructors and shop foremen across America. The massive Powermatic plant and more than 30 years of dedicated experience are only of secondary importance.

It is, then, a native pride of accomplishment combined with job-proved industrial designing which puts in your hands the safety, precision and economy for which the name Powermatic is famous.



Established 1928
McMinnville, Tennessee

POWERMATIC

CHECK THE TAB



FIND IT QUICKLY

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PARTS AND GUARANTEE

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DISC SANDER
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TENONER
2A Single-end

BANDSAWS
87-20"

DRILL PRESS
1100-15"
DRILL PRESS
1200-20"

GRINDERS
KNIFE GAUGE

ASSURANCE OF PERFORMANCE

Guarantee

This Powermatic machine is the product of over a quarter-century of dedicated manufacturing experience. It was thoroughly inspected and tested before leaving our factory and found to be in proper working order for smooth, safe, trouble-free operation and is guaranteed to be free of mechanical defects for a period of twelve (12) months from the date of original purchase from our authorized dealer. Such guarantee is valid only if the attached card, properly filled out, is received by us within 10 days of purchase.

We will replace at our option, machinery proving defective within the above guarantee period, F.O.B. our plant. This guarantee covers any part or parts of Powermatic machines. Component parts and accessories, not of our manufacture, but utilized on our equipment, bear the guarantee of each individual manufacturer. These items include motors, switches, chucks, bits, blades, chisels, metal tools, abrasives, tires, belts and moulding and dado hands.

We are not responsible for the cost of repairs made or attempted outside our factory without our authorization. No claims for defects will be honored if name plate has been removed. No other warranty is expressed or implied.

POWERMATIC MACHINE COMPANY
McMINNVILLE, TENNESSEE

SWIFT PARTS SERVICE

Authorized Powermatic dealers maintain adequate stocks of cutting blades, accessory items and replacement parts to meet most emergency requirements. In the event your dealer cannot replace a damaged part at once, factory replacement can often be made within 12 to 24 hours.

POWERMATIC®

Powermatic reserves the right to make changes in equipment or design of any machine, without incurring obligation to make such changes on machines previously sold, and to discontinue models of machines, motors, or accessories without prior notice.

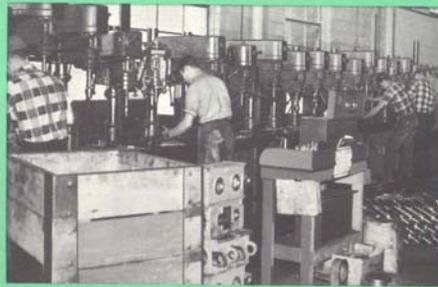


A Tool for Every Shop...

**Every
Job!**



School Training



Industrial Production



Millwork Fabrication



Pattern Making



Metal Working



Furniture Production

**Advanced
Design for...**

Rugged Dependability

True Economy

Utmost Safety

Maximum Flexibility

Simplified Operation

Precise Accuracy

JOINTERS

Power, Precision and Performance Unexcelled

Extra Large Center-Mounted Fence plunger-locks at 90° with automatic stops at 45° right and left. Positive quick-lock in any other position. Glides easily and locks across full table width, completely guarding cutterhead at rear of fence.



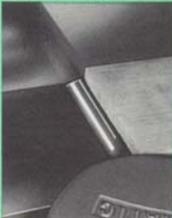
Quick, Sure Table Adjustments on precision dove-tailed ways are easy to make, easy to read. Adjustable gibs compensate for wear, guarantee alignment. Lever-lock prevents table slippage during operation.



Exclusive Safe-way Cutterhead Guard is spring-tension mounted for maximum protection. 8" model has full swing-away action for rabbeting. 6" jointer cutterhead guard is quickly removed with snap-lock.



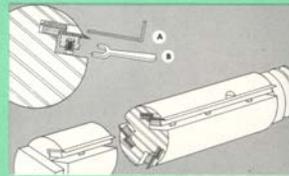
Precision Ground Table and Fence Surfaces guide stock accurately and smoothly without rocking or chattering.



Choose from two sizes designed to fit your requirements exactly.

- All basic parts cast iron or steel, none die cast.
- Rigid, reinforced cabinet-type steel base with built-in dust chute.
- Extra long table extension rest for rabbeting.
- Bed is close-tolerance ground for perfect alignment.

POWERMATIC®



Superior Powermatic Cutterhead

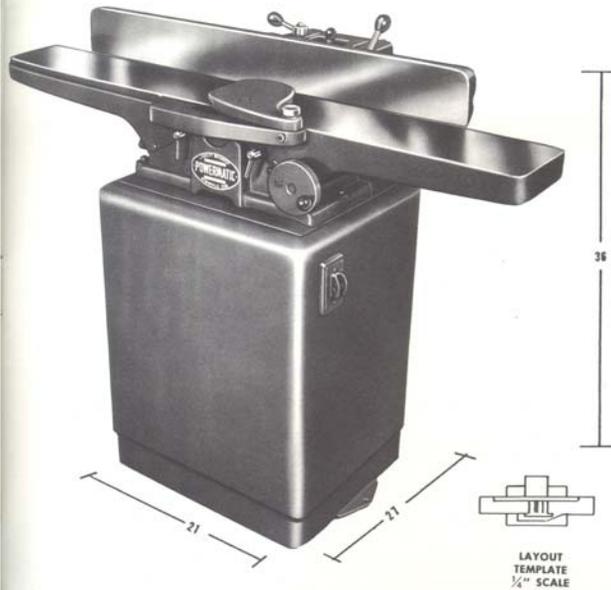
SPEEDS ACCURATE KNIFE-SETTING

A standard feature! Set and secure all cutterhead knives in as little as half the time. Adjust knife support jack-screws (A) with Allen wrench and pressure-lock knife safety shim (B) with end-wrench. Cutterhead mounted in over-size sealed ball bearings. Finest carbon tool steel.

See the Powermatic Knife-setting Gauge, Page 9.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Model 50 6" Jointer



48" PRODUCTION TABLE STANDARD EQUIPMENT!

rugged, dynamic champion

Here is one of the most versatile of all Powermatic machines... equally adaptable for industrial, student training or home workshop use. Built with the heft and rigidity of much larger units, this Powermatic 6" Jointer is light enough to be moved quickly anywhere... from the production line to the building site. Smart, streamlined design is free of dust-catching corners and crevices... saves shop clean-up time!

FEATURES

TABLES: Full adjustable infeed and outfeed tables are precision mounted on dove-tailed ways to form extra long 48" bed. Both tables raise and lower accurately with convenient hand-wheel. Infeed table has extra long extension rest for rabbeting.

FENCE: Over-size center-mounted fence maintaining perfect alignment and rigidity when locked in any position. Tilts and positively locks at any angle from 45° left to 45° right, with plunger-type lock at 90°. Positive stops at 45° right and left. Adjustable to full width of tables.

CUTTERHEAD: Superior Powermatic jack-screw type for speedy, accurate knife adjust-

ment. Equipped with 3 high speed steel knives, chassis built of finest carbon tool steel. Features a full 3" cutting arc. Mounted in over-size dust-sealed ball bearings for perfect performance in continuous operation at 5,000 RPM.

DRIVE: Non-slip V-belt for utmost efficiency in any work load range. Drive, motor and switch completely enclosed in base.

POWER REQUIREMENTS: For average stock and work loads, a 1/2-HP 1-phase or 3-phase motor is sufficient. For heavier stock and work volume, a 3/4-HP 1-phase or 3-phase motor is recommended.

HOW TO ORDER

Standard Machines

5000-01—6" Jointer standard equipped with enclosed steel stand, cutterhead pulley, set of 3 H.S. Knives, but less motor and switch.
5000-02—6" Jointer, same as 5000-01, less stand.
5000-11—1/2-HP, 3450 RPM 1-phase 110/220 volt motor complete with switch.

5000-12—3/4-HP, 3450 RPM 1-phase 110/220-volt motor complete with switch.
5000-13—1/2-HP, 3450 RPM 3-phase 220/440-volt motor complete with switch.
5000-14—3/4-HP, 3450 RPM 3-phase 220/440-volt motor complete with switch.

Special Listings

5000-03—No. 50 w/stand, 1/2-HP, 1-phase motor, manual switch with overload protection, cord and plug.
5000-04—No. 50 w/stand, 1/2-HP, 3-phase motor, manual switch with overload protection.
5000-05—No. 50 w/stand, 3/4-HP, 1-phase motor, manual switch with overload protection, cord and plug.

5000-06—No. 50 w/stand, 3/4-HP, 3-phase motor, manual switch with overload protection.
5000-07—No. 50 w/stand, 1/2-HP, 1-phase OR 3-phase motor, magnetic controls
5000-08—No. 50 w/stand, 3/4-HP, 1-phase OR 3-phase motor, magnetic controls

Optional Accessories

5000-10—3 H.S. Steel Jointer Knives.
5000-15—Switch for 1-phase motor.
5000-16—Switch for 3-phase motor.
5000-17—Magnetic controls for 3-phase.
5000-18—Magnetic controls for 1-phase.
5000-19—3-phase overload protected switch.

5000-20—1-phase overload protected switch.
5000-21—Motor pulley (3450 RPM) 3.50" Dia. (Specify bore)
5000-22—Motor pulley (1750 RPM) 6.50" Dia. (Specify bore).

5000-23—Belt for 3450 RPM motor—4L550.
5000-24—Belt for 1750 RPM motor—4L610.
5000-25—3-wire 8' Cord, with attachment plug cap.
5000-26—4-wire 8' Cord, with attachment plug cap.
5000-27—JIC Electricals for 1 or 3-phase.

SPECIFICATIONS

Table 7" x 48"
Head cutting arc 3"
Knives (3) high speed steel 1/2" x 3/4" x 6"
Speed of head (recommended) 5000 RPM
Knife-cuts-per-minute 15,000
Maximum depth of cut 1/4"
Maximum rabbeting cut 0" up to 1/2" x 6"

Fence size overall 4" x 34 1/4"
Fence tilt, right or left 45°
Height, less stand 7"
Height, with stand 36"
Motor recommended 1/2 to 1-HP
Weight, net, less stand 168 lbs.
Weight, net, with stand 230 lbs.

Weight, domestic crated, less stand 225 lbs.
Weight, domestic crated, with stand 255 lbs.
Weight, domestic crated, with stand & motor 320 lbs.
Export boxed, less stand (13.3 cu. ft.) 250 lbs.
Export boxed, with stand (31.1 cu. ft.) 340 lbs.
Export boxed, with stand and motor (31.1 cu. ft.) 420 lbs.

Model 60 8" Jointer

TABLES: Fully adjustable infeed and outfeed tables are mounted on dove-tailed ways to form king-size capacity 64" bed. Both tables are quickly and accurately raised and lowered with convenient hand-wheel. For rabbeting, infeed table has extra long extension rest.

FENCE: Full length, self-aligning fence locks rigidly in any position. Tilts and positively locks at any angle. Plunger-type lock at 90°. Positive stops at 45° right and left. Single lever adjustment to full width of tables. Cutterhead at rear of fence fully guarded in all fence positions.

CUTTERHEAD: Time-saving, precision Powermatic jack-screw type for speedy, accu-

FEATURES

rate knife adjustment. Equipped with 3 high speed steel knives, chassis is built of finest carbon tool steel. Cutting arc is full 3" diameter. Mounted in over-size dust-sealed ball bearings for high efficiency in continuous operation at 5,000 RPM. **See Knife-setting adjustment feature on page 6.**

DRIVE: Non-slip V-belts for maximum performance even under extremely heavy work load. Drive, motor and switch completely enclosed in base.

POWER REQUIREMENTS: Designed for average, heavy and extra heavy work loads requiring ¼, 1 or 1½-HP 1 or 3-phase motor.

HOW TO ORDER Standard Machines

6000-01—8" Jointer standard equipped with enclosed stand, cutterhead pulley, knives, less motor and switch.

6000-02—8" Jointer, same as 6000-01, less stand.

6000-04—¼-HP, 3450 RPM, 3-phase motor complete with switch, sheave and belts.

6000-05—¼-HP, 3450 RPM, 1-phase motor complete with switch, sheave and belts.

6000-06—1-HP, 3450 RPM, 3-phase motor complete with switch, sheave and belts.

6000-07—1-HP, 3450 RPM, 1-phase motor complete with switch, sheave and belts.

6000-08—1½-HP, 3450 RPM, 3-phase motor complete with switch, sheave and belts.

6000-09—1½-HP, 3450 RPM, 1-phase motor complete with switch, sheave and belts.

Special Listings

6000-22—No. 60 w/stand, ¼-HP, 1-phase motor, manual switch with overload protection, cord and plug.

6000-23—No. 60 w/stand, ¼-HP, 3-phase motor, manual switch with overload protection, cord and plug.

6000-24—No. 60 w/stand, 1-HP, 1-phase motor, manual switch with overload protection, cord and plug.

6000-25—No. 60 w/stand, 1-HP, 3-phase motor, manual switch with overload protection, cord and plug.

6000-26—No. 60 w/stand, ¼-HP, 1 OR 3-phase motor, magnetic controls.

6000-27—No. 60 w/stand, 1-HP, 1 OR 3-phase motor, magnetic controls.

Optional Accessories

6000-03—Three (3) High Speed steel knives ¼" x ¼" x 8"

6000-10—Switch for 1-phase motor.

6000-11—Switch for 3-phase motor.

6000-12—Motor pulley for 3450 RPM motor.

6000-13—Motor pulley for 1750 RPM motor.

6000-14—Belts for 3450 RPM motor—4L540.

6000-15—Belts for 1750 RPM motor—4L600.

6000-16—Magnetic controls for 3-phase.

6000-17—Magnetic controls for 1-phase.

6000-18—3-phase overload protected switch.

6000-19—1-phase overload protected switch

6000-20—3-wire 8' cord, with attachment plug cap.

6000-21—4-wire 8' cord, with attachment plug cap.

6000-28—JIC Electricals for 1-phase or 3-phase.

SPECIFICATIONS

Table..... 8½" x 64"
Head cutting arc..... 3"
Knives (3)..... ¼" x ¼" x 8"
Speed of head (recommended)..... 5000 RPM
Knife-cuts-per-minute..... 15,000
Maximum depth of cut..... ¼"
Maximum rabbeting cut..... 0" up to ½" x 8"

Fence size overall..... 4" x 34½"
Fence tilt, right or left..... 45°
Height, less stand..... 14"
Height, with stand..... 40"
Motor recommended..... ¼ to 1½ HP
Weight, net, less stand..... 263 lbs.
Weight, net, with stand..... 345 lbs.

Weight, domestic crated, less stand..... 375 lbs.
Weight, domestic crated, with stand..... 450 lbs.
Weight, domestic crated, with stand & motor..... 500 lbs.
Export boxed, less stand (21.3 cu. ft.)..... 450 lbs.
Export boxed, with stand (51.0 cu. ft.)..... 600 lbs.
Export boxed, with stand & motor (51.0 cu. ft.)..... 650 lbs.

heavy-duty production leader

This big-capacity Powermatic 8" Jointer slashes costs and saves time on thousands of jobs daily in hundreds of production lines, sash and door plants, pattern and cabinet shops throughout the nation. An extremely powerful model, the mammoth 64" bed accommodates extra long stock requirements. Cutterhead guard has swing-away action for quick conversion to rabbeting operations.



Model 150 Quik-Set Knife Gauge

NEW, QUICK WAY TO SET KNIVES ACCURATELY

Anyone can set jointer knives or bed rollers speedily and precisely with this easy-to-use gauge. Variations are calibrated in thousandths-of-an-inch and are easy to read on this fool-proof measuring instrument.

If you've ever had to make settings by "guess," you quickly

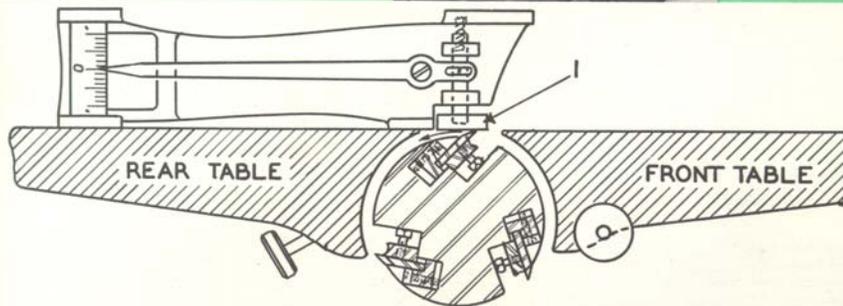
found out how important accurate positioning is... in outfeed and infeed efficiency as well as the cutterhead itself.

Avoid poor machine performance. Install every new or re-sharpened blade in perfect cutting position... adjust bed rollers fast and sure for top feed performance.



Quik-Set® accuracy in JOINTER cutterhead

Every Knife Cuts Evenly every time. Setting is twice as easy on Powermatic cutterheads equipped with jackscrews.



If your machine has lifting jack-screws, install knives temporarily with knife bevel slightly below head radius. Secure knife by tightening 'outside' shim locking screws to a snug but not tight fit. Place Quik-Set knife gauge on rear of outfeed table with foot "feeler" (1) over cutterhead opening. Insert Allen wrench in jack-screws and rock cutterhead forward and backward slowly while turning Allen wrench to raise knife. If knife is too low, indicator points above zero. If too high, indicator points below zero.

Continue rocking and turning Allen wrench until indicator arm remains at zero. Move gauge to front of outfeed table and repeat adjustment process. This places cutterhead knife on an exact horizontal plane with outfeed table.

If cutterhead is not fitted with jack-screws, set knives slightly higher than normal and tap knives gently downward to zero position using wood block.

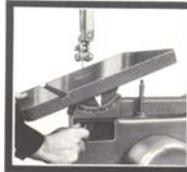
CAUTION: Be sure to tighten all knife-locking shims securely before operating machine.

Band Saws

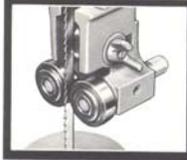
*flexibility, safety
and advanced
features*

Model 140 14" Band Saw

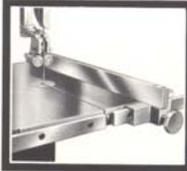
Select the size to suit your requirements... 14" for light duty in smaller shops or the high-capacity 20" for larger shops and industrial production. In either, you're assured utmost safety, unmatched performance and rare dependability.



Extra Large 16" x 16" Cast-Iron Table tilts 45° right, 10° left with positive stop at 90°. Precision-ground and milled for miter gauge.



Top Saw Guides equipped with sealed ball bearing back guide and side guides. Bottom guide has ball bearing back with hardened steel side guides. Blade tension adjustment hand-wheel fitted with spring to absorb shock.



Rip Fence Attached Easily for accurate straight-line cutting. Mounts quickly and securely on rugged, edge-drilled table.

POWERMATIC

Heavy-Duty 6" Single-Action Trunnion affords maximum rigidity. Fast, sure table adjustment 45° right, 15° left, positive 90° stop.



Friction-Free Ball Bearing Guides top and bottom increase blade life, adjust to fit any type of blade.



Counter-Balanced Blade Arm means maximum safety for operator, stock and machine during fast change-overs.



Model 81 20" Band Saw

Table Insert Quickly Removed for fast blade change. Note wide flange on precision-machined table for extreme rigidity.

Fully Enclosed Motor and Drive assures longer motor life. Top and bottom wheels easily accessible through front doors.

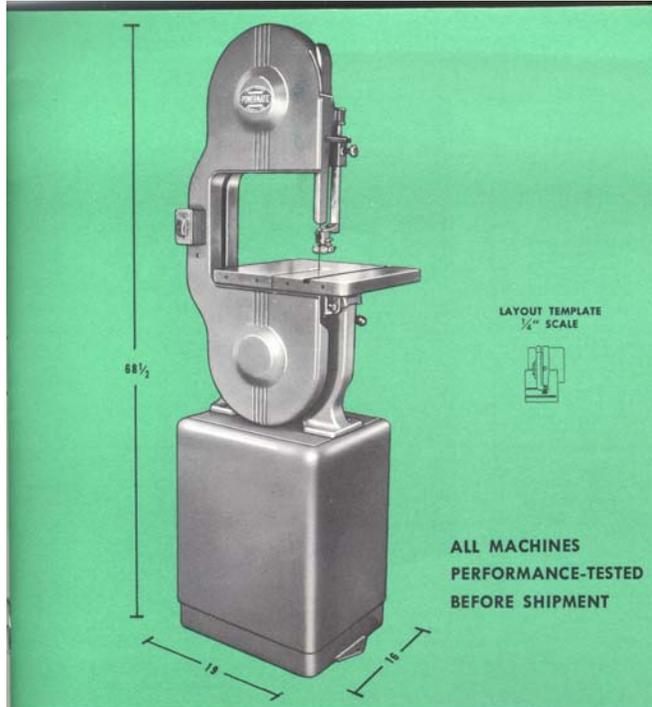
Simplified Rip Fence Mounting on machined and drilled front edge of table.



Model 140 14" Band Saw

**compact and
powerful
woodworker**

Unquestionably the biggest and best value on today's market. Acclaimed for superb performance in hundreds of woodworking and vocational training shops, by contractors and in home workshops as well. Husky, rigidly-built unit assures hair-line cutting accuracy in wood, plastic, chip-board and other comparable stock. Large full-range 16" x 16" tilting table offers more than ample work surface for most every type of sawing operation.



