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WARRANTY

This machine and its component parts have been carefully inspected and performance tested at various stages of production and each finished machine is subjected to a final inspection before shipment. Powermatic Houdaille agrees that for a period of eighteen (18) months or 3000 hours of use, whichever occurs first from date of delivery from its authorized dealer to repair or replace, at its option, any machine (or component part thereof) proving defective within the above period, F.O.B. its plant, providing such machine (or component part) is returned prepaid to its plant, or to a designated service center of the undersigned, for its examination. This warranty does not include repair or replacement required because of misuse, abuse, or because of normal wear and tear. Nor does it include electrical motors and electrical components which are warranted by their manufacturer and which should be taken to their local authorized repair station. Cost of removal, shipment and reinstallation are not covered hereby. Further, Powermatic Houdaille cannot be responsible for the cost of repairs made or attempted outside of its factory or designated service center without our authorization. No claims for defects will be honored if Serial No. plate has been removed. THIS WARRANTY IS MADE EXPRESSLY IN PLACE OF ALL OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, WITH RESPECT TO FITNESS, MERCHANTABILITY, QUALITY OR OPERATIVENESS. THIS WARRANTY IS MADE ONLY TO THE ORIGINAL PURCHASER AND BECOMES EFFECTIVE ONLY WHEN THE ACCOMPANYING CARD IS FULL AND PROPERLY FILLED OUT AND RETURNED TO THE FACTORY WITHIN TEN (10) DAYS FROM DATE OF DELIVERY.

POWEROMATIC® Houdaille®

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OUTSTANDING PERFORMANCE

Exclusive New Power — designed for use with motors from 1½ to 3 HP (1.119 to 2,238 kW)! Three A-Section belts drive blade.

Precision Miter Gauge — guarantees true accuracy on even largest stock. Easily adjustable in table T-slots.

Designed for 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. Basic parts steel or cast iron.

Individual action of guard sides cover blade during any and all cutting operations.

Overarm guard (optional) with 'hide away' heavy-duty splitter.

As blade tilts, overarm guard sides form stationary cage to guard blade.

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 cast iron with tubular steel guide bars. Standard guide rails provide 25" (635.00 mm) cut to right of blade.

Wide Stanced Trunnion precision machined from heavy-duty grey iron castings. Maintains perfect alignment for easy hand-wheel worm-gear adjustment. Exclusive C-flange motor mount relieves weight at trunnion pivot.

Extra Capacity — 10" (254.00 mm) blade cuts stock up to 3¼" (79.38 mm) at 90° ranging to 2¼" (53.98 mm) cut at 45° position.

Extra Cut-off Capacity table in front of blade is full 15" (381.00 mm) at 1" (25.40 mm) cut.

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

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

NOTE: Guard removed on lower four pictures for illustration purpose only.
TABLE: Standard table with extensions measures 28" x 38" (711.20 mm x 965.20 mm), accurately machined surfaces, rigidities to hold a true surface. A 4" (101.60 mm) insert plate provides ample room for removing saw blade or blade head.

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

AIRHORN: 14½" (368.30 mm) airhorn is mounted in large coated ball bearings requiring no lubrication and is driven by three A-section belts for maximum power. Arbor lifts away from rip fence for safer operation.

SAW BLADE: 10" (254.00 mm) combination saw blade tilts 45° with 2½° (54.98 mm) cut at this position. A 4° (101.60 mm) insert plate provides ample room for removing saw blade or blade head.

FENCE: The precision machined, cast iron fence locks on front and back on two tubular guide rails assuring rigid support. Front rail is equipped with an easy-to-read, graduated scale. Fence adjustment is accomplished by means of a steel pinion operating in guide rail rack.

Saw Guard: The rigid saw guard and splitter is fitted with anti-kickback pawls. 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 arm of motor weight, making it very easy to raise and lower saw arm.

Power Requirements: The saw is designed for motors from 2 to 3 HP (1.199 to 2.236 kW) in either 3 or 1-phase. For light and medium work, 2HP (1.492 kW) is sufficient. For heavy-duty cutting, 3 HP (2.236 kW) is recommended.

Model 66 Basic Tilting Arbor Saws

1660010-10" Tilting Arbor Saw equipped with rip fence, miter gauge, 48° (1219.20 mm) guide rails, extension blade guard, combination blade guard, splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley. Less: Motor and Controls.

16603010-10" Tilting Arbor Saw equipped with rip fence, miter gauge, 72° (1828.80 mm) guide rails, cast iron extension wings for ripping 49° (1244.60 mm) to right of blade, combination blade guard, splitter with anti-kickback pawls, wrenches, belts; motor cover and motor pulley. Less: Motor and Controls.

16600010-10" Tilting Arbor Saw equipped with rip fence, miter gauge, 72° (1828.80 mm) guide rails, cast iron extension wings for ripping 49° (1244.60 mm) to right of blade, combination blade guard, splitter with anti-kickback pawls, wrenches, belts; motor cover and motor pulley. Less: Motor and Controls.

166010010-10" Tilting Arbor Saw equipped with production fence, miter gauge, cast iron extension wings to rip 2½° to right of blade, combination blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley. Less: Motor and Controls.

166070010-10" Tilting Arbor Saw equipped with production fence, miter gauge, cast iron extension wings to rip 2½° to right of blade, combination blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley. Less: Motor and Controls.

Model 66 T.A. Saws

6471720—2 HP (1.492 kW), 60 Hz, 3600 RPM (376.99 rads/sec), 115/230V, 154TC frame, TECF. Requires magnetic control.

6472228—3 HP (2.236 kW), 60 Hz, 3600 RPM (376.99 rads/sec), 230V, 145TC frame, TECF. Requires magnetic control.

6471719—2HP (1.492 kW), 60 Hz, 3600 RPM (376.99 rads/sec), 200V, TECF, 145 TC frame.

Controls for Use with Model 66 T.A. Saws

2000900—Magnetic Controls, 115/230V, for 2hp motors only.

2000950—Pushbutton Switch, 115V, 230V, (for 2hp motors only).

3000550—Magnetic Controls, 115/230V, w/24V transformer.

3000510—Magnetic Controls, 200/230V, 465V.

Optional Accessories

6070010—Motor Belts (3 required) 4L230. Wt. 8 oz. (23.2 kg) ea
6080901—Combination Saw. 9% (15.88 mm) bore. Wt. 1½ lbs (68 kg).
6080904—Hollow Ground Planer Blade. 4¼ (15.88 mm) bore. Wt. 1½ lbs (68 kg).
20002501—Production Fence.
2390695—Extension kit w/extensions, production fence and leg.
2390696—Extension kit w/extensions, production fence and leg.

Specifications

Maximum width cut-off in front of saw in 3/4" (79.38 mm) stock 12½" (311.15 mm)
Maximum width of dado cut 13/16" (20.64 mm)
Motor power requirements 1½ to 3 HP (1.199 to 2.236 kW)
Speed of saw blade 4000 RPM (418.88 rads/sec)
Table height 34" (863.60 mm)
Weight, net motor 450 lbs (204 lb)
Weight, net motor with motor 500 lbs (226.8 kg)
Production Fence face 3½" x 28" Table with Production Fence and side extensions 28" x 51"
HEAVY DUTY PRODUCTION LEADER
Independent acting saw guard leaves. 38" (965.20 mm) by 48" (1219.20 mm) table, oversize miter guage, 3 or 5 HP (2.238 kw or 3.730 kw), extra long rails, positive double lock fence, wide stance trunnion, 720 pounds (326.6 kg) of brute strength, 18 month warranty.

ADDITIONAL FEATURES

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

*Extra Capacity—12" (304.80 mm) blade cuts stock up to 4½" (114.76 mm) at 90° ranging to 2½" (73.02 mm) cut at 45° position at maximum height.

Optional Stock Stop—Used for easy repetitive cutting without binding.

Extra Cut-Off Capacity table in front of blade is full 21" (533.40 mm) at 1" (25.40 mm) cut.

Overarm guard (optional) with 'hide away' heavy duty splitter provides maximum safety.

Individual action of each guard leaf covers blade through entire tilt range. Saw Blade is never exposed to operator.

Fence Adjustment fast and sure from either side with Vernier control knob and top-reading front guide rail calibration.

Guard completely covers blade on all through cuts from narrow to full capacity.

*Shown with guard removed for illustration purposes only.
**MODEL 68 — 12" T.A. SAW STANDARD EQUIPMENT**

12" Powermatic Tilting Arbor Saw, equipped with Rip Fence, Miter Gauge, Guide Rails, Blade Guard, Splitter w/Anti-Kickback Fingers, Two Table Extension Wings, Three Motor Belts, Arbor Pulleys, Motor Cover and Combination Saw Blade. Less: Motor and Controls.

**BASIC MODEL 68 — 12" T.A. SAW**

1680010—12" Powermatic T A. Saw, with all standard equipment. Less: Motor and Controls.
1680030—12" Powermatic T A. Saw, with all standard equipment, except with 60" (2032 mm) Rails and cast iron extensions, for ripping 49" (1244.60 mm) to right of saw blade. Less: Motor and Controls.
1680050—Same as 1680010 except with overarm guard in lieu of standard.
1680060—Same as 1680030 except with overarm guard in lieu of standard.
1680070—12" Tilting Arbor Saw equipped with production fence, miter gage, cast iron extension wings to rip 32" to right of blade, blade guard and splitter with anti-kickback fingers, wrenches, belts, motor cover and motor pulley less motor and controls.
1680080—12" Tilting Arbor Saw equipped with production fence, miter gage, cast iron extension wings to rip 43" to right of blade, extension support leg, blade guard and splitter with anti-kickback fingers, wrenches, belts, motor cover and motor pulley less motor and controls.
1680090—12" Tilting Arbor Saw equipped with production fence, miter gage, cast iron extension wings to rip 36" to right of blade, overarm guard and splitter with anti-kickback fingers, wrenches, belts, motor cover and motor pulley less motor and controls.
1680100—12" Tilting Arbor Saw equipped with production fence, miter gage, cast iron extension wings to rip 45" to right of blade, overarm guard and splitter with anti-kickback fingers, wrenches, belts, motor cover and motor pulley less motor and controls.

**CONTROLS FOR USE WITH MODEL 68 T.A. SAW**

1 Phase
2998334—Magnetic Controls, 115V/220V
2298496—Magnetic Controls, 115V/230V, w/24v transformer

3 Phase
2398230—JIC Controls 200/230/460/575V
2298332—Magnetic Controls, 200/230/460/575V
2398496—Magnetic Controls, 200/230/460/575V w/24v transformer
9100003—Conduit in lieu of standard wiring

**MOTORS FOR USE WITH 12" T.A. SAW**

1 Phase
6472029—3HP (2.238 kw), 60 Hz, 3600 RPM (376.999 rad/s), 230V TEFC, 15TC frame.
6472024—3HP (2.238 kw), 60 Hz, 3600 RPM (376.999 rad/s), 200V, TEFC, 15TC frame.

3 Phase
6472025—3HP (2.238 kw), 60 Hz, 3600 RPM (376.999 rad/s), 230/460V, TEFC, 15TC frame.
6472027—5HP (3.730 kw), 60 Hz, 3600 RPM (376.999 rad/s), 230/460V, TEFC, 18TC frame.
6472037—5HP (3.730 kw), 60 Hz, 3600 RPM (376.999 rad/s), 200V, TEFC, 18TC frame.

**OPTIONAL ACCESSORIES**

2028062—Gliding table attachment.
2104031—Motor cover.
2195009—3/4" (38.90 mm) Aluminum fence. Wt. 20 lbs. (9.1 kg).
2195021—Production Fence.
2250113—Blade guard and splitter assembly. Wt. 5 lbs. (2.3 kg).
2250115—Safety-flex overarm guard. Wt. 10 lbs. (4.5 kg).
2280116—Dado insert plate. Wt. 1 lb. (0.45 kg).
2280002—Iron extensions, including rails for ripping 49" (1244.60 mm) to right of saw blade. Wt. 170 lbs. (77.1 kg).

2471005—Miter gauge. Wt. 4 lbs. (1.8 kg).
2853003—80" (2032 mm) Table rails with metal guard for ripping 49" (1244.60 mm) to right of saw blade. 62 lbs. (28.1 kg).
2750025—Fence mtg. stock stop.
6077004—Motor belts (3 required) 4L230. Wt. 8 oz. (.23 kg) each.
6080129—12" (304.80 mm) Combination saw, %" (15.88 mm) bore. Wt. 11 lbs. (6.8 kg).
6080130—12" (304.80 mm) Rip saw, %" (15.88 mm) bore. Wt. 1½ lbs. (.6 kg).
6080132—12" (304.80 mm) Hollow ground planer blade, %" (15.88 mm) bore. Wt. 1½ lbs. (.68 kg).

**SPECIFICATIONS**

Table height: 35" (888 mm)
Table size with extension wings: 38 x 48" (965.20 mm x 1219.20 mm)
Arbor diameter: %" (15.88 mm)
Saw blade diameter: 12" (304.80 mm)
Blade tilt (left only): 45°
Maximum depth of cut: 4½" (104.78 mm)
Maximum rip to right of blade with standard extensions: 30" (762.00 mm)

Maximum rip to left of blade with standard extensions, standard fence: 24" (609.60 mm)
Maximum rip to right of blade with extended fence: 50" (1270.00 mm)
Maximum width of dado: 13/16" (20.4 mm)
Cabinet size: 23½ x 25½" (606.42 mm x 644.52 mm)
Shipping weight with motor: 775 lbs. (35.15 kg)
Economy and extra capacity, coupled with rugged dependability, makes the "Performance Master" an unmatched value in its class.

**EXCLUSIVE FEATURES**—C-Flange Motor Mounting, Blade Tilt to Left, Aluminum Precision Machined Fence with Front and Rear Lock, and Greater Cut Off Capacity.

New Saw Guard Featuring Anti-kickback Pawls to provide positive work-holding. Solid Cast Iron Extension Tables (optional) for ripping 49" (1244 mm) to right side of blade, 5¼" (130.18 mm) Depth of Cut and the built-in capabilities that surpass the most rigid requirements of industry, and Vocational Technical and Trade Schools.

**ALUMINUM RIP FENCE**: Precision ground on both sides for perfect alignment with Saw Blade.

Fence alignment if necessary is easily accomplished by turning two screws. Front and rear locks provide accurate aligning and positive clamping.

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

*Extra Capacity—14" (355.60 mm) blade cuts stock up to 5¼" (130.18 mm) at 90° ranging to 3¾" (92.08 mm) cut at 45° position at maximum height.

*Extra Cut-Off Capacity table in front of blade is full 21" (533.40 mm) at 1° (25.40 mm) cut.

Overarm guard (optional) with "hide away" heavy duty splitter provides added safety.

Individual Action of each guard leaf covers blade through entire tilt range. Saw Blade is never exposed to operator.

Fence Adjustment Fast and Sure from either side with Vernier control knob and top-reading front guide rail calibrations.

Hide-away Guard completely covers blade on all through cuts from narrow to full capacity.

*Shown with guard removed for illustration purposes only.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
12"-14" T.A. SAW STANDARD EQUIPMENT


BASIC 12"-14" T.A. SAWs

1720120-12"-14" Powermatic Tilting Arbor Saw, with all standard equipment. Less: Motor, Controls and Saw Blade.
1720150-12"-14" Powermatic Tilting Arbor Saw, with all standard equipment, except with cast-iron Extensions and 80' Rails for ripping 49" right of saw blade. Less: Motor, Controls, Saw Blade.
1720160-Same as 1720120 except with overarm guard in lieu of standard.
1720170-Same as 1720150 except with overarm guard in lieu of standard.
1720180-12"-14" Tilting Arbor Saw equipped with a production fence, miter gauge, cast-iron extension wings to rip 32" right of blade, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
1720190-12"-14" Tilting Arbor Saw equipped with a production fence, miter gauge, cast-iron extension wings to rip 43" right of blade, extension support leg, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
1720200-12"-14" Tilting Arbor Saw equipped with a production fence, miter gauge, cast-iron extension wings to rip 32" right of blade, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
1720210-12"-14" Tilting Arbor Saw equipped with a production fence, miter gauge, cast-iron extension wings to rip 43" right of blade, extension support leg, overarm guard and splitter with anti-kickback pawls.

MOTORS FOR USE WITH 12"-14" T.A. SAWs

1 Phase
6472026-1HP (2.25 hp), 60 Hz, 3600 RPM (375.99 rad/s), 230v TEFC 145C frame.
3 Phase
6472307-1HP (3.73 hp), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v TEFC, 184C frame.
6472307-1HP (3.73 hp), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v TEFC, 184C frame.
6472504-71/2HP (5.595 kw), 60Hz, 3600 RPM (376.99 rad/s), 230/460v TEFC.

MOTOR RECOMMENDATIONS

1. 3.5 or 71/2HP (2.383, 3.720, 5.595 kw) for 12" (304.80 mm) T.A. Saws, 71/2HP (5.595 kw) for 14" (355.60 mm) T.A. Saws.

CONTROLS FOR USE WITH MODEL 72 T.A. SAWs

1 Phase
2398334-Magnetic Controls, 115-230v.
*2398436-Magnetic Controls, 115-230v, w/24v transformer.

*May be specified with 110v transformer.

SPECIFICATIONS

Table Height: 35" (889.00 mm)
Table size, with extension wings: 36" x 48" (965.20 mm x 1219.20 mm)
Arbor diameter: 1" (25.40 mm)
Saw Blade diameter: 12" (305.60 mm) or 14" (355.60 mm)
Blade tilt (left only): 45°
Maximum depth of cut, 12" (305.60 mm) blade: 90°
Maximum depth of cut, 14" (355.60 mm) blade: 90°
(14" (355.60 mm) blade is 90° at bottom of stroke) above table top at highest position.

Maximum rip to right of blade, with standard extensions: 30' (762.00 mm)
Maximum rip to left of blade, with standard extensions: 24' (609.60 mm)
Maximum rip to right of blade, with long extensions: 50' (1270.00 mm)
Maximum width of cut-off, 1" (25.40 mm) stock: 21" (533.40 mm)
Maximum width of cut-off, 1 1/4" (31.75 mm) stock: 17" (431.80 mm)
Maximum width of dado: 1" (25.40 mm)
Cabinet size: 26" x 30" (660.40 mm x 762.00 mm)
Shipping wt., with motor: 920 lbs (417.3 kg)

OPTIONAL ACCESSORIES

2028082-Gliding table attachment.
2010406-Motor cover, Wt. 9 lbs. (4.1 kg).
2250194-Blade Guard and Splitter Assembly, Wt. 5 lbs. (2.3 kg).
2250115-Safety-Flex Overarm Guard Assembly, Wt. 10 lbs. (4.5 kg).
2328018-Stop Insert, with leveling screws, Wt. 1 lb. (454 g).
2328019-Stop Insert, with leveling screws, Wt. 1 lb. (454 g).
2389020-Cast Iron Extensions with 80' Rails, for ripping 49" (1244.60 mm) to right of blade. Wt. 340 lbs. (154.2 kg) (std. fence).
2417005-Miter Gauge, Wt. 4 lbs. (1.8 kg).
2665003-Table Rails with mating hardware, for ripping 49" (1244.60 mm) to right of saw blade. (std. fence).
2670003-Stop Rods for Miter Gauge, Wt. 1 lb. (454 g).

6077047-Motor Belts (4 required) 3V-250 WT. 8 oz. (22 kg).
6080048-12" (304.80 mm) Combination Saw Blade, 1" (25.40 mm) bore. Wt. 1¾ lbs. (8 kg).
6080503-12" (304.80 mm) Ripping Blade.
6080501-12" Hollow Ground Planer Blade 1" (25.40 mm) bore. Wt. 1½ lbs. (0.7 kg).
6080119-14" (355.60 mm) Combination Saw Blade, 1" (25.40 mm) bore. Wt. 2¼ lbs. (1.0 kg).
6080112-14" (355.60 mm) Hollow Ground Planer Saw Blade, 1" (25.40 mm) bore. Wt. 2¾ lbs. (1.2 kg).
2195021-Production Fence.
2761025-Fence w/stock stop.
SOLID CAST IRON EXTENSIONS: (Optional) Provide unequalled accuracy for precision cutting of wide panels,—up to 49” (1244.60 mm) to the right of saw blade. NOT grillwork or wood extensions, but cast iron, the same type construction as the table top.

ADDED SAFETY: Blade tilts to left, away from Rip Fence, eliminates binding of material between blade and fence, thus helping to prevent “kickback” tendencies.

On miter cuts, simply move the gauge to the right hand T-slot to obtain maximum safety.

NOTE: Guard removed for illustration purposes only.

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
Scoring
The first American made saw to feature scoring—minimizes panel chipping.

Production fence—
Precision ripping is assured with this rigid, and accurately adjusted rack and pinion fence.

Standard fence—
Fence Adjustment Fast and Sure from either side with Vernier control knob and topreading front guide rail calibrations.

Miter gauge—
*Miter Cut Accuracy—mits gauge adjusts easily, extends beyond table for wide stock.

GUARD
Guard hold down—a unique spring loaded hold down prevents panel lift by the blade during scoring operations.

Extra Capacity
Overarm guard (optional) with hide away heavy duty splitter provides added safety.
1740010—12'-14' Scoring Tilting Arbor Saw equipped with a rip fence, miter gauge, cast iron extensions, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740020—12'-14' Scoring Tilting Arbor Saw equipped with a rip fence, miter gauge, cast iron extensions for ripping 50° to right of blade, extension support leg, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740030—12'-14' Scoring Tilting Arbor Saw equipped with a rip fence, miter gauge, cast iron extensions, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740040—12'-14' Scoring Tilting Arbor Saw equipped with a rip fence, miter gauge, cast iron extensions for ripping 50° to right of blade, extension support leg, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740050—12'-14' Scoring Tilting Arbor Saw equipped with a production fence, miter gauge, cast iron extensions for ripping 32° to right of blade, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740060—12'-14' Scoring Tilting Arbor Saw equipped with a production fence, miter gauge, cast iron extensions for ripping 32° to right of blade, extension support leg, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740070—12'-14' Scoring Tilting Arbor Saw equipped with a production fence, miter gauge, cast iron extensions to rip 43° to right of blade, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740080—12'-14' Scoring Tilting Arbor Saw equipped with a production fence, miter gauge, cast iron extensions to rip 43° to right of blade, extension leg support, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motors and controls.

1740100—12'-14' Scoring T.A. Saw equipped with rip fence, miter gauge, R.H. cast iron extension, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and pulley and gliding table attachment less left hand extension, motor and controls.

1740110—12'-14' Scoring T.A. Saw equipped with rip fence, miter gauge, long cast iron R.H. extensions, rails, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and pulley and gliding table attachment less left hand extension, motor, and controls.

1740120—12'-14' Scoring T.A. Saw equipped with production fence, miter gauge, R.H. cast iron extension, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and pulley, and gliding table attachment less left hand extension, pulleys, motor and controls.

1740130—12'-14' Scoring T.A. Saw equipped with production fence, miter gauge, long R.H. cast iron extensions, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and pulley, and gliding attachment less left hand extension, rails, motor, and controls.

**MOTORS**

<table>
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<th>1 Phase</th>
<th>3 HP (2.38 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v TECF, 14TC frame.</th>
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<td>3 Phase</td>
<td>3.5 or 7½ HP (2.38, 3.720, 5.595 kw) for 12' (304.80 mm) T.A. Saws 7½ HP (5.595 kw) for 14' (355.60 mm) T.A. Saws</td>
</tr>
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**CONTROLS**

<table>
<thead>
<tr>
<th>1 PH (230 Volts only)</th>
<th>Magnetic controls 230V</th>
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<tr>
<td>2398535</td>
<td>Magnetic Controls 200/230/460/575V</td>
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<tr>
<td>*2398537</td>
<td>Magnetic Controls 200/230/460/with 24V transformer</td>
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</table>

*May Be Specified With 110V Transformer

**Note: Scoring Motor Included With Magnetic Controls**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Table Height</th>
<th>35° (889.00 mm)</th>
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</thead>
<tbody>
<tr>
<td>Table size std. extensions</td>
<td>38 x 48 (965.2 mm x 1219.2 mm)</td>
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<tr>
<td>Table size long extensions</td>
<td>38 x 73 (965.2 mm x 1859.2 mm)</td>
</tr>
<tr>
<td>Arbor Diameter</td>
<td>1&quot; (25.4 mm)</td>
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<tr>
<td>Saw Blade diameter</td>
<td>12&quot; (304.8 mm) or 14&quot; (355.6 mm)</td>
</tr>
<tr>
<td>Blade Tilt (left only)</td>
<td>45°</td>
</tr>
<tr>
<td>Max depth of cut 12&quot; (304.8 mm) blade 90°</td>
<td>4 1/8&quot; (104.78 mm)</td>
</tr>
<tr>
<td>Max depth of cut 14&quot; (355.6 mm) blade 90°</td>
<td>5 1/8&quot; (130.18 mm)</td>
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<tr>
<td>14&quot; (355.6 mm) blade is 5/8&quot; (15.88 mm) Above the table at lowest position</td>
<td></td>
</tr>
<tr>
<td>Standard fence surface</td>
<td>3 1/4&quot; (82.55 mm) x 43 7/8&quot; (1114.42 mm)</td>
</tr>
<tr>
<td>Max rip cut to right of blade std. fence and extensions</td>
<td>30&quot; (762 mm)</td>
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<tr>
<td>Max rip cut to right of blade std. fence and extensions</td>
<td>50&quot; (1270 mm)</td>
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<tr>
<td>Max width of cutoff 1&quot; (25.4 mm) stock</td>
<td>21&quot; (533.4 mm)</td>
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<tr>
<td>Max width of cutoff 5 1/8&quot; (130.18 mm) stock</td>
<td>17&quot; (431.8 mm)</td>
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<tr>
<td>Max width of dado</td>
<td>1&quot; (25.4 mm)</td>
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<tr>
<td>Shipping wt. with motors and controls std. machine</td>
<td>1000 lb (451 kg)</td>
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<tr>
<td>Shipping wt. with Pan Handle, motor and controls</td>
<td>1500 lb (676.5 kg)</td>
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<tr>
<td>Production fence travel</td>
<td>3 1/2&quot; (88.9 mm) x 28&quot; (711.2 mm)</td>
</tr>
<tr>
<td>Production fence travel</td>
<td>8&quot; (203.2 mm)</td>
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</tbody>
</table>
OPTIONAL ACCESSORIES

2028082—Gliding table attachment
2104016—Motor cover
2195009—Std. fence wt. 25 lbs (11.3 kg)
2250113—Blade guard and splitter assembly (wt. 5 lbs) (7.3 kg)
2250115—Safety-flex overarm guard assembly wt. 10 lbs (4.5 kg)
2328022—Dado insert with leveling screws 1 1/4 lb (.57 kg)
2328021—Std. insert with leveling screws 1 3/4 lb (.79 kg)
2389002—Cast iron extensions with 80" (2032 mm)
2195021—Production fence
2761025—Fence mtg. stock stop
6080120—14" (335.6 mm) Flat Ground Cutoff Saw blade 1" (25.4 mm) bore wt. 2 1/4 lbs (1.0 kg)
6080122—14" (335.6 mm) Hollow Ground Planer Saw Blade 1" (25.4 mm) bore wt. 2 1/4 lbs (1.0 kg)
6080138—12" (305 mm) 72T Combination Carbide Tipped Saw Blade 1" (25.4 mm) bore .118 (3 mm) kerf
6080139—3 15/16 diameter (100 mm) 20T Adjusting Carbide Tipped Scoring Blade 7/8 approximate bore (22 mm) kerf width .102 (2.6 mm) to 142 (3.6 mm)
2653003—80' Table Rails with mating hardware for ripping 50’ (1270 mm) to right of saw blade
2670003—Stop rods for miter gage
6077047—Main motor belt (4 reg.) 3V-250 wt. 8 oz (.22 kg)
6077165—Scoring motor belt, 7M950 wt. 2 oz.
6080048—12" (304.8 mm) Combination Blade 1" (25.4 mm) bore wt. 1 3/4 lb (.8 kg)
6080119—14" (335.6 mm) Combination Blade 1" (25.4 mm) bore wt. 2 1/4 lb (1.0 kg)

Solid cast iron extensions: (Optional) Provide unequaled accuracy for precision cutting of wide panels,—up to 49" (1244.60 mm) to the right of saw blade. NOT grillwork or wood extensions, but cast iron, the same type construction as the table top.

Production fence—Precision ripping is assured with this rigid, and accurately adjusted rack and pinion fence.

Overarm guard (optional) with hide away heavy duty splitter provides added safety.

BLADES

CARBIDE SCORING
6080109

CARBIDE MAIN
6080138
AND NOW. . .

Powermatic®’s answer to ordering your Gliding Table Attachment

The new Gliding Table Attachment is designed to provide outstanding versatility for woodworking operations. Attachment fits new and old saws alike. Standard equipment includes: cast iron table, miter/cross cut fence with adjustable clamp and stock stop, 3” dia. (76.2 mm) guide rail, supporting legs, articulating arm and all necessary mounting hardware.

**FEATURES**

**GUIDE RAIL:** The large 3” (76.2 mm) diameter x 87” (2209.8 mm) guide rail is supported by legs at front and rear providing extra rigidity for added stability when cutting large panels.

**GUIDE RAIL MOUNTS:** Heavy cast iron guide rail mounts position guide rail 12½” (314.3 mm) to the left of the main table adding rigidity by centrally supporting the slide table. Precision machined mounts automatically align rail to miter slot. Rail extension provides convenient operator access to saw.

**TABLE GUIDE:** Includes six (6) preloaded bearings assuring smooth operation and ‘glide-in’ accuracy.

**SET UP:** Assembly & alignment are relatively quick and easy.

**FENCE:** The extruded aluminum fence permits one or more clamps to be positioned along the entire length of the fence. Fence is fully adjustable 45° left or right, and may be face mounted for 90° cross-cutting.

**FENCE SCALE** is graduated in one degree increments for accurate cross-cut and miter operations.
TABLE CARRIAGE LOCK permits the sliding table to be used as a conventional table extension when performing any standard operation.

CUT-OFF & MITER CAPACITY: The long guide rail permits cut-off and 45° miter cuts on 48” wide panels.

UNIVERSAL MOUNTING: The Gliding Table Attachment is designed for right or left hand mounting. It may be easily retrofitted to similar saws manufactured by others.

STOCK STOP is included as standard equipment for repetitive cutoff operations.

