

SPECIFICATIONS		250-W 2S	350-W 2S	250-W 2S	350-W 2S	550-W 2S		
		1000	1500	1000	1500	2000		
		Upper Saddle	Upper Saddle	Lower Saddle	Lower Saddle	Upper Saddle	Lower Saddle	
		Ø 530 (20.87)		----	----	Ø 720 (28.34)		
Swing Over Bed	mm (in)	Ø 530 (20.87)		----	----	Ø 720 (28.34)		
Max Machining Dia	mm (in)	XA: Ø 550 (21.65)		XB: Ø 230 (9.06)	XB: Ø 330 (12.99)	XA: Ø 720 (28.34)	Ø 370 (14.76)	
Distance Btw Noses	mm (in)	ZA: 1,440 (56.69)	ZA: 1,940 (76.38)	----	----	2,505 (98.62)	3,505 (137.99)	
X Travel	mm (in)	XA: 475 (+390 to -85) (18.70 [+15.35 to -3.34])	XA: 505 (+420 / -85) (19.88 [16.53+3.34])	XB: 160(+115 -- 45) (6.30 [+4.53 -- 1.77])	XB: 210 (+165/-45) (8.26 [+6.49 / -2.16])	0 position: 610 (+585 / -25) (24.01 [+23.03 / -.98])		
Z Travel	mm (in)	ZA: 1,170 (46.06)	ZA: 1,670 (65.74)	ZB: 1,155 (45.47)	ZB: 1,670 (65.75)	2,215 (87.20)		
Y Travel	mm (in)	160 [+80 / -80] (6.30 [+3.15/-3.15])	190 [+95 / -95] (7.48 [+3.74/-3.74])	----	----	250 [9.84]		
C-Axis 1 and 2 (Rt Spndl)	deg	360 Rotary Axis-Control Angle 0.001		----	----	360 Rotary Axis-Control Angle 0.001		
B-Axis	deg	210 (-15 ~ +195), 1 Step [opt. 0.001 Step]		----	----	210 (-15 ~ +195), 1 step [opt. 0.001 Step / opt. 0.001 Contouring]		
Turret Type	deg	H1 ATC-Integral B-Axis 1		VDI40, NC Servo, Non-Lift Radial Pocket	----	H1 ATC-Integral B-Axis 1		
Index Time	sec/deg	0.7 / 90	----	0.25 / 180 (Station 0.4 sec)	----	----	0.25 / 180 (Station 0.4 sec)	
Tooling Spec	inch	HSK-A63 (O.D. 1"sq, I.D. 1.5)	HSK-A63 (O.D. 1"sq, I.D. 1.5)	VDI40	----	----	VDI40	
Tool Shank Type		HSK-A63 [Opt: CAPTO-C6, KM-63]	HSK-A63 [Opt: CAPTO-C6, KM63, CAT40]	----	----	CAT50 [Opt: KM-100, HSK-A100]		
Magazine Capacity		44 [Opt: 80, 120, 180]	44 [Opt: 80, 120 Max]	----	----	All "Fixed" Type: 32 [Opt: 50, 80, 120, 180]		
Tool Changing Time	sec	T-T: 2.9, C-C: 4.2 0-deg position-HSK-normal tool		T-T: 3.0 / C-C: 5.0	0.25	----	----	
Rapid Traverse	m/min (ipm)	X: 30 (1,181) Y: 26 (1,023) Z: 40 (1,575) W: 40 (1,575)		X: 30 (1,181) Z: 40 (1,575)		X: 30 (1,181) Y: 26 (1,023) Z: 40 (1,575) W: 40 (1,575)	X: 30 (1,181) Z: 40 (1,575)	
Rapid Traverse	m/min (ipm)	B: 30 (1,180) C: 200 rpm		----	----	B: 30 (1,180) C: 200 rpm		
Min / Max Feedrate	mm (in)	X, Z: 0.001-1,000.00 (0.000040-39.3700)				X, Y, Z: 0.001-1,000.00 (0.000040-39.3700)		
Servo Power	kW (hp)	XA: (8) Y: (4) ZA: (8) W: (5.3) B: (3.7)	XA: (8.0) Y: (4.0) ZA: (8.0) B: 3.7 W: (8)	XB: (5.3) ZB: (5.3) XB: (5.3) ZB: (8.0)		XA: (8) Y: (4) ZA: (8) W: (5.3) B: (3.7)		
Effective Thrust	kgf (lbf)	ZA: 4,387 (987)		ZA: 4,387 (987)	ZB: 4,736 (1,066)	----	----	
Quill Type		Dead Quill MT#5 [opt. Live Quill MT4]		Live Quill MT4	----	Live Quill MT5		
Machine Height	mm (in)	2,900 (114.17)		2,950 (116.14)	----	3,105 (122.24)		
Floor Space WxD (Std ATC)	mm (in)	3,820x2,540 (150.4x100)		4,560x2,640 (179.5x103.5)	----	(242.1x121.0) (281.5x121.5)		
Net Weight (Std ATC)	kg (lbs)	2S-C: 11,500 (25,300) 2S-W: 12,545 (27,600)	350 1S-C (25,140) 350 1S-W(26,140)	350 2S-C: (27,940)	350 2S-W: (30,140)	----	2SW (61,600)	
		Mac250 & 350 Left Spindle Std.		Mac250 Right Spindle Std.	250 Rt Spndl [opt] 350 Rt Spndl Std.	250 Rt Spndl [opt] 350 Rt Spndl [opt]	Mac 550 Left Spindle Std.	Mac 550 Right Spindle Std.
Spindle Speed	min ⁻¹	38-500-5,000		45-6,000	38-500-5,000	38-500-5,000	35-3,500	38-3800
Spindle Nose Type		A2-6		JIS Ø 140 flat	A2-6	A2-6	SB: A2-8	A2-8
Spindle Bore	mm (in)	Ø 62 (2.44)		Ø 43 (1.69)	Ø 62 (2.44)	Ø 62 (2.44)	Ø 90 (3.54)	Ø 80 (3.15)
Std. Power	kW (hp)	22 / 15 (30 / 20)		11 / 7.5 (15 / 10)	15/11/7.5(20/15/10)	22/15/(30/20)	(40 / 30)	22 / 15 (30 / 20)
3-Jaw Hyd. Chuck		Ø 8 Hollow-Incl.		Ø 6 Hollow-Incl	Ø 8 Hollow-Incl.	Ø 8 Hollow-Incl.	Ø 15 Hollow	Ø 10 Hollow
Draw Tube Assy I.D.	mm (in)	Ø 52 (2.04)		Ø 32.5 (1.28)	Ø 52 (2.04)	Ø 52 (2.04) Thru	Ø 78 (3.07)	Ø 70 (2.75)
C-Axis	deg	360x0.001		360x0.001	360x0.001	360x0.001	Full C-Axis-360, 0.001 increment	