



1.1. Machine Specification

Refer to the machine outline drawing for specific dimensions and machine configuration.

Machine Type	HPT Horizontal Machining Centre			
Spindle Head Type	Orthonogal 2 ½° Auto Index Head			
Traverses	Travelling Table	X	Horizontal	3000 mm
	Ram Carriage	Y	Vertical	1500 mm
	Ram	Z	Horizontal	1000 mm
Spindle Speeds (Rpm)	10	500	1500	3000
Spindle Power (Kw)	0.6	30	30	30
Duty Rating	VDE 0530		S1	
Control System	Heidenhain TNC426PB			
Travelling Table				
X-Axis Traverse	Total	3000 mm		
X-Axis Traverse	Working	3000 mm		
Table Size	3000 mm x 1200 mm			
Load Capacity	10000 Kg			
X-Axis Feed Transmission System	BallscREW & double nuts			
X-Axis Feed Rate Range	1 - 20000 mm/min			
X-Axis Feed Back Resolution	0.001 mm			
X-Axis Measuring System	Heidenhain LB381C			
X-Axis Thrust	20000 N			
X-Axis Rollerway System	Recirculating Bearings and Vee-track ways			
X-Axis Rollerway Covers	Steel Telescopic			
Fixed Column				
Y-Axis Traverse	Total	1500 mm		
Y-Axis Traverse	Working	1378 mm		
Y-Axis Feed Transmission System	BallscREW and Double Nuts			
Y-Axis Feed Rate Range	1 - 20000 mm/min			
Y-Axis Feed Back Resolution	0.001 mm			
Y-Axis Measuring System	Heidenhain LB381C			
Y-Axis Thrust	20000 N			
Y-Axis Slideway System	Recirculating bearings and Vee-track ways			



Ram With Horizontal Spindle

Ram Type Indexing Cartridge
Ram Traverse 1000 mm

Z-Axis Feed Transmission Ballscrew and Double Nuts

Z-Axis Feed Rate Range 1 - 20000 mm/min
Z-Axis Feed Back Resolution 0.001 mm

Z-Axis Measuring System Heidenhain LB 381C

Z-Axis Thrust 20000 N

Ram Spindle Head Attachments

Orthogonal 2 1/2° Indexing Head
Index Range 88 x 2 1/2°
Spindle Taper ISO 50
Spindle Tool Retention Pullstuds ISO 7388/1
To Suit Arbors ISO 7388/2 Type B

External Coolant Through Spindle Jets
Through Spindle Coolant

Electrical Equipment

Customer Supply Volts 400
Hz 50

Electrical Standards *440 100* UK - CE/EMC

Electrical Enclosure Site Column Mounted

Main Operator Console Site Pendant Mounted

Auxiliary Operator Controls Heidenhain HR410
Auxiliary Operator Controls Site Operator Pendant connected

Spindle Motor Siemens 1PH6 167-4NFF06-Z
Spindle Drive Power Siemens 55 kW Infeed/Regen Module
Spindle Motor Speed (rpm) 1500 nom. rated
Spindle Motor Power (kW) S1. 37 kW

Servo Motors X Siemens} 1FT6 105-1AC71-1AG0
Y Siemens} 41 Nm, 2000 rpm
Z Siemens}
ATC Siemens}

Axes of Control Main. X, Y, Z

Measuring Systems X, Y, Z. Heidenhain

C.N.C. System

Heidenhain TNC 426PB
Spindle Orientation