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Gliding Table Attachment</th>
<th>#66</th>
<th>#68, 72 &amp; 74</th>
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</thead>
<tbody>
<tr>
<td>Rail diameter</td>
<td>3”  (76.2 mm)</td>
<td>3”  (76.2 mm)</td>
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<tr>
<td>Rail Length</td>
<td>87” (2209.8 mm)</td>
<td>87” (2209.9 mm)</td>
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<tr>
<td>Sliding Table (Cast iron)</td>
<td>16” x 29 7/8” x 1 3/8” (406.4 x 758.8 x 34.9 mm)</td>
<td>16” x 29 7/8” x 1 3/8” (406.4 x 758.8 x 34.9 mm)</td>
</tr>
<tr>
<td>Fence</td>
<td>1 3/4” x 0.1/2” x 42” (44.4 x 63.5 x 1068.8 mm)</td>
<td>1 3/4” x 2 1/2” x 42” (44.4 x 63.5 x 1066.8 mm)</td>
</tr>
<tr>
<td>Table Travel</td>
<td>70 3/4” (1797 mm)</td>
<td>70 3/4” (1797 mm)</td>
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<tr>
<td>Fence position</td>
<td>45° (either direction)</td>
<td>45° (either direction)</td>
</tr>
<tr>
<td>Scale graduations</td>
<td>1” increments</td>
<td>1” increments</td>
</tr>
<tr>
<td>Stock clamp capacity</td>
<td>3 1/8” (79.4 mm)</td>
<td>5 1/8” (79.4 mm)</td>
</tr>
<tr>
<td>Edge of table to rail</td>
<td>12 3/8” (314.3 mm)</td>
<td>12 3/8” (314.3 mm)</td>
</tr>
<tr>
<td>Stock support (optional accessory)</td>
<td>1/2” x 11/2” x 24”</td>
<td>1/2” x 1 1/2” x 24”</td>
</tr>
<tr>
<td>Maximum width of cutoff</td>
<td>57” (1447.6 mm) (w/10” blade)</td>
<td>54” (1447.8 mm) (w/12” blade)</td>
</tr>
<tr>
<td>Maximum width miter (45°)</td>
<td>72” (1828.8 mm) (3/4” thickness, w/10” blade)</td>
<td>72” (1828.8 mm) (3/4” thickness, w/12” blade)</td>
</tr>
</tbody>
</table>

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**HOW TO ORDER**

**COMPLETE SAWS WITH GLIDING TABLE ATTACHMENT**

(less Motor & Controls)*

- 1660710* 66 T.A. Saw, 10” with std. guard, std. cast iron ext., 48” rails & Gliding Table Attachment.
- 1660720* 66 T.A. Saw, 10” with std. guard, 49” cast iron ext., 72” rails & Gliding Table Attachment.
- 1660730* 66 T.A. Saw, 10” with std. guard, prod. fence, 55” table & Gliding Table Attachment.
- 1660740* 66 T.A. Saw, 10” with std. guard, prod. fence, 35” table & Gliding Table Attachment.
- 1680120* 68 T.A. Saw, 12” with std. guard, std. cast iron ext., 64” rails & Gliding Table Attachment.
- 1680130* 68 T.A. Saw, 12” with std. guard, 49” cast iron ext., 80” rails & Gliding Table Attachment.
- 1680140* 68 T.A. Saw, 12” with std. guard, prod. fence, 51” table & Gliding Table Attachment.
- 1680150* 68 T.A. Saw, 12” with std. guard, prod. fence, 62” table & Gliding Table Attachment.
- 1720230* 72 T.A. Saw, 12”-14” with std. guard, std. cast iron ext., 64” rails & Gliding Table Attachment.
- 1720240* 72 T.A. Saw, 12”-14” with std. guard, 49” cast iron ext., 80” rails & Gliding Table Attachment.
- 1720250* 72 T.A. Saw, 12”-14” with std. guard, prod. fence, 51” table & Gliding Table Attachment.
- 1720260* 72 T.A. Saw, 12”-14” with std. guard, prod. fence, 62” table & Gliding Table Attachment.
- 1740100 74 T.A. Saw, scoring, 48” table, std. guard, 64” rails & Gliding Table Attachment.
- 1740110 74 T.A. Saw, scoring, 49” cast iron ext., std. guard, 80” rails & Gliding Table Attachment.
- 1740120 74 T.A. Saw, scoring, 51” table, std. guard, prod. fence & Gliding Table Attachment.
- 1740130 74 T.A. Saw, scoring, 62” table, std. guard, prod. fence & Gliding Table Attachment.

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**RETOFIT KITS**

- 2028081 Gliding Table Attachment for model 66 T.A. Saw
- 2028082 Gliding Table Attachment for models 68, 72 and 74 T.A. Saws

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**OPTIONAL ACCESSORIES**

- 2092010 Stock clamp (For 66 T.A. Saw)
- 2092011 Large stock clamp (For 66, 68, 72, 74 T.A. Saws)
- 2040036 Adjustable stock support assembly
- 2398543** Remote pushbutton station

*See catalog for motors and controls.
**Standard with factory installed magnetically controlled saws. List as a line item.
Powermatic Safety Flex... a guard so unique it need never be removed from the machine. Guard leaves swing independent of each other such that on uneven or close-to-fence ripping the blade is well guarded. A see-through top enables the operator to follow prescribed lines accurately. A heavy-duty splitter, with anti-kickback pawls, swings easily out of the way for dado, rabbeting and moulding operations. This guard is easily installed on any Powermatic Tilting Arbor Saw Model.

SAFETY GUARD LISTINGS

2250115—Safety Flex Guard complete with splitter and anti-kickback pawls for Model 66, 72 & 74 Saws.
2250117—Safety Flex Guard complete with splitter and anti-kickback pawls for Model 66 Saw.
2250120—Safety Flex Guard complete with splitter and anti-kickback pawls for Model 62 Saw.

TILTING ARBOR SAW ACCESSORIES

HOLLOW GROUND PLANER BLADE
#6080044 for #66 Saw
#6080051 for #72 Saw
#6080132 for #68 Saw

#60 COMBINATION BLADE
#6080041 for #66 Saw
#6080048 for #72 Saw
#6080129 for #68 Saw

RIPSAW BLADE
#6080043 for #66 Saw
#6080050 for #72 Saw
#6080130 for #68 Saw

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

WARRANTY

(SEE INSIDE FRONT COVER CATALOG DE)
CHOICE OF VARIABLE-SPEED OR FOUR-SPEED MODELS!

Another pace setting achievement of Powermatic® engineering. The Model 95 SCROLL SAW is unsurpassed in quality, features, and all around ruggedness. Designed and produced by popular demand, this 24” (609.60 mm) unit is ideally suited to cabinet, school and pattern shops. Use it as a jig saw, saber saw or filing machine . . . and get more value, more use, and greater accuracy at less cost. Constructed of cast iron and steel, the Model 95 — 24” (609.60 mm) Scroll Saw is engineered to minimize distortion.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES

FRAME: Rugged two-piece cast iron base and over-arm, precision machined and distortion free. Over-arm removable for use as saber saw.

GUARD: Pressed steel belt guard completely houses drive belt.

DRIVES AVAILABLE: Four speed, Step pulley drive, or Variable Speed for infinitely variable speeds.

TABLE: Massive 14" x 15" (355.60 mm x 381.00 mm) table of finest cross ribbed grey iron castings, machine-ground to precision tolerance. Table tilts 45° right, 15° left for normal cutting and turns 90° for ripping & saber blade use.

BLOWER: Standard equipped with chip blower which directs a steady stream of air to cutting area, keeping work free of sawdust.

CRANKSHAFT: Ball bearing crankshaft is automatically lubricated by splash system in oil tight crankcase.

TRUNNION: A heavy duty double trunnion guarantees absolute rigidity and positive lock in all positions.

HEAD: A special cast aluminum head assures long life and trouble free operation.

SPRING: A heavy tension spring over the saw blade is adjustable to blade type and type of cut.

STANDARD EQUIPMENT

SCROLL SAW: (variable or 4-speed) Pulleys, belt, belt guard, chipblower, 4-way table, saber blade, 3 scroll saw blades and set of wrenches—Less motor, controls and stand.

MODEL 95 BASIC MACHINES

1950030—24" Scroll Saw with standard equipment, 4-speed. Less Motor, Controls and Stand.

1950070—24" Scroll Saw with standard equipment for variable speed. Less: Motor, Controls and Stand.

MOTORS FOR USE WITH MODEL 95 SCROLL SAW

1 Phase
6470203 — 1/2 HP (249 kw), 50 Hz, 1800 RPM (188.5 rad/s), 115/230v, TEFC, 56 frame.

3 Phase
6470206 — 1/2 HP (249 kw), 60 Hz, 1800 RPM (188.5 rad/s), 200v, TEFC, 56 Frame
6470215 — 1/2 HP (249 kw), 60 Hz, 1800 RPM (188.5 rad/s), 230/460v, TEFC, 56 Frame

3 Phase
2398213—Pushbutton Switch, 200/230/460/575v.
2398215—Magnetic Controls, 200/230/460/575v, w/24v transformer.
2398230—JIC Controls, 200/230/460/575v. (For wall mount only).
2398484—Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100003—Conduit in lieu of standard wiring.

CONTROLS FOR USE WITH MODEL 95 SCROLL SAW

1 Phase
2398214 — Pushbutton Switch, 115/230v.
2398378 — Magnetic Controls, 115/230v.
2398490 — Magnetic Controls, 115/230v, w/24v transformer.

OPTIONAL ACCESSORIES

2085002 — Lower Blade Chuck Assembly. Wt. 1 lb. (45 kg).
2085003 — Upper Blade Chuck Assembly. Wt. 1 lb. (45 kg).
2253041 — Saber Blade Guide. Wt. 4 ozs. (1.1 kg).
2404001 — Variable Speed Assembly Kit. Wt. 3 lbs. (1.36 kg)
2540007 — Upper Blade Tension Assembly. Wt. 1 lb. (45 kg)

2759014—Stand. Wt. 41 lbs. (18.6 kg)
3250050—Belt Guard. Wt. 3 lbs. (1.36 kg)
6077011 — V Belt, Variable Drive, 4L350. Wt 8 oz. (23 kg)
6077013 — V Belt, 4-speed Drive, 4L370. Wt. 8 oz. (23 kg)
6448005 — Work Lamp. Wt. 10 oz. (28 kg)

SPECIFICATIONS

Capacity, Arm to Saw .......................... 24" (609.60 mm)
Thickness of cut .................................. 1/4" (44.45 mm)
Table size ..................................... 14" x 15" (355.60 mm x 381.00 mm)
Table tilt ........................................ 45° R., 15° L. 49° Front
Table from floor .................................. 42½" (1073.15 mm)
Overall Height ................................. 54½" (1384.30 mm)
Width .............................................. 14" (355.60 mm)
Length ............................................. 36" (914.40 mm)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
## BLADE SELECTION CHART

<table>
<thead>
<tr>
<th>STOCK NO.</th>
<th>MATERIAL TO CUT</th>
<th>TYPE OF BLADE</th>
<th>THICKNESS INCHES</th>
<th>WIDTH INCHES</th>
<th>TEETH PER INCH</th>
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<tbody>
<tr>
<td>6080068</td>
<td>Steel, Iron, Lead, Copper, Aluminum, Pewter, Asbestos, Paper and Felt.</td>
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<td>.070</td>
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<td>Jig</td>
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<td>6080065</td>
<td>Steel, Iron, Lead, Copper, Brass, Aluminum, Pewter, Asbestos and Wood.</td>
<td>Jewelers</td>
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<td>Jig</td>
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<td>6080069</td>
<td>Asbestos, Brake Lining, Mica, Steel, Iron, Lead, Copper, Brass, Aluminum and Pewter.</td>
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<td>Saber</td>
<td>.028</td>
<td>.250</td>
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<td>.250</td>
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<td>15</td>
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</tbody>
</table>

## WARRANTY

(SEE INSIDE FRONT COVER CATALOG DE)
Designed to produce high quality work for furniture, cabinet, reproduction and sash and door plants, the Model 26 Spindle Shaper is a rugged, dependable, multi-purpose tool constructed to accommodate four interchangeable spindles and a 1" (25.40 mm) solid spindle for extra heavy duty work. The shaper spindle features a 3" (76.20 mm) vertical adjustment controlled by a convenient front mounted hand wheel. A large 28" x 29½" (711.20 mm x 749.30 mm) precision ground, cast iron table is mounted on an enclosed steel stand.

*Shown without standard ring guard and hold downs.

**PRECISION FENCE** — Fully adjustable or removable for any and all shaping operations, this precision machined fence assembly guarantees rigidity, accuracy and ease of adjustment.

**SAFETY RING GUARD**—standard ring guard covers top of spindle and cutter for free-hand shaper safety.
Part No. 2250155

**QUILLS** — are quickly removed and interchanged by loosening one locking bolt and sliding complete assembly from housing, reducing "set up" time to an absolute minimum.

**HOLDDOWN GUIDES**—standard steel work holddown guides eliminate hazardous free hand feeding of stock and assure smooth, accurate form cutting.
Part No. 2253616

**OPTIONAL SHAPE MAKER**—Do repetitive work quickly and easily. Ideal for production of plaques, table tops, chair bottoms, etc.

**STARTING PIN** — A standard accessory, starting pins facilitate easy initial cuts on free-hand shaping. Part No. 3585014.

**ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT**
FEATURES

TABLE: 26" x 29½" (711.20 mm x 749.30 mm) (including one extension wing) is made from grey iron castings. Rib reinforced for maximum rigidity. Removable 3", 4 3/16" & 7" (76.20 mm, 106.36 mm & 177.80 mm) inserts make possible the use of any cutter the safe way, undercutting. This feature is especially desirable for Raised Panel Cuts.

BASE: Table is supported by a heavy gauge steel cabinet with clean-out door.

FENCE: The cast iron fence is precision machined and faced with hardwood blocks. Fence may be easily adjusted to any position on table by locking handles, or removed for free-hand shaping. The fences are mounted on a box-type center support that serves as a shavings exhaust chute.

SPINDLE: Mounted in heavy duty precision ball bearings. Spindles available include interchangeable 5/16" (7.94 mm), 1/2" (12.70 mm) 1/2" (12.70 mm) Stub and 3/4" (19.05 mm). 1" (25.40 mm) Extra long solid.

SPINDLE SPEED: The spindle is driven by a two-speed "V" pulley, for spindle speeds of 7000 & 10,000 RPM (730 rad/s & 1047 rad/s), the correct speeds for both large and small cutters.

STANDARD EQUIPMENT

MODEL 26 SHAPER: Fence, dust chute, 1/2" (12.70 mm) and 3/4" (19.05 mm) interchangeable spindles, 3 table inserts, wrenches, motor cover, arbor pulley, motor pulley and belt, safety ring guard and work hold-down guides. Less: Motor and Controls.

1260010 — Model 26 Spindle Shaper, with all standard equipment. Less: Motor and Controls.

1260030 — Model 26 Spindle Shaper, with all standard equipment except with 1" (25.40 mm) solid spindle in lieu of 1/2" and 3/4" interchangeable spindles. Less: Motor and Controls.

BASIC MACHINES

1 Phase
6471100 — 1 HP (746 kW), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, TEFC, 56 frame.
6471400 — 1 1/2 HP (1119 kW), 60 Hz, 3600 RPM (376.99 radians), 115/230 V, TEFC, 56 frame.
6471707 — 2 HP (1492 kW), 60 Hz, 3600 RPM (376.99 rad/3), 115/230 V, TEFC, 145T frame.

3 Phase
6471118 — 1 HP (746 kW), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 56 frame.
6471412 — 1 1/2 HP (1119 kW), 60 Hz, 3600 RPM (376.99 radians), 200V, TEFC, 56 frame.
6471706 — 2 HP (1492 kW), 60 Hz, 3600 RPM (376.99 rad/3), 200/460V, TEFC, 145T frame.
6471717 — 2 HP (1492 kW), 60 Hz, 3600 RPM (376.99 rad/3), 200V, TEFC, 145 T frame.

OPTIMAL ACCESSORIES

2024013 — 1 1/2" (12.70 mm) Solid Spindle. Wt. 4 lbs (1.8 kg).
2028077 — Shape Maker Attachment Pre-1979 (Clockwise Rotation).
2028076 — Shape Maker Attachment Pre-1979 (Counter Clockwise Rotation).
2028079 — Shape Maker Attachment (Clockwise Rotation).
2028080 — Shape Maker Attachment (Counter Clockwise Rotation).
2250155 — Safety Ring Guard, Wt. 8 lbs. (3.6 kg). (Std. Equip.).
2253016 — Work Hold-down Guides. Wt. 5 lbs (2.3 kg). (Std. Equip.).
2471010 — Miter Gauge. Wt. 5 lbs (1.8 kg).
2749906 — 5/16" (7.94 mm) Interchangeable Spindle. 1 1/2" (29.58 mm) under nut. Wt. 1 lb. (.45 kg).
2749040 — 3/4" (19.05 mm) Solid Spindle and Quill Assembly. 3/4" (19.05 mm) under nut. Wt. 8 lbs. (3.6 kg).
2749038 — 1" (25.40 mm) Solid Spindle and Quill Assembly. 1" (25.40 mm) under nut. Wt. 12 lbs. (5.4 kg).
2749003 — 1 1/2" (12.70 mm) Interchangeable Spindle. 2 1/2" (57.15 mm) under nut. Wt. 1 lb. (.45 kg).
2749004 — 1 1/2" (12.70 mm) Interchangeable Spindle. 2" (50.81 mm) under nut. Wt. 6 oz. (.23 kg).
3166008 — 8" x 28" (203.2 mm x 711.20 mm). Table Extension for use without fences. Wt. 28 lbs (12.7 kg).
3558014 — Starting Pins. Wt. 6 oz (.17 kg).

SPECIFICATIONS

Table size ........................................... 28" x 29½" (711.20 mm x 749.30 mm) Table extensions ........................................... 200 (203.20 mm)
Table height ........................................... 34" (863.60 mm)
Spindle opening diameters 1/16" (1.59 mm), 1/4" (6.35 mm), 1/2" (12.70 mm), 3/8" (9.52 mm), 1/2" (12.70 mm), 5/8" (15.87 mm), 1" (25.40 mm)
Other spindles available 3/8" (9.52 mm) and 1 1/2" (12.70 mm)
Spindle type ........................................... Motor, domestic crated, with 2 HP (1492 kW)
Spindle capacity ........................................... 1" (25.40 mm) (under nut solid) 4" (101.60 mm) 1/2" (12.70 mm) (under nut) 1 1/2" (38.10 mm)
Spindle speed (RPM) .................................. 7,000 RPM & 10,000 RPM
Largest table opening .................................. 7-3/4" x 20-1/2" (196.85 mm x 520.60 mm)
Fence size (each side) .................................. 24" (610 mm) x 12" (304.80 mm)
Weight exported, with motor (32.2 cu. ft.) (911.8 mm) 550 lbs. (249.4 kg)

Powermatic® Shaper Cutters are select, high-quality, tool-steel, heat treated and carefully ground to retain their sharp cutting edges under long continuous service. Resharpening is easily done by grinding across face of cutting edges.

Warranty
(SEE INSIDE FRONT COVER CATALOG DE)
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 costs makes the Model 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.

Angle-set high speed tenon knives reduce chipping.

Save production time! Optional combination check rail cutters perform with tenons in a single stock feed.

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

Spur-cutters cut ahead of tenon knives preventing burned or ragged shoulders.

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

Cope heads or check rail cutters screw on threaded cope spindles and seal against machined shoulder to insure perfect alignment.

Check rail cutter or cope head stiles are easily interchanged.

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

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

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES

TENON HEADS: Round type, 3¼” (95.25 mm) in diameter. Both tenon heads may be vertically adjusted. Top tenon head has horizontal adjustment for minor alignment adjustment. Both heads can be instantly vertically adjusted as a unit to cut an identical tenon when changeover to stock of different thickness is made.

TENON HEAD SPINDLES: 1 3/16” (30.16 mm) in diameter. Mounted in sealed ball bearings.

TENON HEAD MOTOR: 2 HP (1.492 kw), 3600 RPM (376.99 rad/s) motor mounted in base powers tenon heads through two double section V-belts.

COPES: (Optional) Equipped with dual tool steel knives. Heads may be independently adjusted vertically and horizontally.

COPE HEAD SPINDLES: 3/4” (19.05 mm) in diameter and mounted in in sealed ball bearings. Spindle ends are threaded to accommodate solid steel cutters (for use of combination, check rail slots, or any style pattern cutters).

COPE MOTOR: (Optional) 1 HP Double Shaft (.746 kw), 3600 RPM (376.99 rad/s), motor powers cope spindles through V-belt drive.

CUT-OFF SAW: Blade 7” (177.80 mm) in diameter, mounted on shaft equipped with sealed ball bearings. Driven at 5000 RPM (523.60 rad/s) 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 accurately on precision-ground combination vee and flat ways assuring perfect alignment with all cutters.

CONTROLS: Both motors have separate controls for individual operation of tenon or cope heads.

CAPACITY: 3” (76.20 mm) with tenon and cope heads fully open. Maximum tenon 3” (76.20 mm) thick, 3” (76.20 mm) long, 13” (330.20 mm) wide.

STANDARD EQUIPMENT


BASIC MACHINES

1280010 — Model 2-A Single Tenoner, less COPES, with all standard equipment. Less: Motor and Controls.

1280030 — Model 2-A Single Tenoner, with COPES, with all standard equipment. Less: Motor and Controls.

NOTE: TENONERS ARE NOT SOLD WITHOUT MOTORS!

MOTORS FOR USE WITH MODEL 2-A TENONER

1 Phase, Tenoner Motor
6471707 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 145T frame.

3 Phase, Tenoner Motor
6471706 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC 145T frame.

CONTROLS FOR USE WITH MODEL 2-A TENONER

1 Phase
2968340 — Magnetic Controls. 115/230v.

2968381 — Pushbutton Switch, 115/230v.

2968489 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase

OPTIONAL ACCESSORIES

3109001 — Spur Cutter, Wt. 8 oz (23 kg). (4 Required)
3277001 — Cope Head, less knives, upper. Wt. 4 lbs (1.8 kg).
3277002 — Cope Head, less knives, gibbs and screws lower. Wt. 4 lbs (1.8 kg).
3277006 — Tenon Head, less knives, gibbs and screws upper. Wt. 15 lbs (6.8 kg).
3277007 — Tenon Head, less knives, gibbs and screws lower. Wt. 15 lbs (6.8 kg).

SPECIFICATIONS

Tenon Heads……………………………………..3” x 3¼” (76.20 mm x 95.25 mm)

Tenon Spindles…………………………………11/16” (30.16 mm) dia.

Cope Spindles…………………………………3¼” (19.05 mm)

Cutoff saw………………………………………7” (177.80 mm) dia.

Maximum Tenon cut……………………….3” (76.20 mm) thick, 3” (76.20 mm) long, 13” (330.20 mm) wide

Motors:

Tenon Head……………………………………2 HP (1.492 kw) 3600 RPM (376.99 rad/s)

Cope Head……………………………………1 HP (.746 kw) 3600 RPM (376.99 rad/s)

Cope Heads……………………………………3600 RPM (523.60 rad/s)

Speed of cutoff saw…………………………5000 RPM (523.60 rad/s)

Weight, Domestic, crated, with COPES…………1145 lbs (519.4 kg)

Weight, Domestic, crated, less COPES…………390 lbs (444.5 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

www.OzarkToolManuals.com
Powermatic's exclusive construction technique that maximizes machine life

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.
Exacting Powermatic® engineered and built for years of dependable service. Whether in simple shop operation or industrial high production, Powermatic mortisers are famous for precise 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.

**FEATURES**

**FRAME:** Constructed of heavy, reinforced castings for extremely rigid support and vibration-free operation.

**TABLE:** Universal style, 6” x 36” (152.40 mm x 914.40 mm) with 4” (101.60 mm) back fence. Compound rack and pinion unit which moves 45° right or left with a 14” (355.60 mm) vertical adjustment range operated by convenient, front-mounted handwheel. Lateral handwheel table adjustment 4” (101.50 mm).

Stock is held firmly in position with a quick acting, adjustable eccentric clamp. Front-mounted turret wheel operates rack and pinion for full 12” (304.80 mm) straight-line mortising without underramping work.

**STROKE:** Maximum depth of cut is 4” (101.60 mm). Stroke is operated by foot lever through linkage which provides for full leverage adjustment. Assures maximum operator production with minimum fatigue.

**BITs:** Equipped with 3/4” (95.2 mm) chisel and bit, chuck, 2 chisel bushings and complete wrench set. Boring bit is 9” (228.60 mm) in overall length with a twist of 6” (152.40 mm). Accommodates soft wood mortise chisels up to 3/4” (19.05 mm). MORTER: Direct drive type, built-in. Choose from either 1/2-HP (1.119 kw) 1-phase (115 or 230-volt) or 3-phase (230 or 460-volt) models for light and medium work requirements, or for extra heavy mortising operations the 2 HP (1.492 kw) 3-phase (230 or 460-volt) motor is recommended. Motor spindles operate in high-speed ball bearings for years of perfect alignment and trouble-free service. Motor switch is front-mounted for easy operator access.

**STANDARD EQUIPMENT**

- Foot Treadle Guard. Less: Motor and Controls.

**BASIC MACHINE**

1400040 — Model 10 Mortiser, with all standard equipment. Less: Motor and Controls.

Note: Not sold less motor.

**MOTORS FOR USE WITH MODEL 10 MORTISER**

<table>
<thead>
<tr>
<th>1 Phase</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>6471404 — 1/2 HP (1.119 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, TEFC, 56 frame.</td>
<td>6471415 — 1/2 HP (1.119 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC, 56C frame.</td>
</tr>
<tr>
<td>6471414 — 1/2 HP (1.119 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC 56C frame.</td>
<td>6471721 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V/460V, TEFC, 56C frame.</td>
</tr>
<tr>
<td>6471722 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC, 56C frame.</td>
<td></td>
</tr>
</tbody>
</table>

**CONTROLS FOR USE WITH MODEL 10 MORTISER**

- 2398220 — Pushbutton Switch, 115/230V.
- 2398386 — Magnetic Controls, 115V/230V.
- 23984495 — Magnetic Controls, 115/230V, w/24V transformer.

*May be specified with 110V transformer.

**OPTIONAL ACCESSORIES**

- 2250091 — Foot Treadle Guard (Floor Mig).
- 2250092 — Foot Treadle Guard (Base Mig).
- 6116007 — Hollow Chisel, 1/4” x 4” (6.35 mm x 101.60 mm).
- 6116008 — Hollow Chisel, 1/8” x 4” (6.35 mm x 101.60 mm).
- 6116009 — Hollow Chisel, 1/16” x 4” (6.35 mm x 101.60 mm).
- 6220003 — Hollow Chisel Drill Bit 1/4” x 9” (6.35 mm x 228.60 mm).
- 6220004 — Hollow Chisel Drill Bit 5/16” x 9” (7.94 mm x 228.60 mm).
- 6220005 — Hollow Chisel Drill Bit 3/8” x 9” (9.52 mm x 228.60 mm).
- 6220006 — Hollow Chisel Drill Bit 1/2” x 9” (11.11 mm x 228.60 mm).
- 6220007 — Hollow Chisel Drill Bit 5/8” x 9” (12.70 mm x 228.60 mm).
- 6220008 — Hollow Chisel Drill Bit 3/4” x 9” (15.88 mm x 228.60 mm).
- 6220009 — Hollow Chisel Drill Bit 7/8” x 9” (19.05 mm x 228.60 mm).

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table, lateral travel</td>
<td>4” (101.60 mm)</td>
</tr>
<tr>
<td>Table, longitudinal travel</td>
<td>12” (304.80 mm)</td>
</tr>
<tr>
<td>Table, vertical adjustment</td>
<td>14” (355.60 mm)</td>
</tr>
<tr>
<td>Fence</td>
<td>4” x 36” (101.60 mm x 914.40 mm)</td>
</tr>
<tr>
<td>Chisel-to-table top, maximum</td>
<td>14” (355.60 mm)</td>
</tr>
<tr>
<td>Chisel, center-to-back stop, maximum</td>
<td>4” (101.60 mm)</td>
</tr>
<tr>
<td>Chuck capacity</td>
<td>1/2” (12.70 mm)</td>
</tr>
<tr>
<td>Motor speed</td>
<td>3600 RPM (376.99 rad/s)</td>
</tr>
</tbody>
</table>

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

Maximum stock width: 14” (355.60 mm)
Range of depth stop: 4” (101.60 mm)
Maximum boring depth: 4” (101.60 mm)
Maximum bit size: 3/4” (12.70 mm) shank, 1/2” (38.10 mm)
Chisel Shank hole diameter: 1/2” (12.70 mm)
Chisel bushings shank sizes: 5/16” (8.00 mm) & 3/16” (5.00 mm)
Weight, domestic crated: 805 lbs (274.4 kg)
Weight, export boxed: 820 lbs (371.1 kg)
BALANCED SLIDING HEAD
UNIVERSAL TABLE
VERSATILE . . . RUGGED

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® Model 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.

RIGID CHIPBREAKER assures smooth, clean, splinter-free cuts on #15 chain saw mortisers.

QUICK-ACTING ECCENTRIC CLAMP permits fast stock change with complete accuracy in high production operations.

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

CHAIN TENSION ADJUSTMENT is quick and easy. Helps make chain bar and sprocket fast much longer. The most important adjustment in mortiser operation.

SIMPLIFIED MORTISE HEAD MECHANISM
1. Built-in chain oiler
2. Oiler for positive slide lubrication
3. Block-mounted mortise bar for easy adjustment
4. Adjustable chipbreaker

Shown without standard foot treadle guard.
FEATURES

FRAME: Constructed of 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" (152.40 mm x 914.40 mm) with 4" (101.60 mm) back fence. Compound rack and pinion unit which tilts 45° right or left with a 14" (355.60 mm) vertical adjustment range operated by convenient, front-mounted hand-wheel. Table may be laterally adjusted up to 4" (101.60 mm) with hand-wheel.

Stock is held rigidly in position with a quick-acting, adjustable eccentric clamp. Front-mounted turret handle and rack and pinion for full 12" (304.80 mm) straight line mortising without unclamping work.

STROKE: Maximum depth of cut is 6" (152.40 mm). Stroke is easily controlled by foot lever through linkage which provides 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" (30.16 mm) in diameter, mounted in sealed ball bearings. Spindle is driven with shaft coupled directly to motor. A built-in, spindle-mounted fan keeps work cool and free from dust and chips.

CHAIN: Equipped with 3/4" x 1 1/2" (9.52 mm x 38.10 mm) chain, bar and sprocket mortise set as standard equipment. May be fitted with mortise sets from 3/4" x 3/4" (6.35 mm x 19.05 mm) to 3/4" x 3" (15.88 mm x 76.20 mm) (available at extra cost).

LUBRICATION: Automatic oiler assembly assures constant oil application to bar slide while machine is in operation to insure long chain life.

MOTOR: 1 HP (.746 kw), 3-phase motor is sufficient for all light mortising operations, up to 3/4" (9.52 mm). For heavier mortising, up to 3/4" (15.88 mm), a 2 HP (.492 kw) motor is required. 1 1/8 HP (1.199 kw) and 2 HP (1.492 kw) motors are available either 1- or 3-phase.

STANDARD EQUIPMENT

MORTISER: 3/4" x 1 1/2" (9.52 mm x 38.10 mm) Mortise set, Eccentric Stock Clamp, Work Holddowns, Chipbreaker, Universal Table, Work Stops, Wrench set, Chipblower, Automatic Oiler and Foot Treadle Guard. Less: Motor and Controls.

BASIC MACHINES

<table>
<thead>
<tr>
<th>Model</th>
<th>Chain Mortiser with standard equipment for 1 &amp; 1 1/2 HP (.746 kw &amp; 1.199 kw) motors. Less: Motor and Controls.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>1320010</td>
</tr>
</tbody>
</table>

MOTORS FOR USE WITH MODEL 15 MORTISER

<table>
<thead>
<tr>
<th>Model</th>
<th>1 HP (1.199 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 56 frame.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>6471400</td>
</tr>
<tr>
<td></td>
<td>2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 145T frame.</td>
</tr>
<tr>
<td></td>
<td>6471707</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>6471118 1 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 56 frame.</td>
</tr>
</tbody>
</table>

CONTROLS FOR USE WITH MODEL 15 MORTISER

<table>
<thead>
<tr>
<th>Model</th>
<th>Pushbutton Switch, 115/230v.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>2398221</td>
</tr>
<tr>
<td></td>
<td>Magnetic Controls, 115/230v, w/24v transformer.</td>
</tr>
<tr>
<td></td>
<td>2398528</td>
</tr>
</tbody>
</table>

OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>3/4&quot; x 1 1/2&quot; x 4 1/2&quot; (9.52 mm x 38.10 mm x 114.30 mm) Mortise set including chain, bar and sprocket. Wt. 1 1/2 lbs. (6.79 kg).</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>2490007</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>3/4&quot; x 1 1/2&quot; x 5&quot; (12.70 mm x 38.10 mm x 12700 mm) Mortise set including chain, bar and sprocket. Wt. 1 1/2 lbs. (6.88 kg).</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>2490008</td>
</tr>
</tbody>
</table>

Other Mortise sets available. Write factory for information.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Table</th>
<th>.8&quot; x 36&quot; (152.40 mm x 914.40 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table, Longitudinal Travel</td>
<td>4&quot; (101.60 mm)</td>
</tr>
<tr>
<td>Table, Vertical Adjustment</td>
<td>12&quot; (304.80 mm)</td>
</tr>
<tr>
<td>Fence</td>
<td>4&quot; x 36&quot; (101.60 mm x 914.00 mm)</td>
</tr>
<tr>
<td>Chain-to-Back Stop, Maximum</td>
<td>14&quot; (355.60 mm)</td>
</tr>
<tr>
<td>Maximum Width</td>
<td>14&quot; (355.60 mm)</td>
</tr>
</tbody>
</table>

Range of Depth Stop: 5" (127.00 mm)
Maximum Cutting Depth: 6" (152.40 mm)
Maximum Usable Mortise Set: 3/4" x 2" (15.88 mm x 76.20 mm)
Minimum Usable Mortise Set: 3/4" x 1 1/2" (6.35 mm x 15.88 mm)
Standard Mortise Set Furnished: 3/4" x 1 1/2" (9.52 mm x 38.10 mm)
Motor Speed: 3600 RPM (376.99 rad/s)
Weight, Domestic Crated: 670 lbs. (303.4 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
Totally Enclosed Fan Cooled Motor Standard

Smother Surfacing Saves Finishing Time

Smaller shops everywhere applaud the features of this mighty mite of the Powermatic® planer line. Though small in size, cabinet, school, pattern and light-duty millwork shops have found the Model 100 completely adequate for the most precise requirements.