**ALL MACHINES
PERFORMANCE-TESTED
BEFORE SHIPMENT**

FEATURES

FRAME: Constructed of rugged cast iron for maximum rigidity and vibration-free performance.

TABLE: 16" x 16", made from finest grey iron castings, machine-ground to precision tolerance. Mounted on heavy trunnions, the table tilts 45° right and 10° left. This large table offers more working surface and is milled for a miter gauge as well as drilled on the edge for rip fence mounting.

WHEELS: Made from the finest grey iron, dynamically balanced for vibration-free operation. Recommended wheel speed 825 RPM. Both upper and lower wheels run in

lubricated-for-life ball bearings.

GUARDS: All moving parts are completely enclosed. Only the operating part of the blade is exposed.

SAW BLADE ADJUSTMENT: The blade tension is adjusted with conveniently located hand-wheel with a spring to absorb shock and maintain equal tension on the saw blade.

SAW GUIDES: The top saw guide is fitted with sealed ball bearing back and side guides. Bottom guide fitted with hardened steel side guides.

HOW TO ORDER

Standard Machines

140-01—14" Band Saw, standard equipped with all guards, less motor and stand. With 1/2" blade.
140-02—14" Band Saw, same as 140-01, plus floor stand.
140-03—14" Band Saw, same as 140-02, plus 1/2 HP 1-phase motor, switch, ready to run.

140-04—14" Band Saw, same as 140-02, plus 3/4 HP 3-phase motor, switch, ready to run.
140-05—14" Band Saw, same as 140-02, plus 1/2 HP 1-phase motor, switch, ready to run.
140-06—14" Band Saw, same as 140-02, plus 1/2 HP 3-phase motor, switch, ready to run.

Special Listings

140-07—14" Band Saw, complete with guards, floor stand, 1/2 HP 1-phase motor, manual switch with overload protection, cord and plug.
140-08—14" Band Saw, complete with guards, floor stand, 1/2 HP 3-phase motor, manual

switch with overload protection.
140-09—14" Band Saw, complete with guards, floor stand, 1/2 HP 1-phase OR 3-phase motor, magnetic controls.

Optional Accessories

140-10—Work Lamp
140-11—Miter gauge
140-12—Rip fence
140-13—1/2" Wide band saw blade
140-14—3/16" Wide band saw blade
140-15—1/4" Wide band saw blade
140-16—1/2" Wide band saw blade

140-17—1/2" Wide band saw blade
140-18—1/4" Wide band saw blade
140-19—3-phase overload protected switch
140-20—1-phase overload protected switch
140-21—Magnetic starter for 3-phase operation
140-22—Magnetic starter for 1-phase operation
140-23—Floor Stand

*140-24—3 1/2" Diameter motor pulley for 1750 RPM Motor. (Specify bore)
140-25—Belt for 1750 RPM motor—4L660.
140-26—JIC Electricals for 1-phase or 3-phase
(Order ONLY when machine is purchased less motor.)

SPECIFICATIONS

Table size 16" x 16"
Table in front of blade 7 1/2"
Table tilt 10° left—45° right
Wheel size 14" x 1"
Blade to column 13 1/4"
Maximum depth of cut under guide 7 1/2"
Maximum width of blade recommended 3/4"
Maximum adjustment of blade 3"

Maximum length blade 99 1/2"
Minimum length blade 97"
Recommended wheel speed 800 RPM or 3000 SFM
Motor Power recommended 1/2 to 1/2 HP, 1750 RPM
Distance from floor to top of table 44"
Overall height, with stand 68 1/2"
Weight, net, less stand 171 lbs.

Weight, net, with stand 235 lbs.
Weight, domestic crated, less stand 260 lbs.
Weight, domestic crated, with stand 300 lbs.
Weight, domestic crated, with stand & motor 330 lbs.
Export boxed, less stand (19.8 cu. ft.) 300 lbs.
Export boxed, with stand (33.2 cu. ft.) 400 lbs.
Export boxed, with stand & motor (33.2 cu. ft.) 430 lbs.

Model 81 20" Band Saw

accuracy in every operation

Powermatic precision means exacting engineering and design to assure hair-line accuracy in every band saw job you do. Powermatic dependability means that you'll get years of rugged service on the production line or in the simplest fabrication. Built of thoroughly reinforced heavy-gauge steel plate, the Powermatic Model 81 has all moving parts enclosed to insure safety.

With ball bearing for 3/16" to 1/2" blade only.

Optional:
8100-29 hardened block guide for 1/2" to 1" blade
8100-30 hardened block guide for 1/8" to 1/2" blade



ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



1/4" SCALE
LAYOUT TEMPLATE



FEATURES

FRAME: Constructed of reinforced steel plate for maximum rigidity. All parts cast iron or steel, nothing die cast.

TABLE: 3" x 24" x 24"; made of finest grey iron castings, machine ground to precision tolerance. Mounted on heavy-duty trunnion to tilt 45° right, 15° left. Front edge machined and drilled for mounting rip fence.

WHEELS: Made of finest machine castings, dynamically balanced and fitted with easy-change rubber tires. Upper and lower wheels run in lubricated-for-life ball bearings.

DRIVE: Available either belted or direct. Belt driven model is powered by 1750 RPM motor mounted on adjustable motor base. Direct drive model has lower wheel mounted

directly on motor shaft.

BRAKE: Standard with manually operated foot brake. Powermatic's exclusive brake interlock with switch (optional) with magnetic controls.

SAW BLADE ADJUSTMENT: Conveniently located hand-wheel for blade tension adjustment. Spring mechanism absorbs shock and maintains uniform tension on the blade.

SAW GUIDES: Top and bottom saw guides are ball bearing to assure minimum friction and increased blade life.

GUIDE ARM: Rugged, counter-balanced guide arm allows effortless adjustment of saw guides—yet maintains unsurpassed rigidity.

HOW TO ORDER Standard Machines

8100-01—20" Band Saw, standard equipped with 1/4" blade, less motor.
8100-02—20" Band Saw, standard equipped with 1-HP, 3-phase motor, 1/4" blade, switch, ready to run.
8100-03—Same as 8100-02, except with 1-HP, 1-phase motor, 1/4" blade and switch.
8100-04—Same as 8100-02, except with 1 1/2-HP, 3-phase motor, 1/4" blade and switch.
8100-05—Same as 8100-02, except with 1 1/2-HP, 1-phase motor, 1/4" blade and switch.

8100-06—Same as 8100-02, except with 2-HP, 3-phase motor, 1/4" blade and switch.
8100-07—Same as 8100-02, except with 2-HP, 1-phase motor, 1/4" blade and switch.
8100-08—20" Band Saw DIRECT DRIVE, standard equipped with 1-HP, 3-phase motor, 1/4" blade, switch, ready to run.

Special Listings

8100-26—20" Band Saw, complete with 1/4" saw, 1-HP 1-phase motor, manual switch with overload protection, cord and plug.
8100-27—20" Band Saw, complete with 1/4" saw, 1-HP 3-phase motor, manual switch

with overload protection.
8100-28—20" Band Saw, complete with 1/4" saw, 1-HP 1 OR 3-phase motor, magnetic controls.

Optional Accessories

8100-10—Rip Fence
8100-11—Flexible Work Lamp
8100-12—1/4" wide Band Saw Blade
8100-13—1/2" wide Band Saw Blade
8100-14—1/4" wide Band Saw Blade
8100-15—1/2" wide Band Saw Blade
8100-16—1" wide Band Saw Blade
8100-17—Miter Gauge
8100-18—3-phase overload protected switch.

8100-19—1-phase overload protected switch.
8100-20—3" diameter motor pulley (order only when machine is purchased without motor).
8100-21—Magnetic controls for 3-phase
8100-22—Magnetic controls for 1-phase
8100-23—Foot brake interlock with switch to provide power shut-off (available if saw is equipped with magnetic starter).

8100-24—3-wire 8' cord, with attachment plug cap.
8100-25—4-wire 8' cord, with attachment plug cap.
8100-29—Hardened block guide for 1/2" to 1" blade.
8100-30—Hardened block guide for 1/8" to 1/2" blade.
8100-31—JIC Electricals for single or 3-phase.
8100-32—Belt for 1-HP motor—4L-380.
8100-33—Belt for 1 1/2-HP motor—4L-380.
8100-34—Belt for 2-HP motor—4L-360.
8100-35—Circle cutting attachment.

SPECIFICATIONS

Table Size..... 3" x 24" x 24"
 Table in front of blade..... 11 1/2"
 Table tilt..... 15° left—45° right
 Wheel size..... 1 1/4" x 20"
 Blade to column..... 19 1/2"
 Maximum depth of cut under guide..... 12 1/2"
 Maximum width blade recommended..... 1"
 12

Maximum adjustment of blade..... 2 1/2"
 Maximum length of blade..... 12' 7"
 Minimum length of blade..... 12' 5"
 Recommended wheel speed..... 900 RPM or 4500 SFM
 Motor power recommended..... 1 to 2-HP, 1750 RPM (V-Belt drive)
 Overall height..... 76"

Table height from floor..... 41 1/2"
 Weight, net..... 770 lbs.
 Weight, domestic crated less motor..... 810 lbs.
 Weight, domestic crated with motor..... 875 lbs.
 Weight, Export boxed, less motor (92.3 cu. ft.)..... 840 lbs.
 Weight, Export boxed, with motor (92.3 cu. ft.)..... 990 lbs.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



Sure-lock Table tilts 45° out and 45° in for maximum flexibility. Dual trunnion handles lock table securely in any position indicated on easy-to-read precision scale.



Optional Miter Gauge, fitted in table slot, and tilting table make compound mitering operations extremely accurate and simple to perform. An absolute necessity in the pattern shop!



De-burring Operations for all metals and plastics are done quickly, accurately and safely.

Model 35 Disc Sander

ultra-smooth operation . . . easily portable

The heft, feel and precision of high-production operation is packed into this top performing disc sander to bring you the last word in design, smooth operation and famous Powermatic dependability.

Whether in hobby shop or high-production operation, you'll be amazed with the superb quality and speed you get on any sanding, polishing, de-burring or burnishing job. Just lock-set the tilting table in proper position and you're ready to go.

Move it anywhere quickly, too...with or without the rigid, heavy-gauge steel floor stand. Just plug in and you're ready to go again in a new location!

FEATURES

TILTING TABLE: Extra-wide 10" x 16 1/2" tilting table is slotted for accurate miter gauge attachment. Easy to tilt and securely lock at any angle from 0 to 45° out and to 45° in.

GUARD: Only the moving disc surface is exposed. All other moving parts are completely guarded for maximum safety.

TRUNNION: Finest heavy-duty construction for smooth and easy tilting operation and

extreme table rigidity in any locked position.

DRIVE: Sanding disc is mounted directly on motor driveshaft. 1/2 or 3/4-HP, 1 or 3-phase motor available.

SANDING DISC: Full size 12" disc is more than ample for most every operation. Garnet disc (for wood, plastics, light metals, etc.) or Aluminum Oxide disc (for Heavy ferrous metals) available.

HOW TO ORDER

Standard Machines

350-01—12" Disc Sander, complete with tilting table, less stand and motor.
350-02—Same as 350-01, except with 1/2-HP 1-phase motor, cord and plug.
350-03—Same as 350-01, except with 1/2-HP 3-phase motor
350-04—Same as 350-01, except with stand.

350-05—Same as 350-01, except with stand and 1/4-HP 1-phase motor, cord and plug.
350-06—Same as 350-01, except with stand and 1/2-HP 3-phase motor.
350-07—Same as 350-01, except with stand and 3/4-HP 1-phase motor, cord and plug.
350-08—Same as 350-01, except with stand and 1/4-HP 3-phase motor.

Optional Accessories

350-20—Miter gauge.
350-21—Garnet disc for wood, 12" diameter, 50 grit, medium (1/2 doz.).
350-22—Aluminum oxide disc for metal, 12" diameter,

60 grit, medium (1/2 doz.).
350-23—Disc assembly with flange and set screws.
350-24—Steel floor stand, totally enclosed.
350-25—1-phase overload protected switch.

350-26—3-phase overload protected switch.
350-27—Magnetic controls for 1-phase operation.
350-28—Magnetic controls for 3-phase operation.
350-29—JIC electricals for 1 or 3-phase operation.

SPECIFICATIONS

Floor Model:
Width 17 1/2"
Height 46 1/2"
Front to Rear 18 1/2"
Motor recommended 1/2 or 3/4-HP, 1 or 3-phase

Motor arbor 1/2"
Table 10" x 16 1/2"
Table tilt 45° out; 45° in
Sanding disc 12"
Weight, net, less stand 85 lbs.

Weight, net, with stand 128 lbs.
Weight, Domestic crated, less stand 105 lbs.
Weight, Domestic crated, with stand 206 lbs.
Weight, Export boxed, less stand 135 lbs.
Weight, Export boxed, with stand 248 lbs.

Belt and Disc Sander

*accuracy and speed . . .
for every finishing job!*



See how this versatile unit handles all contour, angle and flat sanding jobs with precise accuracy. Here is big capacity and extra ruggedness at unusually low cost . . . ideal for finishing metals, plastics and wood in line production operations, schools and shops of every size.

Powermatic packs this multi-purpose sanding and polishing machine with every important feature to give you maximum job flexibility, simplified adjustments and the ultimate in safety.

Contour Sanding is easy and simple. Just lock belt unit in vertical position, remove the top guard and you're ready to go.

Compound Angle Sanding is fast and sure. Belt unit may be positioned horizontally or vertically or at any desired angle. Table tilts from horizontal to 45°.



Radius, Edge And Bevel Sanding is simple and accurate. Just turn stock gently against edge sander disc. Tilt table to proper bevel angle.

Optional Tilting Fence For Extra Utility

Fully Adjustable, center-mounted fence is a necessity for edge angle sanding, especially in limited use. Fence tilts full 45° right.



ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



LAYOUT TEMPLATE
1/2" SCALE

Belt and Disc Sander

big performance features . . . at low cost

The completely enclosed electric motor is fully sealed off from dust damage by the rugged rib-reinforced steel cabinet (Optional). Thus protected, you can expect much longer, continuously dependable service from your Powermatic Disc and Belt Sander.

The ruggedly built cast iron chassis, frame and base assure the rigid and vibration-free operation so important in every high quality sanding and polishing job.

FEATURES

TILTING TABLE: Big 10" by 16 1/2" tilting table is slotted for accurate miter gauge attachment. Easy to tilt and lock at any angle from horizontal to 45°. Change easily from belt to disc operation.

DRUMS: 4 1/2" in diameter, both drums are mounted in big sealed ball bearings for extra smooth operation and years of trouble-free service. Spring-loaded idler drum accurately maintains belt tension. Easy-to-reach belt controls assure positive and accurate alignment.

BELT: Accommodates 6" x 48" belt. Entire belt assembly may be quickly adjusted for operation at any angle from horizontal to vertical. Outer belt guard may be removed for contour or edge sanding, 2450 SFM.

GUARDS: Only the moving sanding surfaces are exposed. All other moving parts, including belt assembly, are completely guarded for maximum safety. Belt assembly guard has dust duct opening.

TRUNNION: Extremely heavy duty construction assures complete table rigidity at all times.

DRIVE: Single V-belt driven by 1/2-HP or 3/4-HP, 1 or 3-phase motor.

SANDING DISC: Full size 12" disc is more than ample for most sanding and polishing operations. Dynamically balanced for vibration-free performance always. 1750 RPM.

HOW TO ORDER Standard Machines

Belt and Disc Sanders

- 300-01—Model 30 Belt and Disc Sander, including sanding belt and disc, interchangeable tilting table, dust spout and guards, less stand and motor.
- 300-02—Same as 300-01, except with stand, less motor.
- 300-03—Same as 300-01, except with stand and 1/2-HP, 1-phase motor.
- 300-04—Same as 300-01, except with stand and 3/4-HP, 3-phase motor.
- 300-05—Same as 300-01, except with stand and 1/2-HP, 1-phase motor.
- 300-06—Same as 300-01, except with stand and 3/4-HP, 3-phase motor.

Belt Sanders

- 330-01—Model 33 Belt Sander, including sanding belt, interchangeable tilting table and guards, less stand and motor.
- 330-02—Same as 330-01, except with stand, less motor.
- 330-03—Same as 330-01, except with stand and 1/2-HP, 1-phase motor.
- 330-04—Same as 330-01, except with stand and 3/4-HP, 3-phase motor.
- 330-05—Same as 330-01, except with stand and 1/2-HP, 1-phase motor.
- 330-06—Same as 330-01, except with stand and 3/4-HP, 3-phase motor.

Optional Accessories

- 300-10—Fence assembly.
- 300-11—Work table.
- 300-12—Miter gauge.
- 300-13—Aluminum Oxide belt for metal, 100 grit, fine.
- 300-14—Aluminum Oxide belt for metal, 50 grit, coarse.
- 300-15—Garnet belt for wood, 80 grit, fine.
- 300-16—Garnet belt for wood, 40 grit, coarse.
- 300-17—Sanding Disc, Aluminum oxide for metal, 100

- grit, fine.
- 300-18—Sanding disc, Aluminum oxide for metal, 50 grit, coarse.
- 300-19—Sanding Disc, Garnet, for wood, 80 grit, fine.
- 300-20—Sanding Disc, Garnet, for wood, 40 grit, coarse.
- 300-25—Toggle switch without overload protection for 1-phase motor.
- 300-26—Toggle switch without overload protection for

- 3-phase motor.
- 300-27—1-phase overload protected switch.
- 300-28—3-phase overload protected switch.
- 300-29—Magnetic controls with overload and low voltage protection for 1-phase motor.
- 300-30—Magnetic controls with overload and low voltage protection for 3-phase motor.
- 300-31—JIC Electricals for 1 or 3-phase operation.

SPECIFICATIONS

Sanding belt	6" x 48"
Sanding disc	12"
Belt drums	4 1/2"
Belt support table	6 1/2" x 15 1/2"
Distance between belt drum centers	19 1/2"
Tilting table	10" x 16 1/2"

Spindle speed	1750 RPM
Table Tilt	45°
Height with stand	38 3/4"
Length	28"
Width	18"

Weight	Belt	Disc
Net, less stand, with motor	135 lbs.	142 lbs.
Net, with stand & motor	178 lbs.	185 lbs.
Domestic Crated, with motor	224 lbs.	231 lbs.
Domestic Crated, less stand	175 lbs.	182 lbs.
Export boxed, less stand	215 lbs.	222 lbs.
Export boxed, with stand & motor	304 lbs.	311 lbs.

Model 65 10" Tilting Arbor Saw

all-new,
all-purpose... outstanding
performance

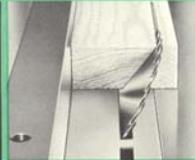
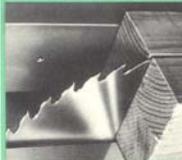
Extra Cut-off Capacity
table in front of blade
is full 16" at 1" cut.



Extra Capacity—10"
blade cuts stock up to
3 1/4" at 90° ranging to
2 1/4" cut at 45° position
at maximum height.
3/8" arbor for blade
adjustment to any desired
lower level through
convenient front-mounted
hand-wheel. Accurately
machined, rib-reinforced
cast iron table is 28" x 38"
with standard extensions.

Miter Cut Accuracy—
miter gauge adjusts easily,
extends beyond table for
bigger stock.

Added Safety—blade
tilts away from fence to
guard against dangerous
binding of material against
fence.



**Fence Adjustment Fast
And Sure** from either
side with Vernier control
knob and top-reading
front guide bar
calibrations. Upper knob
locks rear of fence.
Fence is precision
machined of cast iron
with tubular steel guide
bars. Standard guide bar
extensions provide 25"
cut to right of blade.

New Trunnion precision
machined from heavy-duty
grey iron castings. Main-
tains perfect alignment for
easy hand-wheel worm-
gear adjustment. Exclusive
C-flange motor mount re-
lieves weight at trunnion
pivot.

FEATURES

TABLE: Standard table with extensions measures 28" x 38", accurately machined and reinforced with ribs to hold a true surface. A 4" insert plate provides ample room for removing saw blade or dado head.

T-SLOTS: An excellent safety and accuracy feature, the T-slots prevent miter gauge from falling when making wide cut-off.

ARBOR: the 3/8" arbor is mounted in large sealed ball bearings requiring no lubrication and is driven by three A-section belts for maximum power. It is raised and lowered with a worm-gear operated by conveniently positioned hand-wheel and may be locked at any desired height. Arbor tilts away from rip fence for safer operation.

SAW BLADE: 10" saw blade tilts 45° with a 2 1/4" cut at this position. At 90° the saw cuts a full 3 1/4" for heavy-duty work.

16 FENCE: The precision machined, cast iron fence locks on front and back of two tubular

guide bars assuring rigid support. Fence is equipped with a Vernier control featuring an easy-to-read, graduated scale. Vernier adjustment is accomplished by means of a steel pinion operating in guide bar rack.

SAW GUARD: The rigid saw guard and splitter is fitted with anti-kickback pawls for maximum safety. Guard swings out of way when not in use.

MOTOR MOUNT: An EXCLUSIVE new trunnion accommodates a standard C-flange motor which mounts on the saw arm pivot shaft and does not place weight on the saw arm. This type of mounting relieves the saw arbor of motor weight, making it very easy to raise and lower saw blade.

POWER REQUIREMENTS: The saw is designed for motors from 1 1/2 to 3-HP in either 3 or 1-phase. For light and medium work, 1 1/2 or 2-HP is sufficient. For heavy-duty cutting, 3-HP is recommended.

