

SPECIFICATIONS

CONQUEST H51

SWING DIAMETER	
Max. Swing Over Way Covers	27.87" (708mm)
WORK CAPACITIES	
Chuck Size	8" (200mm)
Maximum Bar Capacity	2.00" (51mm)
Maximum Machining Diameter (BMT55)	12.342" (313mm)
Maximum Machining Diameter (BMT45)	10.600" (269.2mm)
Maximum Machining Diameter (T Style)	15.040" (382mm)
Max. Machining Length w/ Tailstock (BMT55)	25.533" (648.5mm)
Max. Machining Length w/ Tailstock (BMT45)	25.759" (654.2mm)
Max. Machining Length w/ Tailstock Hardinge T style	27.318" (693.9mm)
Max. Machining Length w/Chuck (BMT55)	19.733" (501.2mm)
Max. Machining Length w/Chuck (BMT45)	19.959" (507mm)
Max. Machining Length w/Chuck Hardinge T-Style	21.518" (546.5mm)
SPINDLE	
Max. Speed	5,000-rpm (SP); 4,700-rpm (HP)
Max. Power Rating (30 mins)	20-hp (15 kW)
Max. Torque (30 min)	168 ft-lb (228 Nm)
Spindle Nose	A2-6 / 20 C
Chuck Size	8" (200mm)
Spindle Center Height	42.96" (1091mm)
Spindle Reach	16.3" (414mm)
Spindle Bore	2.378" (60.4mm)
Spindle Orient	1.0 degree
Max. Distance from Sub to Main Spindle Face	28.9" (734mm)
Min. Distance from Sub to Main Spindle Face	0.625" (15.8mm)
TRAVELS AND FEEDRATES	
Max. X-Axis Travel	7.75" (196mm)
Max. Z-Axis Travel	28.15" (715mm)
Max. Y-Axis Travel	+2.56 to -1.0" (65 to -25.4mm)
X-Axis Rapid Traverse Rates	1,100-ipm (28m/min)
Z-Axis Rapid Traverse Rates	1,500-ipm (38m/min)
Y-Axis Rapid Traverse Rates	236-ipm (6m/min)
HARDINGE BMT-55 LIVE TOOLING TOP PLATE	
BMT-55 bi-directional	12-stations (½ turret station index for total of 24)
Square Shank	1" (25mm)
Round Shank Tooling	1.50" (38mm)
Index Time (rotation/including clamp-unclamp)	0.40/1.45 Seconds
Live Tooling Power Rating (30 Min Rating)	7.5HP (5.5 kW)
Live Tooling Max Speed	8,000-rpm

HARDINGE BMT45 LIVE TOOLING TOP PLATE	
BMT-45 bi-directional	16 station + 1/2 station index
Square shank	3/4" (20mm)
Round Shank Tooling	1.25" (32mm)
Index Time (rotation/including clamp-unclamp)	0.40/1.45 Seconds
Tool Shank Dia w/ER25 Collets	.04-.625" (1mm - 16mm)
Live Tooling Power Rating (30 Min Rating)	7.5Hp (5.5kW)
Live Tooling Torque Rating (30 Min Rating)	24.3 ft-lb (33Nm)
Live Tooling Max Speed (*1)	8000rpm
HARDINGE T-STYLE STATIC TOP PLATE	
Block Type (Static) bi-directional	12-station
Square Shank (Left, Right or Inverted Tooling)	1" (25mm)
Round Shank Tooling	1.5" (38mm)
Index Time (rotation/including clamp-unclamp)	0.40/1.45 seconds
SERVO DRIVEN TAILSTOCK	
Morse Taper (no quill needed)	MT # 4 – min. applied force =350lbs. (1560N)
Max. Traverse Rate	1500-ipm (38m/min)
Max. Applied Force	1500lbs. (6672N)
Max. BMT cutting length between centers	24.25" (615.9mm)
SUB SPINDLE	
Max. Speed	6,000-rpm
Max. Power Rating (30 min)	10-hp (7.5 kW)
Max. Torque (30 min)	41.3 ft-lb (56 Nm)
Spindle Nose	A2-5/16C
Chuck Size (Chuck Not Included)	6" (150mm)
Spindle Bore	1.89" (48mm)
Spindle Orient (optional)	1.0 degree
Max. Travel	28.275" (718mm)
Max. Traverse Rate	1500-ipm (38m/min)
MACHINE DETAILS	
Floor Space	120" x 103" x 85" (3048 x 2616 x 2151mm)
Approx. Shipping Weight	16,600 lbs. (7566kg)