Incorporating many famous features of the larger Powermatic® planers, this low-cost model is proving its dependable superior performance year-in and year-out in every type of shop. The unique chipbreaker construction and perfectly synchronized operation of cutterhead and feed rollers assure virtually gap-free surfacing for a wide variety of stocks at maximum speed. The extra size 12” x 24” (304.80 mm x 609.60mm) one-piece bed is the longest available on any 12” (304.80) planer and assures greater infeed and outfeed support of long stock for more accurate surfacing.

See how fast the Model 100 will start paying for itself in your shop with faster precision production.

The latest addition to this popular Planer is a new Knife grinding and jointing attachment available as an option. The new Model 100 Planer is pre-drilled for accepting the grinding attachment, making the addition or removal of this unit possible in a matter of moments. This attachment now appears on the following page under OPTIONAL ACCESSORIES.

Knife Grinder and Jointer (optional) mounted on the main frame of the Planer. Positive indexing feature shown, assures positive locking of the blade in position for sharpening.

Built for Heavy Workloads—Top rollers and pressure bar adjustments are fully visible and can be adjusted without removing guards. Positive clutch to start or stop feed rolls.

Jackscrews Speed Accurate Knife Setting — a standard feature.

Set and secure all cutterhead knives in as little as half the time. Adjust knife support jackscrews (A) with Allen wrench and pressure-lock knife safety shims (B) with end wrench. Cutterhead mounted in over-size sealed ball bearings. Precision ground and balanced.
FEATURES

FRAME: Precision machined from extra heavy one-piece cast iron. All bearing housings are line bored for perfect bearing alignment.

BED: 12" x 24" (304.80 mm x 609.60 mm), the longest one-piece bed of all 12" (304.80 mm) planers. Built of heavy rib-reinforced cast iron, precision ground to satin smoothness for perfect finishing.

Convenient hand-wheel adjusts bed through full 5" (127.00 mm) range, with 1/16" (1.59 mm) movement for each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

CUTTERHEAD: Safety-type, milled from medium carbon steel and fitted with 3 high-speed knives. Mounted in sealed ball bearings, the entire cutterhead unit may be lifted free by removing feed drive pulley and two locking screws from flange mounting.

Operating speed is 4340 SFM (1322 mm/s), making 16,000 cuts-per-minute (72 knife cuts per inch (2.835 knife cuts per mm). See Knife Adjustment feature on previous page.

FEED ROLLS: Corrugated infeed roller and smooth outfeed roller are 2" (50.80 mm) in diameter and driven with extra heavy pitch gears. 1" (25.40 mm) diameter feed roller journals are mounted in 3" (76.20 mm) shaft bearings for longer bearing life. Feed roll pressure springs are top mounted over roller and fully visible for quick adjustment.

PRESSURE BAR: Features extra wide foot and is mounted extremely close to cutterhead for perfect outfeed control. Easy to adjust from either end.

CHIPBREAKER: Mounted adjacent to cutting circle for top quality finishing. Accurately machined foot is extra wide for longer wear.

POWER FEED CONTROL: Handy clutch lever to start and stop feed instantly without stopping power. 18 feet-per-minute feed rate at 5300 RPM of cutterhead.

STOCK CAPACITY: Surfaces stock up to 12" (304.80 mm) wide and from 1/16" (1.59 mm) to 5" (127.00 mm) thick. Stock length can be as short as 7 1/2" (190.50 mm).

POWER: 2 HP (1.492 kw) motor is adequate for light and medium work; 3 HP (2.238 kw) motor is recommended for heavy-duty operation. Motor is furnished with 2-grove drive pulley.

FEED DRIVE: Positive action V-belt drive assures smooth, trouble-free stock feed. Feed problems associated with gear transmissions are eliminated.

STANDARD EQUIPMENT

MODEL 100 — 12" PLANER: Stand, set of 3 high speed M-2 tool steel knives, sealed ball bearing cutterhead, knife setting gauge.

1000016 — Complete Model 100 Planer, with all standard equipment. Less: Motor and Controls.

BASIC MACHINES

MOTORS FOR USE WITH MODEL 100 PLANERS

1 Phase
6471707 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 145T frame.
6472013 — 3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 192T frame.
6471706 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v, TEFC, 145T frame.

3 Phase
6471717 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 145T frame.
6472026 — 3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 187T frame.
6472027 — 3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 187T frame.

CONTROLS FOR USE WITH MODEL 100 PLANERS

1 Phase
2199239 — Pushbutton Switch, 115/230v.
2398148 — Magnetic Controls, 115v/230v.
2398486 — Magnetic Controls, 115v/230v, w/24v transformer.
2398185 — Magnetic Controls, 200/230v/460v/575v.
2398204 — Pushbutton Switch, 200/230v/460v/575v.

2230002 — Bed and Feed Roll Gauge, Wt. 1 1/2 lbs (6.8 kg).
2230007 — Cutterhead Gauge, Wt. 1 lb (45 kg).
2258010 — Grider and Joining Attachment, with indexing mechanism, Wt. 90 lbs (40.8 kg).

*NOT for use on model 100 Planers made prior to 1972.

2292018 — Shaving Hood, Wt. 15 lbs (6.8 kg).
2759019 — Stand, Wt. 78 lbs (35.4 kg).
6427003 — Set of 3 High Speed, heat treated M-2 Tool Steel Knives, Wt. 1 lb (45 kg).

OPTIONAL ACCESSORIES

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rad</td>
<td></td>
</tr>
<tr>
<td>Feed Roll Diameter (infeed and outfeed)</td>
<td>2&quot; (50.80 mm)</td>
</tr>
<tr>
<td>Table Roll Diameter</td>
<td>1 1/2&quot; (38.10 mm)</td>
</tr>
<tr>
<td>Maximum depth of cut</td>
<td>3/8&quot; (9.52 mm)</td>
</tr>
<tr>
<td>Stock thickness range</td>
<td>1/8&quot; (1.59 mm) to 5&quot; (127.00 mm)</td>
</tr>
<tr>
<td>Widest Stock</td>
<td>12&quot; (304.80 mm)</td>
</tr>
<tr>
<td>Shortest planable stock (butted)</td>
<td>7 1/8&quot; (190.50 mm)</td>
</tr>
<tr>
<td>Cutterhead (3-knife) cutting arc</td>
<td>3 1/2&quot; (79.38 mm)</td>
</tr>
</tbody>
</table>

Knife cuts per inch: 72 cuts per inch (2.935 inch per mm)
Cutterhead speed: 5300 RPM (555.01 rad/s)
Knife size: 1/4" x 1/2" x 12 1/4" (3.18 mm x 22.22 mm x 311.15 mm)
Rate of feed: 18 FPM (91.44 mm/s)
Power recommended for light and medium work: 2 HP (1.492 kw)
Power recommended for heavy work: 3 HP (2.238 kw)
Weight, net, with stand: 375 lbs (171.5 kg)
Weight, domestic crated with stand: 410 lbs (186.0 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

www.OzarkToolManuals.com
**THE QUIET ONE**

In order to comply with user and Federal Government demands for planer noise reduction, Powermatic Engineering has done it again! Determined to avoid the complications of sharpening and replacing knives in spiral type cutterheads, this fantastic NEW single surface planer still utilizes the straight knife slot, maintaining simple knife installation and sharpening through use of the regular knife grinding and jointing attachment.

Major noise reduction has resulted from this new stagger mount (patented) blade arrangement, and the addition of curtains of accoustical material at entrance and exit areas serve to contain sounds generated within the machine, again reducing the noise pressure.

Smaller shops everywhere applaud the features of this mighty mite of the Powermatic planer line. Though small in size, cabinet, school, pattern and light-duty millwork shops have found the Model Q100 completely adequate for the most precise requirements.

Incorporating many features of the larger Powermatic planers, this low-cost model is proving its dependably superior performance year-in and year-out in every type of shop.

The unique chipbreaker construction and perfectly synchronized operation of cutterhead and feed rollers assure virtually gap-free surfacing for a wide variety of stocks at maximum speed. The extra size 12" x 24" (304.80mm x 609.60mm) one-piece bed is the longest available on any 12" (304.80mm) planer and assures greater stead and outfeed support of long stock for more accurate surfacing.

---

**The Quiet Cutterhead**

An exclusive feature with Powermatic effectively reduces the noise level of this machine in both idle and cutting conditions. Stagger mounted knives provide a quiet cutting action WITHDOUT use of a spiral cutterhead. High Speed Steel Knives (standard equipment) may be sharpened in the cutterhead through use of a regular Knife Grinding and Jointing Attachment. It is NOT necessary to remove either knives or cutterhead to sharpen.

---

**Convenient Bed-Adjustment Hand-Wheel**

— Acme-thread screws which operate in ball thrust bearings activates bed. Easy-to-read thickness gauge. One-piece cast iron frame keeps perfect alignment.

---

**Optional Shaving Hood and Sound Curtain** — Designed to further reduce noise levels by containing sound within machine. May be ordered with machine if dust collecting system is available.

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SEE PAGE 32 FOR DETAILED DRAWINGS OF THE STAGGER MOUNTED KNIFE CUTTERHEAD.
FEATURES

FRAME: Precision machined from extra heavy one-piece cast iron. All bearing housings are line bored for perfect bearing alignment.

BED: 12" x 24" (304.80 mm x 609.60 mm) is the largest one-piece bed of all 12" (304.80 mm) planers. Built of heavy rib-reinforced cast iron, precision ground to satin smoothness for perfect finishing.

Convenient handwheel adjusts bed through full 5'-0" (127.00 mm) range, with 1/16" (.159 mm) movement for each complete turn. Adjacent front-mounted gauge is calibrated for quick easy reading.

CUTTERHEAD: Safety-type, milled from medium carbon steel and fitted with 18 high-speed steel knife segments, stagger mounted to create a spiral cutting concept. This exclusive design reduces noise during planing operations through more but smaller bites as knives contact material surface. Cutterhead is mounted in sealed ball bearings requiring no lubrication.

New Jack Screws adjust blades down as well as up, thereby holding cutterhead in cutterhead until screw is removed; an added safety feature to help prevent knives from being thrown from head if loose.

FEED ROLLS: Corrugated infeed roller and smooth outfeed roller are 1-1/2" (50.80 mm) in diameter and driven with extra heavy gears. 1" (25.40 mm) diameter feed roller journals are mounted in 3/4" (19.05 mm) shaft bearings for longer bearing life. Feed roll pressure springs are top-mounted over roller and fully visible for quick adjustment.

PRESSURE BAR: Features extra-wide foot and is mounted extremely close to cutterhead for perfect outfeed control. Easy to adjust from either end.

CHIPBREAKER: Mounted adjacent to cutting circle for top quality finishing. Accurately machined foot is extra wide for longer wear.

POWER FEED CONTROL: Handy clutch lever to start and stop feed instantly without stopping power, 15 feet per minute (75.60 mm/s) feed rate at 3800 RPM.

STOCK CAPACITY: Surfaces stock up to 12" (304.80 mm) wide and from 1/16" to 5" (1.59 mm to 127.00 mm) thick. Stock length can be as short as 3" (178.00 mm)

POWER: 2 HP (1.492 kw) motor is adequate for light and medium work; 3 HP (2.238 kw) motor is recommended for heavy-duty operation. Motor is furnished with a 2-groove drive pulley.

FEED DRIVE: Positive action V-belt drive assures smooth, trouble-free stock feed. Feed problems associated with gear transmissions are eliminated.

STANDARD EQUIPMENT

MODEL Q100 — 12" PLANER: Complete with stand, set of 18 high-speed steel knives, sealed ball-bearing cutterhead, knife setting gauge, jack screws, cutterhead and motor pulley, drive belt, motor base, set of wrenches. Less: Motor and Controls.

1000090 — Complete Model Q100 Planer, with all standard equipment. Less: Motor and Controls.

BASIC MACHINES

MOTORS FOR USE WITH MODEL 100 PLANERS

1 Phase

6471707 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, TEFC, 145T frame.
6472013 — 3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, TEFC, 182T frame. (Requires Magnetic Control)

3 Phase

6471706 — 2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200/460V, TEFC, 145T frame.
6471717 — 2HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 145T frame.
6472026 — 2HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC, 182T frame. (Requires Magnetic Control)

CONSULTS FOR USE WITH MODEL 100 PLANERS

1 Phase

2398383 — Pushbutton Switch, 115/230V, for 2HP motors only
2398385 — Magnetic Controls, 115/230V
2398496 — Magnetic Controls, 115/230V, w/24v transformer

3 Phase

2398185 — Magnetic Controls, 200/460V/575V

* May Be Specified With 110V Transformer.

OPTIONAL ACCESSORIES

2230002 — Bed and Feed Roll Gauge. Wt. 11/2 lb. (.68 kg)
2230007 — Cutterhead Gauge. Wt. 1 lb. (45 kg)
2258010 — Grider and Jointing Attachment, w indexing mechanism. (For use with HIGH SPEED STEEL KNIVES only). Wt. 60 lbs. (40.8 kg). Order Diamond Wheel for Grinding carbide knives.

2393010 — Set of 18 high-speed steel knives.
2393015 — Set of 18 Carbide tipped knives.
2397045 — Shaving Head and Sound Insulation kit.
9100006 — Carbide knives in lieu of HSS. 9900031 — Diamond wheel for use on Carbide knives.

SPECIFICATIONS

Bed Dimensions: 12" x 24" (304.80 mm x 609.60 mm)
Feed Roll Diameter (infeed and outfeed): 1-1/2" (50.80 mm)
Table Roll Diameter: 1-1/2" (38.10 mm)
Maximum depth of cut: 1/8" (3.175 mm)
Stock thickness range: 1/64" (1.59 mm) to 5" (127.00 mm)
Width stock: 1-1/4" (304.80 mm)
Length stock (butter): 1-1/4" (304.80 mm)
Cutterhead cutting arc: 3/8" (9.53 mm)

Knife cuts per inch: 72 cuts per inch (2.835 cuts per mm)
Cutterhead speed: 3600 SFM (18.66 mm/s)
Knife size: 1/8" x 1/2" x 2-1/4" (4.76 mm x 25.40 mm x 57.15 mm)
Rate of feed: .15 FPM (76.20 mm/s)
Power recommended for light and medium work: 2HP (1.492 kw)
Power recommended for heavy work: 3HP (2.238 kw)
Weight, net with stand: 378 lbs (171.5 kg)
Weight, domestic crated with stand: 410 lbs (186.0 kg)
First to Offer Quik-Set Table Roll Adjustment as Standard Equipment!!

The two outstanding features characteristic of fine surfacing machines, weight and strength, are standard in this heavy duty production Planer, the only machine in its price range guaranteed to take a 1/2" (12.70mm) cut. Engineered and built to highest quality standards, this tool features a massive work table, ground to micrometer tolerances. Permanent alignment and wear adjustment is provided by four machined vertical ways and gibbs. “Quik-Set” table roll adjustment eliminates friction between table surface and material planed. Raise or lower rolls to your own standards — higher for rough cutting, lower for finishing. Truly an industrial machine priced within the budget of Vocational and Technical School Shops.

Knife Grinder and Jointer (optional) mounts permanently to main Planer frame. Ideally suited for precision sharpening of knives without removal from the head. Heavy 5 3/4" (133.35 mm) wide guide bar prevents chatter of the jointing head.

Belted Feed Drive Assembly is simple and trouble free. A combination of variable speed pulleys, V-belts, and heavy pitch gears provide smooth, dependable, feed rates without use of expensive and troublesome transmissions and gear-boxes.

“Quik-Set” feature offers lever controlled table roll height adjustment from 0" to .040" (.10 mm) at a touch. Quik-Set eliminates friction and constant under-the-table roll adjustments.

Feed Speed Adjustable from 15 FPM to 37 FPM (76.20 mm/s to 187.90 mm/s) with variable speed pulley. Sets quickly for every stock or finish requirement.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support. One-piece 38' x 26' (965.20 mm x 711.20 mm) cast iron base.

BED: 16' x 31⅛' (406.40 mm x 800.10 mm) accurately machined with extra heavy rib-reinforcing for perfect alignment. Bed raises and lowers on large acme-thread screw mounted on enclosed thrust bearings.

Convenient hand wheel adjusts bed through full 6' (152.40 mm) range. Adjacent front-mounted gauge is calibrated for quick, easy reading.

CUTTERHEAD: Safety-type. Milled slots, precision ground and balanced, fitted with 3 high-speed, heat-treated M-2 tool steel knives. Mounted in oversize sealed ball bearings, the entire cutterhead unit may be lifted free by removing drive pulley and three locking screws from flange mounting.

FEED ROLLS: Upper feed rolls 2 3/16" (55.56 mm) diameter, milled from solid steel. Have 3/4" (15.88 mm) yield. Driven by V-belts from cutterhead spindle to oversize machined gears.

SOLID 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.

SOLID 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 complete range of feed from 15 to 37 feet per minute (76.20 mm/s to 187.96 mm/s).

STOCK CAPACITY: Surfaces stock up to 16' (406.40 mm) wide and from ¾" to 6" (1.8 cm to 152.4 cm) thick.

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

POWER: 3 HP (2.238 kw) motor is recommended for light and medium work, such as pattern shops, schools, etc. 5 HP (3.730 kw) motor is recommended for heavier requirements and production work. 1 or 3-phase motors available.

GRINDING AND JOINTING ATTACHMENT: Optional. Mounted on extra heavy 1/4" (133.35 mm) bar, precision ground for extreme accuracy. Grinder and jointer may be easily removed from permanently mounted grinder bar when not in use. 1/4" (1.86 mm), 110 V. motor.

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1 PHASE

6472019 — 3HP (2.238kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TECF, 182T frame.
6472328 — 5HP (3.730kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TECF, 184T frame.
6472026 — 3HP (2.238kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TECF, 182T frame.

3 PHASE

6472027 — 3HP (2.238kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TECF, 182T frame.
6472319 — 5HP (3.730kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TECF, 184T frame.
6472330 — 5HP (3.730kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TECF, 184T frame.
6472507 — 7½HP (5.595kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TECF, 213T frame.
6472512 — 7½HP (5.595kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TECF, 213T frame.

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1 PHASE

2298189 — Magnetic Controls, 115/230v.
2386494 — Magnetic Controls, 115/230v, w/24v transformer.

3 PHASE

2398230 — JIC Controls, 200/230/460/575v; Class 1 only.
2398489 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
910002 — Conduit in lieu of Standard Wiring.

*May Be Specified With 110v Transformer.

OPTICAL ACCESSORIES

2395004 — Extra set of Knives (3 high speed, heat treated M-2 Tool Steel) Wt. 2½ lbs (1.13kg).
2397061 — Kit, Conversion, sectional chipbreaker and infeed roller. (Retro-fit.)
3250015 — Belt Guard for 3600 RPM (376.99 rad/s) Motor.
3717026 — 2-Groove B-Sec Section Motor Pulley for 3600 RPM (376.99 rad/s) Motor.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock thickness range</td>
<td>¾&quot; (3.18mm) to 6&quot; (152.40mm)</td>
</tr>
<tr>
<td>Widest planable stock</td>
<td>16&quot; (406.40mm)</td>
</tr>
<tr>
<td>Shortest planable stock</td>
<td>4&quot; (101.60mm)</td>
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<tr>
<td>Shortest planable stock, not beveled</td>
<td>13&quot; (330.20mm)</td>
</tr>
<tr>
<td>Light &amp; Medium work</td>
<td>3HP (2.238kw)</td>
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<tr>
<td>Heavy work</td>
<td>7½HP (5.595kw)</td>
</tr>
<tr>
<td>Weight exported with motor (53.9 cu. ft.)</td>
<td>1360 lbs (616.0kg) App.</td>
</tr>
<tr>
<td>Weight, net, less motor</td>
<td>1000 lbs (453.6kg)</td>
</tr>
<tr>
<td>Weight, net, with motor</td>
<td>1100 lbs (499.0kg)</td>
</tr>
<tr>
<td>Domestic, crated, with motor</td>
<td>1200 lbs (557.5kg) App.</td>
</tr>
</tbody>
</table>

- Bed: 16" x 31⅛" (406.40mm x 800.10mm)
- Cutterhead (3-knife) cutting arc: ⅜" (9.42mm)
- Recommended cutterhead speed, belted drive: 4800 RPM (50.65 rad/s)
- Knives, 3, high speed steel: 16½" x 1⅛" x 5/32" (412.75mm x 12.75mm x 3.97mm)
- Feed rollers: 2¼" (57.55mm)
- Bed rollers: 2" (50.80mm)
- Variable speed feed range: 15FPM (73.50mm/s) to 37FPM (187.96mm/s)
- Knife cuts, per minute, Belts drive: 14.400
- Maximum depth of cut: ½" (12.7mm)
First to Offer Quick-Set Table Roll Adjustment as Standard Equipment!!

"THE QUIET ONE"

In order to comply with user and Federal Government demands for Planer noise reduction, Powermatic Engineering has done it again! Determined to avoid the complications of sharpening and replacing knives in spiral type cutterheads, this fantastic NEW single surface planer still utilizes the straight knife slot, maintaining simple knife installation and sharpening through use of the regular grinding and jointing attachment.

Major noise reduction has resulted from the new stagger mount (patented) blade arrangement, and the addition of curtains of accoustical material at entrance and exit areas serve to contain sounds generated within the machine, again reducing the noise level pressure.

Shown with optional knife grinding and jointing attachment and dusthood and sound curtain.

"THE QUIET ONE" cutterhead knives are set, secured and adjusted in a minimum of time.

Each blade is inserted, locked or adjusted with individual jack screws, retaining plugs and lock screws. Remove or replace individual blades easily and quickly.

Knife Grinder and Jointer — (optional) Ideally suited for precision sharpening of knives without removal from the head. Heavy 5½" (133.35mm) wide guide bar prevents chatter of the jointing head.

Belted Feed Drive Assembly — is simple and trouble free. A combination of variable speed pulleys, V-belts, and heavy pitch gears provide smooth, dependable, feed rates without use of expensive and troublesome transmissions and gear-boxes.

"Quik-Set" feature offers lever controlled table roll height adjustment from 0" to .040" (1.02mm) at a touch. Quik-Set eliminates friction and constant under-the-table roll adjustments.

The Quiet Cutterhead — an exclusive feature with Powermatic effectively reduces the noise level of this machine in both idle and cutting conditions. Stagger mounted knives provide a quiet cutting action WITHOUT use of a spiral cutterhead. High-Speed Steel Knives (standard equipment) may be sharpened in the cutterhead through use of the regular Knife Grinding and Jointing attachment. It is NOT necessary to remove either knives or cutterhead to sharpen.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT.

32
FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support. One piece 38" x 28" (956.20 mm x 711.20 mm) cast iron base.

BED: 16" x 31 1/2" (406.40 mm x 800.10 mm) accurately machined with extra heavy rib-reinforcing for perfect alignment always. Bed raises and lowers on larger acme-thread screws mounted on enclosed thrust bearings.

Convenient hand-wheel adjusts bed through full 6" (152.40 mm) range. Adjacent front-mounted gauge is calibrated for quick easy reading.

CUTTERHEAD: Safety-type, milled from medium carbon steel and fitted with 24 High-Speed steel knife segments, stagger mounted to create a spiral cutting concept. This exclusive design reduces noise during planing operations through more but smaller bites as knives contact material surface. Cutterhead is mounted in sealed ball bearings requiring no lubrication.

New Jack Screws adjust blades down as well as up thereby holding blade in cutterhead until screw is re-moved; an added safety feature to help prevent knives from being thrown from cutterhead.

New blade retainers are plug type that the centrifugal force of the turning cutterhead tend to wedge tighter.

CHIPBREAKER: Swings concentric to cutterhead and mounted just forward of the knife cutting circle, solid or sectional.

POWER FEED CONTROL: Variable speed pulley affords a complete range of feed from 15 to 37 feet per minute (76.20 mm x 187.96 mm).

STOCK CAPACITY: Surfaces stock up to 16" (406.40 mm) wide and from 1/8" to 6" (3.18 mm to 152.40 mm) thick.

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

POWER: 3 HP (2.238 kw) motor is recommended for light and medium work, such as pattern shops, schools, etc. 5 HP (3.730 kw) motor is recommended for heavier requirements and production work. 1 or 3-phase motors available.

STANDARD EQUIPMENT

MODEL Q160 PLANER: Complete with 24 high-speed steel knives, sealed ball bearing cutterhead, knife setting gauge, jack screws, cutterhead and motor pulley, 2 drive belts, Quik-set table roll adjustment, motor base, set of wrenches, belt guard. Less: Motor and Controls.

BASIC MACHINES

1600130—Complete Model Q160, 16" Planer with all standard equipment. Less: Motor and Controls.

1600150—Same as 1600130 except w/sectional infeed roll and chipbreaker.

1 Phase

6472013—3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, TEFC, 182T frame.

6472328—5 HP (3.730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, TEFC, 184T frame.

3 Phase

6471202—3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 208/230/460V, TEFC, 182T frame.

6472027—3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 208/230/460V, TEFC, 182T frame.

1600150—Complete Model Q160, 16" Planer with all standard equipment. Less: Motor and Controls.

MOTORS FOR USE WITH MODEL 160 PLANERS

6472319—5 HP (3.730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC, 184T frame.

6472320—5 HP (3.730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 184T frame.

6472507—7 1/2 HP (5.595 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC, 213T frame.

6472512—7 1/2 HP (5.595 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 213T frame.

CONTROLS FOR USE WITH MODEL 160 PLANERS

2398220—JIC Controls, 200/230/460/575V; Class 1 only.

2398949—Magnetic Controls, 200/230/460/575V; w/24v transformer.

*May Be Specified With 110v Transformer.

2398188—Magnetic Controls, 200/230/460/575V.

OPTIONAL ACCESSORIES

2330002—Bed and Feed Belt Gauge. Wt. 1 lb. (.45 kg)

2330007—Cutterhead Gauge. Wt. 1 lb. (.45 kg)

2258005—Heavy Duty Knife Grinding and Sharpening Attachment with Indexing Mechanism. For use with HIGH-SPEED STEEL KNIVES only. Wt. 90 lbs (40.8 kg)—order Diamond wheel for grinding carbide knives.

2339016—Set of 24 Carbide Tipped Knives.

2393016—Set of 4 Carbide Tipped Knives.

2397040—Shaving Hood and Sound Insulation Kit.

2397085—Kit, Conversion, Sectional Chipbreaker and Infeed Roller. (Retro-Fit)

3250015—Set Guard for 3450 RPM Motor Wt. 3 lbs (2.3 kg).

9100007—Carbide knives in lieu of H-SS.

2390001—Diamond Grinding Wheel for use on carbide knives.

SPECIFICATIONS

Bed.................. 16" x 31 1/2" (406.40 mm x 800.10 mm)
Cutterhead arcing arc... 3/4" (97.24 mm)
Recommended cutterhead speed.................. 3600 RPM (18.288 m/s)

Knife Size........... 3/16" x 1" x 2 1/4" (4.76 mm x 25.40 mm x 57.15 mm)
Feed rolls.............. 3/4" (5.55 mm)
Bed rollers.................. 2" (50.80 mm)

Variable speed feed range.......................... 15 FPM (76.20 mm/s) to 37 FPM (187.96 mm/s)

Maximum depth to cut............... 1/2" (12.70 mm)
Stock thickness range....... 3/8" (3.18 mm) to 6" (152.40 mm)

Widest planable stock........ 16" (406.40 mm)

Shortest planable stock, butted........ 4" (101.60 mm)
Shortest planable stock, not butted........ 13" (330.20 mm)

Mowers recommended for Light & medium work........... 3 HP (2.238 kw) to 5 HP (3.730 kw)
Heavy duty work.................. 7 1/2 HP (5.595 kw)

Weight, export boxed with motor (63.9 cu ft (1.808 mm)).................. 1386 lbs (626.92 kg)

Weight, net, less motor.................. 1000 lbs (453.6 kg)

Weight, net, with motor.................. 1100 lbs (499.0 kg)

Weight, Domestic crated, with motor........ 1230 lbs (557.9 kg)
The Model 180 Planer is a "Big Brother" to the Model 160 shown on page 31. The capacity is increased to plane material 18" x 6" (457.20 mm x 152.40 mm). It is even more ruggedly constructed to handle this heavier work load with the same assurance of top performance.

With the same but proportionately larger features and accessories, here is a machine that takes its place in industry for a wide variety of planing requirements. Unexcelled for school applications.

**Quik-Set Table**
Roll Adjustment
Standard Equipment

"Quik-Set" feature offers lever controlled table roll height adjustment from 0" to .040" (1.02 mm) at a touch. Quik-Set eliminates friction and constant under-the-table roll adjustments.

Knife Grinder and Jointer (optional) mounts permanently to the main frame. Ideally suited for precision sharpening of knives without removal from head. Heavy 5 1/4" (133.35mm) wide guide bar prevents chatter of the jointing head.

Feed Speed Adjustable from 15 to 37FPM (76.20mm/s to 187.96mm/s) with variable speed pulley. Sets quickly for every stock or finish requirement.

Belted Feed Drive Assembly is simple and trouble free. A combination of variable speed pulleys, V-belts, and heavy pitch gears provide smooth dependable feed rates without use of expensive and troublesome transmissions and gear boxes.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
POWERMATIC® MODEL 180 18" PLANER

FEATURES

FRAME: Exceptionally heavy cast iron frame with one-piece cast iron base, 32" x 41" (812.80 mm x 1041.40 mm). Frame has extra wide side panels with gibs to support planer bed.

BED: Heavy, substantially ribbed, accurately machined. Table size, 18" x 32" (457.20 mm x 812.80 mm). Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings.

CUTTERHEAD: 3 knife, safety type, with 4" (101.60 mm) cutting circle, fitted with 3 high speed, heat treated M-2 Tool Steel knives. Cutterhead has milled slots, is precision balanced and is mounted in heavy-duty ball bearings.

FEED ROLLS: Upper feed rolls 23/16" (55.56 mm) diameter, milled from solid steel. Have 5/8" (15.88 mm) yield. Driven by V-belts from cutterhead spindle to oversize machined gears.

SOLID PRESSURE BAR: Mounted concentric to cutterhead and fitted close to knife cutting circle. Bar has extra wide foot for long wear. Can be adjusted on both ends for perfect alignment.

CHIPBREAKER: The chipbreaker swings concentric to the cutterhead and fits very close to the knife cutting circle, solid or solid circular.

RATE OF SPEED ADJUSTMENT: A complete range from 15 to 37 feet per minute (76.20 mm x 187.96 mm) is offered with the use of variable speed pulley.

DRIVES: Cutterhead is driven with V-belts from motor mounted on the side of machine. Cutterhead speed, 4800 RPM (502.65 rad/s).

KNIFE GRINDING AND JOINTING ATTACHMENT: The Model 180 knife grinding and jointing attachment is mounted on an extra high 60.95" (1550 mm) bar precision ground for accuracy. The grinder bar is mounted in a permanent position on the machine and grinder or jointer are easily removed from bar when not in use.

STANDARD EQUIPMENT

MODEL 180 — 18" PLANER: 3 high-speed, heat treated M-2 Tool Steel Knives, sealed Ball Bearing Cutterhead, Knife setting Gauge, Single Surface Planer with all standard equipment. Less Motor and Controls.

MODEL 180BL — BELTED DRIVE 18" x 6" (457.20 mm x 152.40 mm) with all standard equipment. Less Motor and Controls.

BASIC MACHINES

1800050 — Model 180 BELTED DRIVE 18" x 6" (457.20 mm x 152.40 mm) with all standard equipment. Less Motor and Controls.

1800170 — Same as 1800050 except with sectional infeed roll and Chipbreaker.

MOTORS FOR USE WITH MODEL 180 PLANER

6472013 — 3HP (2328 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 182T frame.
647328 — 3HP (2328 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v, TEFC, 184T frame.
647020 — 3HP (2328 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v, TEFC, 182T frame.
647027 — 3HP (2328 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200 v, TEFC, 182T frame.

1 Phase

6473219 — 5HP (3730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 184T frame.
6473230 — 5HP (3730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200 v, TEFC, 184T frame.
6472507 — 71/2HP (5595 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 213T frame.
6472512 — 71/2HP (5595 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 213T frame.