Exclusive New Power—de-
signed for use with motors from
1 1/2 to 3 HP! Three A-section
belts drive blade.

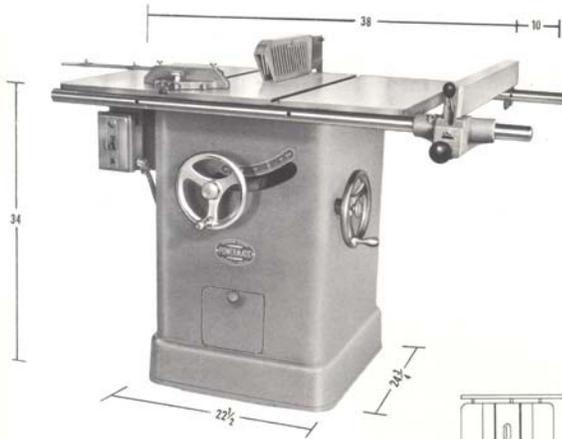
Precision Miter Gauge —
with stop rods to guarantee true
accuracy on even largest stock.
Easily adjustable in table T-
slots.

Maximum Safety — saw
guard and splitter have anti-
kickback pawls. Guard swings
away easily for blade change.

Super-Smooth Operation—
heavy-duty, sealed-for-life ball
bearings throughout.

Ruggedly Built — heavy-
gauge reinforced steel cabinet
on cast iron base. Basic parts
steel or cast iron... none die
cast!

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

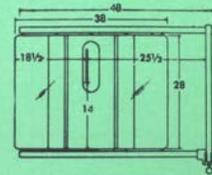


LAYOUT TEMPLATE
1/4" SCALE

Model 65 10" Tilting Arbor Saw

today's most powerful

Precision-built for unexcelled accuracy and performance in high production, on the building site or in the smallest shop.



Optional Extensions for cutting 49° to right of blade. Table extension either solid grey iron or steel. Extra-length steel guide bar.

HOW TO ORDER

Standard Machines

- 6500-01**—10" Tilting Arbor Saw standard equipped with rip fence, miter gauge, guide rails, blade guard, splitter with anti-kickback pawls, belts and motor pulley, less motor.
6500-02—Same as 6500-01 plus 1 1/2-HP, 1-phase motor, manual switch without overload protection, ready to run.
6500-03—Same as 6500-01 plus 1 1/2-HP, 3-phase motor, manual switch without overload protection.
6500-04—Same as 6500-01, plus 2-HP, 1-phase motor, manual switch without overload protection.

- 6500-05**—Same as 6500-01, plus 2-HP, 3-phase motor, manual switch without overload protection.
6500-06—Same as 6500-01, plus 3-HP, 1-phase motor, manual switch with overload protection.
6500-07—Same as 6500-01, plus 3-HP, 3-phase motor, manual switch with overload protection.
6500-08—10" Tilting Arbor Saw with rip fence, miter gauge, guide rails, less blade guard, splitter and extension wings.

Special Listings

- 6500-28**—10" T.A. Saw with rip fence, miter gauge, guide rails, blade guard, splitter with anti-kickback pawls, 1 1/2-HP, 1-phase motor, manual switch with overload protection.
6500-29—Same as 6500-28, except with 1 1/2-HP, 3-phase motor and manual switch with overload protection.
6500-30—Same as 6500-28, except with 1 1/2-HP, 1-phase motor and magnetic controls.
6500-31—Same as 6500-28, except with 1 1/2-HP, 3-phase motor and magnetic controls.

Optional Accessories

- 6500-10**—Miter gauge
6500-11—Combination saw, 1/2" bore
6500-12—Regular cut-off saw, flat ground, 1/2" bore
6500-13—Regular rip saw, flat ground, 1/2" bore
6500-14—Hollow ground planer blade, 1/2" bore
6500-15—No. 3, 8" x 13/16" Dado head with groovers 1/2" bore
6500-17—Dado insert plate
6500-18—Magnetic controls for 3-phase operation
6500-19—Magnetic controls for 1-phase operation
6500-20—Manual switch with overload protection for 3-phase motor
6500-21—Manual switch with overload protection for 1-phase motor
6500-22—Solid cast iron extension for ripping 49° to right of saw, including rails
6500-23—Steel extension for ripping 49° to right of saw, including rails
6500-24—72" Table rails for ripping 49° to right of saw
6500-25—Motor cover with screws
6500-26—3-wire, 8' cord with attachment plug cap
6500-27—4-wire, 8' cord with attachment plug cap
6500-36—JIC Electricals for 1 or 3-phase
6500-37—Motor belts—4L-230
6500-38—Moulding head, 6" dia.
6500-39—Moulding head, 4" dia.

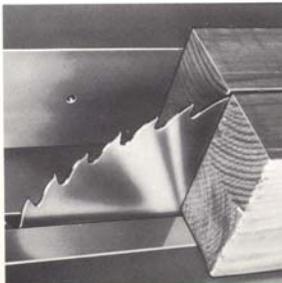
Note: See special fly sheet for moulding cutters.

SPECIFICATIONS

Table with standard extensions	28" x 38"	of saw blade	25"	Table height	34"
Rip fence, box type, precision ground	1 1/2" x 2 1/2" x 33"	Maximum width cut-off in front of saw in 1" stock	16"	Weight, net less motor	370 lbs.
Diameter of arbor	1 1/2"	Maximum width cut-off in front of saw in 3 1/2" stock	14 1/2"	Weight, net with motor	450 lbs.
Diameter of saw blade	10"	Maximum width of dado cut	1"	Weight, domestic crated less motor	610 lbs.
Blade tilt	45°	Motor power recommended	1 1/2 to 3-HP, 3450 RPM	Weight, domestic crated with motor	655 lbs.
Maximum depth of cut	90°: 3 1/2" 45°: 2 1/4"	Recommended speed of saw blade	4000 RPM	Export boxed, less motor (53.1 cu. ft.)	710 lbs.
Maximum cut with standard extensions, to right				Export boxed, with motor (53.1 cu. ft.)	750 lbs.

**Model 71-12"
Tilting Arbor Saw**

*super-power,
heavy-duty...
speeds production*

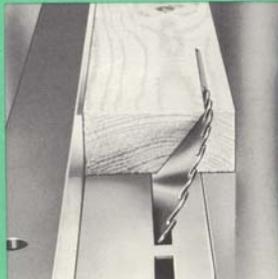


Big Cutting Capacity — 12" combination saw blade (standard) cuts full 4 1/4" at 90° position ranging to 2 3/4" at 45° tilt.

POWERMATIC



Table Extensions—available in cast reinforced iron or steel for 49" ripping to right of blade.



Saw Blade Tilts Away from fence for added safety. Tilt range from 45° to 90°.

Accuracy-engineered for every production or shop job

Extra Power—available with 2 or 3 HP, 1-phase or 3-phase motor or 5 HP 3-phase motor. Three A-section belts drive blade.

Precision Miter Cuts—gauge has stop rods to assure perfect mitering of even largest stock. Gauge glides smoothly in T-slots.

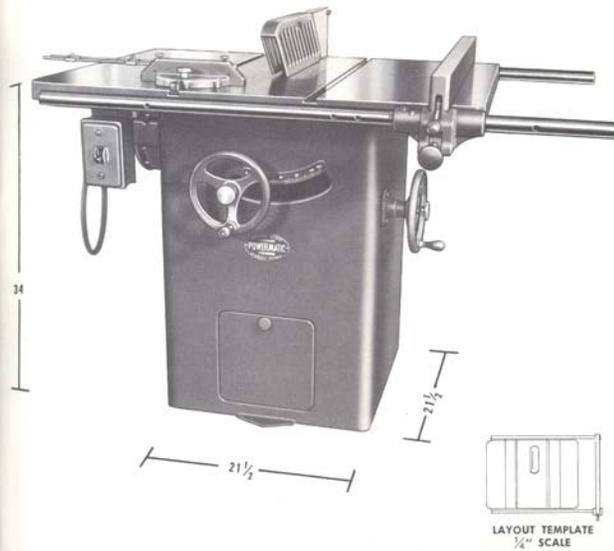
Maximum Safety—saw guard and splitter have anti-kickback pawls. Guard swings away for easy blade access.

Smooth Operation—Large 1" tilting arbor mounted in heavy-duty, sealed-for-life ball bearings adjusts easily in extra large trunnion.

Hefty Construction—All parts finest grey iron castings...none die cast. Rugged, heavy-gauge reinforced steel cabinet.

Fast-Adjusting Fence—has Vernier control setting with easy-to-read calibrations on front guide bar. Easily set and locked from either side.

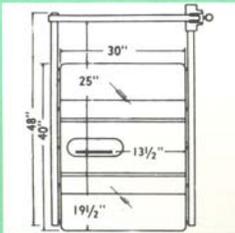
ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



Model 71-12" Tilting Arbor Saw

makes bigger cuts with greater ease

Massive 30" x 40" table handles even largest stock. Built of rib-reinforced grey iron castings, precision machined to maintain accuracy.



Standard Table—perfectly aligned reinforced cast iron or heavy-gauge steel extensions optional. No open grid extensions.

FEATURES

TABLE: Massive 30" x 40" area, accurately machined and reinforced with ribs to hold a true surface. Made from the finest grey iron castings.

T-SLOTS: Excellent safety feature. Prevent miter gauge from falling when making a wide cut-off. Slots on either side of saw blade.

SAW BLADE: 12" blade tilts a full 45° and features a 2 1/4" cut at this position. At 90°, the saw cuts a full 4 1/4" for extra heavy-duty work.

ARBOR: 1" arbor is mounted in large sealed ball bearings, requiring no lubrication, and is driven by three A-section belts for maximum power. The arbor tilts, leaving table level for more accurate work. Saw tilts away from fence for safer operation.

FENCE: Heavy cast iron fence locks on front and back. Vernier control, with easy-to-read micrometer scale for fine adjustment at any position on the table. Adjustment is made with a steel rack and pinion, which give trouble-free performance for the life of the machine.

SAW GUARD: Massive saw guard and splitter are fitted with anti-kickback pawls for maximum safety. Guard swings out of the way when not in use.

TRUNNIONS: The tilting arbor operates on extra large trunnions assuring maximum rigidity.

HOW TO ORDER

Standard Machines

7100-01—12" Tilting Arbor Saw, standard equipped with rip fence, miter gauge, guard, splitter with anti-kickbacks, complete, less motor.

7100-04—12" Tilting Arbor Saw, standard equipped with rip fence, miter gauge, guard, splitter with anti-kickbacks, 2-HP, 3-phase motor and manual switch without overload protection.

7100-05—Same as 7100-04, except with 2-HP, 1-phase motor.

7100-06—Same as 7100-04, except manual switch with overload protection and 3-HP, 3-phase motor.

7100-07—Same as 7100-04, except with manual switch with overload protection and 3-HP, 1-phase motor.

7100-08—Same as 7100-04, except with magnetic switch with overload protection and 5-HP, 3-phase motor.

Optional Accessories

7100-11—Miter gauge.

7100-12—No. 52 combination saw, 1" bore.

7100-13—Regular cut-off saw, flat ground.

7100-14—Regular Rip saw, flat ground.

7100-15—No. 2-6" Dia. Dado head with groovers.

7100-16—No. 3-8" Dia. Dado head with groovers.

7100-17—Dado insert plates.

7100-18—Magnetic controls for 3-phase operation.

7100-19—Magnetic controls for 1-phase operation.

7100-20—8" Table extension.

7100-23—Cast iron extensions for ripping 49° to right of saw.

7100-25—Steel extension for ripping 49° to right of saw.

7100-26—1-phase overload protected switch.

7100-27—3-phase overload protected switch.

7100-28—Hollow ground planer blade.

7100-29—3-wire, 8' cord with twist-lock attachment plug cap.

7100-30—4-wire, 8' cord with twist-lock attachment plug cap.

7100-31—JIC Electricals for 1 or 3-phase.

7100-32—Motor belts—4L-200 (3 required).

SPECIFICATIONS

Table with standard extensions	30" x 40"
Rip fence, box type, precision ground	1 1/4" x 2 1/4" x 35"
Diameter of arbor	1"
Diameter of saw blade	12"
Blade tilt	90°: 4 1/4", 45°: 2 1/4"
Maximum depth of cut	90°: 4 1/4", 45°: 2 1/4"
Maximum cut with standard extensions, to right of saw blade	25"

Maximum width cut-off in front of saw blade in 1" stock	15"
Maximum width cut-off in front of saw blade in 4 1/4" stock	13 1/4"
Maximum width of dado cut	1"
Motor power recommended	1 1/2 to 5-HP, 3450 RPM (5-HP 1-phase motor not available)
Recommended speed of saw	3500 RPM

Table height	34"
Weight, net less motor	430 lbs.
Weight, net with motor	490 lbs.
Weight, domestic crated, less motor	500 lbs.
Weight, domestic crated, with motor	560 lbs.
Export boxed, less motor (53.1 cu. ft.)	600 lbs.
Export boxed, with motor (53.1 cu. ft.)	702 lbs.

LATHES

*rugged stability
guarantees perfect
cutting control*



For wood turning... for metal spinning... or both... and a variety of buffing, polishing and grinding jobs in every shop. Your Powermatic lathe can prove to you what so many lathe-owners have known for so long... Powermatic is exactly engineered, ruggedly built and thoroughly dependable in every operation. Available in your choice of gap or straight bed!

**A Model 90 Bonus Feature
... At No Extra Cost!
Exclusive Safe-Stop
SPEED LIMITER**

Prevents novice operator from exceeding pre-set safe speed range. 5 limit "stops"... easy supervisory control with Allen wrench setting.

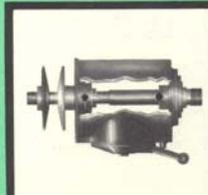
Vibration-Free Headstock runs in sealed-for-life ball bearings. Spindle "whip" is virtually eliminated. Drive pulley is mounted outside headstock housing for easy access.

Constant, Smooth Cutting Precision assured through non-slip drive mechanism. Cutting tool bites freely and evenly with minimum effort.

Choice of Straight or Gap Bed. Handles up to 12" stock over straight bed. #45 handles 16" stock over gap; #90 handles 17" stock over gap.

Instant-Set Speed Control is easy to read without stooping or bending. Large calibrations for fast, accurate setting.

Motor Fully Protected against damage from dust and chips in enclosed base. Easy access through door in cabinet base.



ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Model 45 12" Lathe



**new, medium-weight
variable or
four-speed model**

From cabinet and school shops to industrial high production, the Powermatic 45 is acclaimed superior in its field! The big one-piece cast iron bed and rugged reinforced steel cabinet base assure vibration-free performance on every job.

For wood turning, metal spinning, or both... large or small job precision performance is simple in record time, with maximum safety for the experienced operator or the novice.

FEATURES

CAPACITY: Swing 12" over straight lathe bed; 16" over gap bed; 39" between centers.
BED: One-piece construction of finest grey iron casting, rib-reinforced for permanent perfect alignment and maximum rigidity. Standard bed length 59".
HEAD STOCK: Available with built-in variable speed drive from 350 to 2800 RPM or with four-speed drive of 915, 1380, 2150 and 3260 RPM. Drive pulley spindle mounted between extra large sealed-for-life ball bearings for smoother operation at any speed.
SPINDLE: 60-stop type with steel plunger-type index wheel. Machined from special carbon steel and precision ground for perfect running alignment and balance. Arc threaded 1". Nose is bored for No. 2 Morse Taper. Locking pin holds spindle rigid for easy face plate removal.
TAIL STOCK: 1" tail stock spindle is bored for a No. 2 Morse Taper. The center may be

easily removed by using the large hand-wheel to back out the tail stock screw.
MOTOR DRIVE: Motor is mounted in lathe cabinet with wide V-belt and two variable sheaves (in variable speed model) or multiple mounted inverse pulleys (in four-speed model).
Drive fully accessible through snap-up drive guard on top of lathe head.
LATHE BASE: Ruggedly built of heavy-gauge, reinforced steel. Designed for complete vibration-free operation whether machine is anchored or not. Large hinged door for quick access to motor and tool storage area in base. Full length chip deflector apron.
MOTOR SWITCH: Toggle type mounted away from exposed operational area to prevent accidental engagement. Special switch available for starting at slow speed only.

STANDARD EQUIPMENT

1 - 6" Tool rest 1 - 12" Tool rest 1 - Cup Center 1 - Spur Center 1 - Face Plate Wrench 1 - 6" Face Plate 1 - Center Drift Rod

HOW TO ORDER Standard Machines

4500-01—#45 FOUR SPEED (Gap Bed) Lathe, with floor stand, less motor.
4500-02—#45 FOUR SPEED (Gap Bed) Lathe, with floor stand, 1/2-HP 1-phase motor, manual switch.
4500-03—Same as 4500-02, except with 1/2-HP 3-phase motor.
4500-04—#45 FOUR SPEED (Straight Bed) Lathe, with floor stand, less motor.
4500-05—#45 FOUR SPEED (Straight Bed) Lathe, with floor stand, 1/2-HP 1-phase motor, manual switch.
4500-06—Same as 4500-05, except with 1/2-HP 3-phase motor.
4500-07—#45 VARIABLE SPEED (Gap Bed) Lathe, with floor stand, 1/4-HP 1-phase motor, manual switch.
4500-08—Same as 4500-07, except with 1/4-HP 3-phase motor.
4500-09—#45 VARIABLE SPEED (Straight Bed) Lathe, with floor stand, 1/4-HP 1-phase motor, manual switch.
4500-10—Same as 4500-09, except with 1/4-HP 3-phase motor.

Special Listings

4500-35—FOUR SPEED (specify gap or straight bed) with floor stand, 1/2-HP 1-phase motor, manual switch with overload protection, cord and plug.
4500-36—FOUR SPEED (specify gap or straight bed) with floor stand, 1/2-HP 1-phase motor, magnetic controls.
4500-37—VARIABLE SPEED (specify gap or straight bed) with floor stand, 1/4-HP 3-phase motor, manual switch with overload protection.
4500-38—VARIABLE SPEED (specify gap or straight bed) with floor stand, 1/4-HP 3-phase motor, magnetic controls.

OPTIONAL ACCESSORIES (see following page)

SPECIFICATIONS

Overall Length	53"	Variable Speed range	350 to 2800 RPM	Spindle, inboard and	
Distance between centers	39"	Step pulley, four speed drive	915-1380-2150-3260 RPM	outboard	1" #2 Morse Taper-8 Thread
Swing over bed	12"	Motor recommended, variable speed model	1/4-HP	Weight, net with stand and motor	350 lbs.
Swing over gap	16"	Motor recommended, four speed drive	1/2-HP	Weight, domestic crated with stand and motor	465 lbs.
Width of gap	4 1/2"	Height of bed from floor	36"	Export boxed, with stand and motor (51.1 cu. ft.)	565 lbs.

Lathe Accessories

to speed production
on every turning job

ELECTRICALS:

- 4500-29—Magnetic controls for 1-phase operation.
- 4500-30—Magnetic controls for 3-phase operation.
- 4500-41—JIC Electricals for 1 or 3-phase operation.
- 4500-42—Magnetic starter with built-in 110-volt transformer wired to push-button station.
- 4500-33—3-wire 8' cord and plug
- 4500-34—4-wire 8' cord and plug.
- 4500-31—1-phase overload switch
- 4500-32—3-phase overload switch.
- 900-10—Magnetic starter with built-in 110-volt transformer wired to push-button station.
- 900-11—Magnetic controls for 1 or 3-phase operation.
- 900-42—JIC Electricals for 1 or 3-phase operation.
- 900-34—3-wire 8' cord and plug.
- 900-35—4-wire 8' cord and plug.

