



SPECIFICATION SHEET

HEAVY DUTY SLAT BED CNC LATHE TOP-TURN S33 / S36



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



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Specification		S33	S36
Swing over bed	mm (in)	670 (26.4)	780 (30.7)
Max turning diameter (over carriage)	mm (in)	500 (19.7)	550 (21.7)
Max turning diameter (with Y axis option)	mm (in)	475 (18.7)	475 (18.7)
Distance between centres	mm (in)	700, 1200, 1700, 2200 (27.5, 47.2, 66.9, 86.6)	700, 1200, 1700, 2200 (27.5, 47.2, 66.9, 86.6)
Spindle			
Max spindle speed	RPM	2,500 *	1,500 *
Spindle speed steps		Variable	3
Spindle nose		A2-8	A2-11
Spindle motor (Standard)	Kw (Hp)	15/18.5 (20/25)	22/26 (30/35)
Spindle bore using manual chuck	mm (in)	105 (4.13)	165 (6.49)
Bar capacity using 12" hydraulic chuck (S33 only)		91 (3.58)	-
Bar capacity using 15" hydraulic chuck (S33 & S36)	mm (in)	91 (3.58)	117.5 (4.6)
Bar capacity using 18" hydraulic chuck (S36 only)	mm (in)	-	117.5 (4.6)
Bar capacity using 20" hydraulic chuck (S36 only)	mm (in)	-	155 (6.1)
Turret			
Type		Servo	Servo
Number of tool stations		10	10
Shank height on square tool	mm	32	32
Boring bar diameter	mm	50	50
X Axis			
Type		Box Way	Box Way
Travel	mm (in)	305 (275 + 30)	305 (275 + 30)
Rapid motion speed	M/min	15	15
Ball screw diameter	mm	40	40
Z Axis			
Type		Box Way	Box Way
Rapid motion speed	M/min	24	24
Ball screw diameter	mm	50	50

* Max spindle RPM depends on chuck selection

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Tailstock		S33	S36
Tailstock movement type		PLC	PLC
Quill movement type		Hydraulic	Hydraulic
Quill diameter	mm (in)	110	110
Quill travel	mm (in)	100	100
Quill taper		MT5	MT 5
High Pressure Coolant system			
Tank capacity	L	100	100
Standard Accessories			
Fanuc Oi CNC control		*	*
Manual Guide i		*	*
Arbitrary Threading Function		*	*
Headstock lubrication and thermal control		*	*
Electrical cabinet cooler		*	*
Tailstock Quill Taper –MT5		*	*
Hydraulic power tailstock		*	*
Turret 10 position		*	*
Tray type chip conveyor and cart			*
Slide way and ball screw lubrication system		*	*
Full safety guard		*	*
High pressure coolant pump (15 bar)		*	*
Working light		*	*
Tool box & kit		*	*
Levelling pads		*	*
Face cut holders - 2 off		*	*
Boring tool holders – 4 off		*	*
Boring bar sleeves 10, 12, 16, 20, 25, 32 (one of each)		*	*
Operation manuals and parts list		*	*

Distance between centres
700mm (600mm turning length)
1200mm (1100mm turning length)
1700mm (1600mm turning length)
2200mm (2100mm turning length)

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OPTIONS

Steady rest (Manual)
15mm – 310mm diameter
Self centring hydraulic rest (SMW)
12mm - 152mm diameter
20mm - 165mm diameter
50mm - 200mm diameter
Hydraulic 3 jaw Chucks
12" Hydraulic chuck (91mm bar capacity) - (S33 only)
15" Hydraulic chuck (117.5mm bar capacity) - (S33 & S36)
18" Hydraulic chuck (117.5mm bar capacity) - (S36 only)
20" Hydraulic chuck (155mm bar capacity) - (S36 only)
Renishaw touch probe tool measuring system
Linear scale on X axis
Bar feed interface
Bar feed DH-65 (5mm – 65mm dia)
Bar length – 1250mm
Parts catcher
Auto door
C Axis and live tooling with 12 station VDI 40 turret.
0.001 Degree spindle indexing
Fanuc Alpha 3 AC spindle motor
5000 RPM
ID tool size – 40mm
OD tool size – 25mm
Max drill/mill tool – 20mm
Max tapping tool – M12
C Axis + Y Axis
Y Axis Movement range +/- 55mm
Control options
Fanuc 31i
Fanuc 32i
Siemens 810D
Siemens 840D

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Static and Live Toolholders (VDI40 live turret)

Axial drilling and milling head
Radial drilling and milling head
ER32 Spring collet chuck (E4-40x32)
ER32 collet 18 piece collet set (3-20mm)
Turning toolholder
Facing toolholder
Boring toolholder
E40 Sleeves - 8,12,16,20,25,32 mm (each)
U drill toolholder
VDI40 MT1 / MT2 taper
K Plug

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