CONTROLS FOR USE WITH MODEL 180 PLANER

1 Phase

2398189 — Magnetic Controls, 115/230v.
2398494 — Magnetic Controls, 115/230v, w/24v transformer.
*May be specified with 110v transformer.

3 Phase

2398186 — Magnetic Controls, 200/230/460/575v.
2398220 — JIC Controls, 200/230/460/575v, Class 1 only.
2398496 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100002 — Conduit in lieu of standard wiring.

OPTIONAL ACCESSORIES

2230002 — Bed and Feed Roll Gauge. Wt. 1 lb. 45 kg.)
2230007 — Cutterhead Gauge. Wt. 1 lb. (45 kg.)
2258005 — Heavy Duty Knife Grinding and Jointing Attachment with indexing mechanism. Wt. 90 lbs (40.8 kg).
2292020 — Shaving Hood (6" (152.40 mm) outlet size). Wt. 15 lbs (6.8 kg).
2393005 — Extra set of Knives, 3 highspeed, heat treated M-2 Tool Steel. Wt. 2/5 lbs (1.1 kg).
2397082 — Kit, Conversion, Sectional Chipbreaker and Infeed Roller (Retro-Fit).
3250015 — Belt Guard for 3600 RPM (376.99 rad/s) Motor. Wt. 6 lbs (2.7 kg).
3717028 — 2-Groove B-section Motor Pulley for 3600 RPM (376.99 rad/s). Motor. Wt. 3 lbs (1.4 kg).

SPECIFICATIONS

Bed: 18" x 32" (457.20 mm x 812.80 mm)
Cutterhead (knives) cutting arc: 3/4" (19.05 mm)
Recommended cutterhead speed: 4800 RPM (502.65 rad/s)
Belted drive: 16" x 1 1/2" x 1/2" (457.20 mm x 31.75 mm x 9.97 mm)
Max. width: 18" (457.20 mm)
Knives, 3 high speed steel: 16" x 1 1/2" x 1/2" (457.20 mm x 31.75 mm x 9.97 mm)
Feed rollers: 2 1/4" (55.56 mm)
Bed rollers: 2" (50.80 mm)
Variable speed feed range: 15FPM to 37FPM
Knife cuts per minute, Belt drive: 14,400

Maximum depth of cut: 1/4" (6.35 mm)
Stock thickness range: 1/16" (1.59 mm) to 6" (152.40 mm)
Widest planable stock: 18" (457.20 mm)
Shortest planable stock, butted: 4" (101.60 mm)
Shortest planable stock, not butted: 13" (330.20 mm)
Motors recommended for:
Light and medium work: 3HP (2328 kw) to 5HP (3730 kw)
Heavy duty work: 71/2 HP (5595 kw)
Weight, domestic crated, with motor: 1255 lbs (569.3 kg)
Weight, export crated, with motor: 1500 lbs (680.4 kg) App.
In order to comply with user and Federal Government demands for Planer noise reduction, Powermatic Engineering has done it again! Determined to avoid the complications of sharpening and replacing knives in spiral type cutterheads, this fantastic NEW single surface planer still utilizes the straight knife slot, maintaining simple knife installation and sharpening through use of the regular grinding and jointing attachment.

Major noise reduction has resulted from this new stagger mount (patented) blade arrangement, and the addition of curtains of accoustical material at entrance and exit areas serve to contain sounds generated within the machine, again reducing the noise level pressure.

Shown with optional knife grinding and jointing attachment and dusthood and sound curtain.

The Quiet Cutterhead — an exclusive feature with Powermatic effectively reduces the noise level of this machine in both idle and operating conditions. Stagger mounted knives provide a quiet cutting action WITHOUT use of a spiral cutterhead. High-Speed Steel Knives (standard equipment) may be sharpened in the cutterhead through use of the regular Knife Grindng and Jointing Attachment. It is not necessary to remove either knives or cutterhead to sharpen.

Knife Grinder and Jointer (optional) mounts permanently to the main frame. Ideally suited for precision sharpening of knives without removal from head. Heavy 5¼" (133.35mm) wide guide bar prevents chatter of the jointing head.

"Quik-Set" feature offers lever controlled table roll height adjustment from 0" to .040" (1.02mm) at a touch. Quik-Set eliminates friction and constant under-the-table roll adjustments.

Feed Speed Adjustable from 15 to 37 feet per minute (76.25 mm to 187.96 mm) with variable speed pulley. Set quickly for every stock or finish requirement.

Belted Feed Drive Assembly is simple and trouble free. A combination of variable speed pulleys, V-belts, and heavy pitch gears provide smooth dependable feed rates without use of expensive and troublesome transmissions and gear-boxes.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES

FRAME: Exceptionally heavy cast iron frame with one-piece cast iron base, 32" x 41" (812.80 mm x 1041.40 mm). Frame has extra wide side panels with gibs to support planer bed.

BED: Heavy, substantially ribbed, accurately machined. Table size, 16" x 32" (457.20 mm x 812.80 mm). Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings.

CUTTERHEAD: Safety-type, milled from medium carbon steel and fitted with 27 High-Speed steel knife segments, stagger mounted to create a spiral cutting concept. This exclusive design reduces noise during planing operations through more but smaller bites as knives contact material surface. Cutterhead is mounted in sealed ball bearings requiring no lubrication.

New Jack Screws adjust blades down as well as up thereby holding blade in cutterhead until screw is removed; an added safety feature to help prevent knives from being thrown from cutterhead.

New blade retainers are plug type that the centrifugal force of the turning cutterhead, tend to wedge tighter.

FEED ROLLS: Upper feed rolls 2 3/16" (55.56 mm) diameter, milled from solid steel. Have 5/8" (15.88 mm) yield. Driven by V-belts from cutterhead spindle to oversize machined gears.

SOLID PRESSURE BAR: Mounted concentric to cutterhead and fitted close to knife cutting circle. Bar has extra wide foot for long wear.

CHIPBREAKER: The chipbreaker swings concentric to the cutterhead and fits very close to the knifecutting circle. Solid or sectional.

RATE OF SPEED ADJUSTMENT: A complete range from 15 to 37 feet per minute (76.20 mm x 187.96 mm) is offered with the use of variable speed pulley.

DRIVES: Cutterhead is driven with V-belts from motor mounted on the side of the machine. Cutterhead speed, 3600 SFM (18.288 m/s).

STANDARD EQUIPMENT

MODEL Q180 PLANER: Complete with 27 high-speed Steel Knives, sealed ball bearing cutterhead, knife setting gauge, jack screws, cutterhead and motor pulley, 2 drive belts, Quik-set table roll adjustment, motor base, set of wrenches, belt guard. Less: Motor and Controls.

1800180—Model Q180 Belt Driven Planer with all standard equipment. Less: Motor and Controls.

BASIC MACHINES

1 Phase

6472013 — 3HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 182T frame.
6472328 — 5HP (3.730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v, TEFC, 184T frame.
6472206 — 3HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 182T frame.
6472027 — 3HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 182T frame.

3 Phase

6472210 — 3HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/400v, TEFC, 184T frame.
6472230 — 5HP (3.730 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 184T frame.
6472507 — 1HP (0.746 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 213T frame.
6472512 — 1HP (0.746 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 213T frame.

CONTROLS FOR USE WITH MODEL 180 PLANER

1 Phase

2398189 — Magnetic Controls, 115/230v.
2398494 — Magnetic Controls, 115/230v, w/24v transformer.

"May Be Specified With 110v Transformer"

3 Phase

2398230 — Control Panel, 220/230/460/575v, Class 1 only.
2398488 — Magnetic Controls, 220/230/460/575v, w/24v transformer,
9100002 — Wiring in flexible metal conduit in lieu of standard wiring.

OPTIONAL ACCESSORIES

2230002—Bed and Feed Roll Gauge. Wt., 1 lb. (4.5 kg)
2230007—Cutterhead Gauge. Wt. 1 lb. (4.5 kg)
2258005—Heavy Duty Knife Grinding and Jointing Attachment with indexing mechanism. Wt. 90 lbs (40.6 kg) For use with high speed steel knives.
2239012—Extra set of Knives (27 high speed, heat treated M-2 Tool Steel) Wt. 2½ lbs (1.13 kg).
2392017—Set of 27 carbide tipped knives.
2397041—Shaving Hood and Sound Insulation Kit.
2397062—Kit, Conversion, Secional Chipbreaker and Infeed Roller (Retro-Fit).
3250015—Belt Guard for 3600 RPM (376.99 rad/s) Motor.
9100008—Carbide knives in lieu of HSS.
6900031—Diamond Grinding Wheel for Carbide knives.

SPECIFICATIONS

Bed .......................... 16' x 32' (457.20 mm x 812.80 mm)
Cutterhead cutting arc .......... 3° (98.42 mm)
Recommended cutterhead speed
Belted drive .............. 3600SF (18.288 m/s)
Knives, Size .......................... 3/4" x 1" x 2" (4.76 mm x 25.40 mm x 57.15mm)
Feeder rollers .............. 2 1/4" (55.86 mm)
Bed rollers .................. 2 (50.80 mm)
Variable speed feed range ... 15FPM to 37FPM (76.20 mm/s to 187.95 mm/s)
Maximum depth of cut ......... 1/2" (12.70 mm)

Stock thickness range .......... 1/8" (3.18 mm) to 6" (152.40 mm)
Widest planable stock ............ 18" (457.20 mm)
Shortest Planable stock, butted ........ 4" (101.60 mm)
Shortest planable stock, not butted .... 13" (330.20 mm)
Motors recommended for: Light and medium work .................. 3HP (2.238 kw) to 5 HP (3.730 kw)
Heavy duty work .................. 7½ HP (5.595 kw)
Weight, domestic cradled, with motor ........ 1255 lbs (569.3kg) App.
Weight, export cradled, with motor (63.9 cu ft (1808 mm)

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School, Millwork and Pattern Shops, as well as high production plants, have discovered that the Powermatic® 20" Planer is unsurpassed for dependable, precision performance in a wide variety of planing requirements. More weight, strength and individual desirable features make the model #221, truly the outstanding value in its class.

"Quik-Set" feature offers lever controlled table roll height adjustment from 0" to 0.40" (1.02 mm) at a touch. Quik-Set eliminates friction and constant under-the-table roll adjustments.

Knife Grinding and Jointing Attachment (Optional) Keeps knives with a perfect edge always! Permanently mounted, extra heavy 8" (152.40 mm) grinder bar is precision ground for smooth, accurate operation. Grinder is belt driven by 1/3 HP (.249 kw) 1-phase, 115 Volt motor. Grinder and Jointer are easily removed from bar when not in use.

Sectional Infeed Roll corrugated 4" (101.60 mm) diameter, 1/4" (25.40 mm) sintered nickel steel sections mounted on milled alloy steel spline shaft. Reversible without damage. Each section has independent yield ¼" (6.35 mm), necessary in running strip stock of varying thickness without dangerous kickback.

Knife Setting Made The Easiest Possible...
Greater Precision...

Proper use of optional Micrometer Knife setting gauge will maintain equal knife height, assuring a smooth, even planed surface. Check knife height with Dial Indicator immediately upon receipt of your new machine. Knives are set approximately 1/2" above cutterhead surface. When knives are ground or a new set installed, care should be taken to re-set to original height.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES

FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment.
BED: 20 1/4" x 40" (511.18 mm x 1016.00 mm), accurately machined with extra heavy rib-reinforcing for perfect alignment and maximum strength. Bed raises and lowers on large anti-wear screws, mounted on enclosed thrust bearings.
CUTTERHEAD: Safety-type, milled slots, precision ground and balanced, fitted with 3 high-speed, heat treated M-2 Tool steel knives. 5/32" x 1/4" x 20" (3.97 mm x 31.75 mm x 508.00 mm). Mounted in over-size, sealed ball bearings 3/8" (104.78 mm) cutting circle.
FEED ROLLS: Milled from solid steel. Extra large, 4" (101.60 mm) in diameter with mounting yield of 1/4" (6.35 mm). Mounted in sealed-for-life ball bearings. Feed roll fully reversible on 2-phase current only.
OUTFEED ROLL: Smooth, 4" (101.60 mm) diameter, solid type.
INFEED ROLL: Corrugated, 2" (50.8 mm) sectional type standard, factory installed.
Table Rolls: Two, adjustable 2 1/4" diameter.
PRESSURE BAR: Mounted concentric to cutterhead and fitted extremely near knife cutting circle.
CHIPBREAKER: Sectional, factory installed. Swings concentric to cutterhead and mounted just forward of the knife cutting circle.

POWER FEED CONTROL: Variable from 20 to 50 feet per minute (101.60 mm/s to 254.00 mm/s). Driven by 1 HP (0.746 kw) totally enclosed motor mounted in base. Controlled by side mounted instantly reversing drill switch.
STOCK CAPACITY: Surfaces stock up to 20" (508.00 mm) wide and from 1/8" (3.18 mm) to 8" (203.20 mm) thick.
DRIVE: Belted drive (Model 221-B) cutterhead is driven by V-Belts from motor mounted on the side of the machine.

ELECTRICALS: Machine standard equipped with magnetic contacts protecting both feed and drive motor. With this safety feature, both motors shut off instantly in the event of overload, low voltage and power failure. Motors will not restart until activated by operator.

STANDARD EQUIPMENT

MODEL 221 — 20" PLANER: Set of 3 high-speed, heat treated M-2 Tool Steel Knives, Sealed Ball Bearing Cutterhead, Knife setting Gauge, Jack Screws, Cutterhead Pulley, Sectional Infeed Rolls and Chipbreaker, Motor Mount Base, 1 HP (0.746 kw) Feed Drive Motor, set of Wrenches, Quick-Set Table Roll Adjustment, Motor Pulley, Belts and Belt Guard. Less: Motor and Controls.

1220090 — Model 221, BELTED DRIVE 20" x 8" (508.00 mm x 203.20 mm) Single Surface Planer, with all standard equipment. 3 Ph. optional. Motor: Less: Cutterhead Motor and Controls.

1 Phase Cutterhead Motors

6472328 — 5HP (3.730kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v, TEFC, 184T frame.
6472319 — 5HP (3.730kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v/460v, TEFC, 215T frame.
6472320 — 5HP (3.730kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 215T frame.

2 Phase Cutterhead Motors

6472328 — 10HP (7.456kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 215T frame.
6472348 — 10HP (7.456kw), 60 Hz, 3600 RPM (376.99 rad/s), 230v, TAC, 215T frame.
6472349 — 10HP (7.456kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TAC, 215T frame.

1 Phase

2395602 — Magnetic Controls, 115/230v.
2395603 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase

2396195 — Magnetic Controls, 200/230v/460v/575v.
2395601 — Magnetic Controls, 200/230v/460v/575v, w/24v transformer.
0100000 — Conduit in lieu of standard wiring.

FOR JIC CONTROLS, PLEASE CONSULT FACTORY

OPTIONAL ACCESSORIES

2230002 — Bed and Feed Roll Gauge, Wt. 1 lb (0.45 kg).
2230007 — Cutterhead Gauge, Wt. 1 lb (0.45 kg).
2258006 — Knife Grinding and Jointing Attachment. Wt. 100 lbs (45.4 kg).
2292021 — Shaving Hood, 6" (152.40mm) outlet. Wt. 25 lbs (11.3 kg).
2293006 — Set of 3 High-speed, heat treated M-2 Tool Steel Knives. Wt. 3 lbs (1.36 kg).

SPECIFICATIONS

Bed: 20 1/4" x 40" (511.18 mm x 1016.00 mm)
Cutterhead: 3 1/4" (82.42 mm)
Cutting circle: 4 1/4" (104.78 mm)
Cutterhead speed belt drive: 4000 RPM (502.65 rad/s)
Knives, 3 high-speed steel: 20" x 1 1/4" x 5/32" (508.00 mm x 31.75 mm x 3.97 mm)
Feed rollers: 3/8" (9.525 mm) dia.
Cutting depth: 20 to 50 FPM (101.60 mm/s to 254.00 mm/s)
Maximum depth of cut: 1/2" (12.70 mm)
Chip thickness range: 1/8" (3.18 mm) to 8" (203.20 mm)
Widest planable stock: 20" (508.00 mm)
Shortest planable stock/buttet: 4 1/2" (114.30 mm)
Shortest planable stock not butted: 13" (330.20 mm)
Motors recommended for light/medium work: 1/4 HP (0.37 kW)
Heavy duty work: 7/8 to 10 HP (5.395 kw to 7.490 kw)
Weight domestic w/ motor: 2160 lbs (979.8 kg)
Weight, export boxed, less motor: 93.6 cu ft (2.656 m3)
Weight, export boxed, with motor: 93.6 cu ft (2.656 m3)
Weight: 2280 lbs (1034.2 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

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In order to comply with user and Federal Government demands for Planer noise reduction, Powermatic Engineering has done it again! Determined to avoid the complications of sharpening and replacing knives in spiral type cutterheads, this fantastic NEW single surface planer still utilizes the straight knife slot, maintaining simple knife installation and sharpening through use of the regular grinding and jointing attachment.

Major noise reduction has resulted from this new stagger mount (patented) blade arrangement, and the addition of curtains of acoustical material at entrance and exit areas serve to contain sounds generated within the machine, again reducing the noise level pressure.

"Quik-Set" feature offers level controlled table roll height adjustment from 0" to .040" (1.02 mm) at a touch. Quik-Set eliminates friction and constant under-the-table roll adjustments.

Knife Grinding and Jointing Attachment (Optional) — Permanently mounted, extra heavy 6" (152.40 mm) grinder bar is precision ground for smooth, accurate operation. Grinder is belt driven by 1/3 HP (249 kw) 1-phase, 115 Volt motor. Grinder and Jointer are easily removed from bar when not in use. Must use diamond wheel to grind carbide knives.

Sectional Infeed Roll corrugated 4" (101.60 mm) diameter, 2" (50.8 mm) cast iron sections mounted on milled alloy steel spline shaft. Reversible without damage. Each section has independent yield of 1/4 (6.35 mm), necessary in running strip stock of varying thickness without dangerous kickback.

The Quiet Cutterhead — an exclusive feature with Powermatic effectively reduces the noise level of this machine in both idle and cutting conditions. Stagger mounted knives provide a quiet cutting action WITHOUT use of a spiral cutterhead. High-Speed Steel Knives (standard equipment) may be sharpened in the cutterhead through use of the regular Knife Grinding and Jointing attachment. It is not necessary to remove either knives or cutterhead to sharpen.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES

FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment.

BED: 20¼” x 40” (511.18mm x 1016.00mm), accurately machined with extra heavy rib-reinforcing for perfect alignment and maximum strength. Bed raises and lowers on large acme-threaded screws, mounted on enclosed thrust bearings.

CUTTERHEAD: Safety-type, milled from medium carbon steel and fitted with 30 High Speed Steel Knife segments, staggered to create a spiral cutting concept. This exclusive design reduces noise level during planing operations through more but smaller bites as knives contact material surface. Cutterhead is mounted in sealed ball bearings requiring no lubrication.

New Jack Screws adjust blades down as well as up, thereby holding blade in cutterhead until screw is removed; an added safety feature to help prevent knives from being thrown from head if loose. New blade retainers are plug type that tighten from centrifugal force of turning cutterhead.

FEED ROLLS: Milled from tool steel. Extra large, 4” (101.60mm) in diameter with mounting yield of ¼” (6.35mm). Mounted in sealed-for-life ball bearings. Feed rolls fully reversible on 3 phase current only.

Infeed Roll: Corrugated, 2” (50.8 mm) sectional type standard, factory installed.

Outfeed Roll: Smooth 4” (101.60mm) diameter, solid type with two adjustable, 2¼” (69.85mm) table idler rollers.

TABLE ROLLS: Two, fully adjustable 2¼” diameter.

PRECISION DIA: Mounted concentric to cutterhead and positioned extremely near knife cutting circle.

CHIPBREAKER: 2” (50.8 mm) ductile iron, sectional type with independent ¼” (9.52 mm) yield. Sections are mounted on a steel bar just forward of the knife cutting circle and swing concentric to the cutterhead.

POWER FEED CONTROL: Variable from 20 to 50 feet per minute (101.60mm/s to 254.00mm/s). Driven by 1HP (746kw) totally enclosed motor mounted in base. Controlled by side mounted in stall reversing drum switch.

STOCK CAPACITY: Surfaces stock up to 20” (508.00mm) wide and from ¼” (3.18mm) to 8” (203.20mm) thick.

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

ELECTRICALS: Machine standard equipped with magnetic controls protecting both feed and drive motor. With this safety feature, both motors shut off instantly in the event of overload, low voltage and power failure. Motors will not restart until activated by operator.

STANDARD EQUIPMENT

MODEL Q221, 20° BELT DRIVEN PLANER: Complete with set of 30 High Speed Steel Knives, sealed ball bearing cutterhead, knife setting gauge, jack screws, cutterhead and motor pulley, drive belts, sectional infeed roll and chipbreaker, motor mount base, 1HP feed drive motor, Quiet-Set table roll adjustment and belt guard. Less: Main Drive Motor and Controls.

120300 — Model Q221, 20° Belt Driven Planer with all standard equipment, 3 Ph feed drive motor. Less: Main Drive Motor and Controls.

BASIC MACHINES

120320 — Model Q221, 20° Belt Driven Planer with all standard equipment, 1 Ph feed drive motor. Less: Main Drive Motor and Controls.

MOTORS FOR USE WITH MODEL 221 PLANERS

1 Phase Cutterhead Motors

- 5HP (3.730kw), 60 Hz, 3600RPM (376.99 rad/s), 230v, TEFC, 14T frame.
- 3HP (2.200kw), 60 Hz, 3600RPM (376.99 rad/s), 230/460v, TEFC, 14T frame.
- 3HP (2.200kw), 60 Hz, 3600RPM (376.99 rad/s), 200v, TEFC, 14T frame.

Infeed Motors included with Basic Machine, Specify voltage.

3 Phase Cutterhead Motors

- 7HP (5.595kw), 60 Hz, 3600RPM (376.99 rad/s), 230/460v, TEFC, 213T frame.
- 7HP (5.595kw), 60 Hz, 3600RPM (376.99 rad/s), 200v, TEFC, 213T frame.
- 10HP (7.460kw), 60 Hz, 3600RPM (376.99 rad/s), 230/460v, TEFC, 210T frame.
- 10HP (7.460kw), 60 Hz, 3600RPM (376.99 rad/s), 200v, TEFC, 210T frame.

CONTROLS FOR USE WITH MODEL 221 PLANERS

1 Phase

- 2398502 — Magnetic Controls, 115/230v, w/24 transformer.
- 2398503 — Magnetic Controls, 115/230v, w/24 transformer.

For JIC Controls, please consult factory.

3 Phase

- 2398501 — Magnetic Controls, 200/230/460/575v, w/24 transformer.
- 9100002 — Wired in flexible metal conduit in lieu of standard wiring. *May be specified with 110v transformer.

OPTIONAL ACCESSORIES

- 2397042 — Shaving Hood and Insulation Kit.
- 3250064 — Belt Guard. Wt. 10 lbs (4.5 kg).
- 9117012 — 3-Grove B-Section 5 45° (138.43 mm) Pulley for 3600 RPM (376.99 rpm) Motor. Wt. 6 lbs (2.7 kg).
- 9100909 — Carbine knife in lieu of HSS.
- 6000031 — Diamond grinding wheel.

SPECIFICATIONS

Bed: 20¼” (511.18mm) x 40” (1016.00mm).
Cutterhead: 3¼” (98.42mm) dia.
Cutting circle: 4¼” (104.78mm) dia.
Cutterhead speed: 3600SFPM (18.288 m/s).
Knives, Size: 3⅛” x 1” x 2¼” (7.62mm x 25.40mm x 57.15mm).
Feed rollers: 4” (101.60mm) dia.
Bed rollers: 2¼” (69.85mm) dia.
Variable speed feed range: 20FPM (101.60mm/s) to 50FPM (250.00mm/s).
Maximum depth of cut: ⅝ (12.70mm).
Stock thickness range: ⅛” (3.18mm) to 1” (25.40mm).

Widest planable stock: 20° (508.00mm).
Shortest planable stock, buttled: 4” (101.60mm).
Shortest planable stock, not buttled: 13” (330.20mm).
Motors recommended for: Light & medium work... 5HP (3.730kw).
Heavy duty work: 7HP (5.595kw) to 10HP (7.460kw).
Weight, domestic crate, with motor: 2160 lbs (979.8kg).
Weight, export boxed: 2100 lbs (952.4kg).
Weight, export boxed, with motor: 93.3 cu ft (2.3588 m³).

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
Adjust from rough to semi-finished stock in a second!

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.

"Quik-Set" feature offers lever controlled table roll height adjustment from 0" to .040" (1.02 mm) at a touch. If you are tired of the "push-pull" planing method, Quik-Set eliminates friction and constant under-the-table roll adjustments.

Knife Grinding and Jointing Attachment (Optional) Keeps knives with a perfect edge always! Permanently mounted, extra heavy 6" (152.40 mm) grinder bar is precision ground for smooth, accurate operation. Grinder is belt driven by 1/3 HP (248 kw), 1-phase, 115 Volt motor. Grinder and Jointer are easily removed from bar when not in use.

Sectional Infeed Roll corrugated 4" (101.60 mm) diameter, 2" (50.8 mm) cast iron sections mounted on milled alloy steel spline shaft. Reversible without damage. Each section has independent yield of 1/4" (6.35 mm), necessary in running strip stock of varying thickness without dangerous kickback.

Knife Indexer Quick acting plunger type indexing locks cutterhead securely for grinding knives. Predetermined and pre-set stops properly position knife.

Variable Feed Control Hand wheel is easy to reach, easy to set. Adjusts rate of feed from 20 to 100FPM (101.60mm/s to 508.00mm/s).

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment. One-piece base.

BED: 24" x 48" (609.60 mm x 1219.20 mm), 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. Convenient handwheel adjusts bed through full 8" (203.20 mm) range.

CUTTERHEAD: Safety-type, milled slots, precision ground and balanced, fitted with 4 high-speed heat treated M-2 tool steel knives, 5/32" x 1/4" x 24" (3.97 mm x 31.75 mm x 609.60 mm). Mounted in over-size, sealed ball bearings. 4%" (111.12 mm) cutting circle.

Infeed Roll: Corrugated 4" (101.60 mm) diameter, 2" (50.8 mm) cast iron sections mounted on milled alloy steel spline shaft. Reversible without damage to springs on 3 phase motors only.

Outfeed Roll: Smooth, 4" (101.60 mm) diameter solid type.

TABLE ROLLS: Two adjustable, 4" (101.60 mm) diameter, power driven rolls.

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

CHIPBREAKER: 2" (50.8 mm) ductile iron, sectional-type with independent 1/4" (6.35 mm) yield. Sections are mounted on a steel bar just forward of the knife-cutting circle and swing concentric to the cutterhead.

POWER FEED CONTROL. Variable speed pulley affords complete range of feed from 20 to 100 feet per minute (101.60 mm/s to 508.00 mm/s). Driven with 1 1/2 HP (1.119 kw) totally enclosed motor mounted in machine base.

POWER: 5 HP (3.730 kw) motor is recommended for light and medium work loads. For extra heavy and high production requirements, the 7 1/2 to 15 HP (5.59 kw to 11 190 kw) motor is recommended.

ELECTRICALS: Machine standard equipped with magnetic controls protecting both feed and drive motor. With this safety feature both motors shut off instantly in the event of overload, low voltage or power failure. Motors will not restart until activated by the operator.

STANDARD EQUIPMENT


Sectional Infeed Rolls and Chipbreaker. Motor Mount Base, 1 1/2 HP Feed Drive Motor, set of Wrenches. Motor Pulley, Belts and Belt Guard Less: Cutterhead Motor and Controls.

1240040 — Model 225, BELTED DRIVE 24" x 8" (609.60 mm x 203.20 mm) Single Surface Planer, with all standard equipment and 3 Phase Infeed Motor. Less: Cutterhead Motor and Controls.

1240110 — Model 225, DIRECT DRIVE 24" x 8" (609.60 mm x 203.20 mm) Single Surface Planer, with all standard equipment and 3 Phase Infeed Motor. Less: Cutterhead Motor and Controls.

1 Phase

2398502 — Magnetic Controls, 115/230v.
2398503 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase

2398501 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100002 — Conduit in lieu of Standard Wiring.
*May be specified with 110v control.

(FOR JIC CONTROLS, PLEASE CONSULT FACTORY)

OPTIONAL ACCESSORIES

2068001 — Cutterhead Brake. Wt. 6 lbs (2.7 kg).
2230002 — Bed and Feed Roll Gauge. Wt. 1 lb (45 kg).
2230007 — Cutterhead Gauge. Wt. 1 lb (45 kg).
2280007 — Knife Grinding and Jointing Attachment. Wt. 105 lbs (47.6 kg).
2292022 — Shaving Hood, 8" (203.20 mm) outlet. Wt. 30 lbs (13.6 kg).

2393008 — Set of 4 high-speed, heat treated M-2 Tool Steel Knives. Wt. 5 lbs (2.5kg).
3250064 — Belt Guard for 3600 RPM (376.99 rad/s) Motor. Wt. 10 lbs (4.5kg).
3717012 — 3 Groove B-Section 5.45" (138.43mm) Pulley for 3600 RPM (376.99 rad/s) Motor. Wt. 6 lbs (2.7 kg).
MOTORS FOR USE WITH MODEL 225 PLANERS

1 Phase Cutterhead Motors

6472328 — 5HP (3.730kw), 60 Hz, 3600RPM (376.99 rad/s), 230v, TEFC, 184T frame.

3 Phase Cutterhead Motors

6472319 — 5HP (3.730kw), 60 Hz, 3600RPM (376.99 rad/s), 230/460v 184T frame.
6472320 — 5HP (3.730kw), 60 Hz, 3600RPM (376.99 rad/s), 200v, TEFC, 184T frame.
6472507 — 7½HP (5.595kw), 60 Hz, 3600RPM (376.99 rad/s), 230/460v, TEFC, 213T frame.
6472512 — 7½HP (5.595kw) 60 Hz, 3600RPM (376.99 rad/s), 200v, 213T frame.

6472604 — 10HP (7.460kw), 60 Hz, 3600RPM (376.99 rad/s), 230/460v, TEFC, 215T frame.
6472606 — 10HP (7.460kw), 60 Hz, 3600RPM (376.99 rad/s), 200v, TEFC, 215T frame.
6472702 — 15HP (11.190kw), 60 Hz, 3600RPM (376.99 rad/s), 200v, TEFC, 247T frame.
6472703 — 15HP (11.190kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 254T frame.

(15HP Motor Available on Belted Drives Only)
Infeed Motors included with Basic Machines. Specify voltage.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bed</td>
<td>24&quot; x 48&quot; (609.60mm x 1219.20mm)</td>
</tr>
<tr>
<td>Cutterhead</td>
<td>4(\frac{1}{4})&quot; (104.78mm)</td>
</tr>
<tr>
<td>Cutting circle</td>
<td>4(\frac{1}{4})&quot; (111.12mm)</td>
</tr>
<tr>
<td>Recommended cutterhead speed,</td>
<td>4800 RPM (502.65 rad/s)</td>
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<tr>
<td>belted drive</td>
<td>3600RPM (376.99 rad/s)</td>
</tr>
<tr>
<td>direct drive</td>
<td>3600RPM (376.99 rad/s)</td>
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<tr>
<td>Knives (4), high-speed steel</td>
<td>24&quot; x 14(\frac{1}{4})&quot; x (\frac{1}{8})&quot; (609.60mm x 31.75mm x 3.17mm)</td>
</tr>
<tr>
<td>Feed rollers</td>
<td>4&quot; (101.60mm) dia.</td>
</tr>
<tr>
<td>Bed rollers</td>
<td>4&quot; (101.60mm) dia.</td>
</tr>
<tr>
<td>Variable speed feed range</td>
<td>20FPM (101.60mm/s) to 100FPM (508.00 mm/s)</td>
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<tr>
<td>Knife-cuts-per-minute,</td>
<td>19,200</td>
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<tr>
<td>belted drive</td>
<td>14,400</td>
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<tr>
<td>Stock thickness range</td>
<td>1(\frac{1}{2})&quot; (3.18mm) to 8&quot; (203.20mm)</td>
</tr>
<tr>
<td>Widest planable stock</td>
<td>24&quot; (609.60mm)</td>
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<tr>
<td>Shortest planable stock, belted</td>
<td>4&quot; (101.60mm)</td>
</tr>
<tr>
<td>Shortest planable stock, not belted</td>
<td>13&quot; (330.20mm)</td>
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<td>Motors recommended for:</td>
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</tr>
<tr>
<td>Light and medium work</td>
<td>5HP (3.730kw) to 7(\frac{1}{2})HP (5.595kw)</td>
</tr>
<tr>
<td>Heavy duty work</td>
<td>10HP (7.460kw) to 15HP (11.190kw)</td>
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<tr>
<td>Weight, export boxed, less motor</td>
<td>92.1 cu ft (2.6083m3)</td>
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<tr>
<td>Weight, export boxed, with motor</td>
<td>2990 lbs (1356.2kg)</td>
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<tr>
<td>Weight, domestic crated, with motor</td>
<td>3115 lbs (1412.9kg)</td>
</tr>
<tr>
<td>Weight, domestic crated, with motor</td>
<td>2885 lbs (1308.6kg)</td>
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</tbody>
</table>
"THE QUIET ONE"

In order to comply with user and Federal Government demands for Planer noise reduction, Powermatic Engineering has done it again! Determined to avoid the complications of sharpening and repositioning knives in spiral type cutterheads, this fantastic NEW single surface planer still utilizes the straight knife slot, maintaining simple knife installation and sharpening through use of the regular grinding and jointing attachment.

