Series F Geared-drive Prismatic-column Drills

With Electromagnetic Clutch Automatic Feed Control

The F series Industrial Drilling Machine is equipped with standard features that allow a wide range of drilling/milling applications. The rotating head, rotates 45° left or right, gives even more machining flexibility.

Standard Features and Equipment:

- Drilling capacity in steel: 1.38" (35mm) maximum
- Drilling capacity in cast iron: 1.57" (40mm) maximum
- Milling capacity in steel: 1.80" (45mm) maximum
- Milling capacity in cast iron: 3.20" (80mm) maximum
- Tapping capacity in steel: 1.18" (30mm) maximum
- Tapping capacity in cast iron: 1.30" (33mm) maximum
- 18 spindle speeds
- Automatic feed reversing system for tapping on “RS” models
- Adjustable vertical position of head by geared-motor
- Head rotates 45° left or right of center
- Large worktable with 3 T-slots
- Hardened and ground high quality steel gears
- Gear box lubrication by automatic pump
- Guide ways lubricated by manual pump
- Speed plate and selecting levers on front of head
- High/low speed range selector
- Coolant tank and pump in machine base
- Co-ordinate cross slide table
- Automatic feed and cut-off by electromagnetic clutch
- Work light
- Front hand wheel for fine feed work
- Depth scale and adjustable depth stop
- Built-in low voltage electrical equipment in column rear
- Emergency STOP
- Spindle turn selection switch
- Drill guard with microswitch

Optional Equipment:

- 50% lower feed range
- Digital read-out system for table
- Electronic SERVO feed unit X/Y axes
- Quick tool change nut for ISO-30
- Cross slide table
- Cycle start foot pedal
- Foot pedal for reversing
- Worklight with magnetic base
- Coolant system with independent container

Rotating machine head, rotates 45° left or right, for a wide range of machining applications.
Capacities, Specifications and Dimensions

<table>
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<tr>
<th>Standard Models</th>
<th>BF-35</th>
<th>BF-35RS</th>
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<tr>
<td>Auto feed reversing for tapping Models</td>
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**Capacities:**
- Maximum drilling capacity in steel: 1.38" (35mm)
- Maximum drilling capacity in cast iron: 1.57" (40mm)
- Maximum milling capacity in steel: 1.80" (45mm)
- Maximum milling capacity in cast iron: 3.20" (80mm)
- Maximum tapping capacity in steel: 1.18" (30mm)
- Maximum tapping capacity in cast iron: 1.3" (33mm)

**Specifications:**
- Spindle taper: ISO-30
- Optional spindle taper (on request): 4MT
- Quill diameter: 2.95" (75mm)
- Spindle travel (drilling depth): 7.87" (200mm)
- Main motor power: 1.5/2 Hp (1.1/1.5Kw)
- Coolant pump motor power: .12 Hp (.09Kw)
- Head geared-motor power: .1 Hp (.07Kw)
- Number of speed (see speed charts): 18
- Number of automatic feeds: 3
- Auto feed range in./rev. (mm/rev.): .0039/.0079/.118 (.1/.2/.3)

**Dimensions and Weights**
- Height (A): 81.9" (2130mm)
- Overall length (B): 57.1" (1450mm)
- Spindle to table (C)
  - Minimum: 0" (0mm)
  - Maximum: 23.23" (590mm)
- Spindle center to column (D): 15.08" (383mm)
- Maximum head height (E): 94.5" (2400mm)
- Worktable width (F): 14.17" (360mm)
- Worktable height (G): 35.43" (900mm)
- Worktable length (H): 47.24" (1200mm)
- Base width (I): 29.53" (750mm)
- Overall width (J): 61.81" (1570mm)
- X travel: 27.56" (700mm)
- Y travel: 14.17" (360mm)
- Net weight: 2,756 lbs (1250Kg)
- Shipping weight: 3,197 lbs (1450Kg)
- Shipping dimension (length x width x height): 67" x 67" x 95" (1.7x1.7x2.4m)

"RS" models are equipped with automatic feed reversing system for tapping.

**Standard motor: 1800/3600 rpm**

<table>
<thead>
<tr>
<th>Model</th>
<th>Spindle speeds (rpm)</th>
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<tr>
<td>BF-35</td>
<td>95-135-190-267-380-534-750-1065-1500</td>
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<td>190-270-380-534-760-1070-1500-2130-3000</td>
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