OUTBOARD TURNING STAND

- Floor stand with offset tool holder for turning pieces larger than 12" in diameter.
- 4500-12—For #45 Lathe
- 900-12—For #90 Lathe

FACE PLATES:

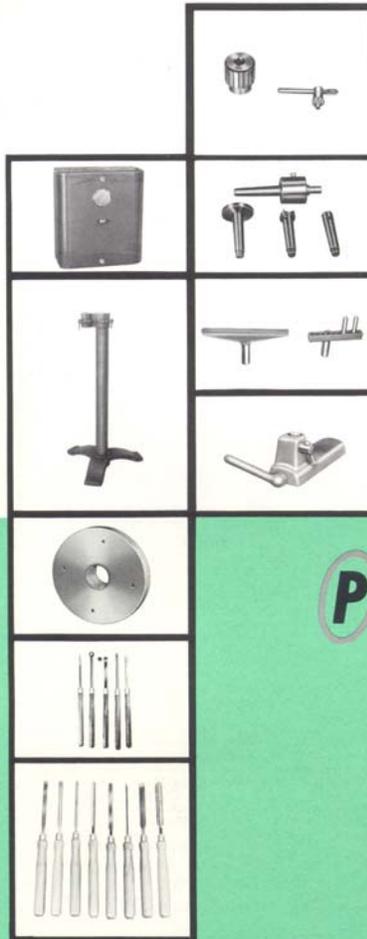
- | | #90 | #45 |
|-----------------------------|--------|---------|
| 3" R.H. face plate..... | 900-17 | 4500-17 |
| 4" R.H. face plate..... | 900-18 | 4500-18 |
| 6" R.H. face plate..... | 900-19 | 4500-19 |
| 8" R.H. face plate..... | 900-20 | 4500-20 |
| 12" R.H. face plate..... | 900-21 | |
| 8" Outboard face plate..... | 900-22 | 4500-22 |

METAL SPINNING TOOLS:

- Set of 5, consisting of: flat tool, pointed tool, flat ball, diamond point and beading roll.
- 4500-15—For #45 Lathe
- 900-15—For #90 Lathe

WOOD TURNING CHISELS:

- Set of 8 turning tools, consisting of 1/4" skew, 1/2" skew, 1/4" skew, 1/2" round point, 1/4" gouge, 1/2" gouge, 1/4" gouge and 1/2" parting tool.
- 4500-13—For #45 Lathe
- 900-13—For #90 Lathe
- Set of 5 turning tools, consisting of 1" skew, 1/2" skew, 1/2" round, 1/4" gouge and 1/2" parting tool.
- 4500-14—For #45 Lathe
- 900-14—For #90 Lathe



- ### CHUCKS:
- | | #90 | #45 |
|--|--------|---------|
| 3" screw chuck, threaded..... | 900-23 | |
| 4" screw chuck, threaded..... | 900-24 | |
| 2" screw chuck, No. 2 Taper..... | 900-25 | |
| 1/2" three-jaw chuck, No. 2 Taper..... | 900-26 | 4500-26 |

- ### CENTERS:
- | | #90 | #45 |
|-------------------------------------|--------|---------|
| Ball bearing tail stock center..... | 900-16 | 4500-16 |
| 1" spur center..... | 900-27 | 4500-27 |
| 1/4" cup center..... | 900-28 | 4500-28 |

- ### TOOL SUPPORTS:
- | | #90 | #45 |
|-------------------------------|--------|---------|
| Right angle tool support..... | 900-40 | 4500-40 |
| 6" tool support..... | 900-30 | 4500-23 |
| 12" tool support..... | 900-31 | 4500-24 |
| 24" tool support..... | 900-32 | 4500-25 |
| Metal spinning tool rest..... | 900-33 | 4500-39 |
| Offset tool support..... | 900-41 | 4500-43 |

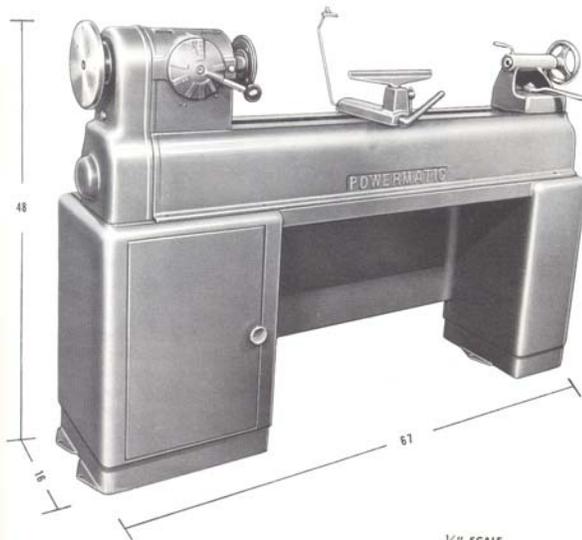
- ### TOOL SUPPORT BASE:
- For use when making extra long turnings requiring 24" tool support.
 - 4500-44—For #45 Lathe
 - 900-23—For #90 Lathe

POWERMATIC



A MODEL 90 BONUS FEATURE... AT NO EXTRA COST! Exclusive, Safe-Stop Speed Limiter—Prevents novice operator from exceeding pre-set safe speed range. 5 limit "stops"... easy supervisory control with Allen wrench setting.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



Model 90 12" Lathe

heavy-duty, variable speed
500 to 4000 RPM

The tougher and bigger the job ... the harder this giant works to give you the ultimate in precision performance. Exactly engineered to meet every shop and production requirement, the model 90 is the most flexible 12" lathe available in its price range. Designed for wood turning, metal spinning or a combination of each, it is massively built to give years of dependable, accurate service even under the most extreme operating conditions.

STANDARD EQUIPMENT WITH 90-12" LATHE

WOOD TURNING

- 1 - 6" tool rest
- 1 - 12" tool rest
- 1 - 1/4" cup center
- 1 - 1" spur center
- 1 - 3" ratchet chuck
- 1 - face plate wrench
- 1 - 6" face plate (front)
- 1 - 8" combination hand-wheel and face plate (rear)
- 1 - blue print holder
- 1 - center drift rod

METAL SPINNING

- 1 - metal spinning tool rest
- 1 - 6" face plate (front)
- 1 - 8" combination hand-wheel and face plate (rear)
- 1 - face plate wrench
- 1 - ball bearing tail center with plug center and 1/4" cup center
- 1 - center drift rod
- 1 - blue print holder
- 1 - set metal spinning tools (5) consisting of: flat tool, pointed tool, flat ball, diamond point and beading roll.

FEATURES

CAPACITY: Swing 12" over straight bed, 17" over gap bed. Standard bed affords full 38" between centers.

BED: One-piece construction from finest grey iron casting, rib-reinforced for perfect alignment and maximum rigidity. Standard length - 60". Also available in longer lengths on special order.

HEAD STOCK: Has built-in variable speed drive from 500 to 4000 RPM. Variable speed drive pulley spindle-mounted between extra large sealed-for-life ball bearings for perfectly smooth operation at any speed.

SPINDLE: Machined from special carbon steel and precision ground for perfect running alignment and balance. Spindle nose is threaded 1 1/2" and bored for No. 2 Morse Taper. Outboard end is threaded 1 1/4" for outboard face plate.

Locking pin holds spindle rigid for easy face plate removal. Spindle cannot be accidentally locked while machine is in operation ... speed range control and switch must

be in "OFF" position.

TAIL STOCK: The 1 1/2" tail stock spindle is bored for No. 2 Morse Taper. Center may be easily removed by using the large hand-wheel to back out the tail stock screw.

MOTOR DRIVE: Motor is mounted in lathe bed with a wide V-belt driving the two variable sheaves.

Outboard drive makes V-belt removal simple without dismantling any part. Drive and motor are fully accessible through drive guard.

LATHE BASE: Wide-stance pedestal base with streamlined design. No sharp corners. Constructed from extra-heavy gauge reinforced steel for perfectly rigid operation in permanent or temporary installation.

MOTOR SWITCH: Activated only by variable speed control switch. Lathe can be started only at slow speed.

HOW TO ORDER

Standard Machines

900-01—Wood turning lathe (specify whether Gap or Straight Bed), complete with 1-HP 3-phase motor, manual switch with overload protection and all standard equipment.

900-02—Same as 900-01, except with 1-HP 1-phase motor.

900-03—Metal spinning lathe (specify whether Gap or Straight Bed), complete with 1-HP 3-phase motor, manual switch with overload protection and all standard equipment.

900-36—No. 90 wood turning (specify gap or straight bed) complete with 1/2-HP 1-phase motor, magnetic controls, and all standard equipment.

900-37—No. 90 wood turning (specify gap or straight bed) complete with 3/4-HP 3-phase motor, magnetic controls and all standard equipment.

900-04—Same as 900-03, except with 1-HP 1-phase motor.

900-05—Combination wood turning and metal spinning lathe (Specify whether Gap or Straight Bed), complete with 1-HP 3-phase motor, manual switch with overload protection and all standard equipment.

900-06—Same as 900-05, except with 1-HP 1-phase motor.

OPTIONAL ACCESSORIES (see opposite page)

Special Listings

900-38—No. 90 wood turning (specify gap or straight bed) complete with 1-HP 1-phase motor, magnetic controls, and all standard equipment.

900-39—No. 90 wood turning (specify gap or straight bed) complete with 1-HP 3-phase motor, magnetic controls and all standard equipment.

SPECIFICATIONS

Overall length	67"	Swing over gap	17"	Height of bed from floor	36"
Distance between centers	38"	Width of gap	5 1/2"	Weight, net with stand	600 lbs.
Inboard spindle (8 thread)	1 1/2"	Variable speed range	500 to 4000 RPM	Weight, domestic crated with stand	700 lbs.
Outboard spindle (8 thread)	1 1/4"	Motor recommended	1-HP	Export boxed, with stand (60.4 cu. ft.)	850 lbs.
Swing over bed	12"				

**Model 2100
Pedestal and Bench
Grinders**

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

choose from
10 models for
precision grinding

Illuminated Eye Shields
(Optional) with shatter-
proof glass, smoothly light
work area while providing
extra operator protection.



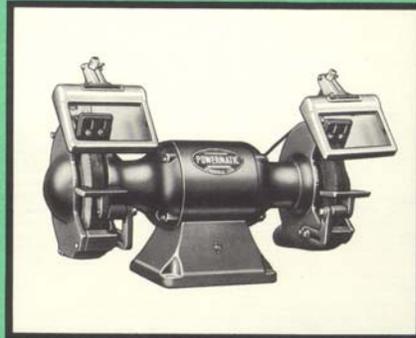
Bench or pedestal type... your rugged Powermatic grinder can be permanently installed in the handiest place or moved to the busiest location with ease!

Balanced, sealed ball bearing-mounted shaft keeps wheels turning true and vibration-free. Direct drive motor provides non-slip, positive power for the most exacting grinding job on high speed and carbon steel or carbide-tipped tools. Select from 1/2 to 2-HP sizes.

Fully guarded for maximum safety and Powermatic-engineered for top performance in heavy-duty operation year after year!

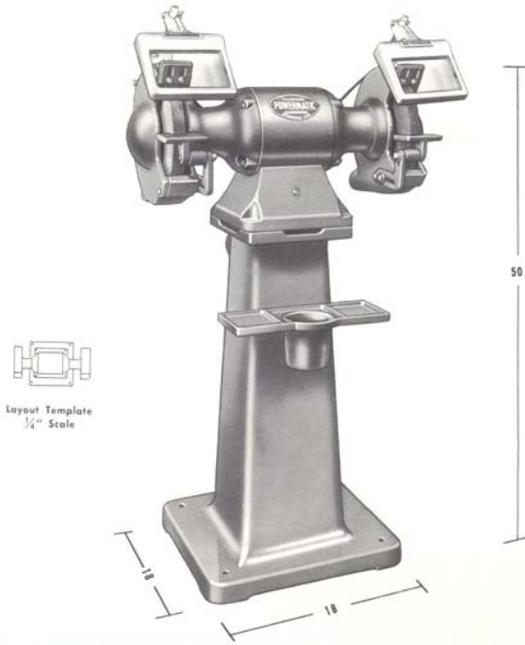


Heavy-Duty Cast Iron Pedestal is specially designed for rigid support. Reinforced steel pedestal is also available.



Handy Bench Model goes anywhere in a jiffy. Round-the-wheels heavy-gauge steel guards leave only the work area exposed.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



Model 2100 Pedestal and Bench Grinders

keeps every cutting tool ready for action

From the most delicately edged gouge or chisel to the heaviest end wrench in the shop... if there's a grinding job to be done you can do it more accurately and faster than ever before!

Only the grinding wheel working area is exposed... wheel guards, spark shields and optional eye shields provide maximum operator protection at all times.

Whether grinding and sharpening jobs come once a week or every few minutes, you'll soon discover how well your rugged, dependable Powermatic grinder delivers the precision and quality you need... with top performance under the most demanding operating condition.

Check These Bonus FEATURES

TOOL RESTS: Easy to adjust and lock at all vertical and lateral angles for full flexibility.
SHAFTS: Mounted in over-size sealed ball bearings for smooth, dependable performance.
GUARDS: Heavy-gauge steel construction. Easy to remove for wheel changing.
SPARK SHIELDS: For safety and visibility. Easily adjustable to wear of wheels.

MOTOR: Totally enclosed for long life and maximum safety. 1/2, 1/4, 1 and 2-HP, 1 or 3-phase available.
 When ordering be sure to also specify voltage.

HOW TO ORDER Standard Machines

- 2100-21—BENCH GRINDER** complete with steel guards, 2 spark shields, 2 adjustable tool rests, 2 wheels (1 coarse, 1 fine), toggle-switch in base, cord and totally enclosed 1/2-HP, 1-phase, 115 or 230-volt (specify), 1750 RPM motor.
2100-22—Same as 2100-21, except with 3/4-HP, 3-phase, 220 or 440-volt (specify) 1750 RPM motor.
2100-23—Same as 2100-21, except with 1-HP, 1-phase, 115 or 230-volt (specify) 3450 RPM motor.
2100-24—Same as 2100-21, except with 1/4-HP, 3-phase, 220 or 440-volt (specify) 3450 RPM motor.
2100-27—Same as 2100-21, except with 1/2-HP, 1-phase, 115 or 230-volt (specify) 3450 RPM motor.
2100-28—Same as 2100-21, except with 1-HP, 1-phase, 115 or 230-volt (specify) 1750 RPM motor.
2100-29—Same as 2100-21, except with 3/4-HP, 3-phase, 220 or 440-volt (specify) 3450 RPM motor.
2100-30—Same as 2100-21, except with 1-HP, 3-phase, 220 or 440-volt (specify) 1750 RPM motor.
2100-25—PEDESTAL GRINDER complete with steel guards, 2 spark shields, 2 adjustable tool rests, rigid cast iron pedestal, with tool tray and water pot, overload protected toggle-switch in base, cord and totally enclosed 2-HP, 3-phase, 208, 220 or 440-volt (specify) 1750 RPM motor. WHEELS NOT INCLUDED.
2100-26—Same as 2100-25, except with 2-HP, 1-phase, 115 or 230-volt (specify) 1750 RPM motor.

Optional Accessories

- 2100-31**—Steel Pedestal complete with tool rest and water pot for 1/2, 1/4 and 1-HP grinders.
2100-32—Set of two 12" x 2" grinding wheels (1 coarse, 1 fine).
2100-33—Set of two shatterproof eye shields.
2100-34—Set of two shatterproof eye shields, illuminated type.
2100-35—Pedestal complete with tool rest and water pot for 2-HP grinders.
2100-36—1-phase overload protected switch.
2100-37—3-phase overload protected switch.
2100-38—Magnetic controls for 1-phase operation.
2100-39—Magnetic controls for 3-phase operation.
2100-40—IIC electricals for 1 or 3-phase operation.

SPECIFICATIONS

Model No.	Power Rating	Speed RPM	Distance between Wheels	Wheel Diameter	Shaft Diameter	Model No.	Power Rating	Speed RPM	Distance between Wheels	Wheel Diameter	Shaft Diameter
2100-21, 22	1/2-HP	1750	14 1/4"	7" x 1"	1/4"	2100-28, 30	1-HP	1750	17 3/8"	10" x 1"	1/4"
2100-27, 29	3/4-HP	3450	16 1/4"	7" x 1"	3/8"	2100-25	2-HP	1750	20 1/2"	12" x 2"	1/4"
2100-23, 24	1-HP	3450	16 1/4"	8" x 1"	1/2"	2100-26	2-HP	1750	27 1/4"	12" x 2"	1 1/4"

WEIGHT:

	H.P. RATING					H.P. RATING			
	1/2	3/4	1	2		1/2	3/4	1	2
Net, bench model	61	89	132	245	Domestic crated, pedestal model	197	206	250	487
Net, pedestal model	132	141	184	412	Export boxed, bench model	71	115	152	261
Domestic crated, bench model	71	109	147	276	Export boxed, pedestal model	186	266	319	557

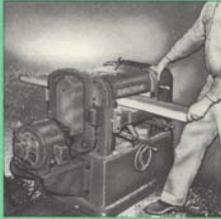
Model 160 16" Planer

**big value...
outstanding for
most planing jobs**

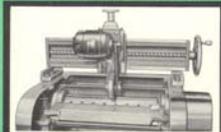
Belted Drive Assembly is simple, yet completely dependable. Note variable speed feed pulley, lower right, and compound sheaves and V-Belts which eliminate transmissions and gear boxes. Heavy cut gears drive feed rolls.



Feed Speed Adjustable to from 15 to 37 feet-per-minute with variable speed pulley. Sets quickly for every stock or production requirement.



Knife Grinder and Jointer (optional) bolts directly to frame. Easily removable grinder and jointer assembly glides along extra heavy 6" precision ground bar and is guided by steep-pitch screw which prevents blade burning.



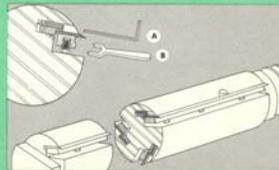
"Rough" to "Finished" in Seconds—Exclusive (optional) Quik-Set Table Roll Adjustment offers lever-controlled instant change from 0" to .040". Setting cannot drift.



Equipped with Powermatic's exclusive micrometer-type Quik-Set table roll adjustment (optional), the 160 adjusts planing from rough to finished stock and back again in seconds. Merely touch the Quik-Set knob to set the planing thickness you want, from 0" to .040". Setting is completely accurate and "stays put" until you re-set.

This is only one reason why the 160 is a sales leader in the entire Powermatic line. It is large enough to surface most common sizes of stock with superior precision and greater speed. It is rugged enough to withstand years of constant use in most cabinet, school, pattern, sample and millwork shops. Too, it's rapidly becoming a favorite in many industrial plants.

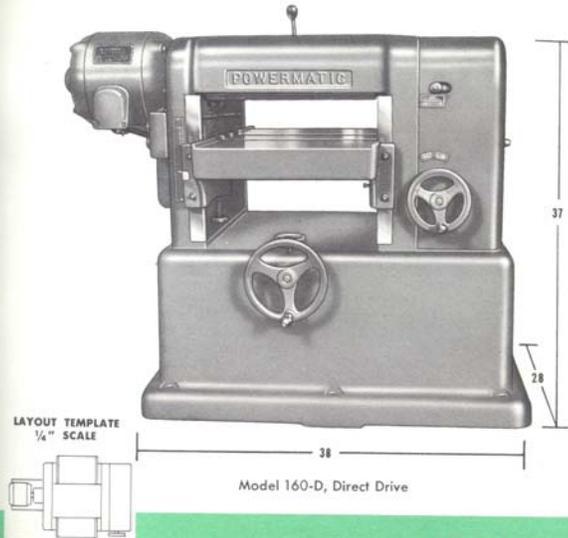
Here is all the heft and ruggedness of even the heaviest high-production industrial planer packed with many premium features that prove it the most flexible and dependable 16" unit available. Choose from either belted or direct drives.



Speeds Accurate Knife Setting—A standard feature!

Set and secure all cutterhead knives in as little as half the time. Adjust knife support jack screws (A) with Allen wrench and pressure-lock knife safety shim (B) with end wrench. Cutterhead mounted in over-size sealed ball bearings. Finest carbon tool steel.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



Model 160-D, Direct Drive

Model 160 16" Planer

planes up to 1/2 inch...
handles rough-sawn stock!

The only 16" planer designed to handle such deep stock-planing jobs. Feed the rough stock in and watch this Powermatic performance master wade right through as fast as you like! Special high-speed carbon steel cutterhead knives are designed for hard or soft stock.



Model 160-B, Belted Drive

FEATURES

FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support. One-piece 38" x 28" cast iron base.

BED: 16" x 31 1/2", accurately machined with extra heavy rib-reinforcing for perfect alignment always. Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings.

Convenient hand-wheel adjusts bed through full 6" range with 1/16" movement upon each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

CUTTERHEAD: Safety-type, milled from carbon tool steel and fitted with 3 high-speed knives. Mounted in over-size, sealed ball bearings, the entire cutterhead unit may be lifted free by removing drive pulley and three locking screws from flange mounting. Operating speed is 4600 RPM (belted) with 13,800 cuts-per-minute (50 knife-cuts-per-inch) at 20 feet-per-minute feed rate. Direct drive operating speed of 3600 RPM yields 10,800 cuts-per-minute (40 knife-cuts-per-inch) at 20 feet-per-minute feed rate. See Knife Adjustment feature on opposite page.

FEED ROLLS: Milled from tool steel. 2-3/16" in diameter with mounting yield of 1/4". Driven through over-size cut gears by V-belts from cutterhead spindle.

PRESSURE BAR: Mounted concentric to cutterhead and fitted extremely close to knife-cutting circle. The bar has extra wide foot for long wear and can be adjusted for perfect

alignment while machine is in operation.

CHIPBREAKER: Swings concentric to cutterhead and mounted just forward of the knife-cutting circle. Extra wide, accurately machined foot assures longer wear and top quality finish.

POWER FEED CONTROL: Variable speed pulley affords a complete range of feed from 15 to 37 feet-per-minute.

STOCK CAPACITY: Surfaces stock up to 16" wide and from 1/4" to 6" thick.

DRIVES: Belted drive (Model 160-B) cutterhead is driven by V-belts from motor mounted on the side of machine.

Direct drive (Model 160-D) cutterhead is driven by motor mounted directly to the cutterhead shaft.

POWER: 3-HP motor is recommended for light and medium work, such as pattern shops, schools, etc. 5-HP motor is recommended for heavier requirements and production work. 1 or 3-phase motors. Direct drive (Model 160-D) cannot be furnished with 5-HP 1-phase motor.

KNIFE GRINDING AND JOINTING ATTACHMENT: (Optional). Mounted on extra heavy 6" bar, precision ground for extreme accuracy. Grinder and jointer may be easily removed from permanently mounted grinder bar when not in use.