Major noise reduction has resulted from this new stagger mount (patented) blade arrangement, and the addition of curtains of acoustical material at entrance and exit areas serve to contain sounds generated within the machine, again reducing the noise level pressure.

"Quik-Set" feature offers lever controlled table roll height adjustment from 0" to .040" (1.02 mm) at a touch. If you are tired of the "push-pull" planing method, Quik-Set eliminates friction and constant under-the-table roll adjustments.

Knife Grinding and Jointing Attachment (Optional) Keeps knives with a perfect edge always! Permanently mounted, extra heavy 6" (152.40 mm) grinder bar is precision ground for smooth, accurate operation. Grinder is belt driven by 1/3 HP (248 kw), 1-phase, 115 Volt motor. Must use diamond wheel to grind carbide knives.

Sectional Infeed Rolls are corrugated, 4" (101.60 mm) diameter, 3" (60.8 mm) cact iron sections mounted on milled alloy steel spline shaft. Reversible without damage. Each section has independent yield of 1/8" (3.55 mm), necessary in running strip stock of varying thickness without dangerous kickback.

(Optional) Shaving Hood and sound curtain kit designed to further reduce noise levels by containing sound within machine. Order with machine if dust collecting system is available.

The Quiet Cutterhead — An exclusive feature with Powermatic effectively reduces the noise level of this machine in both idle and cutting conditions. Stagger mounted knives provide a quiet cutting action WITHOUT use of a spiral cutterhead. High Speed Steel Knives (standard equipment) may be sharpened in the cutterhead through use of the regular Knife Grinding and Jointing attachment.

ALL MACHINES PERFORMANCE TESTED BEFORE SHIPMENT
FRAME: Precision machined from extra heavy cast iron. Extra wide side panels with qibs offer rigid bed support and perfect alignment. One-piece base.

BED: 24" x 48" (609.60 mm x 1219.20 mm), 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 thrust bearings.

CUTTERHEAD: Safety-type, milled from medium carbon steel and fitted with 36 High Speed Steel Knife segments; stagger mounted to create a spiral cutting concept. This exclusive design reduces noise during planing operation through more but smaller bites as knives contact material surface. Cutterhead is mounted in sealed ball bearings requiring no lubrication.

New Jack Screws adjust blades down as well as up, thereby holding blade in cutterhead until screw is removed, an added safety feature to help prevent knives from being thrown from head if loose.

New BLADE RETAINERS are plug type that the centrifugal force of the turning cutterhead tend to wedge tightly.

Infeed Roll: Corrugated 4" (101.60 mm) diameter, 2" (50.80 mm) cast iron sections mounted on milled alloy steel spline shaft. Reversible without damage to springs on 3 phase motors only.

Outfeed Roll: Smooth 4" (101.60 mm) diameter solid type.

TABLE ROLLS: Two, adjustable, 4" (101.60 mm) diameter, power driven rolls.

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

CHIPBREAKER: 2" (50.8 mm) ductile iron, sectional-type with independent 1/2" (8.5 mm) yield. Sections are mounted on a steel bar just forward of the knife-cutting circle and swing concentric to the cutterhead.

POWER FEED CONTROL: Variable speed pully affords complete range of feed from 20 feet per minute (101.60 mm/s) to 100 feet per minute (508.00 mm). Driven with 1 1/2 HP (1.119 kw) totally enclosed motor mounted in machine base.

POWER: 5 HP (3.730 kw) motor is recommended for light and medium work loads. For extra heavy and high production requirements, the 7/10 to 15 HP (5.595 kw to 11.10 kw) motor is recommended.

ELECTRICALS: Machine standard equipped with magnetic controls protecting both feed and drive motor. With this safety feature, both motors shut off instantly in the event of overload, low voltage or power failure. Motors will not restart until activated by the operator.

STANDARD EQUIPMENT

MODEL Q225, 24" PLANER — Complete with set of 36 High Speed Steel Knives, sealed ball bearing cutterhead, knife-adjusting gauge, jack screws, sectional infeed roll and chipbreaker, motor mount.

1240160 — Model Q225, 24" Belt Driven Planer complete with standard equipment and 1 1/2 HP (1.119 kw), 3 Ph feed drive motor. Less: Cutterhead Motor and Controls.

1240170 — Model Q225, 24" Belt Driven Planer complete with standard equipment and 1 1/2 HP (1.119 kw), 1 Ph Feed drive motor. Less: Cutterhead Motor and Controls.

BASIC MACHINES

1240180 — Model Q225, 24" Direct Drive Planer complete with standard equipment and 1 1/2 HP (1.119 kw), 3 Ph feed drive motor. Less: Cutterhead Drive Motor and Controls.

1240190 — Model Q225, 24" Direct Drive Planer complete with standard equipment and 1 1/2 HP (1.119 kw), 1 Ph feed drive motor. Less: Cutterhead Drive Motor and Controls.

1 Phase

2398502 — Magnetic Controls, 115/230v.
2398503 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase

2398166 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100002 — Conduct in lieu of Standard Wiring.

(For JIC Controls, Please Consult Factory)

*May be specified with 110v transformer.

MOTORS FOR USE WITH MODEL 225 PLANERS

6472604 — 10Hp (7.46kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 215T frame.

6472605 — 10Hp (7.46kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 215T frame.

6472702 — 15HP (11.19kw), 60 Hz, 3600 RPM (376.99 rad/s), 360v, TEFC, 254T frame.

6472703 — 15HP (11.19kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 254T frame.

(15HP Motor available on Belted Drives Only)

Infeed Motors included with Basic Machines. Specify voltage.

OPTIONAL ACCESSORIES

2068001 — Cutterhead Brake. Wt. 6 lbs (2.7 kg).
2230002 — Bed and Feed Roll Gauge. Wt. 1 lb (.45 kg).
2230003 — Cutterhead Gauge. Wt. 1 lb (.45 kg).
2230807 — Knife Grinding and Josting Attachments. For use with High Speed STEEL KNIVES. Order diamond wheel for carbide knives. Wt. 105 lbs (47.6 kg).
2393014 — Set of 36 High Speed Steel Knives.
2393015 — Set of 36 Carbide Tipped Knives.
2397043 — Shaving Hood and Insulation Kit.
3250064 — Belt Guard. Wt. 10 lbs (4.5 kg).
3710703 - 3-Grove B-Sections 5 1/2" (138.43 mm) Pulley. Wt. 6 lbs (2.7 kg).
9100001 — Carbide knife in lieu of HSS.
6900031 — Diamond Grinding Wheel.

SPECIFICATIONS

Bed: 24" x 48" (609.60 mm x 1219.20 mm)

Cutterhead: 4 7/8" (104.8 mm)

Cutting circle: 4 1/2" (111.12 mm)

Recommended cutterhead speed: 800 SFM (2438.4 m/s)

Direct drive: 4100 RPM (20.625 rpm)

Knives Size: 1/2" x 1" x 2" (4.76mm x 25.40mm x 57.15mm)

Feed rollers: 4 1/2" (111.12 mm)

Bed rollers: 4 1/2" (111.12 mm)

Variable speed range: 200 RPM (101.60 mm/s) to 1000 RPM (508.00 mm)

Maximum depth of cut: 3/4" (19.05 mm)

Stock thickness range: 1/8" (3.18 mm) to 8" (203.20 mm)

Widest planable stock: 24" (609.60 mm)

Shortest planable stock, butted: 4" (101.60 mm)

Shortest planable stock, not butted: 15" (381.00 mm)

Motors recommended for Light and medium work: 7/10 HP (5.595 kw) to 7/10 HP (5.595 kw)

Heavy duty work: 10HP (7.46kw) to 15HP (11.19kw)

Weight, export boxed: less motor (92.1 cu ft (2.6083 m³)) 2900 lbs (1356.2 kg)

Weight, export boxed: with motor (123.8 cu ft (3.506 m³)) 3115 lbs (1412.9 kg)

Weight, domestic crated, with motor: 2685 lbs (1218.6 kg)
"THE QUIET ONE" RETROFIT KIT FOR STANDARD PLANERS

Noise levels too high on your Powermatic Planer? OSHA on your back? . . . Then transform your present machine into a "Quiet One". Special conversion kits are now available containing all parts necessary for field installation to drastically reduce planer noise . . . 10 to 12 decibels or more.

Kit includes cutterhead knives, jack screws, knife retainers, bearings, and couplings or pulleys, belts as required. Shaving hood kit includes acoustical barrier lined hood plus barrier curtains and mounting hardware.

*NOTE: These kits are not designed to fit old direct Drive Planers where motor and cutterhead shaft are the same. Consult Factory.

"THE QUIET ONE" RETROFIT KIT LISTINGS

For Model 100 Planer

2397046 — Conversion kit for Model 100 Planers, including cutterhead with stagger mounted, high speed steel knives and bearings.
2397055 — Shaving Hood and Curtain kit for Model 100 Planer.

For Model 160 Planer

2397047 — Conversion kit for DIRECT DRIVE Model 160 Planers, including cutterhead with stagger mounted, high speed steel knives, bearings and special flexible coupling.
2397048 — Conversion kit for BELT Driven Model 160 Planers, including cutterhead with stagger mounted high speed steel knives, bearings, drive belts and pulleys as required.
2397056 — Shaving Hood and Curtain kit for Model 160 Planers.

For Model 180 Planer

2397049 — Conversion kit for DIRECT DRIVE Model 180 Planers, including cutterhead with stagger mounted high speed steel knives, bearings and special flexible coupling.
2397050 — Conversion kit for BELT DRIVEN Model 180 Planers, including cutterhead with stagger mounted high speed steel knives, bearings, drive belts and pulleys as required.
2397057 — Shaving Hood and Curtain kit for Model 180 Planers.

For Model 221 Planer

2397051 — Conversion kit for DIRECT DRIVE Model 221 Planers, including cutterhead with stagger mounted high speed steel knives, bearings and special flexible coupling.
2397052 — Conversion kit for BELT DRIVEN Model 221 Planers, including cutterhead with stagger mounted high speed steel knives, bearings, drive belts and pulleys as required.
2397058 — Shaving Hood and Curtain kit for Model 221 Planers.

Only the cutterhead conversion kit is required if you have NO dust collecting system. If your shop is equipped with dust collecting facilities, then order the cutterhead AND shaving hood kits. The addition of the shaving hood and curtain kits will further reduce the noise level.

For Model 225 Planer

2397053 — Conversion kit for DIRECT DRIVE Model 225 Planers, including cutterhead with stagger mounted high speed steel knives, bearings and special flexible coupling.
2397054 — Conversion kit for BELT DRIVEN Model 225 Planers, including cutterhead with stagger mounted high speed steel knives, bearings, drive belts and pulleys as required.
2397059 — Shaving Hood and Curtain kit for Model 225 Planers.

GAUGES

Cutterhead Gauge — Chrome plated plunger type gauge mounted on cast iron base. Designed to rest squarely on cutterhead for fast micrometer accuracy in setting knives. Part No. 2230007.

Bed and Feed Roll Gauge — Dual purpose . . . gauge mounted with swivel on cast iron base with leveling screws for simplified operation. Dial face rotates for easy zeroing. Part No. 2230002.
Heavy Duty
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 safety.

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

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

Choice of Straight or Gap Bed. 12" (304.80mm) stock capacity over straight bed. 16" (406.40mm) stock capacity over gap.

For Slow Start Feature—Magnetic controls with special slow start feature. Specify phase desired (See page 50)

Wood Turning Lathe Guard — is made in two sections and movable left to right — or right to left to provide maximum operator protection. 2250123 guard
FEATURES

CAPACITY: Swing 12" (304.80 mm) over straight lathe bed; 16" (406.40 mm) over gap bed. 39" (990.60 mm) between centers.

BED: One-piece construction of finest grey iron casting, rib-reinforced for perfect alignment and maximum rigidity. Standard bed length 59" (1498.60 mm).

HEADSTOCK: Available with built-in variable speed drive from 330 to 2100 RPM (34.56 rad/s to 219.91 rad/s) or with four-speed drive of 600, 1100, 1800 & 3000 RPM (62.83 rad/s, 115.19 rad/s, 188.50 rad/s & 314.16 rad/s). 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 carbon steel and precision ground for perfect running alignment and balance. Accurately milled 1" (25.40 mm)-8 thread nose is bored for No. 2 Morse Taper. Locking pin holds spindle rigid for easy faceplate removal.

TAILSTOCK: 1" (25.40 mm) tailstock spindle is bored for a No. 2 Morse Taper. The center may be easily removed by using the large hand-wheel and tailstock 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 cover at top of lathe head and cabinet door.

LATHE BASE: Ruggedly built of heavy-gauge, reinforced steel. Designed for complete vibration-free operation. Large hinged door for quick access to motor and tool storage area in base. Full length chip deflector.

MOTOR SWITCH: Pushbutton type mounted away from exposed operational area to prevent accidental engagement. Slow start standard on variable speed models.

STANDARD EQUIPMENT

MODEL 45 LATHE: One 6" (152.40 mm) Tool Rest, one 12" (304.80 mm) Tool Rest, one Cup Center, one Spur Center, one Faceplate Wrench, one 7" (177.8 mm) Face Plate, one Center Drift Rod, Index Wheel, Tool Support, Tailstock Wrench, Motor Base, V-belt, Motor Pulley and Guard. Less: Motor and Controls.

BASIC MACHINES

1450250 — Model 45 Gap Bed Lathe, with all standard equipment. 4-speed.
1450260 — Model 45 Straight Bed Lathe, with all standard equipment. 4-speed.

1450270 — Model 45 Gap Bed Lathe, with all standard equipment. Variable Speed and Slow start. (Magnetic Controls only!)
1450280 — Model 45 Straight Bed Lathe, with all standard equipment. Variable Speed and Slow start. (Magnetic Controls only!)

MOTORS FOR USE WITH MODEL 45 LATHES

1 Phase
6470700 — 3/4HP (.56kw), 60 Hz, 1800 RPM (188.5 rad/s), 115/230v, TEFC, 56 frame.

3 Phase
6470702 — 3/4HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/s), 575v, TEFC, 56 frame.
6470707 — 3/4HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/s), 230/460v, TEFC, 56 frame.
6470712 — 3/4HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/s), 200v, TEFC, 56 frame.

CONTROLS FOR USE WITH MODEL 45 LATHES

1 Phase
2398114 — Pushbutton Switch, 115/230v.
2398144 — Magnetic Controls, 115/230v.
2398152 — Magnetic Controls. 115/230v. w/24v transformer.

3 Phase
2398115 — Pushbutton Switch, 200/230/460/575v.
2398150 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100003 — Conduit in lieu of standard wiring.

*May be specified with 110v Transformer.

Optional Accessories (See Page 52)

SPECIFICATIONS

Overall Length ........................................ 63" (1600.20 mm)
Distance between centers .......................... 39" (990.60 mm)
Swing over bed ........................................ 12" (304.80 mm)
Swing over gap ........................................ 16" (406.40 mm)
Width of gap .......................................... 4½" (114.30 mm)
Variable Speed range .................................. 330 to 2100 RPM (34.56 rad/s to 219.91 rad/s)
Tailstock Quill travel ................................ 3¾" (95.25 mm)
Step pulley, four speed drive ...................... 600 (62.83 rad/s), 1100 (115.19 rad/s), 1800 (188.50 rad/s), 3000 RPM (314.16 rad/s)
Motor recommended .................................. 3/4HP (.56 kw)
Height of bed from floor .............................. 36" (91.40 mm)
Weight, domestic crated with stand and motor ... 439 lbs (199.1 kg) App.
Export boxed, with stand and motor (49.4 cu ft (1.398 m³)) .... 540 lbs (244.9 kg) App.

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

www.OzarkToolManuals.com
EXTRA HEAVY DUTY

The Model 90 Wood turning lathe is available in a straight or gap bed version with one of three speed ranges, 215-1375 RPM (22.5 - 144.0 rad/s) for large diameter wood turning, 300 - 2100 RPM (34.6 - 219.9 rad/s) for general purpose turning or, 450 - 3000 RPM (48.2 - 314.2 rad/s) for metal spinning. The position of the speed control handle determines the spindle RPM (rad/s) within each infinite variable speed range available. All machines are equipped with a variable speed range which gives quick and precise RPM (rad/s) settings and the ability to change speeds while under power. This system eliminates the inconveniences of step cone pulley drives. Select the speed best suited for the operation without compromise. This high performance drive is built with a ruggedness that will meet all requirements.

The Model 90 Lathe Drive System is a double reduction drive from the motor, through a jackshaft, to the headstock spindle. Isolation of the motor mount and the use of a jackshaft combine to minimize vibration.

Exclusive on the Model 90! A 5-position limit stop to enforce pre-set speeds. An asset to the school instructor who insists on good safety practices, or the foreman who pre-selects the Lathe speeds for his operators.

Choice of Straight or Gap Bed. 12" (304.80mm) stock capacity over straight bed, 17" (431.80mm) stock capacity over gap.
POWERMATIC®

MODEL

12" LATHE

FEATURES

CAPACITY: Swing 12" (304.80 mm) over straight bed; 17" (431.80 mm) over gap bed. Standard bed affords full 38" (965.20 mm) between centers.

BED: One-piece construction from finest grey iron casting, rib-reinforced for perfect alignment and maximum rigidity. Standard length: 60" (1524.00 mm).

HEADSTOCK: Has built-in variable speed drive to provide infinite variation covering the full speed range of the basic machine.

SPINDLE: Machined from carbon steel and precision ground for perfect running alignment and balance. Spindle nose is threaded 1 1/2" (38.10 mm)-8 and bored for No. 2 Morse Taper. Outboarded end is threaded 1 1/4"-8 (28.56 mm) 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.

TAILSTOCK: The 1 1/2" (34.92 mm) tailstock spindle is bored for No. 2 Morse Taper. Center may be easily removed by using the large hand-wheel and tailstock screw.

MOTOR DRIVE: The motor bracket is isolation mounted in the top of the storage compartment in the left pedestal. The TEFC motor belt drives the jackshaft on which the driving variable speed sheave is mounted. This shaft in turn, belt drives the spindle. Drive and motor are readily accessible for service or replacement.

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 cam. Lathe can be started only at slow speed.

STANDARD EQUIPMENT

1 — Center Drift Rod
1 — Tool Support Base
1 — Tailstock Wrench
1 — Safe Stop Speed Limiter
1 — Faceplate Wrench
1 — 6" (152.40 mm) Tool Rest
1 — 12" (304.80 mm) Tool Rest
1 — Cup Center
1 — Spur Center
1 — 3" (76.20 mm) Faceplate

1 — Motor Pulley
1 — Set Allen Wrenches
1 — Guard
1 — Combination Faceplate and Handwheel
1 — 7" (177.8 mm) Faceplate

BASIC MACHINES

1900310 — Model 90 Gap Bed Lathe, with all standard equipment, 330 - 2100 RPM (34.6 - 219.9 rad/s). Less: Motor and Controls.
1900320 — Model 90 Straight Bed Lathe, with all standard equipment, 330 - 2100 RPM (34.6 - 219.9 rad/s). Less: Motor and Controls.
1900330 — Model 90 Gap Bed Lathe, with all standard equipment, 460 - 3000 RPM (482.0 - 314.2 rad/s). Less: Motor and Controls.

1900340 — Model 90 Straight Bed Lathe, with all standard equipment, 460 - 3000 RPM (482.0 - 314.2 rad/s). Less: Motor and Controls.
1900350 — Model 90 Gap Bed Lathe, with all standard equipment, 215 - 1375 RPM (22.5 - 144.0 rad/s). Less: Motor and Controls.
1900360 — Model 90 Straight Bed Lathe, with all standard equipment, 215 - 1375 RPM (22.5 - 144.0 rad/s). Less: Motor and Controls.

MOTORS FOR USE WITH MODEL 90 LATHES

1 Phase
6471022 — 1HP (.746 kw), 60 Hz, 1800 RPM (188.5 rad/s), 115/230v, TEFC, 56 frame.

3 Phase
6471036 — 1HP (.746 kw), 60 Hz, 1800 RPM (188.5 rad/s), 200v, TEFC, 56 frame.
6471037 — 1HP (.746 kw), 60 Hz, 1800 RPM (188.5 rad/s), 230/460v, TEFC, 56 frame.

CONTROLS FOR USE WITH MODEL 90 LATHES

1 Phase
23984/4 — Magnetic Controls, 115/230v.
2398476 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase
2398473 — Magnetic Controls, 200/230/400/575v.
2398475 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100003 — Conduit in lieu of Standard Wiring.

"May be ordered with 110v transformer.

Optional Accessories-(See Page 52)

SPECIFICATIONS

Overall length ........................................ 67" (1701.80 mm)
Distance between centers .................................. 38" (965.20 mm)
Inboard spindle (6 thread) ................................ 1 1/2" (38.10 mm)
Outboard spindle (6 thread) ................................ 1 1/4" (28.56 mm)
Swing over bed ........................................... 12" (304.80 mm)
Swing over gap ............................................. 17" (431.80 mm)
Tailstock Quill travel ..................................... 4 1/4" (111.12 mm)
Width of gap ............................................... 5 1/4" (133.35 mm)

General Purpose Turning ........................... 330 - 2100 RPM (34.6 - 219.91 rad/s)
Metal Spinning ........................................ 460 - 3000 RPM (48.17 - 314.16 rad/s)
Large Diameter Wood Turning ........................... 215 - 1375 RPM (22.5 - 144.00 rad/s)
Height of bed from floor .................................. 36" (914.40 mm)
Weight, net with stand .................................. 550 lbs (249.4 kg)
Weight, domestic crated with stand ......................... 623 lbs (282.5kg)
Export boxed with stand (55.2 cu ft) ..................... 755 lbs (342.4 kg)
SPECIAL HIGH PERFORMANCE TURNING TOOLS
Require less tool care than standard tools.
6829019 — For #45 and #90 Lathe, wt. 4 lbs (1.8kg).

TOOL SUPPORT BASE:
For use when making extra long turnings requiring 24" (609.60mm) tool support.
2083011 — For #45 and #90 Lathe, wt. 12 lbs (5.4kg).

OUTBOARD TURNING STAND
Floor stand with offset tool holder for turning pieces larger than 12" (304.80mm) diameter.
2759009 — For #45 and #90 Lathe, wt. 75 lbs (34.0kg).

FACE PLATE #90 #45
3" (76.20 mm)
R.H. face plate 2 lbs (9kg) 3193005 3193001
4" (101.60 mm)
R.H. face plate 2 lbs (9kg) 3193004 3193003
7" (177.8 mm)
R.H. face plate 3½ lbs (1.58 kg) 3193035 3193034
8½" (215.90 mm)
Outboard face plate 3193010 3193016

LATHE GUARD 2250123 — For Model 45 & 90.

SLOW SPEED CONVERSION KIT
(Model 90 only) 2397033
(330-2100 RPM)
(Model 90 only) Pre-1960 2397037
330 to 2100 RPM

CHUCKS #90 and #45
3" (76.20 mm) screw chuck, threaded. 1 lb (45 kg)
(Model 90 only) 2083004
½" (12.70 mm) three-jaw chuck 6118013
No. 2 Taper Arbor, 1½ lbs (.7 kg) 6023003

TOOL SUPPORTS #90 and #45 Lathe
Right angle tool support
3 lbs. (1.3 kg) 3658007
6" (152.40 mm) tool support 1½ lbs (.7 kg) 3658010
12" (304.80 mm) tool support 2 lbs (.9 kg) 3658009
Contour tool support 3658021
24" (609.60mm) tool support 5 lbs (2.3 kg) 2658007
12" (304.80 mm) Metal spinning tool rest 3 lbs (1.3 kg) 2397063
Offset tool support 3 lbs (1.3 kg) 2658003
Less Base

CENTERS: #90 and #45 Lathe
Ball bearing tailstock center
1 lb (45 kg) 2084002
1" (25.40 mm) spur center
4 oz (1 kg) 2084001
½" (19.05 mm) cup center
4 oz (1 kg) 6112002

The Wood turning Lathe Guard is designed for operator safety. Made in two sections and moveable left to right or right to left, protection is afforded the outboard faceplate by moving the left section of the guard to the extreme left. For protection of the inboard faceplate, this section is moved to the extreme right. Full work range protection is afforded by using both guard sections in the extreme right position.

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
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 strength 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!

SPEEDS ACCURATE KNIFE-SETTING

Superior Powermatic Cutterhead 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 shims (B) with end-wrench. Cutterhead mounted in over-size sealed ball bearings. Precision ground and balanced.

"Skew" or Shear Cutting is easily accomplished by swiveling fence. This practice especially desirable on materials such as curly maple, cherry and fir.

Adjustable Outfeed Table. Simplifies alignment of Cutterhead with outfeed table. Cuts knife adjustment time in half. (See page 58 for #150 Gage listing).

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.

Positive Fence Hold-Down Clamp. Adjust fence to desired angle and lock the hold down clamp. Fence will then maintain rigid horizontal alignment with the table.
MODEL 50
6" JOINTER

FEATURES

TABLES: Fully adjustable infeed and outfeed tables are precision mounted on dove-tailed ways to form extra long 48" (1219.20mm) 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 maintains 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 table.

CUTTERHEAD: Controlled Chip jack-screw type with speedy, accurate knife adjustment. Equipped with 3 high speed, heat treated M-2 tool steel knives and rugged cutterhead of the finest carbon steel, precision ground and balanced. Features a full 3" (76.20 mm) cutting arc and quiet running with a minimum of grain pull out.

STANDARD EQUIPMENT

JOINTER: set of 3 heat treated M-2 high speed tool steel knives, arbor pulley, center mounted fence, cutterhead guard, motor pulley, belt and wrenches, less:

1500030 — Model 50, 6" (152.40 mm) Jointer with all standard equipment. Less: Motor, controls and enclosed steel stand.

BASIC MACHINES

1 Phase

6470801 — 3HP (.560kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 56 frame.

3 Phase

6470809 — 3HP (.560kw), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 56 frame.

6470810 — 3HP (.560kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 56 frame.

MOTORS FOR USE WITH MODEL 50 JOINTER

1 Phase

2988386 — Magnetic Controls, 115/230v.

2988386 — Pushbutton Switch, 115/230v.

2988487 — Magnetic Controls, 115/230v, w/24v transformer.

2 Phase


2988371 — Pushbutton Switch, 200/230/460/575v.

2988435 — Magnetic Controls, 200/230/460/575v, w/24v transformer. 9100033 — Conduit in lieu of standard wiring.

CONTROLS FOR USE WITH MODEL 50 JOINTER

OPTIONAL ACCESSORIES

2230001 — Quick Set Knife Gauge ........................................... Wt. 2 lbs (.9 kg)
2397076 — Cutterhead retrofit kit, controlled chip, 6" .................................... Wt. 6 lbs (2.7 kg)
2759018 — Jointer Stand only ........................................... Wt. 63 lbs (28.6kg)
6077029 — Belt for 3600 RPM (376.99 rad/s) motor ........................................... Wt. 8oz (23 kg)

6427001 — 3 Heat treated M-2 high speed tool steel knives ........................................... Wt. 1 lb (.45 kg)
6807033 — Motor Pulley 3600 RPM (376.99 rad/s) 3.5" (88.90 mm) diameter.  (Specify bore) ........................................... Wt. 1 lb (.45 kg)

SPECIFICATIONS

Table ............................................................................. 7 x 48" (177.80 mm x 1219.20 mm)
Head cutting arc ........................................................................... 3 (76.20 mm)
Knives (3) H-2 steel ........................................................................

1/2 x 1/8 x 6 (3.18 mm x 19.05 mm x 152.4 mm)

Speed of head (recommended) ........................................... 5000 RPM (523.6 rad/s)
Knife-cuts-per-minute ........................................... 15,000
Maximum depth of cut ........................................... 1/2 (12.70 mm)
Maximum rabbeting cut ........................................... 0 to 1/2 x 6 (12.70 mm x 152.4 mm)
Fence tilt, right or left ........................................... 45°
Height, less stand ........................................... 14" (355.60 mm)
Height, with stand ........................................... 20" (51.50 mm)
Motor recommended ........................................... 1/2 HP (.560 kw)

Weight, domestic crated, with stand & motor ........................................... 290 lbs (131.5 kg)
Weight, domestic crated, less stand ........................................... 190 lbs (86.2 kg)
Weight, domestic crated, with stand ........................................... 265 lbs (120.2 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

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ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

www.OzarkToolManuals.com
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.

Positive Fence Hold-Down Clamp. Adjust fence to desired angle and lock the hold-down clamp. Fence will then maintain rigid horizontal alignment with the table.

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, or is removable for planing wide stock.

Exclusive Swing Away Guard remains attached to machine during rabbet operations.

Adjustable Outfeed Table. Simplifies alignment of cutterhead with outfeed table. Cuts knife adjustment time in half. (See page 84 for #150 Gage listing).

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

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT 55
TABLES: Fully adjustable infeed and outfeed tables are mounted on dove-tailed ways to form king-size capacity 64" (1625.60mm) table surface. 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: Controlled chip, quiet running jackscrew type with speedy, accurate knife adjustment. Equipped with 3 high speed, heat treated M-2 tool steel knives and rugged cutterhead of the finest carbon steel, precision ground and balanced. Cutting arc is full 3" (76.20 mm) diameter mounted in over-size dust-sealed ball bearings for high efficiency in continuous operation at 5,000 RPM (523.6 rad/s).

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 ¾HP (560 kw), 1HP (.746 kw) 1½HP (1.119kw), 1 or 3-phase motor.

STANDARD EQUIPMENT

JOINTER: Set of 3 high speed, heat treated M-2 tool steel knives. 2 groove arbor pulley, center mounted fence, cutterhead, guard, motor pulley, belts and wrenches. Less: Stand motor and controller. (NOTF: Belts and motor pulley supplied for 3600 RPM (376.99 rad/s).)

BASIC MACHINES

1610030 — Model 60, 8" (203.20mm) Jointer with all standard equipment. Less: Motor, controls, and enclosed steel stand.

MOTORS FOR USE WITH MODEL 60 JOINTERS

1 Phase
6470801 — ½HP (560kW), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 56 frame.
6471100 — 1HP (.746 kW), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 56 frame.
6471400 — 1½HP (1.119kW), 60 Hz, 3600 RPM (376.99 rad/s), 115/230v, TEFC, 56 frame.

3 Phase
6470809 — ¾HP (560kW), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 56 frame.
6470810 — ¼HP (.560kW), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 56 frame.
6471118 — 1HP (.746 kW), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 56 frame.
6471119 — 1½HP (1.119kW), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 56 frame.
6471412 — 1½HP (1.119kW), 60 Hz, 3600 RPM (376.99 rad/s), 200v, TEFC, 56 frame.
6471413 — 1½HP (1.119kW), 60 Hz, 3600 RPM (376.99 rad/s), 230/460v, TEFC, 56 frame.

CONTROLS FOR USE WITH MODEL 60 JOINTERS

1 Phase
2398336 — Magnetic Controls, 115/230v.
2398369 — Pushbutton Switch, 115/230v.
*2398487 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase
2398230 — JIC Controls, 200/230/460/575v.
2398371 — Pushbutton Switch, 200/230/460/575v.
*2398435 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100003 — Conduit in lieu of Standard Wiring.

