



## 2-1 Machine Specifications

Description	Specifications
<b>Major Dimensions</b> Table travel, left and right (X axis) Head travel, up and down (Y axis) Saddle travel, in and out (Z axis) Rapid traverse rate (All axes) Spindle centerline to pallet top Spindle nose to table centerline Height of pallet top from floor Overall machine height Floor space required Machine weight	 1,100 mm (43.3") 850 mm (33.4") 750 mm (29.5") 10,000 mm (400 ipm) 0 - 750 mm (0 - 29.5") 50 - 900 mm (2" - 35.43") 1,150 mm (45.3") 3,320 mm (130.7") 3,600 x 3,715 mm (141.7 x 146.3) 11,000 Kg (24,300 lbs.)
<b>Main Spindle</b> Type of spindle nose Main drive motor Spindle speed range, Standard High Spindle speed selection  <b>Pallet Changer</b> Overall pallet dimensions Pallet size Load capacity of pallet	 ISO N.T. #50 (MAS-BT50) DC 20 Hp (30 minutes rated) 14 - 2,000 rpm 22 - 3,150 rpm Direct rpm programming with 4-digit S words (in two gear-selected ranges)  800 x 800 mm (31.5" x 31.5") MAS405-1975, 800 mm (31.5") 1,000 Kg (2,222 lbs.), evenly distributed
<b>Worktable</b> Table load capacity Number of divisions, Standard Optional Table rotary drive motor Table clamping force Table indexer Table rotating speed Table indexing time (90°)	 1,200 Kg (2,666 lbs.), evenly distributed 72 positions in 5° steps 360 positions in 1° steps Hydraulic Motor or D.C Motor 7200 Kg (15,840 lbs.) 420 mm (16.5") dia. curvic coupling 7 rpm 5 seconds
Pallet clamping force Pallet positioning	5,600 Kg (12,400 lbs.) Positioning pins
<b>Automatic Tool Changer</b> Type of tool changer arm Drive system Tool changing time Maximum tool diameter Maximum tool weight Maximum tool length Tool changing position	 Double-ended arm Hydraulically-operated 6 seconds φ240 mm (φ9.4) 20 Kg (44.1 lbs.) 450 mm (17.7") Zero point of Y axis



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<b>Machining Capacity</b> Maximum drilling capacity (diameter) Maximum drilling force Maximum tapping capacity  Maximum milling capacity (diameter)	60 mm (2.36"), S40C steel 1,500 Kg (3,307.5 lbs.) M39 P=4.0, S40C steel M45 P=2.3, S40C steel 8", S40C steel 5", S40C steel
<b>Standard Equipment</b> Work light Foundation parts Random-selection storage drum Chip bucket	Two fluorescent lamps, 100V, 10W Anchoring bolts and mounting plates Tool storage capacity: 30 tools Also functioning as a coolant reservoir.
<b>Optional Equipment</b> Rotary index table Chip conveyor	360 positions in 1° increments Forced chip disposal by use of table feed