HOW TO ORDER

Standard Machines

- 160-10—160-D Powermatic 16" x 6" Single Surface Planer, with three-knife round safety cutterhead mounted in over-size precision ball bearings. Direct Motor Drive. 3-HP, 1-phase, 220-volt 60 cycle motor. (Specify motor characteristics when ordering). Variable speed of 15 to 37 feet-per-minute. Motor includes magnetic starter with under and overload voltage protection and push-button station.
- 160-11—160-D, same as 160-10 except 3-HP 3-phase 220/440-volt 60 cycle Direct Drive Motor.
- 160-13—160-D, same as 160-10, except 5-HP 3-phase 220/440-volt 60 cycle Direct Drive Motor.
- 160-01—160-B, same as 160-10, less cutterhead drive motor, equipped with V-pulley on

- cutterhead shaft.
- 160-02—160-B, same as 160-10, except 3-HP 1-phase 220-volt 60 cycle Belted Drive Motor.
- 160-03—160-B, same as 160-10, except 3-HP 3-phase 220/440-volt 60 cycle Belted Drive Motor.
- 160-04—160-B, same as 160-10, except 5-HP 1-phase 220-volt 60 cycle Belted Drive Motor.
- 160-05—160-B, same as 160-10, except 5-HP 3-phase 220/440-volt 60 cycle Belted Drive Motor.
- 160-06—160-B, same as 160-10 except 7 1/2-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive Motor.

Optional Accessories

- 160-20—Extra set of knives (3), High speed steel.
- 160-21—Shaving Hood (Specify outlet size).
- 160-22—Extra heavy-duty Knife Grinding and Jointing attachment with 6" bar.

- 160-23—2 Groove B-Section Motor Pulley for 3450 RPM motor.
- 160-24—2 Groove B-Section Motor Pulley for 1750 RPM motor.

- 160-25—Belt Guard for 3450 RPM motor.
- 160-26—Belt Guard for 1750 RPM motor.
- 160-27—Quik-Set Table Roll Adjustment.

SPECIFICATIONS

Bed	16" x 31 1/2"
Cutterhead (3-knife) cutting arc	4"
Recommended cutterhead speed, Belted drive	4600 RPM
Cutterhead speed, Direct drive	3600 RPM
Knives, 3, high speed steel	16" x 1 1/4" x 5.32"
Feed rollers	2-3/16" dia.
Bed rollers	2" dia.
Variable speed feed range	15 to 37 FPM

Knife cuts per minute, Belted drive	13,800
Knife cuts per minute, Direct drive	10,800
Maximum depth of cut	1/2"
Stock thickness range	1/4" to 6"
Widest planable stock	16"
Shortest planable stock, belted	4"
Weight, export boxed less motor (43.7 cu. ft.)	122 1/2 lbs.
Weight, export boxed with motor (59.7 cu. ft.)	1335 lbs.

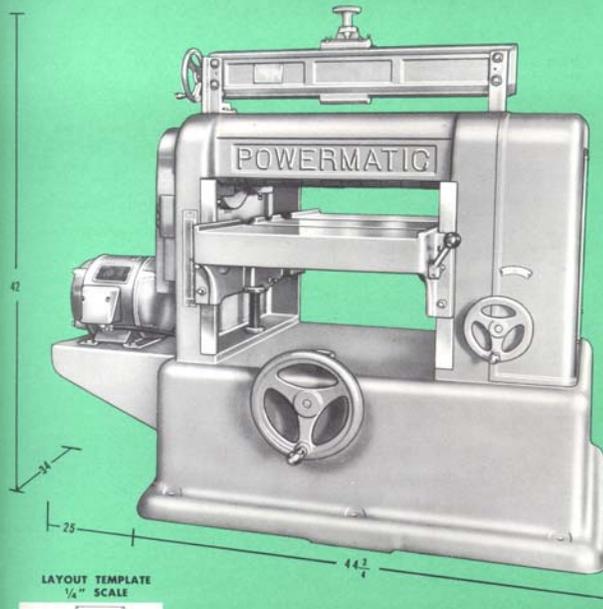
Shortest planable stock not belted	13"
Motors recommended for:	
Light & medium work	3 to 5-HP
Heavy duty work	7 1/2-HP
Weight, net less motor	1000 lbs.
Weight, net with motor	1100 lbs.
Weight, Domestic crated, less motor	1125 lbs.
Weight, Domestic crated, with motor	1225 lbs.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Model 221 20" Planer

unexcelled performance
for every surfacing job

Thousands of school, millwork and pattern shops, as well as hundreds of high production plants throughout America have discovered that the Powermatic 20" planer is unsurpassed for dependable, precision performance in an extremely wide variety of planing requirements. It incorporates every modern safety and operational feature for maximum efficiency.



LAYOUT TEMPLATE
1/4" SCALE



Model 221-B Belted Drive



Model 221-D Direct Drive

FEATURES

FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment. One-piece 34" x 44 1/4" cast iron base.

BED: 20 1/2" x 40", accurately machined with extra heavy rib-reinforcing for perfect alignment and maximum strength. Bed raises and lowers on large acme-thread screws, mounted on enclosed thrust bearings.

Convenient handwheel adjusts bed through full 8" range with 1/16" movement upon each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

CUTTERHEAD: Safety-type, milled from carbon tool steel and fitted with 3 high-speed knives, 5/32" x 1 1/4" x 20". Mounted in over-size, sealed ball bearings, the entire cutterhead unit may be lifted free by removing feed drive pulley and locking screws from flange mounting, 4 1/4" cutting circle.

Operating speed is 4600 RPM (belted) with 13,800 cuts-per-minute (50 knife-cuts-per-inch) at 20 feet-per-minute feed rate. Direct drive operating speed of 3600 RPM yields 10,800 cuts-per-minute (40 knife-cuts-per-inch) at 20 feet-per-minute feed rate. See knife adjustment feature on opposite page.

FEED ROLLS: Milled from tool steel. Extra large, 4" in diameter with mounting yield of 1/4". Mounted in sealed-for-life ball bearings and plunger-type coil springs. Feed rolls fully reversible on 3-phase current only. Sectional type optional. Infeed roll: corrugated, solid type is standard. Outfeed roll: smooth, 4" diameter, solid type with two adjustable, 2 1/4" table idler rollers. Fully adjustable, with drive through over-size cut gears by V-belts from cutterhead spindle.

PRESSURE BAR: Mounted concentric to cutterhead and fitted extremely near knife-cutting circle. The bar has extra wide foot for long wear (see side view drawing) and can be adjusted while machine is in operation.

CHIPBREAKER SOLID TYPE: (Sectional Optional) Swings concentric to cutterhead and mounted just forward of the knife-cutting circle. Has 1/2" yield with extra wide, accurately machined foot to assure longer wear and top grade finishing.

POWER FEED CONTROL: Variable speed pulley affords complete range of feed from 20 to 50 feet-per-minute. Driven by 1-HP totally enclosed motor mounted in base.

STOCK CAPACITY: Surfaces stock up to 20" wide and from 1/8" to 8" thick.

GUARDS: Designed for complete operating safety, guards enclose all moving parts. Easily removed for quick access.

LUBRICATION: All bearings either sealed-for-life type or equipped with easy-to-reach Alemite fittings.

DRIVES: Belted drive (Model 221-B) cutterhead is driven by V-Belts from motor mounted on the side of machine.

Direct Drive (Model 221-D) cutterhead is driven by motor mounted directly to cutterhead shaft.

POWER: 5-HP motor is recommended for light and medium work loads. For heavier requirements and high production use, the 7 1/2 or 10-HP motor is recommended.

Direct drive (Model 221-D) cannot be furnished with 5-HP 1-phase motor.

SEE STANDARD MACHINES, ACCESSORIES AND SPECIAL MACHINES ON NEXT PAGE

Planers

POWERMATIC

Model 221 20" Planer

How to Order

STANDARD MACHINES

- 221-01—221-D, 20" x 8" Single Surfer. Direct Drive. 5-HP, 3-phase, 220/440 or 550-volt, 50/60 cycle motor. (Be sure to specify motor characteristics when ordering). Motor includes magnetic starter, under and over-load voltage protection and push-button station.
- 221-03—221-D, Same as 221-01, except with 7½-HP, 3-phase, 220/440-volt, 60 cycle, Direct Drive motor.
- 221-04—221-D, Same as 221-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle, Direct Drive motor.
- 221-05—221-B, Same as 221-01, except less cutterhead motor. With V-pulley on cutterhead shaft.
- 221-06—221-B, Same as 221-01, except with 5-HP, 3-phase, 220/440-volt, 60 cycle, Belted Drive motor.
- 221-07—221-B, Same as 221-01, except with 5-HP, 1-phase, 220-volt, 60 cycle, Belted Drive motor.
- 221-08—221-B, Same as 221-01, except with 7½-HP, 3-phase, 220/440-volt, 60 cycle, Belted Drive motor.
- 221-09—221-B, Same as 221-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle, Belted Drive motor.

OPTIONAL ACCESSORIES

- 221-15—KNIFE GRINDING AND JOINTING ATTACHMENT with ¼-HP, 1-phase, 110-volt motor.
- 221-16—SECTIONAL TOP INFEED ROLLS. 4" diameter, 2" sections of cast steel mounted on milled carbon tool steel shaft.
- 221-17—SECTIONAL CHIPBREAKER. Made of 2" cast steel sections. ¼" yield.
- 221-18—SHAVING HOOD. (Be sure to specify size of outlet).
- 221-19—FOUR-KNIFE CUTTERHEAD. Same precision construction as three-knife. For the "satin finish" sometimes necessary.
- 221-20—Set of Three High-Speed Steel Knives.
- 221-21—Set of Four High-Speed Steel Knives.
- 221-22—3 Groove B-Section 5.45" pulley for 3450 RPM motor.
- 221-23—Switch for 5-HP, 1-phase, 220-volt, 60 cycle motor with magnetic starter and push-button station.
- 221-24—Same as 221-23, except for 5-HP, 3-phase, 220/440-volt motor.
- 221-25—Same as 221-23, except for 7½-HP, 3-phase, 220/440-volt motor.
- 221-26—Same as 221-23, except for 10-HP, 3-phase, 220/440-volt motor.
- 221-27—3 groove B-section 9.40 inch Dia. pulley for 1750 RPM motor.
- 221-28—JIC Electricals for 5 to 7½-HP.
- 221-29—JIC Electricals for 10-HP.

SPECIFICATIONS

Bed	20¼" x 40"
Cutterhead	4" dia.
Cutting circle	4¼"
Recommended cutterhead speed, belted drive	4600 RPM
Cutterhead speed, direct drive	3600 RPM
Knives (3 or 4), high-speed steel	20" x 1¼" x 5/32"
Feed rollers	4" dia.
Bed rollers	2½" dia.
Variable speed feed range	20 to 50 FPM
Knife-cuts-per-minute, belted drive	13,800
Knife-cuts-per-minute, direct drive	10,800
Maximum depth of cut	½"
Stock thickness range	¼" to 8"
Widest planable stock	20"
Shortest planable stock, belted	4"
Shortest planable stock, not belted	13"
Motors recommended for:	
Light & medium work	5-HP
Heavy duty work	7½ to 10-HP
Weight, Net, less motor	1600 lbs.
Weight, Net, with motor	1700 lbs.
Weight, Domestic crated, less motor	1985 lbs.
Weight, Domestic crated, with motor	2160 lbs.
Weight, Export boxed, less motor (83.3 cu. ft.)	2100 lbs.
Weight, Export boxed, with motor (93.1 cu. ft.)	2280 lbs.

Model 225 24" Planer

How to Order

STANDARD MACHINES

- Be sure to specify motor characteristics when ordering.
- 225-01—225-D 24" x 8" Single Surface Planer as specified on opposite page, with four-knife round safety cutterhead, sectional chipbreaker, sectional feed rolls and 1½-HP totally enclosed feed motor. 5-HP, 3-phase, 220, 440 or 550-volts, 50 or 60 cycle cutterhead motor. Motor includes Magnetic starter with overload and low voltage protection and push-button station.
- 225-03—225-D Same as 225-01, except with 7½-HP, 3-phase, 220/440-volt, 60 cycle Direct Drive motor.
- 225-04—225-D Same as 225-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle Direct Drive motor.
- 225-05—225-B Same as 225-01, except less cutterhead motor. With V-pulley on cutterhead shaft.
- 225-06—225-B Same as 225-01, except with 5-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.
- 225-07—225-B Same as 225-01, except with 5-HP, 1-phase, 220-volt, 60 cycle Belted Drive motor.
- 225-08—225-B Same as 225-01, except with 7½-HP, 3-phase, 220/440-volt 60 cycle, Belted Drive motor.
- 225-09—225-B Same as 225-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.
- 225-10—225-B Same as 225-01, except with 15-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.

OPTIONAL ACCESSORIES

- 225-20—KNIFE GRINDING AND JOINTING ATTACHMENT with ¼-HP, 1-phase, 110-volt motor.
- 225-21—SHAVING HOOD (Specify outlet size when ordering).
- 225-22—Set of Four High-Speed Steel Knives.
- 225-23—3 Groove B-Section 5.45" pulley for 3450 RPM motor.
- 225-24—Switch for 5-HP, 1-phase, 220-volt, 60 cycle motor with magnetic starter and push-button station.
- 225-25—Same as 225-24, except for 5-HP, 3-phase, 220/440-volt motor.
- 225-26—Same as 225-24, except for 7½-HP, 3-phase, 220/440-volt motor.
- 225-27—Same as 225-24, except for 10-HP, 3-phase, 220/440-volt motor.
- 225-28—JIC Electricals for 5 to 7½-HP.
- 225-29—JIC Electricals for 10-HP.

SPECIFICATIONS

Bed	24" x 48"
Cutterhead	4¼"
Cutting circle	4½"
Recommended:	
Cutterhead speed, Belted drive	4600-5000-5500 RPM
Cutterhead speed, Direct drive	3600 RPM
Knives (4), high speed steel	24" x 1¼" x 5/32"
Feed rollers	4" dia.
Bed rollers	4" dia.
Variable speed feed range	20 to 100 FPM
Knife-cuts-per-minute, Belted drive	18,400
Knife-cuts-per-minute, Direct drive	14,400
Maximum depth of cut	½"
Stock thickness range	¼" to 8"
Widest planable stock	24"
Shortest planable stock, belted	4"
Shortest planable stock, not belted	13"
Motors recommended for:	
Light and medium work	5 to 7½-HP
Heavy duty work	10 to 15-HP
Weight, Net, less motor	2450 lbs.
Weight, Net with motor	2600 lbs.
Weight, Domestic crated, less motor	2700 lbs.
Weight, Domestic crated, with motor	2955 lbs.
Weight, Export boxed, less motor (118.6 cu. ft.)	2900 lbs.
Weight, Export boxed, with motor (121.9 cu. ft.)	3150 lbs.

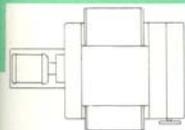
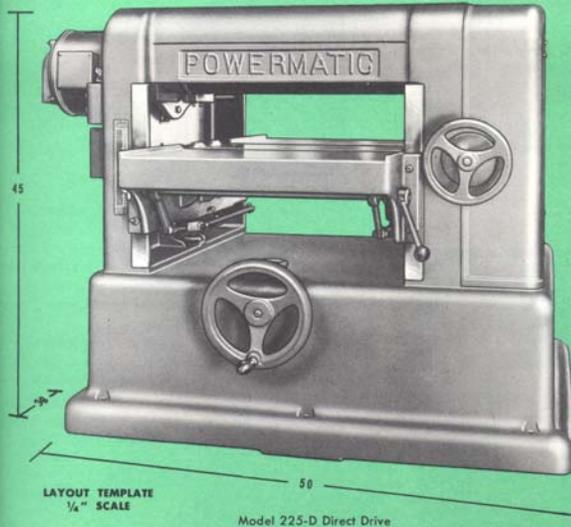
ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Model 225 24" Planer

**big, rugged . . .
for cabinetry and
high production accuracy**

Regardless of the stock, from heavy, structural laminates to finished glued panels . . . the Powermatic 24" planer has proved highly dependable for unerring accuracy and extremely smooth surfacing qualities.

In finer cabinet work, the precision performance of this planer cuts finishing time to the bare minimum. Its big capacity assures a maximum range of flexibility as important for the smaller shop as it is for the larger industrial operation.



Model 225-D Direct Drive



Model 225-B Belted Drive

FEATURES

FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment. One-piece 38" x 50" heavy milled, box-type reinforced base insures permanently rigid support.

BED: 24" x 48", accurately machined with extra heavy rib-reinforcing for perfect alignment and maximum strength. Surface precision ground from a one-piece casting. Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings, running in steel cut bevel gears.

Convenient handwheel adjusts bed through full 8" range with 1/16" movement upon each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

CUTTERHEAD: Safety-type, milled from carbon tool steel and fitted with 4 high-speed knives, 5/32" x 1 1/4" x 24". Mounted in over-size, sealed ball bearings, the entire cutterhead unit may be lifted free by removing 4 locking screws from flange mounting. 4 1/2" cutting circle.

OPERATING SPEED: 4600 RPM (Belted) with 14,800 cuts-per-minute (76 knife-cuts-per-inch) at 20 feet-per-minute feed rate. Direct drive operating speed of 3600 RPM yields 14,400 cuts-per-minute (69 knife-cuts-per-inch) at 20 feet-per-minute feed. See knife adjustment feature on page 30.

FEED ROLLS: Milled from tool steel. Extra large, 4" in diameter with mounting yield of 1/4". Mounted in sealed-for-life ball bearings and plunger-type coil springs. All rolls fully reversible on 3-phase current only.

Infeed Roll: Corrugated, 2" cast steel sectional type mounted on milled alloy steel spline shaft. Reversible without damage to springs.

Outfeed Roll: Smooth, solid type with 2 adjustable idler rollers. Fully adjustable, with drive through over-size cut gears.

PRESSURE BAR: Mounted concentric to cutterhead and fitted extremely near knife-cutting circle. The bar has extra wide foot for long wear (see side view drawing page 30) and can be adjusted during machine operation.

CHIPBREAKER: 2" cast steel, sectional-type with independent 1/8" yield. Sections are mounted on a steel bar just forward of the knife-cutting circle and swing concentric to the cutterhead. On extremely deep cuts, chipbreaker unit is lifted by the infeed roll boxes and prevents stock from hitting too high on the heel of the chipbreaker sections.

POWER FEED CONTROL: Variable speed pulley affords complete range of feed from 20 to 100 feet-per-minute. Driven with 1 1/2-HP totally enclosed motor, and mounted in machine base. Controlled by side-mounted drum switch.

DRIVES: Belted drive (Model 225-B) cutterhead is driven by V-belts from motor mounted on side of machine. Direct drive (Model 225-D) cutterhead is driven by motor mounted directly to the cutterhead shaft.

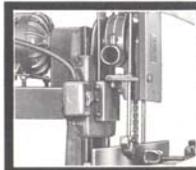
POWER: 5-HP Motor is recommended for light and medium work loads. For extra heavy and high production requirements, the 7 1/2 to 15-HP motor is recommended. Single-phase motor available in 5-HP rating only with belted drive unit (Model 225-B). All other motors available 3-phase.

KNIFE GRINDING AND JOINTING ATTACHMENT: (Optional) Mounted on extra heavy 6" bar, precision ground for superb accuracy. Grinder and jointer heads may be easily removed from permanently mounted grinder bar when not in use.

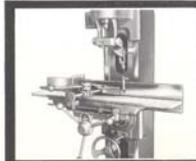
Mortisers

every cut...
clean, sharp
and clear

Sliding Head is spring counter-balanced on heavy, rigid machined column with convenient foot pedal control for safe, easy operation.



Universal Table assures complete flexibility for mortise cuts at any angle. Fast, simple 45° right or left tilting, 14" vertical and 12" longitudinal table adjustment.



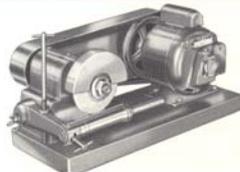
Exactly Powermatic engineered and built for years of dependable service. Whether in simple shop operation or industrial high production, Powermatic mortisers are famous for hair-line accuracy without jumping or pounding.

Check each feature carefully for proof of Powermatic superiority in every type of mortise operation. Compound table with quick-acting stock clamp permits easy, fast and accurate successive cuts at any angle.

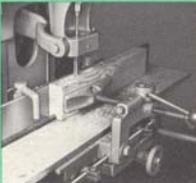
**BUILT-IN FAN KEEPS WORK
CLEAN AND CUTTING
EDGE COOL!**



Chain Grinder (Optional) For #15 and #41 Mortisers. Specially built for precision chain grinding with absolute uniformity. Grinds correct cutting angle absolutely essential to top quality work and to prevent jumping, binding and excessive chain breakage.



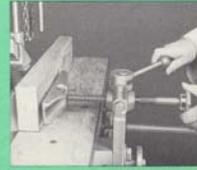
Sliding Table Rack with adjustable stops enables operator to make successive straight-line cuts with utmost precision on the #10 hollow chisel machine.



Chain Tension Adjustment is quick and easy. Helps make chain bar and sprocket last much longer. The most important adjustment in mortiser operation.

