

# 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



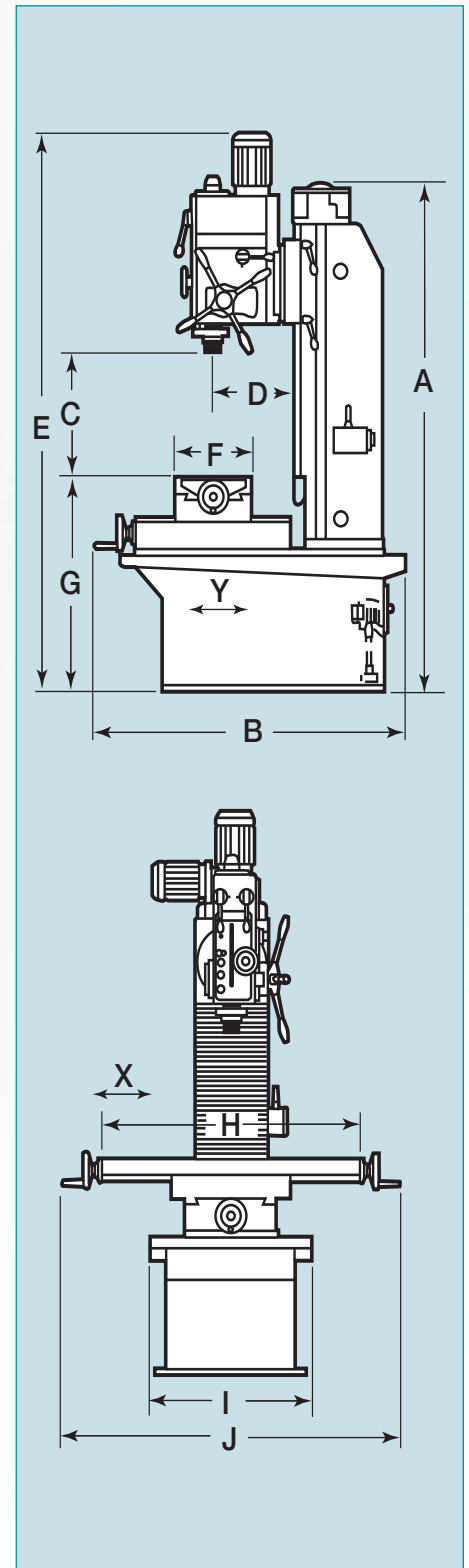
**BF-35**



*Rotating machine head, rotates 45° left or right, for a wide range of machining applications.*

# Capacities, Specifications and Dimensions

Standard Models Auto feed reversing for tapping Models	BF-35 BF-35RS
<b>Capacities:</b>	
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)
<b>Specifications:</b>	
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)
<b>Dimensions and Weights</b>	
Height (A)	81.9" (2130mm)
Overall length (B)	57.1" (1450mm)
Spindle to table (C)	
Minimum	0"
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

Model	Spindle speeds (rpm)
BF-35	95-135-190-267-380-534-750-1065-1500 190-270-380-534-760-1070-1500-2130-3000