



## CNC Bridge Type Milling Machines

# BTM SERIES

### MODELS

- **BTM 1600 CNC**, **BTM 2200 CNC**

- fixed cross rail bridge type milling machines with movable table (X-axis)

### TECHNICAL SPECIFICATIONS

		BTM 1600		BTM 2200	
Plain table	mm in	4000x1620	157.5x 63.8	4000x2200	157.5x86.6
Maximum load on table	kg/m <sup>2</sup> lb/sq.ft	4000	819	4000	819
Ram cross section	mm in	400x400	15.7x15.7	400x400	15.7x15.7
Spindle taper	ISO CAT	50	50	50	50
Spindle motor power	kW HP	30	40	30	40
Spindle speed	rpm	10-2000		10-2000	
X-axis travel	mm in	4600	181	4600	181
Y-axis travel	mm in	2900	114	3800	149.6
Z-axis travel	mm in	1000	39.4	1000	39.4
Feeds X, Y, Z	mm/min in/min	10-6000 0.4-236		10-6000 0.4-236	
Distance between columns	mm in	2600	102	3200	126
Maximum distance between table surface and spindle nose	mm in	1200	47.2	1200	47.2

### TRAVELS

- X-axis - plain table
- Y-axis - milling head
- Z-axis - ram

### STANDARD FEATURES

- High rigidity and vibration damping due to utilization of massive cast iron components
- Hardened and ground guideways
- Counterways lined with anti-friction material
- Hydrostatic guideways for table longitudinal travel on the bed (X)
- Feed box with double pinion - rack mechanism for high accuracy and backlash compensation (X)
- Ball screws (Y, Z)
- HEIDENHAIN linear scales (X, Y, Z)
- High precision bearings for milling spindle
- Power tool clamping - unclamping
- Coolant system
- Automatic lubrication system
- SIEMENS AC servo motors, PLC and electrics
- SIEMENS SINUMERIK 840D sl
- Steel telescopic covers for X and Y axes



### VERSIONS

- 1250 mm (49.2 in) Z-axis travel
- 1450 mm (57 in) maximum distance between table surface and spindle nose
- heavy duty version: 60 kW (80 HP) spindle motor power, 450x450 mm (17.7 x17.7 in) ram cross section
- Choice of motors
- Choice of CNC controls

### OPTIONAL EQUIPMENT

- Manual or automatic indexing angular milling heads
- Manual or automatic indexing universal milling heads
- CNC milling heads
- Automatic tool changer with 12/16/20/30 tools
- Twin table
- Coolant through the spindle