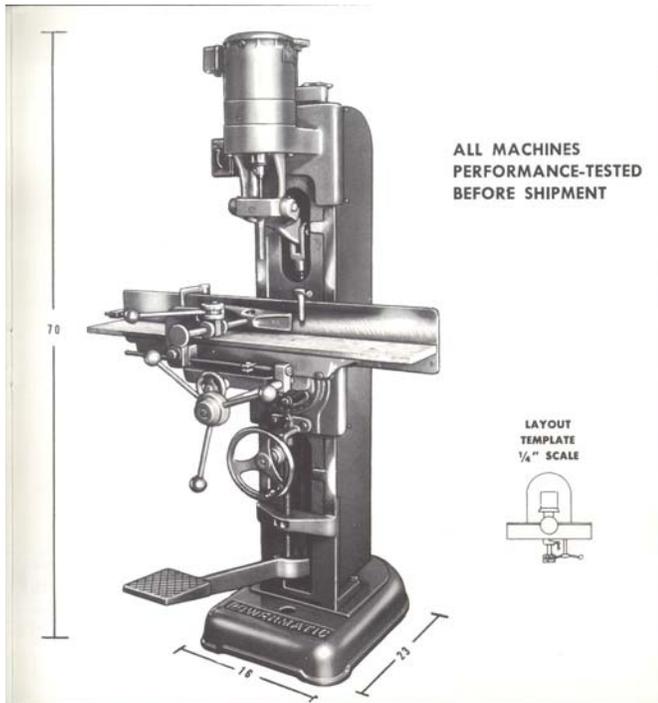


Quick-Acting Eccentric Clamp permits fast stock change with complete accuracy in high production operations.



Rigid Chipbreaker assures smooth, clean, splinter-free cuts on #15 and #41 chain saw mortisers.





ALL MACHINES
PERFORMANCE-TESTED
BEFORE SHIPMENT

#10 Hollow Chisel Mortiser

**vibration-free . . .
for perfect performance**

Designed to speed through the most complicated work requirements with clean, crisp cuts every time! Perfectly balanced head precision mounted on a heavy, rigid column assures smooth-action without the jumping, pounding or jamming so common in many other mortisers. Day-in, day-out use in hundreds of millwork, pattern and cabinet shops as well as manufacturing operations from coast to coast continues to win high acclaim from thousands of experienced and novice operators. No other mortiser is operated easier in continuous production.

FEATURES

FRAME: Perfectly fitted from heavy, reinforced castings for extreme rigid support and to eliminate vibration.
TABLE: Universal style, 6" x 36" with 4" back fence. Compound rack and pinion unit which tilts 45° right or left with a 14" vertical adjustment range operated by convenient, front-mounted handwheel. Lateral hand-wheel adjustment 4".
 Stock is held snugly in position with a quick acting, adjustable eccentric clamp. Front-mounted turret wheel operates rack and pinion for full 12" straight-line mortising without unclamping work.
STROKE: Maximum bit action range is 4", the deepest cutting depth. Stroke is operated by foot lever through linkage which provides for full leverage adjustment. Assures maxi-

mum operator production with minimum fatigue.
BITS: Equipped with 3/4" chisel and bit, chuck, 2 chisel bushings and complete wrench set. Boring bit is 9" in overall length with a twist of 6". Accommodates soft wood mortise chisels up to 3/4".
MOTOR: Direct drive type, built-in. Choose from either 1-HP or 1 1/2-HP 1-phase (110 or 220-volt) or 3-phase (220 or 440-volt) models for light and medium work requirements. For extra heavy mortising operations the 2-HP 3-phase (220 or 440-volt) motor is recommended.
 Motor spindles operate in high-speed ball bearings for years of perfect alignment and trouble-free service. Cross-the-line motor switch is front-mounted at eye level.

HOW TO ORDER

- Standard Machines**
- 400-01—Powermatic #10 Hollow Chisel Mortiser complete with 3/4" chisel and bit, chuck, chisel bushings, wrench set and 1-HP 1-phase motor and switch.
 - 400-02—Same as 400-01 except with 1-HP 3-phase motor.
 - 400-03—Same as 400-01 except with 1 1/2-HP 1-phase motor.
 - 400-04—Same as 400-01 except with 1 1/2-HP 3-phase motor.
 - 400-05—Same as 400-01 except with 2-HP, 3-phase motor.

Optional Accessories

- 420-04—7/16" diameter
- 420-05—1/2" diameter
- 420-06—9/16" diameter
- 420-07—5/8" diameter
- 420-08—11/16" diameter
- 420-09—1/4" diameter
- 420-10—13/16" diameter
- 420-11—3/4" diameter
- 420-12—1" diameter
- 400-10—Magnetic controls for 3-phase.
- 400-11—Magnetic controls for 1-phase.
- 400-12—1-phase overload protected switch
- 400-13—3-phase overload protected switch
- 400-14—JIC Electricals for 1-phase or 3-phase

SPECIFICATIONS

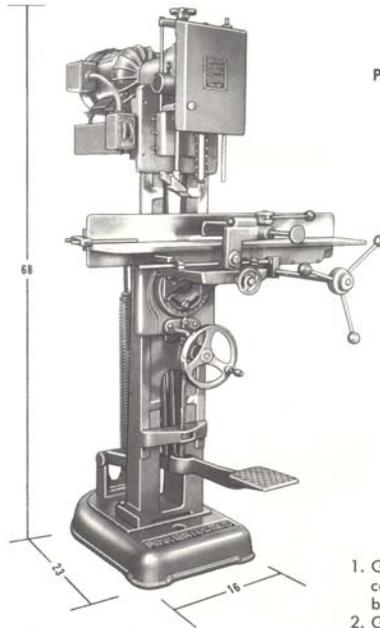
Table	6" x 36"	Chisel Center-to-Back Stop, maximum	4"	Chisel Bushings Shank Sizes	3/8" & 1/2"
Table, Lateral Travel	4"	Maximum Stock Width	14"	Chuck Capacity	3/4"
Table, Longitudinal Travel	12"	Range of Depth Stop	4"	Motor Speed	3600 RPM
Table, Vertical Adjustment	14"	Maximum Boring Depth	4"	Weight, Net	500 lbs.
Fence	4" x 36"	Maximum Bit Size	3/4" shank, 1 1/2"	Weight, Domestic Crated	750 lbs.
Chisel-to-Table Top, maximum	14"	Chisel Shank Hole Diameter	1 1/4"	Weight, Export boxed, (88.5 cu. ft.)	900 lbs.

#15 Chain Saw Mortiser

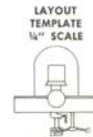
big capacity . . . to speed production

Here is the ruggedness, versatility and outstanding performance required for every type of mortising operation . . . big or small. The massive balanced sliding head of the Powermatic #15 Chain Saw Mortiser assures smooth-as-velvet action which means superb production accuracy with minimum effort for any operator . . . veteran or novice.

Universal table offers increased flexibility . . . so easy to adjust for any type of cut you desire. Advanced safety features and low operating cost mean extra dollar value and extra production in every shop or plant.



ALL MACHINES
PERFORMANCE-TESTED
BEFORE SHIPMENT



How to Order CHAIN MORTISE SETS

1. Give distance from sprocket center to center of mortise bar mounting slot (A)
2. Give dimensions of cut (B).

FEATURES

FRAME: Perfectly fitted from heavy, reinforced iron castings for extreme rigid support and perfect alignment. Mounted on heavy cast iron base to eliminate annoying vibration.

TABLE: Universal style, 6" x 36" with 4" back fence. Compound rack and pinion unit which tilts 45° right or left with a 14" vertical adjustment range operated by convenient, front-mounted hand-wheel. Table may be laterally adjusted up to 4" with hand-wheel. Stock is held snugly in position with a quick-acting, adjustable eccentric clamp. Front-mounted turret handle operates rack and pinion for full 12" straight-line mortising without unclamping work.

STROKE: Maximum range is 4", the deepest cutting depth. Stroke is easily controlled by foot lever through linkage which provides for full leverage adjustment. Speeds production and reduces operator fatigue.

HEAD: Precision built of cast iron with adjustable gibs. Runs on extra long, precision machined ways.

SPINDLE: 1-3/16" in diameter, mounted in sealed ball bearings. Spindle is driven with shaft coupled directly to motor. A built-in, spindle-mounted fan keeps work clean and free from dust and chips.

CHAIN: Equipped with 3/8" x 1 1/2" chain, bar and sprocket mortise set as standard equipment. May be fitted with mortise sets from 1/4" x 1/4" to 1/2" x 3" (available at extra cost).

LUBRICATION: Automatic oiler assembly assures constant oil application to chain while machine is in operation. Chain, bar and sprocket last months longer.

MOTOR: 1-HP, 3-phase motor is completely sufficient for all light mortising operations, up to 1/2". For heavier mortising, up to 3/4", a 2-HP motor is required. 1 1/2-HP and 2-HP motors are available either 1 or 3-phase.

Motor is controlled with a manually operated switch front-mounted at eye level.

HOW TO ORDER

Standard Machines

- 320-01—Powermatic #15 Chain Saw Mortiser complete with 1/2" x 1 1/2" mortise set, wrench set and 1-HP, 3-phase motor and switch.
320-02—Same as 320-01 except with 1 1/2-HP, 1-phase motor.
320-03—Same as 320-01 except with 1 1/2-HP, 3-phase motor.
320-04—Same as 320-01 except with 2-HP, 3-phase motor.
320-05—Same as 320-01 except with 2-HP, 1-phase motor.

MORTISE SETS

Optional Accessories

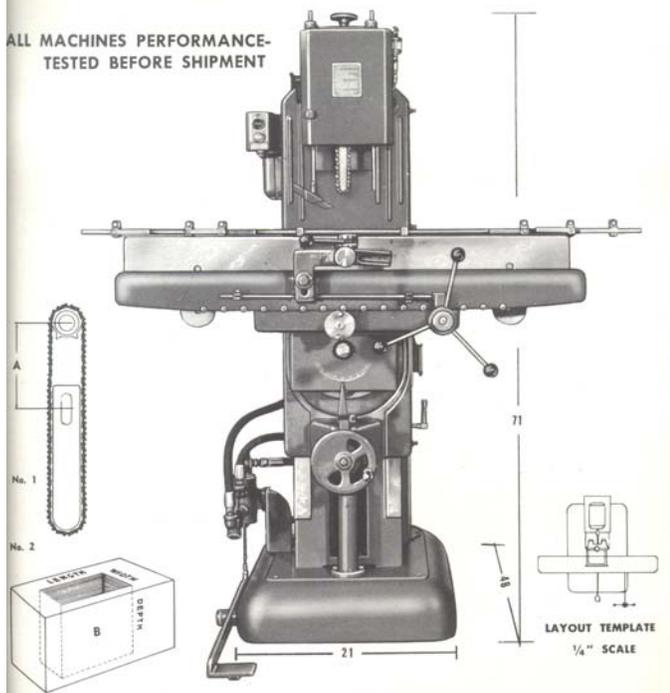
- 320-10—1-phase overload protected switch.
320-11—3-phase overload protected switch.
320-12—Magnetic controls for 3-phase operation.
320-13—Magnetic controls for 1-phase operation.
320-14—JIC electricals for 1 or 3-phase operation.
320-15—1 3/8" x 1/4" x 3" Mortise set including chain, bar and sprocket.
320-16—1/2" x 1/4" x 3" Mortise set including chain, bar and sprocket.
320-17—1/4" x 1" x 3 1/2" Mortise set including chain, bar and sprocket.
320-18—1/2" x 1 1/2" x 4 1/2" Mortise set including chain, bar and sprocket.
320-19—1/2" x 1 1/2" x 5" Mortise set including chain, bar and sprocket.

Other Mortise sets available. Write factory for information.
520-01—Mortise Chain Grinder, less motor.
520-02—Mortise Chain Grinder, with motor.

SPECIFICATIONS

Table	6" x 36"	Chain Center-to-Back Stop, Maximum	4"	Standard Mortise Set Furnished	1/2" x 1 1/2"
Table, Lateral Travel	4"	Maximum Stock Width	14"	Motor Speed	3600 RPM
Table, Longitudinal Travel	12"	Range of Depth Stop	5"	Weight, Net	650 lbs.
Table, Vertical Adjustment	14"	Maximum Cutting Depth	5"	Weight, Domestic Crated	800 lbs.
Fence	4" x 36"	Maximum Usable Mortise Set	1/2" x 3"	Weight, Export boxed, (88.5 cu. ft.)	900 lbs.
Chain-to-Table Top, Maximum	14"	Minimum Usable Mortise Set	1/4" x 1/4"		

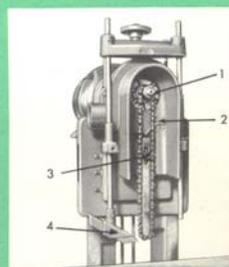
ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



#41 Chain Saw Mortiser

unmatched features . . . for high production

- PRECISION SLIDING HEAD
- EFFORTLESS FOOT PEDAL CONTROL
- RIGID CAST IRON COLUMN AND BASE
- UNIVERSAL TILTING TABLE
- ADJUSTABLE BACK FENCE



Simplified Mortiser Head Mechanism

1. Built-in chip blower.
2. Oiler for positive chain lubrication.
3. Block-mounted mortise bar for easy adjustment.
4. Adjustable chipbreaker.

FEATURES

FRAME: Heavy cast iron, rib-reinforced for true rigidity. Large cast base for uniform balance.

TABLE: Universal style, 7" x 48" with 5" back fence. Compound rack and pinion unit which tilts 45° right or left with a 12" bevel gear vertical adjustment range operated by front-mounted hand-wheel. 4" lateral table hand-wheel adjustment.

3" facing adjustment permits mortising to center of 6" stock. Mortise 12" cuts without releasing quick-acting eccentric stock clamp.

STROKE: Maximum range is 5", the deepest cutting depth. Foot lever control through quick-acting cylinder. Feed speed fully adjustable to stock requirements.

HEAD: Glides smoothly on main column. Operated through foot controlled cylinder.

SPINDLE: 1/2" in diameter, mounted in sealed ball bearings and driven with shaft coupled directly to motor. Built-in, spindle-mounted fan keeps work clear.

CHAIN: Equipped with 1/8" x 1 1/4" mortise chain, sprocket and bar. Accommodates all size mortise gear from 1/4" x 3/4" to 3/4" x 3".

MOTORS: 5-HP spindle motor is recommended for medium operation. 7 1/2-HP spindle motor is required for extra heavy duty work loads. Hydraulic pump is driven by 1-HP motor.

LUBRICATION: Automatic oiler assembly assures constant oil application to chain during operation.

HOW TO ORDER

Standard Machines

480-01—#41 Hydraulic Chain Saw Mortiser including 1/8" x 1 1/4" mortise chain, sprocket and bar. Equipped with 1-HP Hydraulic Pump Motor and 5-HP, 3-phase spindle motor.

480-02—Same as above except with 7 1/2-HP, 3-phase spindle motor.

Optional Accessories

480-10—Magnetic controls for 3-phase operation.
480-11—Magnetic controls for 1-phase operation.
480-12—JIC electricals for 1 or 3-phase operation.

520-01—Mortise chain grinder, less motor.
520-02—Mortise chain grinder, with motor.

For Mortise Chain Sets, See Listings Under Model 15 Mortiser on Opposite Page.

SPECIFICATIONS

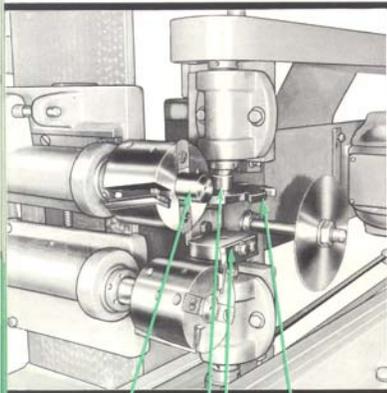
Table	7" x 48"
Table, Lateral Travel	4"
Table, Longitudinal Travel	12"
Table, Vertical adjustment	12"
Chain-to-Table Top, maximum	12"
Chain Center-to-Back stop, maximum	3"

Maximum Stock Width	15"
Range of Depth Stop	5"
Maximum Cutting Depth	5"
Maximum Usable Mortise Set	3/4" x 3"
Minimum Usable Mortise Set	1/4" x 3/4"

Standard Mortise Set Furnished	1/8" x 1 1/4"
Motor Speed	7 1/2 or 5-HP, 3450 RPM
Weight, Net	1550 lbs.
Weight, Domestic Crated	1700 lbs.
Weight, Export Boxed (147 cu. ft.)	1950 lbs.

#2-A Single-End Tenoner

every tenon operation...
with true accuracy

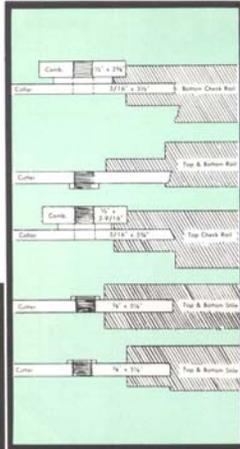


(A) Tenon heads may be easily set to cut offset shoulders on tenons.

(B) Cope heads or check rail cutters screw on threaded cope spindles and seat against machined shoulder to insure perfect alignment. Check rail cutter or cope head stiles are easily interchanged.

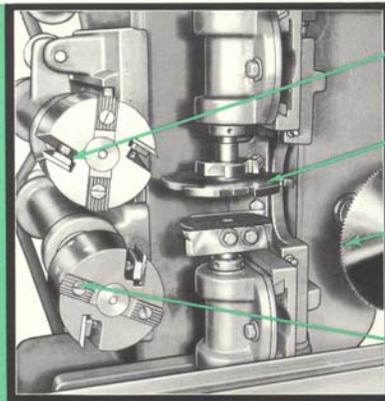
(C) Six-tooth, square check rail slot-cutter on upper cope arbor slots top and bottom stiles accurately.

(D) Pattern-ground cope knives make sash pattern changes fast and simple.



A Variety of Cuts are possible with check rail slotters attached to cope spindles.

Whether you make hourly changes for special runs or put this Powermatic champion into week-in, week-out continuous high production, you'll soon discover the hundreds of time-saving and money-saving reasons why the #2-A Powermatic tenoner is preferred by so many woodworking manufacturers from coast to coast.



(A) Angle-set high speed tenon knives reduce chipping hazards.

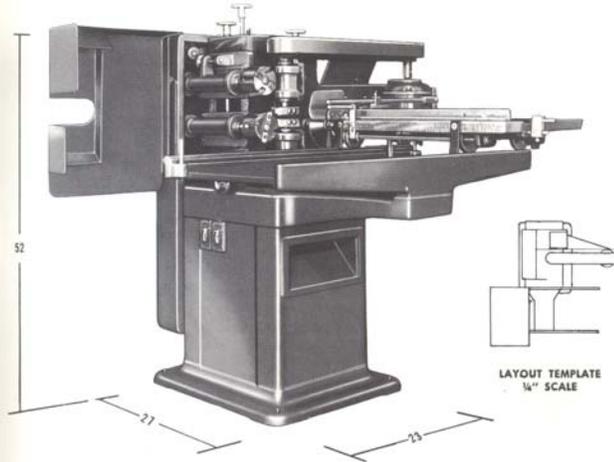
(B) Save production time! Combination check rail cutters perform with tenons in a single stock feed.

(C) Fully adjustable cut-off saw can be set quickly to cleanly trim tenon of any length.

(D) Spur-cutters cut ahead of tenon knives and prevent ragged edges.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

#2-A Single-End Tenoner



most versatile to increase production, lower costs

Stock and style change-over is so fast and simple. Such complete flexibility cuts operating costs at every turn and superior Powermatic construction assures many years of precision, trouble-free operation. The comparatively small initial cost makes the #2-A Powermatic Tenoner just as practical for the smaller millwork, cabinet and pattern shop as for high speed production lines of the woodworking industry.

FEATURES

TENON HEADS: Round type, $3\frac{1}{4}$ " in diameter. Both tenon heads may be vertically adjusted. Top tenon head has horizontal adjustment for cutting tenons with offset shoulders. Both heads can be instantly vertically adjusted as a unit to cut an identical tenon when change-over to stock of different thickness is made.
TENON HEAD SPINDLES: 1- $3/16$ " in diameter. Mounted in sealed ball bearings.
TENON HEAD MOTOR: 2-HP, 3450 RPM motor mounted in base powers tenon heads through two double section V-belts.
COPEES: (Optional) Equipped with dual carbon tool steel knives. Both heads may be individually adjusted vertically and horizontally.
COPE HEAD SPINDLES: $\frac{1}{2}$ " in diameter and mounted in sealed ball bearings. Spindle ends are threaded to accommodate solid steel cutters (for cutting check rail slots up to 8") or any style pattern cutters.
COPE MOTOR: (Optional) 1-HP, 3450 RPM motor powers cope spindles through dual

V-belt drive.
CUT-OFF SAW: Blade 7" in diameter, mounted on shaft equipped with sealed ball bearings. Driven at 5300 RPM by special V-belt from tenon head motor.
FRAME: Heavy cast iron construction, mounted on cast iron base with heavy reinforced steel side panels and guards.
GUARDS: Heavy reinforced welded steel construction. Easily detachable for quick access.
CARRIAGE: Perfectly balanced for finger-tip control. Mounted on double rollers for speed and accuracy. Moves securely on precision-ground ways assuring perfect alignment with all cutters.
CONTROLS: Both motors have separate controls for individual operation of tenon or cope heads. Motors furnished complete with switches.
CAPACITY: 3" with tenon and cope heads fully open. Maximum tenon 3" thick, 3" long, 13" wide.

HOW TO ORDER

Standard Machines

280-01—#2-A Single-end Tenoner without Cope Heads and Cope Motor. Equipped with 2-HP, 3-phase Tenon Head Motor and switch.
 280-02—Same as 280-01 except with 2-HP, 1-phase Tenon Head Motor.
 280-03—#2-A Single-end Tenoner Including Cope Heads with 1-HP Cope Motor and 2-HP Tenon Head Motor. Both motors 3-phase. Complete with switches.
 280-04—Same as 280-03, except for 1-phase operation.

