

# BP HEAVY-DUTY SERIES

## TECHNICAL SPECIFICATIONS

		BP 160/180	BP 200
Spindle diameter	mm in	160/180 6.3/7.1	200 7.9
Spindle taper	ISO CAT	50 50	50 50
Spindle motor	kW HP	60/100 80/134	60/100 80/134
Spindle speed	rpm	4-2500	4-2000
Ram cross section	mm in	500x620 19.7x24.4	500x620 19.7x24.4
X-axis travel	mm in	5000 197	5000 197
Y-axis travel	mm in	3000 118	3000 118
Z-axis travel	mm in	1000 39.4	1000 39.4
W-axis travel	mm in	800 31.5	800 31.5
Feeds	X, Y, Z	mm/min in/min	6-12,000 0.24-472
	W	mm/min in/min	6-6000 0.24-236

## STANDARD FEATURES

- Massive cast iron components
- Hydrostatic guideways (X, Y, Z)
- Electrically shifted, 2-range planetary gearbox for spindle drive
- Ball screws (Y, Z, W)
- Rack and double-pinion drive for X-axis
- HEIDENHAIN linear scales (X, Y, Z)
- HEIDENHAIN rotary encoder (W)
- Power tool clamping
- Ram droop compensation
- REXROTH/PARKER/ATOS hydraulic components
- SIEMENS AC servo motors, PLC and electrics
- SIEMENS SINUMERIK 840D sl
- Steel telescopic covers for X and Y (front) axes

BP 160/180/200 CNC



## TRAVELS

- X-axis - column
- Y-axis - headstock
- Z-axis - ram
- W-axis - spindle

## VERSIONS

- Extended X-axis travel
- 4000, 5000 mm (157.5, 197 in) Y-axis travel
- 1200 mm (47.2 in) Z-axis travel
- 1000, 1200 mm (39.4, 47.2 in) W-axis travel
- Choice of 2-axes rotary tables, floor plates
- Head hydraulic clamping
- Choice of CNC controls

## OPTIONAL EQUIPMENT \*

- Manual or automatic indexing vertical milling heads
- Manual or automatic indexing universal milling heads
- CNC milling heads
- Detachable facing head
- CNC facing head
- Spindle support bearing
- Angle plates
- Long and short milling head extensions
- Automatic tool changer with 30-120 tools
- Automatic head changer
- Independent operator platform
- Coolant through the spindle
- Touch probe
- Tool presetter
- Chip conveyor