



SPECIFICATION SHEET

HEAVY DUTY 4 WAY BED CNC LATHE TOP-TURN S60/S80/S100



VIA Machine Tools Ltd
Advanced Manufacturing Park
Technology Centre
Brunel Way
Rotherham
S60 5WG
England



HEAVY DUTY 4 WAY BED CNC LATHE TOP-TURN S60/S80/S100

Specification		S60	S80	S100
Swing over bed	mm (in)	1600 (63.0)	2000 (78.74)	2400 (94.48)
Swing over crossslide	mm (in)	1050 (41.44) *	1520 (59.94) *	1920 (75.59) *
Distance between centres	mm (in)	2,000 up to 25,000 (80 up to 984)		
Spindle				
Max spindle speed	RPM	1-500 **		
Spindle speed steps		4		
Spindle nose (Standard)		A2-15		
Spindle nose (Options)		A2-20 A2-28		
Spindle motor (Standard)	Kw (Hp)	30/37 (40/50) 30/37 (40/50)		
Spindle motor (Options)	Kw (Hp)	37/45 (50/60) 60/75 (80/100)		
Spindle bore (Standard)	mm (in)	230 (9.0) A2-15		
Spindle bore (Options)		320 (12.6) A2-20 368 (14.5) A2-20 410 (16.1) A2-28 440 (17.3) A2-28 535 (21.0) A2-28 610 (24.0) Special Order		
Turret				
Type		Servo		
Number of tool stations		12		
Turret Width	mm	300		
Shank height on square tool	mm	40		
Boring bar diameter	mm	60, 80,100		
Boring bar attachment	mm	150 - 250		
X Axis				
Type		Box Way		
Travel	mm (in)	800 (31.5)	1000 (39.37)	1200 (47.24)
Rapid motion speed	M/min	12		
Ball screw diameter	mm	63		
Bedway width	mm (in)	1010 (39.76)		
Z Axis				
Type		Box Way		
Ball screw diameter	mm	63 Over 4M Bed Length - 80 Dia		
Rapid motion speed	M/min	8		
Bedway width	mm (in)	1940 (76.37)		

* Specification change from the dimensions shown in the 2012 brochure

** Max RPM depends on spindle bore and chuck selection

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Tailstock		S60	S80	S100
Tailstock movement type		PLC		
Quill movement type		Hydraulic		
Quill diameter	mm (in)	235 (9.25)		
Quill diameter (options)	mm (in)	360 (14.17)		
Quill travel	mm (in)	250 (9.84)		
Bed way width	mm (in)	780 (30.70)		
Coolant system				
Tank capacity	L	350	350	
Standard Accessories				
Fanuc Oi-TB CNC control Including: Manual guide Thread repair Retract and recover		*		
Spindle Motor - 30/37 Kw (40/50 Hp)		*		
Spindle bore- 230mm		*		
Spindle nose - A2-15		*		
Headstock lubrication and thermal control		*		
Electric cabinet cooler		*		
Tailstock Quill Taper -MT6		*		
Hydraulic power tailstock		*		
Turret 12 position		*		
Tray type chip conveyor and cart		*		
Slide way and ball screw lubrication system		*		
Semi safety guard		*		
High pressure coolant pump		*		
Working light		*		
Tool box & kit		*		
Levelling pads		*		
Operation manuals and parts list		*		

Distance Between Centres

2000MM UPTO 22,000MM

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OPTIONS

Optional Accessories
Enlarged spindle bore
320 (12.6) A2-20
368 (14.5) A2-20
410 (16.1) A2-28
440 (17.3) A2-28
535 (21.0) A2-28
610 (24.0) Special Order
Rear chuck adaptor
Chuck Options (additional options available on request)
3 Jaw Scroll chucks with 2 piece reversible jaws
630mm (24")
700mm (28")
800mm (31.5")
900mm (35.4")
1000mm (39.35)
4 Jaw Scroll chucks with 2 piece reversible jaws
630mm (24")
700mm (28")
800mm (31.5")
900mm (35.4")
1000mm (39.35)
4 Jaw Independent 2 piece chucks
700mm (28")
800mm (31.5")
900mm (35.4")
1000mm (39.35)
1200mm (47.24)

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Hollow Oil Country Chucks
3 Jaw <u>Hydraulic</u> hollow power chuck (SMW)
500mm (20") A15 - hole-165mm
630mm (24") A15 - hole-205mm
800mm (31.5") A15 - hole-205mm
3 Jaw <u>Pneumatic</u> hollow power chuck. (SMW)
BB-N 600 - hole 275mm -Z450
BB-N 630 - hole 310mm -Z510
BB-N 800 - hole 410mm -Z700
BB-N 1000 - hole -535mm -Z700
3 Jaw <u>Scroll</u> hollow oil country chucks (2 piece reversible jaws)
630mm (24") A15 - hole - 280mm
700mm (28") A20 - hole -318mm
800mm (31.5") A20 - hole - 370mm
900mm (35.4") A28 - hole - 370 or 407mm
1000mm (39.35) A28 - hole - 470 or 572mm
4 Jaw <u>Independent</u> hollow oil country chucks (2 piece reversible jaws)
600mm (23.6") A15 - hole - 267mm
700mm (28") A20 - hole - 318mm
800mm (31.5") A20 - hole - 318mm / 360mm
900mm (35.4") A28 - hole - 318mm / 360mm
1000mm (39.35) A28 - hole - 318mm
1000mm (39.35) A28 - hole - 360, 410 or 535mm
1000mm (39.35) Special Order - hole 610mm

*Larger chuck sizes are available with a selection of bore configurations. These can be quoted on request.

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Enlarged spindle motor
37/45 KW (50/60 Hp)
60/75 KW (80/100 Hp)
Steady rest (bearing supporter)
30mm - 350mm
50mm - 400mm
300mm - 610mm
600mm - 1000mm
Self centring hydraulic rest (SMW)
30mm - 245mm
45mm - 310mm
215mm - 510mm
Linear scale on X axis
Linear scale on Z axis
Boring bar attachment 100mm - 250mm diameter (S80, S100 ONLY)
C axis
12 Station VDI 50 disc
Baruffaldi turret
TBMA 250
Fanuc Alpha 8 AC spindle motor
12 Station VDI 60 disc
Baruffaldi turret
TBMA 320
Fanuc Alpha 12 AC spindle motor
12 Station VDI 80 disc
Baruffaldi turret
TBMA 400
Fanuc Alpha 15 AC spindle motor
Y Axis
22i Servo motor capacity + / - 110mm
Fanuc upgrade to 31i or 32i is required for the Y axis option
Control options
Fanuc 31i
Fanuc 32i
Siemens 810D
Siemens 840D

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