Optional Accessories

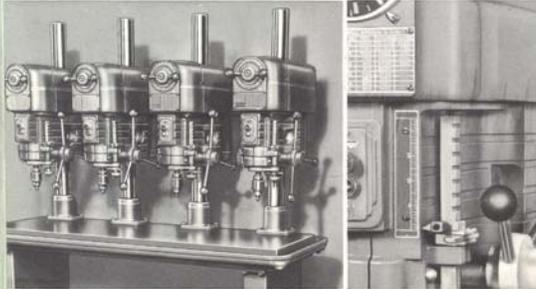
280-10—Tenon Head, less knives (Specify upper or lower).
 280-11—Cope Head, less knives (Specify upper or lower).
 280-12—Cope Knives (Specify upper or lower).
 280-13—Tenon Knives (Specify upper or lower).
 280-14—Spur Cutters.
 280-15—Tenon Belts (2 required) AA75.
 280-16—Cope Belts (2 required) 4L560.
 280-17—Pattern ground cope knives.
 280-18—1-phase overload protected switch. (2 required).
 280-19—3-phase overload protected switch. (2 required).
 280-20—Magnetic controls for 1-phase operation (2 required).
 280-21—Magnetic controls for 3-phase operation (2 required).
Write Factory For Prices On Check Rail Cutters

SPECIFICATIONS

Tenon Heads	3" x $3\frac{1}{4}$ "	Motors recommended:		Weight, Net, with copes	1045 lbs.
Tenon Spindles	1- $3/16$ " dia.	Tenon Head	2-HP 3450 RPM	Weight, Domestic crated, less copes	1050 lbs.
Cope Spindles	$\frac{1}{2}$ " dia.	Cope Head	1-HP 3450 RPM	Weight, Domestic crated, with copes	1145 lbs.
Cutoff saw	7" dia.	Recommended speed of Tenon and Cope heads	3450 RPM	Weight, Export Boxed, less copes (84.5 cu. ft.)	1400 lbs.
Maximum Tenon cut	3" thick, 3" long, 13" wide	Recommended speed of cutoff saw	3450 RPM	Weight, Export Boxed, with copes (84.5 cu. ft.)	1500 lbs.
		Weight, Net, less copes	950 lbs.		

**Model 1100
15" Drill Press**

*single units or
multiples ... for
every application*

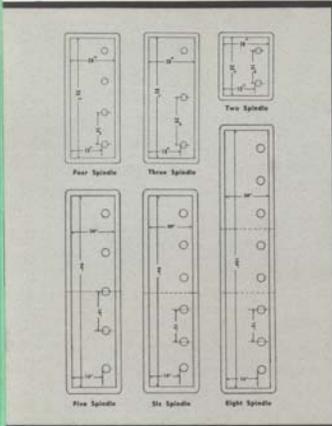


VARIABLE SPEED MULTIPLES

Choose from bench, floor and single or multiple spindle production models... add components and accessories as you like to custom-tailor the machines to your own special requirements! In addition to feature-packed design and exacting, precision construction usually found only in higher priced units, the Powermatic 15" drill press offers the ultimate in operating flexibility with maximum safety.

Whether you choose variable or four-speed models, you'll make extra production savings every operating hour with convenient, precision Powermatic controls and big capacity. Accurate, easy-to-make adjustments speed stock change-overs in every shop or production activity.

Micrometer-Type Depth Gauge with large, accurate calibrations at eye-level. Easy to set, easy to see! Spindle travel is full 4-5/16"



**CHOOSE FROM THESE STANDARD
MULTIPLE SPINDLE ARRANGEMENTS**

POWERMATIC

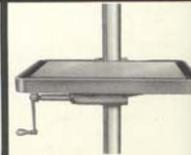
CHOOSE FROM THREE SPECIALLY-DESIGNED TABLES



Utility Table affords completely rigid and level 10 x 11" working surface. Slotted for easy attachment of accessories.



Tilting Table tilts 90° right or left for any angle boring job. Provides 10" x 11" working surface slotted for accessories.

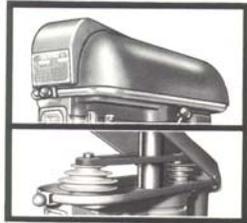


Production Table provides extra large 12" x 18" working surface, precision machined for extra drilling accuracy.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

**CHANGE SPEED INSTANTLY...
CHECK SPEED INSTANTLY**
Powermatic's New Variable Speed
Model WITH QUIK-SET SPEED
SELECTOR AT EYE-LEVEL

No belts to handle when you change spindle speed! Just a twist of the accurately-calibrated variable speed control lets you choose speed instantly while machine runs. Speed ranges from 450 to 2800 RPM (slow speed model)... and 600 to 4800 RPM (high speed model) increase drilling accuracy and bit life.



**FOUR-SPEED STEP PULLEY
MODELS AVAILABLE IN TWO
POPULAR SPEED RANGES**

New, economy price makes this model very popular with smaller shops, schools and maintenance shops. Built with the same care and precision as the variable speed model, this powerful machine offers years of heavy-duty performance in the most common drill applications.



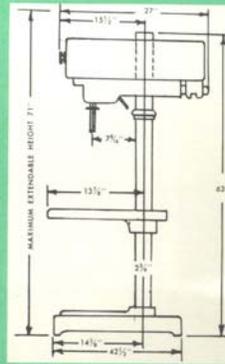
New, non-slip variable speed drive.

**Model 1100
15" Drill Press**

**The Safest 15"
Drill Press Available!**

Powermatic designers and engineers have incorporated every practical safety feature! That's the reason why this machine has been selected and is in constant use in thousands of school shops everywhere.

Inexperienced students find that precision drilling comes easy. Simplified controls and adjustments rapidly increase any operator's efficiency.



Optional Accessories Speed Up Specialized Drilling Operations

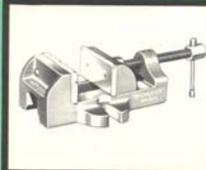


Spring-Balanced Foot Feed with depth-stop frees operators' hands for unusual drilling jobs.

Mortising Attachment securely positions stock for all mortising operations.



Straight Vise with accurately machined faces locks stock securely. Available in 1 1/4", 2 1/2" and 3" capacities.



Tilting Vise, with precision machined faces, is quickly adjustable for drilling stock at virtually any angle.



Hollow Chisels And Bits available for every specialized mortising application. Choose from 1/4", 3/8" and 1/2" sizes.



Table And Head-Raising Mechanism is quick, positive... easily operated crank operates worm gear on column rack.



Model 1100 15" Drill Press

How to Order FLOOR AND BENCH MODELS
Variable— $\frac{1}{4}$ -HP Motor • 4-Speed— $\frac{1}{4}$ -HP Motor

Spindle, Speed & Motor Specs.	Utility Table Floor Model		Tilting Table Floor Model		Tilting Table Bench Model		Production Table Floor Model		Production Table Bench Model	
	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley
Hi-Speed, #2 Morse, 1-Phase	1100-01	1100-02	1100-03	1100-04	1100-05	1100-06	1100-07	1100-08	1100-09	1100-10
Hi-Speed, #2 Morse, 3-Phase	1100-11	1100-12	1100-13	1100-14	1100-15	1100-16	1100-17	1100-18	1100-19	1100-20
Hi-Speed, Key Chuck, 1-Phase	1100-21	1100-22	1100-23	1100-24	1100-25	1100-26	1100-27	1100-28	1100-29	1100-30
Hi-Speed, Key Chuck, 3-Phase	1100-31	1100-32	1100-33	1100-34	1100-35	1100-36	1100-37	1100-38	1100-39	1100-40
Slo-Speed, #2 Morse, 1-Phase	1100-41	1100-42	1100-43	1100-44	1100-45	1100-46	1100-47	1100-48	1100-49	1100-50
Slo-Speed, #2 Morse, 3-Phase	1100-51	1100-52	1100-53	1100-54	1100-55	1100-56	1100-57	1100-58	1100-59	1100-60
Slo-Speed, Key Chuck, 1-Phase	1100-61	1100-62	1100-63	1100-64	1100-65	1100-66	1100-67	1100-68	1100-69	1100-70
Slo-Speed, Key Chuck, 3-Phase	1100-71	1100-72	1100-73	1100-74	1100-75	1100-76	1100-77	1100-78	1100-79	1100-80
Hi-Speed, #2 Morse, LESS MTR.	Not Available	1100-81	Not Available	1100-82	Not Available	1100-83	Not Available	1100-84	Not Available	1100-85
Hi-Speed, Key Chuck, LESS MTR.	Not Available	1100-86	Not Available	1100-87	Not Available	1100-88	Not Available	1100-89	Not Available	1100-90
Slo-Speed, #2 Morse, LESS MTR.	Not Available	1100-91	Not Available	1100-92	Not Available	1100-93	Not Available	1100-94	Not Available	1100-95
Slo-Speed, Key Chuck, LESS MTR.	Not Available	1100-96	Not Available	1100-97	Not Available	1100-98	Not Available	1100-99	Not Available	1100-100

MULTIPLE SPINDLE MODELS

Spindle, Speed & Motor Specs.	2-Spindle		3-Spindle		4-Spindle		5-Spindle		6-Spindle		8-Spindle	
	Variable	Step Pulley										
Hi-Speed, #2 Morse, 1-Phase	1100-301	1100-302	1100-303	1100-304	1100-305	1100-306	1100-309	1100-400	1100-401	1100-402	1100-403	1100-404
Hi-Speed, #2 Morse, 3-Phase	1100-311	1100-312	1100-313	1100-314	1100-315	1100-316	1100-405	1100-406	1100-407	1100-408	1100-409	1100-410
Hi-Speed, Key Chuck, 1-Phase	1100-321	1100-322	1100-323	1100-324	1100-325	1100-326	1100-411	1100-412	1100-413	1100-414	1100-415	1100-416
Hi-Speed, Key Chuck, 3-Phase	1100-331	1100-332	1100-333	1100-334	1100-335	1100-336	1100-417	1100-418	1100-419	1100-420	1100-421	1100-422
Slo-Speed, #2 Morse, 1-Phase	1100-341	1100-342	1100-343	1100-344	1100-345	1100-346	1100-423	1100-424	1100-425	1100-426	1100-427	1100-428
Slo-Speed, #2 Morse, 3-Phase	1100-351	1100-352	1100-353	1100-354	1100-355	1100-356	1100-429	1100-430	1100-431	1100-432	1100-433	1100-434
Slo-Speed, Key Chuck, 1-Phase	1100-361	1100-362	1100-363	1100-364	1100-365	1100-366	1100-435	1100-436	1100-437	1100-438	1100-439	1100-440
Slo-Speed, Key Chuck, 3-Phase	1100-371	1100-372	1100-373	1100-374	1100-375	1100-376	1100-441	1100-442	1100-443	1100-444	1100-445	1100-446
Hi-Speed, #2 Morse, LESS MTR.	Not Available	1100-381	Not Available	1100-382	Not Available	1100-383	Not Available	1100-447	Not Available	1100-448	Not Available	1100-449
Hi-Speed, Key Chuck, LESS MTR.	Not Available	1100-386	Not Available	1100-387	Not Available	1100-388	Not Available	1100-450	Not Available	1100-451	Not Available	1100-452
Slo-Speed, #2 Morse, LESS MTR.	Not Available	1100-391	Not Available	1100-392	Not Available	1100-393	Not Available	1100-453	Not Available	1100-454	Not Available	1100-455
Slo-Speed, Key Chuck, LESS MTR.	Not Available	1100-396	Not Available	1100-397	Not Available	1100-398	Not Available	1100-456	Not Available	1100-457	Not Available	1100-458

Model 1100 15" Drill Press

SPECIFICATIONS

Spindle; carbon steel	9-spline, #2 Morse taper or 0-1/2" Jacobs Chuck	Spindle speed, variable model:	
Spindle travel	4-5/16"	High Speed	600-4800 RPM
Quill diameter	2-3/16"	Slow Speed	450-2800 RPM
Column diameter	2 1/4" O.D.	Spindle speed, Step Pulley model:	
Column Length, floor model	68 1/4"	High Speed	680-1250-2400-4600 RPM
Column Length, bench model	37 1/2"	Slow Speed	470-780-1300-1950 RPM
Column wall thickness	3/4"	Bearings	(4) sealed ball type
Table working surface:		Drives available	Variable or 4-step pulley
Utility table	10" x 11"	Height, floor model	68 1/2"
Tilting table	10" x 11"	Height, bench model	37 1/2"
Production table	12" x 18"	Weight, Net, bench model	230 lbs.
Base working surface	8 1/2" x 12"	Weight, Net, floor model	295 lbs.
Capacity in cast iron	1/2"	Weight, Domestic crated, bench model	300 lbs.
Throat Depth	Drills to center of 15" dia.	Weight, Domestic crated, floor model	380 lbs.
		Weight, Export boxed, bench model (23.6 cu. ft.)	350 lbs.
		Weight, Export boxed, floor model (31.8 cu. ft.)	480 lbs.

How to Order COMPLETE HEADS

1100-101 —Head assembly, 4 speed, hi-speed key chuck, complete with 1/2-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.	chuck, complete with 1/4-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.
1100-102 —Head assembly, 4 speed, slo-speed key chuck, complete with 1/2-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.	1100-106 —Head assembly, variable speed, slo-speed key chuck, complete with 1/4-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.
1100-103 —Head assembly, 4 speed, hi-speed #2 Morse taper, complete with 1/2-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.	1100-107 —Head assembly, variable speed, hi-speed #2 Morse taper, complete with 1/4-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.
1100-104 —Head assembly, 4 speed, slo-speed #2 Morse taper, complete with 1/2-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.	1100-108 —Head assembly, variable speed, slo-speed #2 Morse taper, complete with 1/4-HP, 1 or 3-phase T.E.F.C. motor and switch, motor pulley and belt.
1100-105 —Head assembly, variable speed, hi-speed key	

MULTIPLE SPINDLE TABLES AND STEEL SUPPORT LEGS

1100-120 —Production table 20" x 30" (accommodates one and two spindles).	1100-123 —Production table 20" x 124" (accommodates seven and eight spindles).
1100-121 —Production table 20" x 55" (accommodates three and four spindles).	1100-124 —20" x 30" center section (accommodates 2 spindles) for making 8 spindle table.
1100-122 —Production table 20" x 94" (accommodates five and six spindles).	1100-125 —Legs, steel, 27 1/2" high for mounting production tables.

OPTIONAL ACCESSORIES

1100-109 —Base for single spindle floor model.	1100-202 —Foot feed.
1100-110 —Column, floor model, 62".	1100-203 —Angle vise, 2 1/4" capacity.
1100-111 —Column, Multiple spindle, 37".	1100-204 —Straight vise, 2 1/2" capacity.
1100-112 —Safety collar for head or table.	1100-205 —Straight vise, 3" capacity.
1100-113 —Flange for mounting column on table.	1100-206 —Straight vise, 1 1/2" capacity.
1100-114 —Utility table 10" x 11".	1100-207 —0 to 1/2" Chuck.
1100-115 —Tilting table 10" x 11".	1100-208 —1/4" Hollow chisel and bit.
1100-116 —Production table for bench model 14 1/2" x 16" working surface.	1100-209 —1/2" Hollow chisel and bit.
1100-117 —Production table for floor model 12" x 18".	1100-210 —1/2" Hollow chisel and bit.
1100-118 —Spindle assembly, #2 Morse taper complete with bearings.	1100-211 —3-wire, 8 ft. cord, with attachment plug cap.
1100-119 —Spindle assembly, #33 taper, without Jacobs chuck complete with bearings.	1100-212 —4-wire, 8 ft. cord, with attachment plug cap.
1100-200 —Morse attachment, complete with holddown.	1100-213 —Work Lamp.
1100-201 —Raising mechanism for head or table.	1100-214 —Magnetic controls for 1-phase operation.
	1100-215 —Magnetic controls for 3-phase operation.
	1100-216 —JIC electricals for 1 or 3-phase operation.
	1100-217 —1-phase overload protected switch.
	1100-218 —3-phase overload protected switch.

POWERMATIC

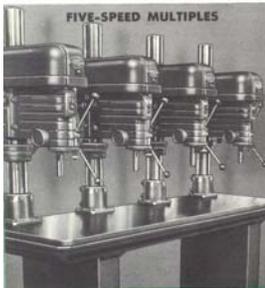
**Model 1200
20" Drill Press**

*mechanical or
hand feed . . . variable or
five-speed models*

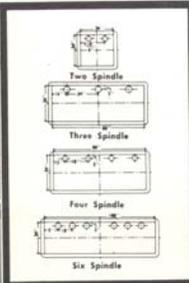
Careful designing, rugged construction and big capacity combine to make the Powermatic 20" Drill Press a versatile performance-leader for the heaviest work loads. Utilizing optional accessories, specialized units for every production requirement can be easily developed for your particular needs . . . in multiple spindles or single units.

Easily movable, units can be quickly shifted to meet changing line production requirements. Unusually low investment and maintenance costs bring giant savings to industrial plants, schools, metal working, pattern and maintenance shops of all types.

**CHOOSE FROM THESE STANDARD
MULTIPLE SPINDLE ARRANGEMENTS**



FIVE-SPEED MULTIPLES



Standard Features Assure Precision Drilling

Micrometer-Type Depth Gauge assures depth accuracy with precision, eye-level calibrations. Easy to set, easy to see!

6-Spline Spindle of carbon steel in large 2 3/4" quill, mounted in 4 heavy duty sealed ball bearings, absorbs both radial and vertical thrust. Accommodates #2 or #3 Morse taper and 0 to 1/2" Jacobs chuck with adapter.

Safety Control Switch is front-mounted for operator convenience. Push-button design helps prevent accidental engagement.

Extra Heavy 4" Column is 1/2" thick precision-ground steel, assuring rigid top and bottom support for heavy duty, cast iron head assembly. Available lengths 33", 42" (standard bench model), 66" (standard floor model) or 78".

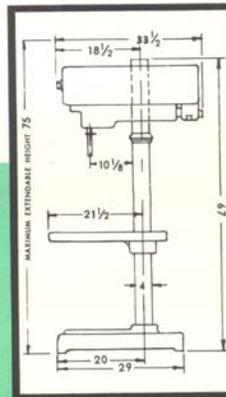
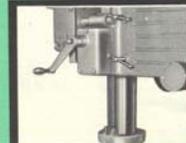


Table-Raising Mechanism is fast and accurate . . . crank-operated utilizing worm gear.



Optional Head-Raising Mechanism is safe and sure . . . saves production time. Holds securely in any position.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



LAYOUT
TEMPLATE— $\frac{1}{4}$ " SCALE

Model 1200 20" Drill Press

**CHANGE SPEED INSTANTLY
... CHECK SPEED INSTANTLY**

**Powermatic's New
Variable Speed Model
with QUIK-SET SPEED
SELECTOR AT EYE-LEVEL**

No belts to handle when you change spindle speed! Just a twist of the accurately-calibrated variable speed control lets you choose speed instantly while machine runs.

Speed ranges from 170 to 900 RPM (slow speed model with 1100 RPM motor) ... and 250 to 1750 RPM (high speed model with 1800 RPM motor) increase drilling accuracy and bit life.

**NEW FIVE-SPEED MODEL
with Exclusive
Counter-shaft Drive**

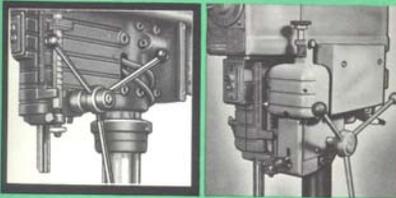
Utilizing a radically new inter-pulley drive concept, this five-speed model offers the widest range of speeds available today. The combination of ultra-slow speed (140 RPM with 900 RPM motor) to high speed (2500 RPM with 1800 RPM motor) affords a flexibility of speed ranges previously unavailable for complicated multiple spindle production line-ups.

This extremely wide range of speeds assures top performance of every operation, from tapping, spot-facing and reaming to high-speed drilling on a single unit, without bulky attachments.

**Special Swing-away Guard
for EASY, SIMPLE
SPEED CHANGING**

No tools needed ... no bolts to loosen! Drive guard swings up and back for full access to drive pulleys and belt. Belt tension can be released and belt relocation made quickly and easily.

Choose Manual or Mechanical Feed Operation



**Simple,
Precision-Control
Manual Hand Feed**

Turret wheel equipped with large easy-grip knobs provides finger-tip, balanced leverage so necessary in heavy duty drilling.

**New Time-Saving,
Variable Speed
Power Feed**

The only variable speed mechanical feed unit now available which features infinitely variable feed speeds from .002" to .012" per-spindle-revolution! Speed is adjusted with convenient knurled-knob on top of feed housing ... easy-to-check, eye-level speed indicator. Feed rate automatically adjusts to all spindle speeds. As spindle speed is accelerated or slowed, feed speeds are compensated for automatically. Drills to any desired depth, controlled by trigger-switch on depth-stop indicator.