OPTIONAL ACCESSORIES

2230001 — Quick Set Knife Gauge ................. Wt. 2 lbs (.9 kg)
2397077 — Cutterhead retro kit, controlled chip, 8" Wt. 8 lbs (3.6 kg)

2759011 — Jointer Stand only ..................... Wt. 65 lbs (29.5 kg)
6427002 — 3 heat treated M-2 high speed tool steel knives .................... Wt. 1 lb (.45 kg)

SPECIFICATIONS

Table ............ 8½" x 64" (215.90mm x 1625.60 mm)
Head cutting arc .... 3" (76.20 mm)
Knives (3) .......... ¾" x ¾" x 8" (3.18 mm x 19.05 mm x 203.20 mm)
Speed of head (recommended) ........... 5000 RPM (523.6 rad/s)
Knife-cuts-per-minute ....................... 15,000
Maximum depth of cut ........... ½" (12.70mm)
Maximum rabbeting cut ........... 0" up to ½" x 8" (12.70 mm x 203.20 mm)
Fence size overall ........... 4" x 34½" (101.60mm x 876.30 mm)
Height, less stand ........... 17" (431.80mm)
Height, with stand ........... 40" (1016.00mm)
Motor recommended .......... ¾HP (560kW) to 1½HP (1.119kw)
Weight, domestic crated, less stand ........... 322 lbs (146.0kg)
Weight, domestic crated, with stand ........ 400 lbs (181.4kg)
Weight, domestic crated, with stand and motor ........ 440 lbs (199.5kg)

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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 micrometer calibrated and are easy to read on this foolproof 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 resharpened blade in perfect cutting position . . . adjust bed rollers fast and sure for top feed performance. 2230001 — wt. 2 lbs. (.9kg)
POWERMATIC'S LATEST ADDITION TO A RESPECTED LINE OF SANDERS

The Powermatic Model 30-B Combination Belt and Disc Sander is a step in the direction of pollution control with optional Dust Collector. The 30-B Sander can be used for both wood and metal sanding, and, with its own dust collection system, eliminates the necessity of a separate dust control unit. Dust disposal is easily accomplished with the removable drawer.

Rugged cast iron construction virtually eliminates vibration of all contour, angle and flat sanding jobs.

The standard tilting table (45° down to 15° up) and the swing away end guard (for easy access to the contour sanding surface), along with the optional tilting fence and miter gauge, permit rapid set-ups without the need for special tools.

Improve the quality of your work with a dust free environment!
FEATURES

TILTING TABLE: Big 7" x 14 ¼" (117.8 mm x 438.2 mm) tilting table is slotted for accurate miter gauge adjustment. Easy to tilt and lock at any angle from 0° to 45° down or up. Change easily from belt to disc operation.

DRUMS: 4½" (114 mm) in diameter, both drums are mounted in big sealed ball bearings for extra smooth operation and years of trouble free service. Idler drum accurately maintains belt tension. Easy-to-reach belt controls assure positive and accurate alignment.

BELT: Accommodates 6" x 48" (152 mm x 1219 mm) belt. Entire belt assembly may be quickly adjusted for operation at 4 positions from horizontal to vertical. Outer belt guard may be swung away for contour or edge sanding. 2850 SFM (14.48 m/sec).

SANDING DISC: Full size 12" (304.8 mm) disc is more than ample for most sanding and polishing operations. Dynamically balanced for vibration-free performance. 2400 RPM.

GUARDS: Only the moving sanding surfaces are exposed. All other moving parts, including belt assembly are completely guarded.

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

DUST COLLECTOR: The optional Dust Collector stand is self-contained. 300 CFM to help meet OSHA requirements. No hoses to clog or burn. 20 sq. ft. of filter area, external shaker and clean out drawer are added features.

STANDARD EQUIPMENT

Model 30B Belt and Disc Sander: Interchangeable, tilting table, belt and disc guards, exhaust outlets, work stop, sanding belt, disc, arbor pulley, set of wrenches, belt and motor pulley. Less: Motor, Controls and Stand.

1300131 — Model 30 B Belt and Disc Sander with all standard equipment. Less: Motor, Controls and Stand.

BASIC MACHINE

1 Phase

6471301 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), 115/230v, TEFC, 145T frame.

3 Phase

6471304 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), 230/460 TEFC, 145T frame.

MOTORS

6471317 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), 575v, TEFC, 145T frame.

6471322 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), 200v, TEFC, 145T frame.


6498530 — Magnetic Controls, 115/230v.

6498532 — Magnetic Controls, 115/230v w/24v transformer.

*May Be Specified With 110v Transformer

3 Phase

2308230 — JIC Controls, 200/230/460/575v.


2308532 — Magnetic Controls, 200/230/460/575v, w/24v transformer.

9100003 — Conduit in lieu of standard wiring.

OPTIONAL ACCESSORIES

2093002 — Stand w/Dust Collector

2195004 — Fence assembly. Wt. 14 lbs (6.36 kg).

2195020 — Non tilting fence assy. Wt. 2 lbs (0.92 Kg).

24/1010 — Miter gauge. Wt. 3½ lbs (1.59 Kg).

2759039 — Stand Assembly w/o Dust Collector

2797134 — Table Assembly. Wt. 22 lb (10.22 kg).

3127012 — Sanding disc, less flange.

6012001 — 1 pint disc cement. Wt. 1 lb. (.46 kg).

6078001 — Metal sanding aluminum oxide belt, 100 grit, fine. Wt. 8 ozs. (.23 kg).

6078002 — Metal sanding aluminum oxide belt, 50 grit, coarse. Wt. 8 ozs. (.23 kg).

6078003 — Wood sanding garnet belt, 80 grit, fine. Wt. 8 ozs. (.23 kg).

6078004 — Wood Sanding garnet belt, 40 grit, coarse. Wt. 8 ozs. (.23 kg).

6206001 — Wood sanding disc, 60 grit, fine. Wt. 6 ozs. (.23 kg).

6206002 — Wood sanding disc, 40 grit, coarse. Wt. 6 ozs. (.23 kg).

6206003 — Metal sanding aluminum oxide disc, 100 grit, fine. Wt. 8 ozs. (.23 kg).

6206004 — Metal sanding aluminum oxide disc. 50 grit, coarse. Wt. 8 ozs. (.23 kg).

3038003 — Replacement filter (after July 1980).

SPECIFICATION

Speed

Belt ........................................ 2850 SFM (14.48 m/sec)
Disc ........................................ 2400 RPM (251.28 rad/sec)

Belt

Size ........................................ 6" x 48" (152 mm x 1219 mm)
Support Table Under Belt ............... 6½" x 14½" (165 mm x 368 mm)
Working height in horizontal position . 37½" (952.5 mm)

Disc

Size ........................................ 12" (304.8 mm) Dia.

Table

Size ........................................ 7" x 17¼" (117.8 mm x 438.2 mm)
Tilt ........................................ 45° down, 15° up

Drums

Size ........................................ 4½" x 6½" (114 mm x 162 mm)
Distance between drum centers .......... 17" (431.8 mm)

Dimensions

Height with stand or dust collector ....... 41½" (1057 mm)
Length with stand or dust collector ....... 33½" (844.5 mm)
Width ........................................ 22½" (571.5 mm)

Weight

Basic Machine with motor and stand .... 242 lbs (109.9 kg)
Basic machine less stand .................. 152 lbs (69 kg)
**MODEL 33-B 6" BELT SANDER**

**FEATURES**

**TILTING TABLE:** Big 7" x 17½" (177.8 mm x 438.2 mm) tilting table is slotted for accurate miter gauge attachment. Easy to tilt and lock at any angle from 0° to 45° out or 15° in.

**DRUMS:** 4½" (114.3 mm) in diameter, both drums are mounted with sealed ball bearings for extra smooth operation and years of trouble free service. Idler drum accurately maintains belt tension. Easy-to-reach belt controls assure positive and accurate alignment.

**BELT:** Accommodates 6" x 48" (152 mm x 2438 mm) belt. Entire belt assembly may be quickly adjusted for operation at 4 positions from horizontal to vertical. Outer belt guard may swing away for contour on edge sanding.

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

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

**DUST COLLECTOR:** The optional Dust Collector stand is self-contained. 300 CFM to help meet OSHA requirements. No hoses to plug or burn. 20 sq ft. of filter area, external shaker and clean out drawer are added features.

**STANDARD EQUIPMENT**

**BELT SANDER:** 2-way tilting table, guards, arbor pulley, exhaust outlet, work stop, sanding belt, set of wrenches, motor pulley and belt. Less: Motor, Controls and Stand.

**BASIC MACHINE**

1330111 — Model 33-B Belt Sander with all standard equipment. Less: Motor, Controls and Stand

**MOTORS**

1 Phase
6471301 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/sec), 115/230v, TEF, 145T frame.

3 Phase
6471304 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/sec), 230/460v, TEF, 145T frame.

6471317 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/sec), 575v, TEF, 145T frame.

6471322 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/sec), 200v, TEF, 145T frame.

**CONTROLS**

1 Phase
2398530 — Magnetic Controls, 115/230v.
2398532 — Magnetic Controls, 115/230v w/24v transformer.

3 Phase
2398239 — JIC Controls, 200/230/460/575v.
2398533 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
910003 — Conduit in lieu of standard wiring.

**OPTIONAL ACCESSORIES**

2093002 — Stand w/dust collector
2195004 — Tilting Fence assembly. Wt. 14 lbs. (6.36 kg).
2195020 — Non Tilting fence assy. Wt. 2 lbs (1.13 kg).
2471010 — Miter Gauge. Wt. 3½ lbs (1.59 kg).
2759039 — Stand Assembly w/o dust collector
6078001 — Metal standing aluminum oxide belt, 100 grit, fine. Wt. 8 ozs. (.23 kg).
6078002 — Metal sanding aluminum oxide belt, 60 grit, coarse. Wt. 8 ozs. (.23 kg).
6078003 — Wood sanding garnet belt, 80 grit, fine. Wt. 8 ozs. (.23 kg).
6078004 — Wood sanding garnet belt, 40 grit, coarse. Wt. 8 ozs. (.23 kg).
3038003 — Replacement filter (after July 1980).

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Belt speed</th>
<th>2850 SFM (14.48 m/s)</th>
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<tbody>
<tr>
<td>Standing belt</td>
<td>6&quot; x 48&quot; (152 mm x 2438 mm)</td>
</tr>
<tr>
<td>Belt drum</td>
<td>4½&quot; x 6½&quot; (114.3 mm x 161.0 mm)</td>
</tr>
<tr>
<td>Table</td>
<td>7&quot; x 17½&quot; (177.8 mm x 438.2 mm)</td>
</tr>
<tr>
<td>Table Tilt</td>
<td>45° Down 15° up</td>
</tr>
<tr>
<td>Distance between drum centers</td>
<td>17&quot; (431.8 mm)</td>
</tr>
</tbody>
</table>

| Dimensions | Height w/stand or dust collector | 37½" (952.5 mm) |
| Length w/stand or dust collector | 33½" (848.6 mm) |
| Width | 26½" (675.5 mm) |
| Weight | Basic Machines w/motor and stand | 224 lbs. (101.7 kg) |
| Basic machines less stand | 152 lbs. (69 kg) |

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

www.OzarkToolManuals.com
MODEL 35-B
12" DISC SANDER

FEATURES

TILTING TABLE: Extra-wide 7" (178 mm x 17¼" (438 mm)) tilting table is slotted for accurate miter gauge attachment. Easy to tilt and securely lock at any angle 0° to 45° down, 15° up.

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

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. ¾ HP (.559 kw) or 1½ HP (1.11 kw), 1 or 3-phase motor available.

SANDING DISC: full size 12" (304.8 mm) disc satisfies most sanding and polishing operations supplied with garnet disc (for wood, plastic, light metals, etc.) or Aluminum oxide disc (for heavy ferrous metals). Specify disc type. 1800 RPM (188.5 rad/sec).

STANDARD EQUIPMENT

Disc Sander: 2-way tilting table, disc, guard, exhaust outlet and 1 sanding disc. Less: Motor and Controls.

BASIC MACHINES

1350032 — 12" (304.8 mm) Disc Sander with all standard equipment & stand. Less: Motor and Controls.

MOTOR

1 Phase
6470700 — ¾ HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 115/230v, TEFC, 56 frame.
6471022 — 1 HP (.75 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 115/230v, TEFC, 56 frame.
6471306 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM, 115/230 TEFC, 56 frame.
6470702 — ¾ HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 575v, TEFC, 56 frame.

3 Phase
6470707 — ¾ HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 230/460v, TEFC, 56 frame.
6470712 — ¾ HP (.56 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 200v, TEFC, 56 frame.
6470706 — 1 HP (.75 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 200v, TEFC, 56 frame.
6470737 — 1 HP (.75 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 230/460v, TEFC, 56 frame.
6471324 — 1½ HP (1.12 kw), 60 Hz, 1800 RPM (188.5 rad/sec), 230/460v, TEFC, 56 frame.

CONTROLS

1 Phase
2398200 — Manual Switch, 115v.
2398340 — Magnetic Controls, 115/230v.
2398499 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase

OPTIONAL ACCESSORIES

2124007 — Disc assembly with Flange and set screws. Wt. 5 lbs (2.27 kg).
2471010 — Miter gauge. Wt. 3½ lbs (1.59 kg).
2799003 — Steel floor stand, totally enclosed. Wt. 50 lbs (22.7 kg).
3170122 — Sanding disc, less flange.
6012001 — 1 pint disc cement. Wt. 1 lb (45 kg).

6206002 — Garnet Disc for wood, 12" (304.8 mm) diameter, 40 grit, coarse. Wt. 8 ozs (23 kg).
6206004 — Aluminum oxide disc for metal, 12" (304.8 mm) diameter, 50 grit, coarse. Wt. 8 ozs (23 kg).
1370000 — 300 CFM self powered dust collector (115v single phase).

"May Be Ordered With 110v Transformer"
**POWERMATIC® MODEL 35-B 12” DISC SANDER**

**SPECIFICATIONS**

Floor Model:
- Width .................. 17¼” (451 mm)
- Height .................. 46½” (1181 mm)
- Front to Rear ........... 18½” (470 mm)
- Motor recommended ....... ¾ HP (50 kw) or 1½HP (1.12 kw) 1 or 3 phase
- Motor arbor ............... ⅜” (15.9 mm)

Table .................. 7” (18 cm) x 17½” (438 mm)
- Table tilt .................. 45° down 15° up
- Sanding disc ............... 12” (304.8 mm)
- Weight, domestic crated, less stand ........... 105 lbs. (47.7 kg)
- Weight, domestic crated, with stand .......... 206 lbs. (93.5 kg)

---

**PEDESTAL AND BENCH GRINDERS**

Another HIGH PERFORMANCE machine that symbolizes Professional Craftsmanship

ASSURANCE OF PERFORMANCE

9 MODELS FOR PRECISION GRINDING

---

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

www.OzarkToolManuals.com
ASSURANCE OF PERFORMANCE
9 MODELS FOR PRECISION GRINDING

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. (These are not eye shields.)
MOTOR: Totally enclosed for long life and maximum safety. 1/2HP (3.73 kw); 3/4HP (.560kw), 1HP (.746 kw) and 2HP (1.492 kw), 1 or 3-phase available.
When ordering specify voltage.

STANDARD EQUIPMENT

MODEL 2100 BENCH GRINDER: Steel Guards, 2 Spark Deflectors, 2 Adjustable Tool Rests, 2 Grinding Wheels (1 fine, 1 coarse), Toggle Switch in base and Cord. Totally Enclosed Motor. (As selected from options below.)

STANDARD MACHINES

1210010 — Bench Grinder, with all standard equipment and totally enclosed 1/2 HP (.373 kw), 1 Phase, 115 or 230 volt (specify), 1800 RPM (108.50 rad/s) Motor.
1210020 — Bench Grinder, with all standard equipment and totally enclosed 3/4 HP (.560 kw), 3 Phase, 230 or 460 volt (specify), 1800 RPM (186.50 rad/s) Motor.
1210030 — Bench Grinder, with all standard equipment and totally enclosed 1 HP (.746 kw), 1 Phase, 115 or 230 volt (specify), 3000 RPM (375.99 rad/s) Motor.
1210040 — Bench Grinder, with all standard equipment and totally enclosed 1 HP (.746 kw), 3 Phase, 230 or 460 volt (specify), 3000 RPM (375.99 rad/s) Motor.
1210050 — Bench Grinder, with all standard equipment and totally enclosed 1 HP (.746 kw), 1 Phase, 115 or 230 volt (specify), 3600 RPM (550.00 rad/s) Motor.
1210060 — Bench Grinder, with all standard equipment and totally enclosed 1 HP (.746 kw), 3 Phase, 230 or 460 volt (specify), 3600 RPM (375.99 rad/s) Motor.
1210070 — Bench Grinder, with all standard equipment and totally enclosed 1 HP (.746 kw), 1 Phase, 115 or 230 volt (specify), 1800 RPM (186.50 rad/s) Motor.
1210080 — Bench Grinder, with all standard equipment and totally enclosed 1 HP (.746 kw), 3 Phase, 230 or 460 volt (specify), 1800 RPM (186.50 rad/s) Motor.
1210140 — Bench Grinder with all standard equipment, totally enclosed 2 HP (1.492 kw), 3 Phase, 200, 230 or 460 volt (specify), 1800 RPM (188.50 rad/s) Motor. (WHEELS, NOT INCLUDED)

FOR FLOOR STANDS, OPTIONAL ACCESSORIES AND CONTROLS (SEE PAGE 66)
## Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Power Rating</th>
<th>Speed RPM</th>
<th>Distance between Wheels</th>
<th>Wheel Diameter</th>
<th>Shaft Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12100010 &amp; 20</td>
<td>1/2 HP (.373kw)</td>
<td>1800 RPM (188.50 rad/s)</td>
<td>15&quot; x 1/2&quot; (393.70 mm)</td>
<td>7&quot; x 1&quot; (177.80 mm x 25.40 mm)</td>
<td>1/2&quot; (15.88 mm)</td>
</tr>
<tr>
<td>1210030 &amp; 40</td>
<td>1/2 HP (.373kw)</td>
<td>3600 RPM (375.99 rad/s)</td>
<td>15 1/2&quot; x 11/2&quot; (393.70 mm x 419.10 mm)</td>
<td>7&quot; x 1&quot; (177.80 mm x 25.40 mm)</td>
<td>1/2&quot; (15.88 mm)</td>
</tr>
<tr>
<td>1210050 &amp; 60</td>
<td>3/4 HP (.560 kw)</td>
<td>3600 RPM (375.99 rad/s)</td>
<td>16 1/2&quot; x 11/2&quot; (419.10 mm x 203.20 mm)</td>
<td>8&quot; x 1&quot; (203.20 mm x 25.40 mm)</td>
<td>1/2&quot; (15.88 mm)</td>
</tr>
</tbody>
</table>

### Weight:
- Domestic crated, bench model
  - 1/2 HP (.373kw)
    - 71 lbs (32.2 kg)
  - 3/4 HP (.560kw)
    - 109 lbs (49.4 kg)
  - 1 HP (.746kw)
    - 140 lbs (63.5 kg)
  - 2 HP (1.492kw)
    - 276 lbs (125.2 kg)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Power Rating</th>
<th>Speed RPM</th>
<th>Distance between Wheels</th>
<th>Wheel Diameter</th>
<th>Shaft Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12100070 &amp; 80</td>
<td>1 HP (.746 kw)</td>
<td>1800 RPM (188.50 rad/s)</td>
<td>18&quot; (475.20 mm)</td>
<td>10&quot; x 1&quot; (254.00 mm x 25.40 mm)</td>
<td>3/4&quot; (22.22 mm)</td>
</tr>
<tr>
<td>1210140</td>
<td>2 HP (1.492 kw)</td>
<td>1800 RPM (188.50 rad/s)</td>
<td>23 1/4&quot; (603.25 mm)</td>
<td>12&quot; x 2&quot; (304.80 mm x 50.80 mm)</td>
<td>3/4&quot; (22.22 mm)</td>
</tr>
</tbody>
</table>

### Weight:
- Domestic crated, pedestal model
  - 197 lbs (89.3 kg)
  - 206 lbs (93.4 kg)
  - 250 lbs (113.4 kg)
  - 487 lbs (220.9 kg)
- Export boxed, bench model
  - 71 lbs (32.2 kg)
  - 115 lbs (52.2 kg)
  - 152 lbs (68.9 kg)
  - 261 lbs (118.4 kg)
- Export boxed, pedestal model
  - 186 lbs (84.4 kg)
  - 266 lbs (120.6 kg)
  - 319 lbs (144.7 kg)
  - 557 lbs (252.6 kg)

## Controls

1 Phase
- 2398134—Magnetic Controls, 115/230v.
- 2398493—Magnetic Controls, 115/230v, w/24v transformer.

3 Phase

2398230—JIC Controls, 200/230/460/575v, w/24v transformer.
9100003—Conduit in lieu of Standard Wiring.

*May be specified with 110v transformer.

## Optional Accessories

- 2588001—Steel Pedestal, complete with Tool Rest and Water Pot for 1/2, 3/4, 1 HP (.373, .560, .746 kw) grinders. Wt. 64 lbs (24.5 kg)
- 2588002—Cast Iron Pedestal, complete with Tool Rest and Water Pot, for 2 HP (.492 kw) grinders. Wt. 100 lbs (45.4 kg)
- 6028005—Grinding Wheel Dresser, Wt. 1/2 lbs (.7 kg)
- 8805001—Set of (2) Shatterproof Eyesheilds, illuminated type. Wt. 1/2 lbs (0.1 kg)
- 8805002—Set of (2) Shatterproof Eyesheilds, 1/2 lbs (0.1 kg)
- 5900016—Set of (2) 12" x 2" (304.80 mm x 50.80 mm) Grinding Wheels. (1 coarse, 1 fine) Wt. 19 1/2 lbs (8.8 kg)
- 6900020—Carbide Wheel 1 1/2" x 6" x 1" (38.10 mm x 152.40 mm x 25.40 mm) face, 60 grit. Wt. 2 1/2 lbs (1.1 kg)
- 6900025—Carbide Wheel 1 1/2" x 6" x 1" (38.10 mm x 152.40 mm x 25.40 mm) face, 120 grit. Wt. 2 1/2 lbs (1.1 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
Powermatic Shatter Resistant Eyeshields, either plain or illuminated, are designed to give extra protection for the operator's eyes.

NO GRINDER SOLD WITHOUT THEM!

Eyeshields are fully adjustable both horizontally and vertically, permitting tilt or adjustment which allows them to be positioned at any angle desired.

This precision, adjustable diamond grinding wheel dresser reduces grinding time, increases the performance of cutting tools and grinders, and restores the true balance of the wheel. Rotation of spindle with angle on tool keeps diamond sharp for long life.

Sliding bracket is adjustable for different sizes of grinders and tool rests. Sides of grinding wheels may be dressed by moving bracket to fit side of tool rest. Bracket fits in "T"-slot of carbide tool grinder. Part No. 6028006. For 2200 Only.

CONTROLS FOR USE WITH MODEL 2100 & 2200 GRINDERS

1 Phase
2398134—Magnetic Controls, 115/230v.
2398493—Magnetic Controls, 115/230v, w/24v transformer.

3 Phase
2398230—JIC Controls, 200/230/460/575v.
2398497—Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100009—Conduit in lieu of Standard Wiring.

*May be specified with 110v transformer.

OPTIONAL ACCESSORIES — MODEL 2100 & 2200

2588001—Steel Pedestal, complete with Tool Rest and Water Pot for ½, ¾, 1 HP (373, 560, 746 kw) grinders. Wt. 54 lbs (24.5 kg)
2588002—Cast Iron Pedestal, complete with Tool Rest and Water Pot, for 2 HP (1,492 kw) grinders. Wt. 100 lbs (45.4 kg)
6028005—Grinding Wheel Dresser, Wt. 1½ lbs (0.7 kg)
6028001—Set of (2) Shatter resistant Eyeshields. Wt. 2½ lbs (1.1 kg)
6000002—Set of (2) Shatter resistant Eyeshields, illuminated type. Wt. 2½ lbs (1.1 kg)
6900016—Set of (2) 12" x 2" (304.80 mm x 50.80 mm) Grinding Wheels. (1 coarse, 1 fine.) Wt. 19½ lbs (8.8 kg)
6028006—Grinding Wheel Dresser (carbide wheels.) Wt. 1½ lbs (0.7 kg)
6900020—Carbide Wheel 1½" x 6" x 1" (38.10 mm x 152.40 mm x 25.40 mm) face, 60 grit. Wt. 2½ lbs (1.1 kg)
6900025—Carbide Wheel 1½" x 6" x 1" (38.10 mm x 152.40 mm x 25.40 mm) face, 120 grit. Wt. 2½ lbs (1.1 kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
SAVES TIME ... CUTS COSTS ...

Production costs go down when a Powermatic® Model 2200 Carbide Grinder is included in any shop that does grinding or lapping of carbide tipped, steel or stellite cutting tools. There's no need to lose valuable production time while a tool is sent out for sharpening. Now the machinist can conveniently perform his own sharpening tasks with a minimum of time. It's ideal for the high production shop and can be conveniently placed near the production machines.

Note: Wheels not included with standard machine. Order as extra equipment.

STANDARD EQUIPMENT


STANDARD MACHINES

1210100 — Bench Grinder, with all standard equipment and reversible ½ HP (373kw), 1 Phase, 115 volt, 3600 RPM (376.99 rad/s) motor. (Wheels not furnished.)

1210110 — Bench Grinder, with all standard equipment and reversible, ½ HP (373kw), 3 Phase, 230/460 volt (specify), 3600 RPM (376.99 rad/s) motor. (Wheels not furnished.)

OPTIONAL ACCESSORIES

2589001 — Steel Pedestal, complete with Tool Rest and Water Pot, for ½, ¾, 1 HP (373, 560, 746kw) grinding. Wt. 54 lbs (24.5kg)

5900020 — Silicon Carbide Wheel, 1½” x 6” (38.10mm x 152.40 mm), 60 Grit. Wt. 2½ lbs (1.1 kg).

5900025 — Silicon Carbide Wheel, 120 Grit. Wt. 2½ lbs (1.1kg).

SPECIFICATIONS

Motor .......... single phase, capacitor type, ½ HP (373kw) reversible, 60 Hz, 3600 RPM (376.99 rad/s) or three phase, heavy-duty squirrel cage type, ½ HP (373kw) reversible, 60 Hz, 3600 RPM (376.99 rad/s)

Motor ..... 60 Hz, 3600 RPM (376.99 rad/s)

Wheels, Recessed .......... 6” x 1½” (152.40 mm x 38.10 mm)

Wheels, steel backed .1” x 1½” (31.75 mm) hole

Tool table .......... 12” x 6½” (304.80mm x 165.10 mm)

171.45mm) tilts 45° out from face of wheel and 10° in Bench model (domestic crated) .... 115 lbs (52.2kg)

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.
1370000 Stand alone dust collector, complete with 1/2 horsepower, single phase, 110 volt motor, pushbutton switch, and cord and plug set.

FEATURES

* The Shop Maid is a compact dust collector with the efficiency of over 300 cubic feet of air per minute. It removes dust, grit and chips quickly and easily.

* Lightweight and portable to move easily from machine to machine.

* The filter is heat glazed felt with multi-pockets and a reinforced clamping collar. It helps to remove everything from chalk to large chips.

* A foot operated filter shaker is standard. This provides a quick and efficient way to dislodge material from the filter.

* The large chip drawer is removable for quick and easy clean out.

* The fan is on the clean air side. Dust and particles are stopped so that only clean air reaches the fan.

* Filtered air is recirculated indoors, saving costly heated or conditioned air.

SPECIFICATIONS

Filter Area ............... 20 Square Ft.
CFM ...................... 300
Cleanout Drawer Cap ...... 4 Cubic Ft.
Filter Shaker ............. Foot Operated

Motor ...................... 1/2 HP
Dimensions ............. 24" x 18" x 19½"
Intake Hose Connection ....... 4"
Weight ................... 120 Lbs.
FULL 6" (152.40mm) STROKE NOW STANDARD

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.

Choose from bench, floor and single or multiple spindle production models... add components and accessories to custom-tailor the machines for 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.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
No belts to handle when you change spindle speed! Just a twist of the accurately-calibrated variable speed control lets you choose speeds instantly while machine is running. Extra wide speed range in one model: 475 to 4800 RPM (49.74 rad/s to 502.66 rad/s). Increased accuracy and bit life in all drilling operations.

**FULL 6" (152.40 mm) STROKE NOW STANDARD**

VARIABLE SPEED MULTIPLES
Solid steel, 10-spline, one piece spindle for #2 M.T. or #33, 0"-3/8" Jacobs Taper.

**AN OPTIONAL FIRST VARI-SLO ATTACHMENT**

Nineteen gearing positions provides infinite-variable speed control from less than 100 RPM to 4600 RPM (10.47 rad/s to 481.71 rad/s). For Field Installation Only.

**FOR ALL MODEL 1150A VARIABLE SPEED DRILL PRESSES**
# Powermatic 1150-A 15" Drill Press

## Standard Floor and Bench Models

<table>
<thead>
<tr>
<th>Spindle &amp; Motor Spec.</th>
<th>Utility Table Floor Model</th>
<th>Tilting Table Floor Model</th>
<th>Tilting Table Bench Model</th>
<th>Production Table Floor Model</th>
<th>Production Table Bench Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
</tr>
<tr>
<td>#2 Morse Taper Less Mtr. &amp; Switch</td>
<td>1151310</td>
<td>265 lbs (129.2 kg)</td>
<td>1151320</td>
<td>224 lbs (111.1 kg)</td>
<td>1152810</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1152820</td>
<td></td>
<td>1152822</td>
</tr>
<tr>
<td>Key Chuck Less Mtr. &amp; Switch</td>
<td>1151290</td>
<td>265 lbs (129.2 kg)</td>
<td>1151300</td>
<td>224 lbs (111.1 kg)</td>
<td>1152810</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1152821</td>
<td></td>
<td>1152823</td>
</tr>
</tbody>
</table>

* Table Raising Mechanism Standard Equipment ** Head Raising Mechanism Standard Equipment

## Multiple Spindle Models

### Standard Equipped with Head Raising Mechanism and Legs

<table>
<thead>
<tr>
<th>Spindle &amp; Motor Spec.</th>
<th>2-Spindle</th>
<th>3-Spindle</th>
<th>4-Spindle</th>
<th>5-Spindle</th>
<th>6-Spindle</th>
<th>8-Spindle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
<td>Step Pulley</td>
</tr>
<tr>
<td>#2 Morse Taper Less Mtr. &amp; Switch</td>
<td>1154290</td>
<td>265 lbs (352.8 kg)</td>
<td>1154294</td>
<td>265 lbs (352.8 kg)</td>
<td>1154298</td>
<td>265 lbs (352.8 kg)</td>
</tr>
<tr>
<td>Key Chuck Less Mtr. &amp; Switch</td>
<td>1154291</td>
<td>265 lbs (352.8 kg)</td>
<td>1154295</td>
<td>265 lbs (352.8 kg)</td>
<td>1154299</td>
<td>265 lbs (352.8 kg)</td>
</tr>
</tbody>
</table>

### Standard Equipment except with T-Slot Tables, Head Raising Mechanism and Legs

<table>
<thead>
<tr>
<th>Spindle &amp; Motor Spec.</th>
<th>2-Spindle</th>
<th>3-Spindle</th>
<th>4-Spindle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
</tr>
<tr>
<td>#2 Morse Taper Less Mtr. &amp; Switch</td>
<td>1154202</td>
<td>1154206 (352.8 kg)</td>
<td>1154208</td>
</tr>
<tr>
<td>Key Chuck Less Mtr. &amp; Switch</td>
<td>1154203</td>
<td>1154207 (352.8 kg)</td>
<td>1154209</td>
</tr>
</tbody>
</table>

## Multiple Spindle Tables and Steel Support Legs

- 2423007 — Leg, steel, 27º (695.50 mm) high for mounting production tables. Wt. 43 lbs (19.5 kg) ea.
- 2797014 — Production Table 19½” x 9½” (501.65 mm x 235.90 mm). Accommodates up to six spindles. 3 legs required. Wt. 56 lbs (25.7 kg).
- 2797015 — Production Table 19½” x 12½” (501.65 mm x 323.90 mm). Accommodates up to eight spindles. 4 legs required. Wt. 72 lbs (32.7 kg).
- 2797016 — Production Table 20¼” x 30¼” (514.65 mm x 768.35 mm). Accommodates two spindles. 2 legs required. Wt. 235 lbs (106.8 kg).

