A PRECISION DRILL PRESS FOR SMALL HOLES

Our highly-reliable Precision-Sensitive Drill Presses meet the needs of single hole drilling applications in the range of 0.004” to 0.250” (0.1mm to 6.4mm). Our Drill Presses are available with a choice of Albrecht keyless chuck, or WW collets, as well as inch or metric gauges. With an adjustable spindle speed range of 200 to 20,000 RPM, our Drill Presses cut through most materials; such as carbon steel, stainless steel, non-ferrous metals, plastics, graphite and printed circuit boards, plus diamond drilling in ceramics, sapphire and glass.
WITH THE SENSITIVITY TO LET YOU FEEL THE DRILL

FEEL THE DRILL
You can actually feel the cutting forces on the drill with our sensitive rack and pinion drive system. Scrapped parts and drill breakage can be minimized. Each drill press provides smooth and quiet operation, because ball tension is placed on the separate carrier ball bearings in the spindle drive assembly and not on the bearings in the spindle. The spindle is driven by a high-strength mechanism with precision balanced rotating parts.

DRILL WITH PRECISION
Perform precision drilling operations easily with a fully adjustable quill lever, plus the adjustable and calibrated quill stop can be utilized as an up or down stop. This allows the quill to be locked in a fully-extended up or down position. The quill stop can also be used as a fine down feed or as a continuously adjustable down stop for controlled incremental pecking which makes deep hole drilling easy.

MICROPROCESSOR CONTROL OPTION
An optional microprocessor-controlled quill feed for peck and reaming cycles optimizes production, as well as minimizing tool wear and breakage by delivering controlled feed rates up to 30 IPM.

Our quill feed is designed to provide accurate hole depths within +/- 0.001" while automatic pecking action clears chips, reduces drill wander and allows deep holes routinely and accurately with small drills.

An optional foot switch is available, which provides the maximum freedom of hand movement. Manual jog keys make initial setup easy and data entry buttons with LED readout permit easy program scanning and modification. Four modes of operation are offered; Auto, Single Step, Ream, and Program. In auto mode, the cutting tool performs a pecking sequence that begins with a rapid plunge to a programmable distance above the work surface and selectable dwell time that allows chips to clear. The single step mode enables the program to be checked one peck at a time. In the ream mode, feed rates are controlled during both the plunge and retract strokes.

In the Program mode, the operator can set quill sequence control values. The Single Step mode enables the program to be checked one peck at a time. In the Ream mode, feed rates are controlled during both the plunge and retract strokes.

RELIABLE ACCURACY FOR ALL APPLICATIONS
With built-in accuracy and reliability, our drill presses deliver maximum performance in manufacturing and assembly areas, as well as in laboratories and engineering departments where precision production and prototype jobs are common tasks. For example: medical devices, jewelry, automotive, electronics, musical instruments as well as EDM and mold parts—just to name a few!
• Keyless Albrecht chuck: 0-1/8” / 0-3 mm standard; (optional 0-1/16” / 0-1.5 mm); quick and easy drill changes
• WW collet versions 0.0039”-0.252”/0.1-6.4 mm for less run out and improved accuracy because tool is supported closer to the spindle
• Precision ground column with head column lock
• Self-contained motor with aluminum housing; on/off switch
• Coarse depth dial 0.1”/division or 5 mm/division
• Dial gauge 0.001” or 0.05 mm/division for accurate depth control
• Adjustable, sensitive quill lever - turn to adjust position
• Adjustable stop for blind-hole drilling 0.001” or 0.05 mm/division
• Spindle runout: 0.0002” / 0.005 mm TIR
• Drill Press machining capabilities:
  - Inconel: Std D/P drilling to 1/16”; Heavy Duty D/P to 1/8”
  - Steel: Std D/P drilling to 1/8”; Heavy Duty D/P to 1/4”
  - Aluminium: Std D/P drilling to 3/16”; Heavy Duty D/P to 1/4”
• Electrical: 115 volts AC, 50/60 Hz, 2 amps (220V/115V transformer available)
• Weight: 21-92 lbs./9.5-41.7 kg
• Ship dimensions:
  - Models 7000/7100: 7050/7150: 7.15”W x 11.8”D x 13.5”H
  - 181.61mm W x 299.72mm D x 342.9mm H
  - Models 7010/7110; 7060/7160: 7.15”W x 11.8”D x 20”H
  - 181.61mm W x 299.72mm D x 508mm H
  - Models 7030/7130: 7040/7140; 7070/7170; 7080/7180; 7090/7190
     10.5”W x 18.5”D x 20”H; 266.7mm W x 469.9mm D x 508mm H
• Shipping dimensions are the same for equivalent 9000 series models

<table>
<thead>
<tr>
<th>Standard Drill Press</th>
<th>Drill Press with Unique Offset Column</th>
<th>Drill Press with Elbow and Deep Throat</th>
<th>Drill Press with Elbow and T-Slot Base</th>
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<tbody>
<tr>
<td>7000 / 7100</td>
<td>7030 / 7130</td>
<td>7040 / 7140</td>
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<td>7010 / 7110</td>
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### PRECISION DRILL PRESS SPECIFICATIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Inch</th>
<th>Metric</th>
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</thead>
<tbody>
<tr>
<td>Base</td>
<td>267mm</td>
<td>679mm</td>
</tr>
<tr>
<td>Working base area (width)</td>
<td>18.5”</td>
<td>470mm</td>
</tr>
<tr>
<td>Working base area (depth)</td>
<td>18.5”</td>
<td>470mm</td>
</tr>
<tr>
<td>Total base width</td>
<td>10.5”</td>
<td>267mm</td>
</tr>
<tr>
<td>Total machine depth</td>
<td>18.5”</td>
<td>470mm</td>
</tr>
<tr>
<td>Total machine height</td>
<td>18.5”</td>
<td>470mm</td>
</tr>
<tr>
<td>Column diameter through head</td>
<td>1.25”</td>
<td>32mm</td>
</tr>
<tr>
<td>Column diameter through elbow</td>
<td>1.25”</td>
<td>32mm</td>
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<tr>
<td>Column length</td>
<td>12”</td>
<td>305mm</td>
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<tr>
<td>Fine grain, ground cast iron base</td>
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<tr>
<td>Drill Press Options &amp; Accessories</td>
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</table>

- WW Collets, 0.0039”-0.252”
- WW Arbor to Jacobs “0” taper allows chucks to be used in collets
- Precision fence gauge (Model 727)
- Accessory tool kit (Model 728)
- Dual column/dual head (Model 729)
- Albrecht keyless chucks, 0-1/8” (0-3 mm) and 0-1/16” (0-1.5 mm)
- 220V Power kit converts 220 to 115 VAC
- Jacobs key chuck, 0-5/32” (0-4 mm)
- Standard mill R8 taper adapter kit (Model 705)
- Quill lock option (for milling)
- Microprocessor-controlled quill feed (Model 708)
- Micro quill feed foot switch (Model 710)
- Drill-tap control with foot switch (Model 709)
- Through hole option available on Albrecht chuck versions (0.05” diameter)
- Bases and heads can be purchased separately
- Tilt & rotate articulating head bracket

Proudly manufactured in the USA by Servo Products Company

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