Model 1200 20" Drill Press

SPECIFICATIONS

Spindle Speeds:	Quill Diameter.....	2 1/4"	Width production table.....	22"
Variable Speed Model	Spindle.....	#2MT or #3MT, 6 Spline 1-3/16"	Working surface, tilting table.....	16" x 18"
High Speed, 1800 RPM Motor 250-1750 RPM	Base Working Surface.....	13 1/2" x 18"	Working surface, production table.....	15 1/2" x 18"
Slow Speed, 1100 RPM Motor 170- 900 RPM	Stroke.....	6 1/2"	Column Length.....	Floor Model, 66"; Bench Model, 42"
Step Pulley Model	Dimensions:		Column Diameter.....	4" x 1/2" Wall Thickness
High Speeds.....	Height, Floor Model (Maximum).....	75"	Largest Dia. hole in Steel.....	1/4"
Slow Speeds.....	Height, Bench Model (Maximum).....	51"	Largest Dia. hole in Cast Iron.....	1"
	Front to rear.....	33 1/2"	Weight, Net.....	500 lbs.
	Width tilting table.....	18"	Weight, Domestic Crated.....	650 lbs.
			Weight, Export Boxed (36.2 cu. ft.).....	800 lbs.

How to Order
MULTIPLE SPINDLE FLOOR AND BENCH MODELS
 Furnished with 1-HP, Motor, Switch and Table or Head Raising Mechanism.

Speed and Motor Specifications	Floor Model Production Table		Bench Model Production Table		Two Spindle		Three Spindle		Four Spindle		Six Spindle		Eight Spindle	
	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley
Hi-Speed 3-Phase Hand Feed	1200-01	1200-70	1200-10	1200-71	1200-20	1200-72	1200-25	1200-73	1200-30	1200-74	1200-35	1200-75	1200-37	1200-76
Slw-Speed 3-Phase Hand Feed	1200-77	1200-78	1200-79	1200-80	1200-81	1200-82	1200-83	1200-84	1200-85	1200-86	1200-87	1200-88	1200-89	1200-90
Hi-Speed 1-Phase Hand Feed	1200-02	1200-91	1200-92	1200-93	1200-94	1200-95	1200-96	1200-97	1200-98	1200-99	1200-100	1200-101	1200-102	1200-103
Slw-Speed 1-Phase Hand Feed	1200-104	1200-105	1200-106	1200-107	1200-108	1200-109	1200-110	1200-111	1200-112	1200-113	1200-114	1200-115	1200-116	1200-117
Hi-Speed 3-Phase Mech. Feed	1200-03	1200-118	1200-119	1200-120	1200-21	1200-121	1200-26	1200-122	1200-31	1200-123	1200-36	1200-124	1200-38	1200-125
Slw-Speed 3-Phase Mech. Feed	1200-126	1200-127	1200-128	1200-129	1200-130	1200-131	1200-132	1200-133	1200-134	1200-135	1200-136	1200-137	1200-138	1200-139
Hi-Speed 1-Phase Mech. Feed	1200-04	1200-140	1200-111	1200-141	1200-142	1200-143	1200-144	1200-145	1200-146	1200-147	1200-148	1200-149	1200-150	1200-151
Slw-Speed 1-Phase Mech. Feed	1200-152	1200-153	1200-154	1200-155	1200-156	1200-157	1200-158	1200-159	1200-160	1200-161	1200-162	1200-163	1200-164	1200-165
Hi-Speed Hand Feed Less Mtr.	Not Available	1200-166	Not Available	1200-167	Not Available	1200-168	Not Available	1200-169	Not Available	1200-170	Not Available	1200-171	Not Available	1200-172
Slw-Speed Hand Feed Less Mtr.	Not Available	1200-173	Not Available	1200-174	Not Available	1200-175	Not Available	1200-176	Not Available	1200-177	Not Available	1200-178	Not Available	1200-179
Hi-Speed Mech. Feed Less Mtr.	Not Available	1200-180	Not Available	1200-181	Not Available	1200-182	Not Available	1200-183	Not Available	1200-184	Not Available	1200-185	Not Available	1200-186
Slw-Speed Mech. Feed Less Mtr.	Not Available	1200-187	Not Available	1200-188	Not Available	1200-189	Not Available	1200-190	Not Available	1200-191	Not Available	1200-192	Not Available	1200-193

STANDARD HEAD ASSEMBLIES

1200-40 —Head assembly, variable speed, hand feed, 1-HP, 3-phase, 60 cycle, 1800 RPM motor, less head raising mechanism.	1200-51 —Head assembly, 5 speed, High speed, 1-HP, 3-phase, 1800 RPM motor and switch.
1200-41 —Head assembly, variable speed, mechanical feed, 1-HP, 3-phase, 60 cycle, 1800 RPM motor, less head raising mechanism.	1200-52 —Head assembly, 5 speed, Slow speed, 1-HP, 3-phase, 1800 RPM motor and switch.

Optional Accessories

1200-42 —Raising mechanism for head or table.	1200-53 —Steel legs, for mounting production tables. Height, 27".	1200-68 —T-slotted multiple spindle production tables for six and eight spindles, extra.
1200-43 —Production table with parallel T slots, 15 1/2" x 18" ground surface, less raising mechanism.	1200-55 —Manual switch with overload protection.	1200-69 —1-HP, 1-phase 1100 RPM motor for step pulley Drill Presses.
1200-44 —Tilting table 16" x 18" ground surface, column bracket and tilting scale, less raising mechanism.	1200-56 —Magnetic switch with overload protection.	1200-70 —1/2-HP, 1-phase 1100 RPM motor for step pulley and variable speed Drill Presses.
1200-45 —Production table, Bench Model, 18" x 25" ground surface.	1200-57 —0" to 1/2" Chuck for No. 3 Morse taper.	1200-71 —1-HP, 3-phase 1100 RPM motor for step pulley Drill Presses.
1200-46 —Production table, 24" x 36" ground surface, for two spindles.	1200-58 —Column, 4" x 33".	1200-72 —1/2-HP, 3-phase 1100 RPM motor for step pulley and Variable Speed Drill Presses.
1200-47 —Center Section, 24" x 34" drilled and tapped for 2 spindles to make 8 spindle table.	1200-59 —Column, 4" x 42" (Standard on bench models).	1200-73 —1/2-HP, 1-phase 1800 RPM motor for Variable Speed Drill Presses.
1200-48 —Production table 24" x 60" ground surface, for four spindles.	1200-60 —Column, 4" x 66" (Standard on floor models).	1200-74 —1/2-HP, 3-phase 1800 RPM motor for Variable Speed Drill Presses.
1200-49 —Production table 24" x 108" ground surface, for six spindles.	1200-61 —Column, 4" x 78".	1200-75 —Work Lamp.
1200-50 —Mechanical Feed.	1200-62 —Flange, with screws for mounting column on table.	1200-76 —JIC electricals for 1 and 3-phase operation.
	1200-63 —Drill Press vise, 1/2" capacity.	
	1200-64 —Drill Press vise, tilting.	
	1200-65 —3-wire, 8 ft. cord with attachment plug.	
	1200-66 —4-wire, 8 ft. cord with attachment plug.	
	1200-67 —T-slotted multiple spindle production tables for four spindles, extra.	

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



LAYOUT TEMPLATE
1/4" SCALE



Model 87 — 20" Metal Cutting Band Saw

**check speed instantly . . .
change speed instantly . . .
from 40 to 4600 SFM!**

Choose your stock and choose your speed . . . *instantly!* No time-wasting speed change-over necessary. Just dial the correct speed and get a smooth cut every time.

Hefty, precision construction assures years and years of dependable performance in cutting all types of ferrous and non-ferrous metals . . . wood, plastic and similar materials.

EXTRA SAFETY

Completely Guarded Except Cutting Edge.

CHECK THESE IMPORTANT EXTRA VALUE FEATURES



Heavy Duty 6" Single-Action Trunnion for maximum rigidity. Controlled by hand-wheel on side of machine. Adjusts table 45° right, 15° left.



Two Hardened Guide Blocks, for 1/4" to 1/2" or 1/2" to 1" blade are standard equipment. Guide cushioned with adjustable back bearing.



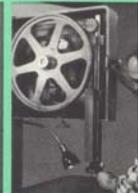
Blade Welder And Grinder is front-mounted for quick, accurate blade repair and installation.



Quik-Set Speed Selector mechanism, transmission, motor and drive mechanism are completely enclosed in dust-proof base.



Convenient, Removable Chip Pan is located just below lower wheel.



Counter-Balanced Guide Bar makes guide and blade adjustment safe and simple. Note telescoping guard completely enclosing blade above guide.

Front-Mounted Control Center within easy reach activates entire variable speed range. No belts to change . . . hand-wheel controlled speed.



Accessories

*precision performance,
extra safety
...on every job*

There's a genuine Powermatic-engineered accessory unit available to enable you to perform every conceivable band saw operation with greater speed, accuracy and safety. Check your job requirements now... and select the money-saving, time-saving Powermatic accessories you need.

OPTIONAL ACCESSORIES FOR ADDED FLEXIBILITY



Two High-Speed, Ball Bearing Guide Inserts accommodating $3/16"$ to $1/2"$ and $1/2"$ to $1"$ blades available standard instead of guide blocks or as optional accessory.

AUTOMATIC POWER FEED available (OPTIONAL EQUIPMENT)

Tremendous time and labor saver on production line operations! Stock moves perfectly along table-insert slot at predetermined rate of feed. Handy, foot-controlled release.

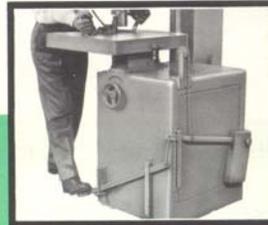


Table-Insert Stock Guide is essential for many high production operations. Flexible chip blower is also available.



Special Hardened Angle Guide cushioned with stationary back-bearing is optional. Complete with angle blade insert set for $1/8"$, $3/16"$, $1/4"$, $3/8"$, and $1/2"$ blades.



Screw Feed Attachment, fitted to table insert, offers maximum in feed control and safety for cutting smaller stock.



Simple, Three-Piece Screw Feed unit is extremely accurate, easy to attach and remove from table.



Flexy-Mount Work Lamp keeps work area well lighted. Move easily to any position.



Convenient Circle Cutter attaches quickly to guide arm permitting radius cuts from $1 1/2"$ to $15"$ in diameter.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



Model 87 — 20" Metal Cutting Band Saw

Exclusive ...

Quik-Set®

SPEED SELECTOR STANDARD EQUIPMENT

Just a flick of the convenient hand-wheel and you accurately dial any speed from 40 to 4600 SFM. Highly important when stock changes are frequent and extreme accuracy must be maintained. Exclusive in the Powermatic price range!

RUGGED CONSTRUCTION

—built of tough, heavy-duty steel plate. Sturdy reinforcement at all points of stress assures maximum rigidity, accuracy and dependability even under the most extreme operating conditions.

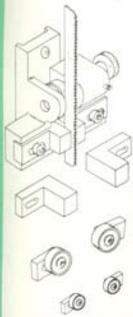
PRECISION ENGINEERED

—combining practical shop requirements with the finest operating features.

EXTRA SAFETY—streamlined in design with all moving parts completely guarded. Blade exposed only from guide to table!

**CHECK OTHER FEATURES
ON PAGE 50**

Change Guides in 5 Minutes or less!



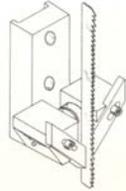
#50 Standard Guide with adjustable back-bearing.

and

Flat Inserts* (self-cleaning) for 1/4" to 1/2" or 1/2" to 1" blade.

or

High-speed Ball-Bearing Inserts* for 3/16" to 1/2" or 1/2" to 1" blade.



#55 Angle-Insert Guides* with set of inserts for 1/4", 3/16", 1/4", 3/8" and 1/2" blades. Stationary back-bearing. Change Inserts in 60 Seconds!

*Optional Equipment

Change Inserts in 60 Seconds!

Model 87 — 20" Metal Cutting Band Saw

CHECK AND COMPARE THESE OUTSTANDING BAND SAW FEATURES!

FRAME: Rugged steel plate construction, channel iron braced for maximum rigidity. All parts cast iron or steel, none die cast.

TABLE: 24" x 24" precision ground grey iron, with 3" machined flange, removable table insert. Tilts 45° right, 15° left on new 6" wide grey-iron trunion assembly, with single hand-wheel lock and positive 90° stop.

WHEELS: Dynamically balanced cast iron, turning on lubricated-for-life ball bearings.

GUARDS: Completely enclose moving parts; counter-

balanced, telescoping upper blade guard.

BLADE ADJUSTMENT: Convenient hand-wheel adjusts blade tension. Spring mechanism absorbs shock, maintains uniform tension. Optional Chip Blower furnishes air jet to working area.

GUIDES: Fully adjustable ball bearing back guides with optional ball bearing or hardened steel side guides.

DRIVE: Infinitely variable 40 to 4600 SFM, by variable speed dial. Positive chain drive, 2-step oil-bath transmission.

How to Order STANDARD MACHINES Equipped with 3/8" blade, control switch, ready for operation.

870-01—20" Metal Cutting Band Saw with 1-HP, 3-phase motor.
870-02—20" Metal Cutting Band Saw with 1-HP, 1-phase motor.

870-03—20" Metal Cutting Band Saw with 1½-HP, 3-phase motor.
870-04—20" Metal Cutting Band Saw with 1½-HP, 1-phase motor.

How to Order OPTIONAL ACCESSORIES

870-10—Rip fence.
870-11—Flexible work lamp.
870-12—Miter gauge.
870-13—Miter slot for saw table (extra).
870-14—3-phase overload protected switch.
870-15—1-phase overload protected switch.
870-17—Magnetic Starter and push-button station for 3-phase operation.
870-18—Magnetic starter and push-button station for 1-phase operation.
870-19—Screw feed insert.
870-26—Band Saw Welder, less grinder for blades up to 3/4".
870-27—Band Saw Welder, with grinder for blades up to 3/4".
870-28—Chip Blower.
870-29—Angle feed block for hand, power or screw feed.
870-30—Screw feed attachment.
870-31—Automatic power feed.
870-32—#55 Angle guide block set (with 5 sets of jaws including 1/4", 3/16", 1/8", 1/8" and 1/8").

870-33—1/4" inserts for #55 Angle guide.
870-34—3/16" inserts for #55 Angle guide.
870-35—1/4" inserts for #55 Angle guide.
870-36—1/4" inserts for #55 Angle guide.
870-37—1/4" inserts for #55 Angle guide.
870-38—#50 Guide set (Ball bearing set includes 1/4" to 1/2" and 1/2" to 1" guides. Hardened steel set includes 1/4" to 1/2" and 1/2" to 1" guides).
870-39—1/4" to 1/2" Ball bearing inserts for #50 guide.
870-40—1/2" to 1" Ball bearing inserts for #50 guide.
870-41—1/4" to 1/2" Hardened steel inserts for #50 guide.
870-42—1/2" to 1" Hardened steel inserts for #50 guide.
870-43—3-wire, 8 ft. cord, with attachment plug.
870-44—4-wire, 8 ft. cord, with attachment plug.
870-45—Circle Cutter Unit.
870-46—JIC electricals for 1 or 3-phase.
870-47—Contour cutting attachment.
870-48—110 volt size "0" control transformer wired to push button station.
870-49—110 volt transformer for work lamp.
870-50—Transformer for operating welder.

SPECIFICATIONS

Table size 3" x 24" x 24"
Table in front of blade 11 1/2"
Table tilt 15° left—45° right
Wheel size 11 1/4" x 20"
Blade to column 19 1/2"
Maximum depth of cut under guide 12 1/2"
Maximum width blade recommended 1"
Maximum adjustment of blade 2 1/2"
Maximum length of blade 12' 7"

Minimum length of blade 12' 5"
Blade speed 40 to 4600 SFM
Motor power recommended 1 to 2-HP
Overall height 76"
Table height from floor 41 1/2"
Weight, Net 850 lbs.
Weight, Domestic Crated 950 lbs.
Weight, Export Boxed (92.3 cu. ft.) 1050 lbs.



a quick look around at

POWERMATIC



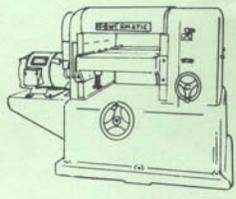
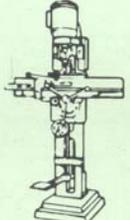
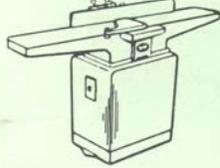
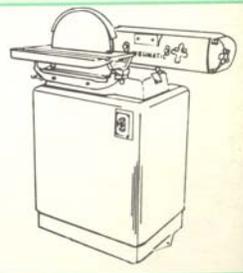
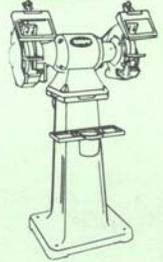
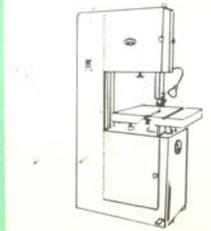
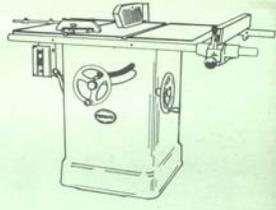
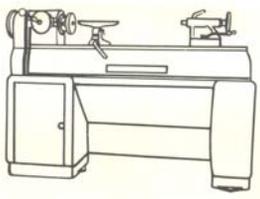
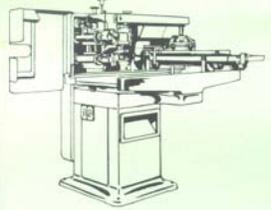
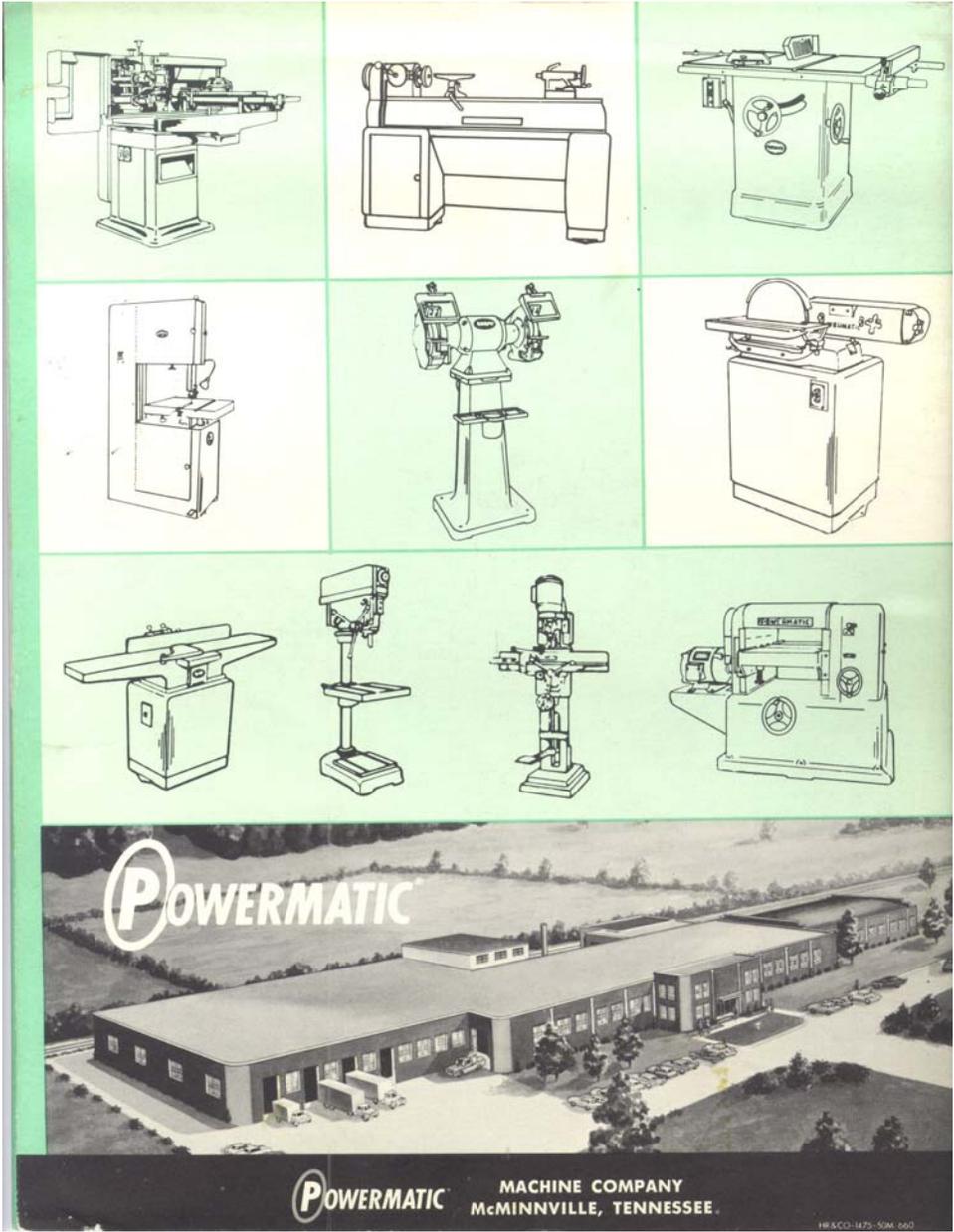
- 1 Designing Department
- 2 Automatic Grinder
- 3 Automatic Lathe
- 4 Shipping Department

- 5 Assembly Line
- 6 Testing and Inspection
- 7 Pattern Shop
- 8 Milling



POWERMATIC

MACHINE COMPANY
McMINNVILLE, TENNESSEE



POWERMATIC

MACHINE COMPANY
McMINNVILLE, TENNESSEE.

FRACCO-1475-50M-000