## Standard Heads

- 1150258 — Variable Speed, No. 2 Morse Taper, Head only. Less: Motor.
- 1150259 — Variable Speed, Key Chuck, Head only, Less: Motor.
- 1150260 — Five-speed, No. 2 Morse Taper, Head only. Less: Motor.
- 1150261 — Five-speed, Key Chuck, Head only, Less: Motor.

## Motors for Use with Model 1150 Drill Presses

### 1 Phase

- 6470600 — ¼ HP (.560 kw), 60 Hz, 1200 RPM (125.66 rad/s), 115/ 230v, TEFC, 56 frame.
- 6470700 — ½ HP (.560 kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/ 230v, TEFC, 56 frame.

### 3 Phase

- 6470607 — ¼ HP (.560 kw), 60 Hz, 1200 RPM (125.66 rad/s), 200v, TEFC, 56 frame.
- 6470608 — ¼ HP (.560 kw), 60 Hz, 1200 RPM (125.66 rad/s), 230/ 450v, TEFC, 56 frame.
- 6470702 — ¼ HP (.560 kw), 60 Hz, 1800 RPM (188.50 rad/s), 57v, 230v, TEFC, 56 frame.
- 6470707 — ¾ HP (.560 kw), 60 Hz, 1800 RPM (188.50 rad/s), 230/ 450v, TEFC, 56 Frame.
- 6470712 — ¾ HP (.560 kw), 60 Hz, 1800 RPM (188.50 rad/s), 200v, TEFC, 56 Frame.

VARIABLE SPEED MODEL 1150 DRILL PRESSES REQUIRE A MINIMUM ¼ HP (.560 kw) HP MOTOR.

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

### All Machines Performance-Tested Before Shipment

www.OzarkToolManuals.com
CONTROLS FOR USE WITH MODEL 1150 DRILL PRESSES

1 Phase

2398523 — Magnetic Controls.
*2398525 — Magnetic Controls w/24v Transformer.
2398527 — Manual Controls.

*May be specified with 110v transformer.

3 Phase

2398230 — JIC Controls.
2398522 — Manual Controls.
2398524 — Magnetic Controls.
*2398526 Magnetic Controls w/24v Transformer.

OPTIONAL ACCESSORIES

2028013 — Mortise Attachment, complete with hold-down. Wt. 11 lbs (5.0 kg).
2028067 — Vari-Slo Attachment. Field Installation Only.
2193003 — Foot Feed. Wt. 32 lbs (14.5 kg).
2212005 — Flange for mounting Column on Table. Wt. 9 lbs 8 oz (4.3 kg).
2220122 — Guard.
2227004 — Table Raising Mechanism.
2227104 — Head Raising Mechanism. Wt. 14 lbs 4 oz (6.5 kg).
2391010 — Coolant Parts Assembly. Consists of nozzle, valve, column mounting clamp and hose assembly. Wt. 10 lbs (4.5 kg). One required for each spindle.
2640018 — Spindle Assembly, #2 Morse Taper complete with bearings. Wt. 7 lbs (3.2 kg).
2640017 — Spindle Assembly, #33 Taper complete with bearings. Less Jacobs Chuck. Wt. 7 lbs (3.2 kg).
2797008 — Tilting Table 10" x 14" (254.00 mm x 355.60 mm). Wt. 33 lbs (15.0 kg).
2797033 — Production Table for Floor Model, 12" x 18" (304.80 mm x 457.20 mm). Wt. 79 lbs (35.8 kg).
2797120 — Utility Table 10" x 11" (254.00 mm x 279.40 mm). Wt. 29 lbs 8 oz (13.4 kg).
2432004 — Center table leg (4 spdl. table).

NOTE: Vari-Slo attachment cannot be factory installed.

SPECIFICATIONS

Spindle; steel ---- 10-spine, # 2 Morse Taper or # 33 Jacobs Taper with 0°-1/2° (12.70 mm) capacity chuck

Spindle travel .................................................. 6" (152.40 mm)

Quill diameter .................................................. 2 3/16" (55.56 mm)

Column diameter ................................................. 3" (76.20 mm) 0.0

Column length, floor model .................................. 66" (1676.40 mm)

Column length, bench model .................................. 42" (1066.80 mm)

Column, Wall thickness ....................................... 3/16" (4.76 mm)

Table working surface: .......................... 10" x 11" (254.00 mm x 279.40 mm)

Tilting table .................................................. 10" x 14" (254.00 mm x 355.60 mm)

Production table ............................................. 12" x 18" (304.80 mm x 457.20 mm)

Base working surface ........................................ 8 1/2" x 12" (215.90 mm x 304.80 mm)

Capacity in cast iron ........................................ 1/4" (15.88 mm)

Capacity in steel ............................................ 1/4" (12.70 mm)

Drill to center of 15" (381.00 mm) dia

Spindle Speeds:

Variable Speed Models

1800 RPM (188.50 rad/s) motor .............................................. 475 RPM (49.74 rad/s) to 4800 RPM (502.66 rad/s)

1200 RPM (125.66 rad/s) motor ............................................ 317 RPM (33.20 rad/s) to 3200 RPM (335.10 rad/s)

Step Pulley Models

1800 RPM (188.50 rad/s) motor .............................................. 400 RPM (41.99 rad/s) to 840 RPM (87.96 rad/s)

1580 RPM (165.46 rad/s), 2800 RPM (293.22 rad/s), 3500 RPM (355.02 rad/s)

1200 RPM (125.66 rad/s) motor ............................................ 260 RPM (27.2 rad/s) to 560 RPM (58.6 rad/s)

1050 RPM (109.9 rad/s) to 1875 RPM (196.3 rad/s)

Weight, Net, bench model ....................................... 42 (1066.80 mm)

Weight, Net, bench model ....................................... 191.9 lbs.

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
CHOOSE FROM THREE SPECIALLY-DESIGNED TABLES

Utility Table affords completely rigid and level 10" x 11" (254.00 mm x 279.40 mm) working surface. Slot- ted for easy attachment of tooling. Part No. 2797120

Tilting Table tilts 90° right or left for any angle boring job. Provides 10" x 14" (254.00 mm x 355.60 mm) working surface slotted for tooling. Part No. 2797008

Production Table provides extra large 12" x 18" (304.80 mm x 457.20 mm) working surface, precision machined for extra drilling accuracy. Includes raising mechanism. Part No. 2797033

Optional Accessories Speed Up Specialized Drilling Operations

Spring-Balanced Foot Feed with depth-stop frees operators hands for unusual drilling jobs. Part No. 2192003

Straight Vise with accurately machined faces locks stock securely. Available in 2½" (63.50 mm) and 3" (76.20 mm) capacities. Part No. 6856004 — 2½" (63.50 mm) Part No. 6856005 — 3" (76.20 mm)

Mortising Attachment securely positions stock for all mortising operations. Part No. 2028013

Tilting Vise, with precision machined faces, is quickly adjustable for drilling stock at virtually any angle. Part No. 6856003

Hollow Chisels And Bits available for every specialized mortising application. Choose from ¼" (6.35 mm), ⅜" (9.52 mm), and ½" (12.70 mm) sizes.

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

6122040—Auto-vise for 15" drill press 6122041—Auto-vise for 20" drill press

Jacobs chuck w/#33 Taper ... 0-1¾" (12.70 mm) Jacobs chuck complete with key. Part No. 6118013 #2 Mt. Arbor with 33 Taper 6023003

Mounting Flange ... Available for special installations. Part No. 2212005

The Drill Press guard provides operator protection with grid type panels set in a heavy self-locking frame. Visibility is through a thick plastic window directly in front of the work. Part No. 2250122
INCREASE PRODUCTION . . .
. . . RAISE EFFICIENCY

WITH EXTRA-LARGE
WORKING SURFACE DRILL
PRESSES.

Powermatic Drill Presses combine
ruggedness with flexibility, adaptability
with versatility and engineering with prac-
tical application.

Equipped with 5-step speed or infinitely
variable drives—bringing to the job just
the right power transmission and speed
for the job at hand.

Extra working surfaces are always avail-
able with Powermatic over-size tables.
And for Multiple Spindle Models, Table
Inserts are available to extend the
capacities even farther.

Many important optional accessories are
also offered to increase the flexibility and
utility of the Powermatic Drill Presses,
additional tables, spindle assemblies,
larger and longer columns, vises, coolant
systems and many others. One new and
very important addition to the list of Drill
Press options is Vari-Slo Drive. This ver-
satile item provides speed from 100 RPM
(10.47 rad/s) to 4600 RPM (481.71 rad/s).

MODEL LISTINGS

1150250—Variable Speed with #2 Morse Taper. Less: T-Slots, Motor and Controls.
1150251—Variable Speed with Key Chuck. Less: T-Slots, Motor and Controls.
1150252—Variable Speed with #2 Morse Taper and T-Slots. Less: Motor and Switch.
1150253—Variable Speed, with Key Chuck and T-Slots. Less: Motor and Switch.
1150254—Step Speed with #2 Morse Taper. Less: T-Slots, Motor and Controls.
1150255—Step Speed with Key Chuck. Less: T-Slots, Motor and Controls.
1150256—Step Speed, with #2 Morse Taper and T-Slots. Less: Motor and Switch.
1150257—Step Speed with Key Chuck and T-Slots. Less: Motor and Switch.

(SEE PAGES 70-71 FOR MOTORS AND ELECTRICAL CONTROLS)

SPECIFICATIONS

Spindle Speeds:
Variable speed models: High Speed
(with 1800 RPM (188.50 rad/s) Motor)
475 RPM (49.74 rad/s) - 4800 RPM (502.66 rad/s)
Step pulley models:
High Speed
1580 RPM (155.46 rad/s), 2800 RPM (293.22 rad/s) - 5300 RPM (555.02 rad/s)
(with 1800 RPM (188.50 rad/s) Motor)
100 RPM (10.47 rad/s) - 4600 RPM (481.71 rad/s)
Vari-Slo Attachment speeds
Quill Diameter: 2 3/16" (55.56 mm)
Stroke: .6" (152.40 mm)

Column Diameter: 3" (76.20 mm)
Column Wall Thickness: 3/16" (4.75 mm)
Column Length (standard): 42" (1066.80 mm)
Largest Dia. Hole in Cast Iron: 9/16" (14.88 mm)
Largest Dia. Hole in Steel: 9/16" (12.70 mm)
Table Working Surface: 20" x 30" (508.00 mm x 762.00 mm)
Max. Distance, #2 MT Spindle Nose to Table:
(with Standard Column): 21 1/4" (539.75 mm)
Max. Distance Key Chuck to Table:
(with Standard Column): 21 1/4" (539.75 mm)
Weight, Net: 516 lbs (234 kg)

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

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MECHANICAL OR HAND FEED . . . VARIABLE OR FIVE-SPEED MODELS

Change Speed Instantly . . . Check Speed Instantly

Powermatic® Variable Speed Model with QUICK-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 135 RPM (14.14 rad/s) to 1350 RPM (141.37 rad/s) with 1200 RPM (125.66 rad/s) motor . . . and 200 RPM (20.94 rad/s) to 2000 RPM (209.44 rad/s) increase drilling accuracy and bit life.

Advanced design, 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 in multiple spindles or single units. Easily movable, units can be quickly shifted to meet changing production line requirements. Low investment and maintenance costs bring giant savings to industrial plants, schools, metal working, pattern and maintenance shops of all types.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
STANDARD FEATURES ASSURE PRECISION DRILLING

- Micrometer - Type Depth Gauge assures depth accuracy with precision, eye-level calibrations. Easy to set, easy to see.
- Safety Control Switch is front-mounted for operator convenience. Guarded push-button design helps prevent accidental starts.
- Extra Heavy 4" (101.60 mm) Column is ½" (12.70 mm) thick precision-ground steel, assuring rigid top and bottom support for heavy duty, cast iron head assembly. Available lengths 42" (1066.80 mm) (standard bench model), 66" (1676.40 mm) (standard floor model) or 78" (1981.20 mm)
- Table-Raising Mechanism is fast and accurate ... crank-operated utilizing worm gear. Part No. 2797012

FIVE SPEED MODEL with Exclusive Counter-shaft Drive

Utilizing an inter-pulley drive concept, this five-speed model offers the widest range of speeds available today. The combination of ultralow speed (100 RPM with 900 RPM (10.47 rad/s with 94.25 rad/s) to high speed (1500 RPM with 1800 RPM (157.08 rad/s with 188.50 rad/s) affords a flexibility of speed ranges previously unavailable for complicated multiple spindle production lineups.

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

COOLANT PUMP

Cuts Production Costs...

Centrifugal action delivers large volume of liquid at low pressure ... seals and bearings above liquid. Flow may be controlled or shut off without damage to motor ... No priming needed. ... Coolant Pump complete with 115 V, 60 Cycle, AC, 1800 RPM (188.50 rad/s) motor. Coolant parts assembly: nozzle, valve, column mounting clamp and flexible hose, coolant piping and table clamps.

Choose Mechanical or Manual Feed Operation

Time-Saving, Variable Speed

POWER FEED

The variable speed mechanical feed unit now available featuring infinitely variable feed speeds from .004" (.102 mm) to .012" (.30 mm) per-spindle-revolution! Speed is adjusted with convenient handle on feed housing ... easy-to-check, eye-level speed indicator. Feed rate is maintained for all spindle speeds. Drills to any desired depth, controlled by limit-switch on depth-stop indicator. Part No. 2192013.

Pump and Tank — Part No. 6160002
Coolant Parts Assembly — Part. No. 2391010
HOW TO ORDER MULTIPLE SPINDLE FLOOR AND BENCH MODELS

<table>
<thead>
<tr>
<th>Speed and Motor Specifications</th>
<th>Floor Model</th>
<th>Floor Model</th>
<th>Bench Model</th>
<th>Two Spindle</th>
<th>Three Spindle</th>
<th>Four Spindle</th>
<th>Six Spindle</th>
<th>Eight Spindle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tilting Table</td>
<td>Production Table</td>
<td>Production Table</td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
</tr>
<tr>
<td>Hand Feed Less Mtr. and Switch</td>
<td>1202010</td>
<td>120260</td>
<td>120310</td>
<td>1203260</td>
<td>1203510</td>
<td>1203760</td>
<td>120410</td>
<td>1204260</td>
</tr>
<tr>
<td></td>
<td>382 lbs</td>
<td>552 lbs</td>
<td>600 lbs</td>
<td>570 lbs</td>
<td>465 lbs</td>
<td>460 lbs</td>
<td>370 lbs</td>
<td>345 lbs</td>
</tr>
<tr>
<td></td>
<td>(173.5 kg)</td>
<td>(249.9 kg)</td>
<td>(272.1 kg)</td>
<td>(258.5 kg)</td>
<td>(209.9 kg)</td>
<td>(210.9 kg)</td>
<td>(170.0 kg)</td>
<td>(156.7 kg)</td>
</tr>
</tbody>
</table>

NOTE: ALL MULTIPLE SPINDLE MODELS INCLUDE HEAD RAISING MECHANISMS AND LEGS.

* WIS MACHINES PRICED LESS MOTOR FOR MOTOR EXCHANGE PURPOSES — NOT AVAILABLE LESS MOTOR.

MULTIPLE SPINDLE T-SLOTTED TABLE DRILL PRESSES

<table>
<thead>
<tr>
<th>Standard Equipment</th>
<th>Two Spindle</th>
<th>Three Spindle</th>
<th>Four Spindle</th>
<th>Six Spindle</th>
<th>Eight Spindle</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-Slotted Tables, Less: Motor and Controls</td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
<td>Step Pulley</td>
<td>Variable</td>
</tr>
<tr>
<td>1204050</td>
<td>1204040</td>
<td>1205050</td>
<td>1205040</td>
<td>1206050</td>
<td>1206040</td>
</tr>
<tr>
<td>1270 lbs</td>
<td>1240 lbs</td>
<td>2040 lbs</td>
<td>1950 lbs</td>
<td>2330 lbs</td>
<td>2210 lbs</td>
</tr>
<tr>
<td>(575.9 kg)</td>
<td>(562.3 kg)</td>
<td>(925.0 kg)</td>
<td>(884.3 kg)</td>
<td>(1096.7 kg)</td>
<td>(1002.2 kg)</td>
</tr>
</tbody>
</table>

HEAD ASSEMBLIES

1200010 — Head Assembly, hand feed, variable speed, belt, pulleys. Less: Motor, Switch and Head Raising Mechanism. Wt. 370 lbs (167.8 kg)

1200260 — Head Assembly, hand feed, 5-speed, belt and pulleys. Less: Motor, Switch and Head Raising Mechanism. Wt. 340 lbs (154.2 kg)

MOTORS FOR USE WITH MODEL 1200 DRILL PRESSES

<table>
<thead>
<tr>
<th>HP</th>
<th>Speed</th>
<th>RPM</th>
<th>Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 HP</td>
<td>746 kW</td>
<td>60 Hz</td>
<td>1200</td>
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<tr>
<td>1 HP</td>
<td>1119 kW</td>
<td>60 Hz</td>
<td>1800</td>
</tr>
<tr>
<td>1 HP</td>
<td>1492 kW</td>
<td>60 Hz</td>
<td>1800</td>
</tr>
<tr>
<td>2 HP</td>
<td>1492 kW</td>
<td>60 Hz</td>
<td>1200</td>
</tr>
<tr>
<td>2 HP</td>
<td>1492 kW</td>
<td>60 Hz</td>
<td>1800</td>
</tr>
<tr>
<td>2 HP</td>
<td>1492 kW</td>
<td>60 Hz</td>
<td>1800</td>
</tr>
</tbody>
</table>

CONTROLS FOR USE WITH MODEL 1200 DRILL PRESSES

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1 Phase</td>
<td>Magnetic Controls, 115/230V</td>
</tr>
<tr>
<td>2 Phase</td>
<td>Magnetic Controls, 115/230V, w/24V transformer</td>
</tr>
<tr>
<td>3 Phase</td>
<td>Magnetic Controls, 200/230/460/575V</td>
</tr>
<tr>
<td>4 Phase</td>
<td>Pushbutton Switch, 115/230V</td>
</tr>
<tr>
<td>5 Phase</td>
<td>Pushbutton Switch, 200/230/460/575V</td>
</tr>
</tbody>
</table>

OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Feed</td>
<td>80 lbs (36.3 kg)</td>
</tr>
<tr>
<td>Flange with screws</td>
<td>15 lbs (6.8 kg)</td>
</tr>
<tr>
<td>Guard, Hand feed drill presses</td>
<td>20 lbs (9.1 kg)</td>
</tr>
</tbody>
</table>

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OPTIONAL ACCESSORIES (Continued)

2393001 — 0" to ½" (12.70 mm) Chuck with adapter for No. 3 Morse Taper. Wt. 2393010 — Coolant Assembly for 1-spindle, consisting of Nozzle, Valve, Manifold and Hose Assembly.
2393011 — Coolant Assembly for 2-spindle, consisting of Nozzle, Valve, Manifold and Hose Assembly.
2393012 — Coolant Assembly for 3-spindle, consisting of Nozzle, Valve, Manifold and Hose Assembly.
2393013 — Coolant Assembly for 4-spindle, consisting of Nozzle, Valve, Manifold and Hose Assembly.
2423003 — Steel Legs for mounting production tables. Height, 27" (685.80mm). (each) Wt. 55 lbs (24.9 kg).
2423008 — Middle leg (6 & 8 spindle table).
2423009 — Center post (4 spindle table).
2797012 — Table Raising Mechanism. (Standard with floor model). Wt. 21 lbs (9.5 kg).
2797018 — Production Table 24" x 121" (609.60 mm x 3073.40 mm), ground surface for six spindles. 3 legs required. Wt. 1240 lbs (562.3 kg).
2797026 — Production Table with parallel T-slots, 1½" x 18" (393.70 mm x 457.20 mm), ground surface. Wt. 119 lbs (54.0 kg).
2797028 — Tilting Table 16" x 18" (406.40 mm x 457.20 mm), ground surface, column bracket and tilting scale. Less: Raising Mechanism. Wt. 101 lbs (45.8 kg).
2797127 — 6-Spindle T-Slot Table. 3 legs required.
3096039 — Safety collar
3098004 — Column. 4" x 66" (101.60 mm x 1676.40 mm). (Standard on floor models) Wt. 103 lbs (46.7 kg).
3098005 — Column. 4" x 42" (101.60 mm x 1066.80 mm). (Standard on bench models) Wt. 66 lbs (29.9 kg).
3098007 — Column. 4" x 78" (101.60 mm x 1981.20 mm). Wt. 122 lbs (55.3 kg).
3694006 — Leveling screw (2 required per leg)
3797012 — Center Section. 24" x 42" (609.60 mm x 1066.80 mm), drilled and tapped for 2 spindles, to make 8 spindle table. Wt. 335 lbs (151.9 kg).
3797028 — Production Base Bench Model. 18" x 25" (457.20 mm x 635.00 mm), ground surface. Wt. 121 lbs (54.9 kg).
3797035 — Production Table 24" x 40" (609.60 mm x 1016.00 mm). Wt. 370 lbs (167.5 kg). 2 legs required.
3797066 — Production Table 24" x 80" (609.60 mm x 2032.00 mm). Wt. 805 lbs (362.4 kg). 2 legs required.
3797064 — 2-Spindle T-Slot Table.
3797065 — 4-Spindle T-Slot Table.
6020006 — #3 M.T. to #2 M.T. sleeve.
6166001 — Coolant Pump & Tank. Wt. 37 lbs (16.8 kg).
6448005 — Adjustable Work Lamp. Wt. 10 oz (3 kg).
6856001 — Drill Press Vise, 4½" (114.30 mm) capacity. Wt. 12 lbs 5 oz (5.6 kg).
6856002 — Drill Press Vise, tilting. Wt. 33 lbs (15.0 kg).

SPECIFICATIONS

Spindle Speeds:
Variable Speed Model
High Speed, 1800 RPM (188.50 rad/s) Motor... 200 — 2000 RPM (20.94 — 209.44 rad/s)
Slow Speed, 700 RPM (125.66 rad/s) Motor... 135 — 1350 RPM (14.14 — 141.37 rad/s)
2-Speed, 1800/900 RPM (188.50/94.25 rad/s)

Step Pulley Model
1800 RPM (188.50 rad/s) Motor... 240 RPM (25.13 rad/s), 380 RPM (39.79 rad/s), 600 RPM (62.83 rad/s), 900 RPM (94.25 rad/s), 1500 RPM (157.08 rad/s)
1200 RPM (125.66 rad/s) Motor...

Quill Diameter... 2¼" (57.15 mm)
Spindle... #2 or #3 M.T., 6 spline...
Base Working Surface... 13½" x 18" (342.90 mm x 457.20 mm)
Stroke... 6" (152.40 mm)

Dimensions:
Height, Floor Model (max)...
Height, Bench Model (max)...
Front to rear...
Width tilting table...
Width production table...
Working Surface, Prod. Table...
Column length, floor model...
Column length, bench model...
Column Diameter...
Largest dia. hole in steel, 1 HP (746 kw)...
Largest dia. hole in cast iron, 1 HP (746 kw)...
Largest dia. hole in steel, 1½ HP (1119 kw)...
Largest dia. hole in cast iron, 1½ HP (1119 kw)...

All specifications, dimensions and design characteristics shown in this catalog are subject to change without notice.

FIVE-SPEED STEP PULLEY MODEL WITH EXCLUSIVE "SNAP/OPEN" SPRING LOADED DOOR

CHANGE SPEED INSTANTLY... CHECK SPEED INSTANTLY
No belts to handle when you change spindle speed! Just a twist of the accurately-calibrated variable speed control lets you change speeds instantly while machine is running. Extra wide speed range in one model, increased accuracy and bit life in all drilling operations.

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EQUIP WITH THE BEST . . . . for maximum PRODUCTIVITY, minimum DOWN-TIME, unexcelled PERFORMANCE and unequaled PRECISION.

Powermatic 20-Inch Drill Presses have been developed over a twenty-five year span, by dedicated people who devote time and effort to the details that make fine products.

Just a few of those important reasons for equipping with Powermatic Drill Presses are: the additional weight, the rugged construction, the carefully machined spindles, the sealed ball bearings, the wide variety of tables, the variety of columns, the large number of motors and controls and the care and skill which comes with twenty-five years of manufacturing experience.

Superior performance is assured by sealed lubricated for life ball bearings, precision ground spindles of solid steel, 6 spline spindles and dynamically balanced pulleys.

Users everywhere, in all applications, depend on Powermatic.

MODEL LISTINGS

1200300 — 1-Spindle, Production Table, Step Speed, Less: Motor and Controls.
1200330 — 1-Spindle, Production Table, Variable Speed, Less: Motor and Controls.
1200340 — 1-Spindle, Production Table with T-Slots, Step Speed, Less: Motor and Controls.
1200350 — 1-Spindle, Production Table with T-Slots, Variable Speed, Less: Motor and Controls.

SPECIFICATIONS

Spindle Speed:
Variable speed models: High Speed
(with 1800 RPM (188.50 rad/s) Motor)
200 — 2000 RPM (20.94 — 209.44 rad/s)
Slow Speed (with 2400 RPM (125.66 rad/s) Motor)
135 — 1350 RPM (14.14 — 141.37 rad/s)
Two-Speed Motor
100 — 1000 RPM (10.147 — 104.77 rad/s) and 200 — 2000 RPM (20.94 — 209.44 rad/s)
Step-pulley Models:
(with 1800 RPM (188.50 rad/s) Motor)
High Speed 240 RPM (25.13 rad/s), 380 RPM (39.79 rad/s), 600 RPM (62.33 rad/s), 920 RPM (96.34 rad/s), 1500 RPM (157.08 rad/s)
(= 1200 RPM (125.66 rad/s) Motor)
Slow Speed 160 RPM, 260 RPM (27.23 rad/s), 400 RPM (41.89 rad/s), 610 RPM (63.88 rad/s), 1000 RPM (104.72 rad/s)
Quill Diameter 2 3/4 (69.85 mm)
Stroke 6 (152.40 mm)
Column Diameter 4 (101.60 mm)
Column Wall Thickness 3/8 (12.70 mm)
Column Length (Standard) 42 (1066.80 mm)
Largest Dia. Hole in Cast Iron 1 1/2 (28.58 mm)
Largest Dia. Hole in Steel 5/8 (15.87 mm)
Table Working Surface 24" x 40" (609.60 mm x 1016.00 mm)
Max. Distance, Spindle Nose to Table (with standard column) 25 3/4 (641.35 mm)
Weight, Net 746 lbs (338.3 kg)
FEATURES

* The only geared head drill press with a 4" column hole. Ideal for retrofitting to existing single or multiple spindle set ups. Mix gear drive, step pulley or variable drive heads in any combination to suit your special operations.

* The two speed motor delivers 2 horsepower at high speed and a full 1.5 HP at low speed. More torque for heavy duty drilling in exotic metals.

* The quietest of all geared head drill presses. An exclusive combination of steel/fiber gearing assures a quiet positive drive.

* And now, a 20" geared head drill press with power feed for those heavy duty drilling requirements.

SPECIFICATIONS

P-20 SPECIFICATIONS
No. of Speeds—8
Speeds (RPM) 85, 170, 335, 410, 670, 820, 1620, 3240
Column Hole Size—4.004/4.005" (101.702/101.727 mm)
Drilling Capacity—1" (25.4mm) in steel 1 3/16 (30.15mm) in Cast Iron
Motor Output—2.0/1.5 HP—1.5/1.1 KW
Distance Spindle to Column—10" (254mm)
Taper in Spindle—#3 Morse Taper
Spindle Travel—5 5/16 (135mm)

PF-20 SPECIFICATIONS
No. of Speeds—8
Speeds (RPM) 85, 170, 335, 410, 670, 820, 1620, 3240
Column Hole Size—4.004/4.005" (101.702/101.727 mm)
Drilling Capacity—1" (25.4 mm) in steel 1 3/16 (30.15mm) in Cast Iron
Motor Output—2.0/1.5 HP—1.5/1.1 KW
Distance Spindle to Column—10" (254mm)
Taper in Spindle—#3 Morse Taper
Spindle Travel—5 5/16 (135mm)
Number of Feeds—(4)
Feed Rates—.003, .006, .008, and .012 in/Rev. .076, .152, .203, and .305 mm/Rev.
BASIC MACHINES

1780001 Geared Head Drill Press, 20", Hand Feed, Floor Model, Prod. Table
1780002 Geared Head Drill Press, 20", Power Feed, Floor Model, Prod. Table
1780003 Geared Head Drill Press, 20", Hand Feed, Flood Model, Tilting Table
1780004 Geared Head Drill Press, 20", Power Feed, Flood Model, Tilting Table
1780005 Geared Head Drill Press, 20", Hand Feed, Bench Model
1780006 Geared Head Drill Press, 20", Power Feed, Bench Model
1780007 Geared Head Drill Press, 20", Hand Feed, 1 Spindle on 2 Spindle Prod. Table
1780008 Geared Head Drill Press, 20", Power Feed, 1 Spindle on 2 Spindle Prod. Table
1780009 Geared Head Drill Presses, 20", Hand Feed, 2 Spindles on 2 Spindle Prod. Table
1780010 Geared Head Drill Presses, 20", Power Feed, 2 Spindles on 2 Spindle Prod. Table
1780011 Geared Head Drill Presses, 20", Hand Feed, 4 Spindles on 4 Spindle Prod. Table
1780012 Geared Head Drill Presses, 20", Power Feed, 4 Spindles on 4 Spindle Prod. Table
1780013 Geared Head Drill Press, 20", Hand Feed, 1 Spindle on 2 Spindle "T" Slot Prod. Table
1780014 Geared Head Drill Press, 20", Power Feed, 1 Spindle on 2 Spindle "T" Slot Prod. Table
1780015 Geared Head Drill Presses, 20", Hand Feed, 2 Spindles on 2 Spindle "T" Slot Prod. Table
1780016 Geared Head Drill Presses, 20", Power Feed, 2 Spindles on 2 Spindle "T" Slot Prod. Table
1780017 Geared Head Drill Presses, 20", Hand Feed, 4 Spindles on 4 Spindle "T" Slot Prod. Table
1780018 Geared Head Drill Presses, 20", Power Feed, 4 Spindles on 4 Spindle "T" Slot Prod. Table

HEAD ASSEMBLIES

1780019 Geared Hill Drill Press, 20", Hand Feed, Head Assembly
1780020 Geared Head Drill Press, 20", Power Feed, Head Assembly

Machines are wired for single voltage only. Please specify 230V, 3Ph or 460V, 3Ph

OPTIONAL ACCESSORIES

2212006 Mounting Flange
2277005 Head Raising Mechanism
2383001 1/2" Chuck to No. 3 MT
2391010 Coolant Assembly, 1 Spindle
2391011 Coolant Assembly, 2 Spindle
2391013 Coolant Assembly, 4 Spindle
2423003 27" Steel Leg
2423009 Center Post 4 Spdl Table
2797012 Table Raising Mechanism
3096039 Safety Collar
3098004 66" Column
3098005 42" Column
3694006 Leveling Screw (2 reg per leg)
3797035 2 Spindle Production Table
3797036 4 Spindle Production Table
3797064 2 Spindle "T" Slot Production Table
3797065 4 Spindle "T" Slot Production Table
6023008 No. 3 to No. 2 MT Sleeve
6160002 Coolant Pump and Tank
6448005 Adjustable Work Light
6856001 Vise
6856002 Tilting Vise
HEAVIER... VIBRATIONLESS... SMOOTHER...

Leading the field in performance... rugged, versatile, dependable... POWERMATIC® Model 141 Band Saw, through precise engineering, offers the outstanding performance required for every type of band sawing operation. The advance-design of the rugged one-piece, box type frame casting makes it the heaviest 14" Band Saw available. The weight, vibrationless operation, and perfect alignment gives the smoothest performance ever and, insures years of trouble free operation. A complete line of accessories, blades and electricals provide flexibility and safety previously found only in higher priced production models.

OPTIONAL CIRCLE CUTTING ATTACHMENT. Cuts circles and arcs with ease.

Exhaust Chute. This exhaust chute scavenges most of the dust and particles from inside the saw, reducing clean-out periods and improving saw performance.

Blade Guard. Extends the protected blade area to the workpiece, minimizing blade exposure to workable tolerances.

Ball bearing side and backup bearings reduce blade fatigue as much as 50% on all non-ferrous materials.

Swivel type table stop. Positive table stop at 90° or is easily moved to a 15° left tilt.

Quick change tires eliminates difficult tire change — massive box type casting houses dynamically balanced wheel for smooth operation.

Side Takeout Slot for bandsaw blade eliminates necessity of split or narrow trunnions. Tapered pin keeps table surface flat.

Rip Fence — Optional for precision ripping and resawing.

Table Trunnion — Heavy duty, widely spaced table trunnion assures positive feed and maximum table rigidity at any degree of tilt. Large, easy to read tilt scale located at the front of the trunnion.

Eye level blade tension scale shows correct tension for different blade widths. Adjustable from front of machine.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FRAME: Massive, box-type, one piece, cast iron frame, ribbed and cross ribbed for maximum rigidity, vibrationless, trouble-free service.

WHEELS: Heavy duty cast iron upper and lower wheels, precision machined and dynamically balanced for smooth running. Crowned rubber tires provide positive grip preventing blade slippage.

TABLE: Huge 15" x 15" (381.00 mm x 381.00 mm) cast iron table, ground for true accuracy and equipped with side take-out to permit use of a one piece rip-fence guide rail. Tilts 45° right—15° left, with positive stop at 90°.

TRUNNION: Wide spaced cast iron and steel trunnion assures positive locking of table. An easy to read 'sight' scale is mounted on front of trunnion for quick, positive tilt adjustment.

SAW GUIDES: Top saw guide is fitted with back-up ball bearings and ball bearing side guides. Lower guide utilizes back-up ball bearing and 45° hardened steel side guides. Lower guide is just below table surface for maximum blade support.

GUARDS: All moving parts are completely guarded. Only the operating portion of the blade is exposed. Large deep drawn steel doors enclose upper and lower wheels.

SAW BLADE ADJUSTMENT: Blade tension is adjusted with conveniently located handwheel, spring loaded to absorb shock and maintain equal tension on the blade. A tension scale, located at eye-level, indicates proper blade tension.

DRIVE: Non-slip V-belt for utmost efficiency in any work load range. Drive, motor, and ‘V’ belt are completely enclosed in a rugged steel floor stand.

STANDARD EQUIPMENT

MODEL 141 BANDSAW: 1/4" (6.35mm) blade, ball bearing guides, wheel guards, blade guards, wrenches, arbor pulley, motor pulley, V-belt, and exhaust chute.

BASIC MACHINES

1410010 — 14" Band saw, complete with all standard equipment. Less: Motor, controls, stand, motor pulley and V-belt.

MOTORS FOR USE WITH MODEL 141 BANDSAWS

1 Phase

| 6470700 | 1/4HP (560kw), 60 Hz, 1800 RPM (198.5 rad/s), 115/230v, TEFC, 56 frame |

3 Phase

| 6470712 | 1/4HP (560kw), 60 Hz, 1800 RPM (198.50 rad/s), 200v, TEFC, 56 frame |

CONTROLS FOR USE WITH MODEL 141 BANDSAWS

1 Phase

| 2398114 | Pushbutton Switch, 115/230v |
| 2398336 | Magnetic Controls, 115/230v |
| 2398497 | Magnetic Controls, 115/230v, w/24v transformer |

3 Phase

| 2398115 | Pushbutton Switch, 200/230/460/575v |
| 2398230 | Magnetic Controls, 200/230/460/575v |
| 2398435 | Magnetic Controls, 200/230/460/575v, w/24v transformer |
| 9100003 | Wired in flexible metal conduit in lieu of standard wiring |

OPTIONAL ACCESSORIES

| 2759013 | Floor Stand, Wt. 57 lbs (25.8kg) |
| 6080002 | 1/4" (6.35mm) Wide Bandsaw Blade, Wt. 6 oz (2kg) |
| 6080003 | 3/8" (9.52mm) Wide Bandsaw Blade, Wt. 6 oz (2kg) |
| 6080004 | 1/2" (12.70mm) Wide Bandsaw Blade, Wt. 8 oz (2kg) |
| 6080005 | 3/4" (19.05mm) Wide Bandsaw Blade, Wt. 12 oz. (3 kg) |
| 6448005 | Work Light, Wt. 8 oz (2kg) |

SPECIFICATIONS

| Capacity: Blade to column distance | 14" (355.60 mm) |
| Capacity: Under guide | 81/2" (165.10mm) |
| Blade Speed | 3000FPM (15.24 m/s) |
| Overall Height (on stand) | 71" (1803.40mm) |
| Width | 251/2" (647.70 mm) |
| Front to Back | 133/4" (336.55 mm) |
| Table Size | 15" x 15" (381.00mm x 381.00mm) |
| Table height from floor | .42" (1066.80mm) |

| Table tilt | 45° right, 15° left |
| Blade width, maximum | 3/4" (19.05mm) |
| Blade length | .96" - 94" (2438.40mm - 2387.60mm) |
| Weight, crated, less stand | 225 lbs (102.0kg) |
| Weight, crated, with stand and motor | 355 lbs (161.0kg) |
| Export, boxed, with stand and motor (39.9 cu ft (1129 m3)) | 450 lbs (204.1kg) App. |

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
RUGGED...BIG CAPACITY...A VERSATILE PERFORMANCE LEADER...

Combining careful design, rugged cast iron construction and big capacity, the Powermatic® Model 143-14" combination wood and metal Band Saw is equally adaptable to the machine shop, tool room, foundry, pattern or school shop, or wherever exacting performance is required. The added rigidity of its heavy duty construction makes it possible to cut stainless steel and guarantees true accuracy wherever there exists the problem of performing precision contour and band filing operations. Loaded with quality features, the Model 143-14" Band Saw is the ultimate for production needs...and it's priced within the range of the average hobbyist.

OPTIONAL CIRCLE CUTTING ATTACHMENT. Cuts circles and arcs with ease.

Blade Guard. Extends the protected blade area to the workpiece, minimizing blade exposure to workable tolerances.

Exhaust Chute. This exhaust chute scavenges most of the dust and particles from inside the saw, reducing clean-out periods and improving saw performance.

Quick-change tires eliminates difficult tire change—massive box type casting houses dynamically balanced wheel for smooth operation.

Eye level blade tension scale shows correct tension for different blade widths. Adjustable from front of machine.

Saw Guides. Rugged, dependable hardened steel side guides with ball bearing back-up guarantee accuracy. Lower angular guides place guide just below table surface for maximum blade control.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES

FRAME: Massive, box-type, one piece cast iron frame, ribbed and cross ribbed for maximum rigidity, vibrationless, trouble free service.

TRANSMISSION: Friction free ball bearing design throughout... a massive, quick-change two speed gear box constantly bathed in oil for noise-less, long life operation. The two-speed transmission and step pulley drive provide any of eight speeds from 40 to 3000 SFM (.203 m/s to 15.240 m/s) for cutting a variety of metals, plastics and wood.

WHEELS: Heavy duty cast iron upper and lower wheels are precision machined and dynamically balanced for smooth running. Crowned rubber tires provide positive grip preventing blade slippage.

TABLE: A huge 15" x 15" (381.00mm x 381.00mm) cast iron table, ground for true accuracy is equipped with side take-out permitting use of a solid rip fence guide rail. Tilts 45° right — 15° left with positive stop at 90°.

TRUNNION: Wide-spaced cast iron and steel trunnion assures positive locking of table. An easy to read 'sight' scale is mounted on front of table for quick, positive tilt adjustment.

SAW GUIDES: The top saw guide is fitted with backup ball bearing and large hardened steel side guides. Lower guide also utilizes backup ball bearing with angular hardened steel side guides. This design places lower guide just below table surface for maximum blade control.

GUARDS: All moving parts are completely guarded. Only the operating portion of the blade is exposed. Large deep drawn steel doors enclose upper and lower wheels.

SAW BLADE ADJUSTMENT: Blade tension is adjusted with conveniently located handwheel, springloaded to absorb shock and maintain equal tension on the saw blade. Convenient scale, mounted at eye-level for proper blade tension.

STANDARD EQUIPMENT

MODEL 143 BANDSAW: 2-speed Transmission, belt guards, driven belt, ¾" (9.52 mm) blade, wheel blade guards, wrench, hardened steel blade guides, driven pulley, drive belt and exhaust chute.

BASIC MACHINES

'143002—14" Band saw, complete with all standard equipment. Less Motor and controls and stand.

NOTE: MACHINE NOT SOLD LESS STAND

MOTORS FOR USE WITH MODEL 143 BANDSAWS

1 Phase

6470700 — ¾ HP (.560kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/230V, TEFC, 56 frame.

3 Phase

6470702 — ¾ HP (.560kw), 60 Hz, 1800 RPM (188.50 rad/s), 575V, TEFC, 56 frame.

STANDARD EQUIPMENT

2398114 — Pushbutton Switch, 115v.
2398339 — Magnetic Controls, 115/230v.
2398147 — Magnetic Controls, 115/230v, w/24v transformer.

*May be specified with 110v transformer.

3 Phase

2398115 — Pushbutton Switch, 200/230/460/575v.
2398230 — JC Controls, 200/230/460/575v, Class I only.
2398235 — Magnetic Controls, 200/230/460/575v, w/24v transformer.

OPTIONAL ACCESSORIES

910003 — Condut in lieu of standard wiring.

2670003 — Stop Rod Assembly, Wt. 1 lb. (.45 kg)
6680008 — ¾" wide band saw blade. Specify wood or metal. Wt. 6 oz. (.2 kg)
6680009 — ¾" (9.52 mm) wide band saw blade. Wt. 6 oz. (.2 kg)
6680010 — ¾" (12.70 mm) wide band saw blade. Wt. 8 oz. (.23 kg)
6680011 — ¾" (19.05 mm) wide band saw blade. Wt. 12 oz. (1.3 kg)
6680805 — Work Light, Wt. 10 oz. (2.8 kg)
2379001 — Dust Chute (retrofit). Wt. 1 lb. (.45 kg)
2759043 — Floor Stand
2028073 — Circle Cutting Attachment

NOTE: See page 94 for blade welders. *See page 67 for dust collector.

SPECSIFICATIONS

Capacity: Blade to column distance... 14" (355.60mm)
Under guide... 6½" (165.10mm)
Speeds: With 1800 RPM (188.50 rad/s) motor .405SFM (.305 m/s), 605SFM (.203 m/s), 100SFM (.056 m/s), 150SFM (.013 m/s)
Overall Height (on stand)... 71" (1803.40mm)
Width... 22½" (567.90mm)
Front to back... 13¼" (336.55mm)

Table size... 15" x 15" (381.00mm x 381.00mm)
Table height from floor... 42" (1066.80mm)
Table tilt... 45° right, 15° left
Blade length... 94" - 96" (2387.60mm - 2438.40mm)
Weight, domestic crate, with stand and motor... 395 lbs (179.1kg)
Export boxed, with stand and motor... 415.5 c ft (1.174 m3)

www.OzarkToolManuals.com
ACCURACY IN EVERY OPERATION

Powermatic® precision means exacting engineering and design to assure superior accuracy in every band saw job you do. Powermatic dependability means years of rugged service on the production line or job shop type of operations. A balance combining rigid heavy gauge sheet steel and cast iron construction, the Powermatic Model 81 has all moving parts enclosed to help insure safety.

Optional Circle Cutting Attachment. Cuts circles and arcs with ease.

Table Insert Quickly Removed for fast blade change. Note deep 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.

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

Heavy-Duty 6" (152.40 mm) Single-Action Trunnion affords maximum rigidity. Fast, sure table adjustment 45° right, 15° left, positive 90° stop.

Crowned tires for accurate blade tracking.

Exhaust Chute. This Standard exhaust chute scavenges most of the dust and particles from inside the saw, reducing clean-out periods and improving saw performance.

Optional Simplified Rip Fence Mounting on machined and drilled front edge of table. # 2195001

Optional Miter Gauge. Precision cast aluminum miter gauge. # 2471010

Optional Work Light. Flexible work lamp. Ideal for spotlighting working surface. # 6448003

Blade Guard. This heavy duty standard plastic guard extends the area of blade protection to the top of the workpiece.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
**FEATURES**

FRAME: Welded design of rugged reinforced steel... nothing die cast.

TABLE: 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 machined castings, dynamically balanced and fitted with vulcanized tires. Upper and lower wheels run in lubricated-for-life ball bearings.

DRIVE: Belt driven two speed, powered by 1800 RPM (188.50 rad/s) motor mounted on adjustable motor base.

**STANDARD EQUIPMENT**

MODEL 81 BANDSAW: Blade and wheel guards, 4/4" (9.52mm) blade, set of wrenches, foot brake, dust chute, blade tension control, ball bearing blade guides, counterbalanced guide arm, motor mount bracket, driven pulley, motor pulley, and belts. Less: Motor and Controls.

1810010—20" Bandsaw, complete with all standard equipment. Less: Motor and Controls.

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

SAW BLADE ADJUSTMENT: Conveniently located handwheel 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.

**BASIC MACHINES**

1810020—20" Bandsaw, complete with all standard equipment, 24" (609.60mm) Under guide. Less: Motor and Controls.

**MOTORS FOR USE WITH MODEL 81 BANDSAWS**

<table>
<thead>
<tr>
<th>1 Phase</th>
<th>2 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>6471301—1½ HP (1.119 kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/230v, TEFC, 145T frame.</td>
<td>2HP (1.492 kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/230v, TEFC, Special 182T frame.</td>
</tr>
<tr>
<td>6471527—2HP (1.492 kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/230v, TEFC, 145T frame.</td>
<td>3 Phase</td>
</tr>
<tr>
<td>6471026—1½ HP (1.119 kw), 60 Hz, 1800 RPM (188.50 rad/s), 200v, TEFC, 143T frame.</td>
<td>6471027—1½ HP (1.119 kw), 60 Hz, 1800 RPM (188.50 rad/s), 230/460v, TEFC, 143T frame.</td>
</tr>
</tbody>
</table>

**CONTROLS FOR USE WITH MODEL 81 BANDSAWS**

<table>
<thead>
<tr>
<th>1 Phase</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>*May be specified with 110v transformer.</td>
<td>2398156—Pushbutton Switch, 200/230/460/575v.</td>
</tr>
<tr>
<td>9100002—Conduit in lieu of standard wiring.</td>
<td>9100002—Conduit in lieu of standard wiring.</td>
</tr>
</tbody>
</table>

**OPTIONAL EQUIPMENT**

| 6080001—1/4" (6.35 mm) wide Band Saw Blade. Wt. 8 oz. (2 kg). |
| 6080005—1/4" (9.52 mm) wide Band Saw Blade. Wt. 8 oz. (2 kg). |
| 6080016—1/2" (12.70 mm) wide Band Saw Blade. Wt. 8 oz. (2 kg). |
| 6080017—1/4" (19.05 mm) wide Band Saw Blade. Wt. 8 oz. (2 kg). |
| 6330002—Carter Guide Set (2 required). |
| 6448003—Flexible Work Light. Wt. 10 oz. (3 kg). |
| 2028073—Circle Cutting Attachment. |

**SPECIFICATIONS**

| Table Size | 3' x 24" x 24" (76.20 mm x 609.60 mm x 609.60mm). |
| Table in front of blade | 11 1/2" (292.10 mm). |
| Table tilt | 15° left — 45° right. |
| Wheel size | 1 1/2" x 20" (31.75mm x 508.00mm). |
| Blade to column distance | 19 1/4" (501.65 mm). |
| Maximum depth of cut under guide | 12" (304.80mm) and 24" (609.60mm). |
| Maximum width blade recommended | 1/2" (19.05mm). |
| Maximum adjustment of blade | 2 1/2" (63.50mm). |

Length of blade | 149" - 125" (3784.60mm - 3860.80mm). |
Wheel speeds | 2400 RPM (94.25 rad/s) 4500 SFM (22.860m/s). |
| 3000 RPM (41.89 rad/s) 2000 SFM (10.160m/s). |
Motor power recommended, (120V direct drive) | 1 to 2 HP (746 to 1.492kw), 1800 RPM (188.50 rad/s). |
Overall height | 76" (1930.40mm. |
Table height from floor | 41 1/2" (1054.10mm). |
Weight, domestic crated, with motor | 895 lbs (405.9kg) app. |
Weight, export boxed, with motor (94.4 cu ft (2.672 m3)) | 1090 lbs (494.3kg). |

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

www.OzarkToolManuals.com
CHECK THESE IMPORTANT EXTRA VALUE FEATURES

CHECK SPEED INSTANTLY . . . CHANGE SPEED INSTANTLY . . . FROM 47 to 5200 SFM (.230 m/s to 26,416 m/s)

Match the speed to the material to be cut . . . instantly! No time-wasting speed change-over necessary. Just dial the correct speed and get a smooth cut every time.

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

EXHAUST CHUTE. This optional exhaust chute scavenges most of the dust and particles from inside the saw, reducing clean-out periods and improving saw performance. Optional equipment.

BLADE GUARD. This standard heavy duty plastic guard extends the area of blade protection to the top of the workpiece.

Heavy Duty 6" (152.40mm) Single-Action Trunnion for maximum rigidity. Adjust table 45° right, 15° left.

New upper and lower guide blocks with M-2 steel faced back-up bearings are standard with the Model 87. One set of 1/8" (9.52mm) inserts only is supplied as original equipment.

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

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

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


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

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
EXCLUSIVE...

Quik-Set

SPEED SELECTOR
(STANDARD EQUIPMENT)

Just a quick turn of the convenient hand-wheel and you accurately dial any speed from 47 SFM (.239 m/s) to 5200 SFM (26.416 m/s). Highly important when stock changes are frequent and extreme accuracy must be maintained. Exclusive in the Powermatic® price range!

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

PRECISION ENGINEERED
— combining practical shop requirements with the finest operating features.

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.

SPECIFICATION

| Blade to column guard distance | .19 1/4" (50.165mm) |
| Maximum depth of cut under guide | .12" (30.480mm) |
| Table size | 3" x 24" x 24" (76.20mm x 609.60mm x 609.60mm) |
| Wheel size | .20" x 1 1/4" (50.800mm x 31.75mm) |
| Table tilt, right | .45° |
| Table tilt, left | .15° |
| Blade width | .74" (19.05mm) |
| (Usable Maximum .74" (19.05mm) Minimum .1/8" (1.59mm)) |
| Blade length | .149" (3784.60mm) to 152" (3860.80mm) |
| Blade speed | 47 SFM (.239m/s) to 5200 SFM (26.416m/s) |
| Overall height | .76" (1930.40mm) |
| Floor space required | .39" by 27" (990.60mm x 685.80mm) |
| Weight, net, less motor | 1000 lbs (453.5kg) |
| Weight, domestic crated | 1300 lbs (589.6kg) |
| Weight, export boxed | 1560 lbs (707.5kg) |

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
FEATURES
FRAME: Rugged sheet steel construction, braced for maximum rigidity—no die castings.
TABLE: 24’’ x 24’’ (609.60 mm x 609.60 mm) precision ground grey iron, with 3’’ (76.20mm) machined flange, removable table insert. Tilts 45° right, 15° left on 6’’ (152.40mm) wide-grey iron trunnion assembly with single lock and positive 90° stop.
WHEELS: Dynamically balanced cost iron wheels turning on lubricated-for-life ball bearings.
GUARDS: Completely enclosed moving parts; counter-balanced, telescoping upper blade guard.

BLADE ADJUSTMENT: Convenient handwheel adjusts blade tension. Visible tension scale assures proper adjustment. Spring mechanism absorbs shock, maintains uniform tension. Optional chip blower furnishes air jet to working area.
GUIDES: 45° angle guides, carbo nitrided powdered iron inserts correspond to blade size in use. Heat treated tool steel backup ring.
DRIVE: Infinitely variable 47 to 5200 SFM (.239 m/s) to 26.416 m/s), by variable speed dial. 2-step oil bath transmission.

STANDARD EQUIPMENT
Blade and wheel guards, ¾” (9.52 mm) blade, set of wrenches, chip pan, blade tension control, 45° angle guide with one set only ¾” (9.52mm) inserts. Counter balanced guide arm, motor mount bracket, driven pulley, motor pulley and belt. Less: Motor and Controls.

BASIC MACHINES
1870140 — 20’’ Metal Cutting Bandsaw, with all standard equipment and plain 24’’ x 24’’ (609.60 mm x 609.60 mm) table. Less: Motor and controls.

1870150 — 20’’ Metal Cutting Bandsaw, with all standard equipment and tee slotted 24’’ x 24’’ (609.60 mm x 609.60 mm) table. Less: Motor and controls.
(Special "High-Neck" 24’’ UNDER GUIDE BANDSAWS AVAILABLE ON SPECIAL ORDER.

MOTORS FOR USE WITH MODEL 87 BANDSAWS
1 Phase
6471301 — 1HP (1.19kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/230V, TEFC, 145T frame.
6471627 — 2HP (1.49kw), 60 Hz, 1800 RPM (188.50 rad/s), 115/230V, TEFC, Special 182T frame.

3 Phase
6471304 — 1HP (1.19kw), 60 Hz, 1800 RPM (188.50 rad/s), 230/460V, TEFC, 145T frame.
6471317 — 1HP (1.19kw), 60 Hz, 1800 RPM (188.50 rad/s), 575V, TEFC, 145T frame.
6471322 — 1HP (1.19kw), 60 Hz, 1800 RPM (188.50 rad/s), 200V, TEFC, 145T frame.

*3 HP Requires Magnetic Control

CONTROLS FOR USE WITH MODEL 87 BANDSAWS
1 Phase
2398001 — Magnetic Controls, 115/230V.
2398614 — Pushbutton Switch, 115/230V.
*2398683 — Magnetic Controls, 115/230V, w/24V transformer.

*May be specified with 110V transformer.

OPTIONAL ACCESSORIES
2846001 — ½” (12.70 mm) Welder with Grinder, 115V, Wt. 55 lbs (24.9kg).
2846002 — 1” (19.05 mm) Welder with Grinder, 375V, Wt. 55 lbs (24.9kg).
2846006 — 1” (19.05 mm) Welder with Grinder, 460V, Wt. 55 lbs (24.9kg).
2846007 — 1” (19.05 mm) Welder with Grinder, 575V, w/transformer, Wt. 55 lbs (24.9kg).
3328040 — Table Insert, Wt. 2 lbs (9kg).
3328216 — ¼” (6.35mm) Guide Inserts, (4 required), (4 required).
3328217 — ⅛” (3.18mm) Guide Inserts, (4 required).
3328218 — ⅛” (9.52mm) Guide Inserts, (4 required).
3328219 — ⅛” (12.70mm) Guide Inserts, (4 required).
3328220 — ⅛” (19.05mm) Guide Inserts, (4 required).
6080020 — ⅛” (6.35mm) Band Saw Blade.
6080021 — ⅛” (9.52mm) Band Saw Blade.
6080022 — ⅛” (12.70mm) Band Saw Blade.
6080193 — ⅛” (19.05mm) Band Saw Blade.

*See page 67 for dust collector.
OPTIONAL ACCESSORIES FOR ADDED FLEXIBILITY

Precision Performance, Extra Safety on... Every Job

Engineered Powermatic® accessories are available to cover every bandsaw operation, faster, more accurately and with safety. Powermatic time and money saving accessories increase the flexibility of the Model 87 Bandsaw by meeting all conceivable bandsaw job requirements.

- **Screw Feed Attachment**, fitted to table insert, offers maximum in feed control and safety for cutting smaller stock. Part No. 2266001
- **New Circle Cutting Attachment**, retrofits on any Bandsaw cuts from 2" to 6" diameters. Also great for ARC's. Part No. 2028037
- **Table-Insert Stock Guide** is essential for many high production operations. Standard equipment
- **New upper and lower guide blocks with M-2 steel faced back-up bearings are standard with the Model 87**. One set of 9/8" (9.52mm) inserts only is supplied as original equipment.
- **Flex Mount Work Lamp** keeps work area well lighted. Move easily to any position. Flexible chip blower is also available. Part No. 2400001
- **Rip Fence securely mounted quickly and easily**. Part No. 2195001

**AUTOMATIC POWER FEED available (OPTIONAL EQUIPMENT)**
Part No. 2028003

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.

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT
In addition to the rigidity and extra strength standard with Powermatic® bandsaws, the new "dynamic" has improved on this feature with a new unitized steel frame. Deflection of the upper housing under full load is minimal.

A newly incorporated one-piece upper wheel housing, simplifies guidepost alignment and strengthens the upper wheel housing.

A hydraulic powered table adds to the utility and versatility of this over other 20" bandsaws.—feed through use of a hydraulically actuated table,—longer blade life from the consistent feed forces employed—better operator performance because the machine—does all the hard work.

Finally,—a new 2-speed transmission together with Powermatic's recognized infinitely variable speed control to give a maximum speed range for almost every shop requirement (47 SFM (.239 m/s) to 570 SFM (2.368 m/s) in low and 520 SFM (2.642 m/s) to 5200 SFM (26.416 m/s) in high speed). The shift lever is conveniently located just under the table for ease of operation, yet placed to prevent accidental shifting while the machine is running. Another feature of this transmission is a self-adjusting "Torque Limiter" which prevents machine overloading. In case of overload, a clutch slips thus preventing broken gears. The whole unit is readily accessible for maintenance or adjustment.

**SPECIFICATIONS**

| Throat blade to column guard | .194" (50.165 mm) |
| Maximum work thickness      | .12" (3.0480 mm)  |
| Blade width capacity        | .190" (3.18 mm) to 1" (25.40 mm) |
| Blade length                | 144" (378.60 mm) to 152" (386.60 mm) |
| Type blade                  | .043" (1.095 mm) Carbon steel |
| Table size                  | .24" x .24" (609.60 mm x 609.60 mm) |
| Blade speed                 | .47 SFM (.239 m/s) to 5200 SFM (26.416 m/s) |
| Table tilt                  | 45° R—15° L       |
| Table feed stroke           | 0" to 10" (254.00 mm) |
| Table feed force            | 0 to 300 lbs (136.1 kg) |
| Table feed speed            | 0 to 58 IPM (24.55 mm/s) |
| Hydraulic pump              | 15.5 GPM (9.363 550 E-05 m³/s) |
|                            | @ 100 PSI (6.894 757 E-05 Pa) |

**ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT**
FEAT URES

FRAME: Rugged, unitized welded steel construction. Braced for maximum rigidity and minimum deflection with 300 lbs (136.1 kg) of cutting force.
TABLE: 24" x 24" (600.60 mm x 600.60 mm) precision ground gray iron, tilts 45° right and 15° left. Coolant trough around entire table.
WHEELS: Dynamically balanced cast iron wheels turning on lubricated-for-life ball bearings. New one piece upper wheel housing simplifies wheel/guide post alignment and increases strength of upper housing.
GUARDS: Blade guards are attached to the counterbalanced guide post thus automatically adjusting guard position and allowing minimum blade exposure.

HYDRAULIC FEED: The hydraulic system in this bandsaw is an independent unit, driven directly from the bandsaw motor. Feed speed and direction (forward, reverse, stop) of the hydraulically powered table is operator controlled. Adjustable positive stop is standard.
GUIDES: 45° angle guides, carbo nitrided powdered iron inserts correspond to blade size in use. Heat treated steel backup ring.
DRIVE: 2-speed transmission with infinitely variable speed control offering 47 to 470 SFM (2.39 m/s to 2.388 m/s) in low speed, and 520 SFM to 5200 SFM (2.642 m/s to 26.416 m/s) in high speed. Incorporated as standard equipment in this transmission is a Torque Limiter which is self-adjusting and prevents overloading the drive system.

STANDARD EQUIPMENT

MODEL 88 BANDSAW: Blade and wheel guards, 3/4" (19.05mm) blade, set of wrenches, 45° angle heat treated sintered guides, blade tension control, counterbalanced guide arm, hydraulic table feed, integral hydraulic pump and reservoir, 2-speed transmission, flood and mist coolant system with pump, work squaring bar and work light. Less: Motor and controls.

BASIC MACHINES

1880010 — 20" metal cutting bandsaw with all standard equipment. Less: Motor and controls.

MOTORS

6471603 — 2HP (1.492 kw), 3 Ph, 1800 RPM (188.50 rad/s), 230/460v, 145T frame.
6471616 — 2HP (1.492 kw), 3 Ph, 1800 RPM (188.50 rad/s), 575v, 145T frame.
6471617 — 2HP (1.492 kw), 3 Ph, 1800 RPM (188.50 rad/s), 200v, 145T frame.
6471916 — 3HP (2.238 kw), 3 Ph, 1800 RPM (188.50 rad/s), 200/230/460/575v, Special 182 frame.

CONTROLS

2398520 — 3 Ph, Magnetic controls, with 115v transformer.
9100002 — Conduit in lieu of standard wiring.

*1370000 — Dust collector. Wt. 120 lbs (54.4 Kg)
2028073 — Circle cutting attachment. Wt. 2 lbs (.9 kg)
2028002 — Blade filing clamp. Wt. 22 oz (.6 kg)
2028006 — Contour Cutting Attachment
2253089 — Lower guides with steel faced back-up bearings. Less: Inserts.
2253071 — Upper guides with steel fenced back-up bearings. Less: Inserts.
2353073 — 90° twist bracket kit.
2397031 — Dust chute. Wt. 1 lb (.45 kg)
2398514 — Electrical interlock kit.
2403005 — Guide Insert Kit.
2846001 — 1/2" (19.05 mm) welder, 115v. Wt. 55 lbs (24.9 kg)
2846002 — 1" (19.05 mm) welder, 230v. Wt. 55 lbs (24.9 kg)
2846006 — 1" (19.05 mm) welder, 460v. Wt. 55 lbs (24.9 kg)
2846007 — 1" (19.05 mm) welder, 575v. Wt. 55 lbs (24.9 kg)

*See page 67 for dust collector.
ASSURANCE OF PERFORMANCE

2-SPEED TRANSMISSION

This new and different two speed transmission is powered by enclosed helical gears running in a continuous bath of oil. High and Low range gears are now selected by a shift lever located on the frame just under the left corner of the table ... easy to reach ... eliminating all "linkage" characteristics in older models.

The two speed transmission, plus a new variable speed drive system provides a wide speed range . . . 47 to 470 SFM in low range, and 520 to 5200 SFM in high range. A speed for all slow or high speed cutting operations; even to friction cutting sheet metal. Incorporated as standard equipment with this new transmission, is a SELF ADJUSTING TORQUE LIMITER which prevents "overloading". A clutch slips in case of overload without shearing gears. Placement in the lower bandsaw compartment makes this power unit easily accessible for maintenance or adjustment.

UPPER WHEEL HOUSING TABLE AND GUIDE BAR

This view of the upper wheel housing and guide bar serves to familiarize the viewer with the general makeup of the bandsaw.

The massive construction of the upper wheel bearing support is apparent, even "looking through the wheel". Blade tension is accomplished through the small handwheel directly below the blade wheel in the center of the picture. The blade guard and guide assembly is counterweighted for ease of movement and are locked in place through use of a handwheel lock screw on the back of the housing.

Illustrated in place, are the flood coolant system and the work light. These units are standard equipment. Also shown in place in the illustrations used in this brochure, is a blade Walder. This unit is optional and is shown in this way to illustrate the convenience and utility of this accessory.

The table is 24" x 24", slotted to accept standard "T" bolts and the work squaring bar which is standard equipment, (not shown). Note that the table has a coolant trough around the entire perimeter.

The hydraulic table control valve is at the left corner of the table, while the shift control lever is between the table and frame on the top of the lower wheel housing.

This view of the lower wheel housing emphasizes thoughtful design, massive construction and simplicity. The flood coolant trough around the table is shown at the top of the picture. Here can be seen the ends of the table slots, the table hydraulic control valve and the gear shift lever. Although hidden by the open door, the infinitely variable speed control handwheel is conveniently located for minimal movement or effort on the part of the operator to vary speeds infinitely in either the high or low speed range. The dust or chip chute shown is optional equipment. The removable chip pan just under the lower wheel is standard. The extra heavy trunnion for tilting the table is obvious from the photo. Just a glimpse is shown here of the heavy duty round steel bars on which the table slides.
The Model 600 Welder is designed to weld most commonly used blades. Controls and clamping features are the best available for the purpose. The built-in grinder assures a finished blade weld.

2846001 — Model 600 Welder w/grinder, 115v.
2846002 — Model 600 Welder w/grinder 230v.
2846006 — Model 600 Welder w/grinder and transformer, 460v.
2846007 — Model 600 Welder w/grinder and transformer, 575v.
2109001 — Blade Shear for Model 600.

Capacities of the Model 600 Welder are from 1/16” through 1” blades. (Note: 115v models are 1/2” capacity only.)

This is the same Model 600 Welder except with case.

1990010 — Model 600 Welder w/case, 115v
1990020 — Model 600 Welder w/case, 230v
1990030 — Model 600 Welder w/case and transformer 460v.
1990040 — Model 600 Welder w/case and transformer 575v.
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