

# Turning machine

## Multi-Tasking Machining. 5th axis turning and milling machine



INTEGREX 400 IV S : Shown with optional automatic steady rest

Mazak Integrex 400-IVL	
CAPACITY	
Chuck size main spindle	12 "
Maximum machining diameter	760 mm
Bar work capability main spindle	102 mm
Maximum machining length	2200 mm
MAIN SPINDLE	
Rotating speed maximum	3,300 min <sup>-1</sup>
Motor output (30 minute rating)	30.0 kW
MILLING HEAD	
Motor output (20% ED rating)	18.5 kW
Milling spindle speed maximum	12,000 min <sup>-1</sup>
FEED AXES	
Movement stroke X	630 mm
Movement stroke Z	2200 mm
Movement stroke Y	230 mm
Movement stroke W	2,155 mm
AUTO TOOL CHANGER & MAGAZINE	
Tool storage per magazine	40

## Turning machine

# Okuma Multus B750 C3000

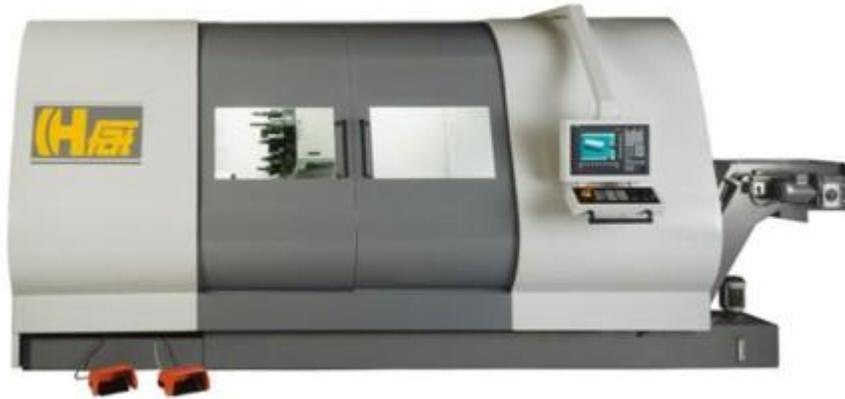


“The largest in the family of MULTUS horizontal lathes, the B750 has a maximum turning diameter in excess of 1 meter (41.34 inches, 1050 mm) that raises productivity for large parts. It features the industry’s first Collision Avoidance System software. Combined with Okuma’s THINC®-OSP Control, this software can run the entire machining simulation and catch potential collisions before they create scrap or damage the machine. Thermal-Friendly Construction assures high accuracy, even in the most complex applications.”

OKUMA MULTUS B750x3000		
working space dimensions		
Swing over bed	[mm]	Ø1050
Swing over saddle	[mm]	Ø1050
Distance between centers	[mm]	3000
additional equipment		
		B axis (head rotating) with fluent feed
		Long boring bar system L=800 [mm]

## Turning machine

# FAT FCT700A x 1600



„ The FAT FCT 700 lathe is the is the perfect slant bed lathe for fast, precise and heavy-duty turning and milling of large workpieces. The FCT 700 turning center provides a significant increase in productivity and results in increased profitability. The 70° inclined bed ensures optimum swarf removal, easy setting and inspection of the tools and optimal access to the workpiece for the operator. The FCT 700 lathe is equipped with a 12-station bi-directional toolturret with standard static VDI 50 tooling, which results in lower toolholder costs. Optionally there is available toolturret with driven tools, which in combination with the continuous Caxis enables complicated milling, drilling and tapping operations. The FCT 700 can be optionally equipped with Y-axis (VDI 40) to enable off centre drilling, milling operations and surface milling. Other additional options as measuring system on the X-axis, tool presetter, hydraulic steady rest are possible on demand. Programmable tailstock with hydraulic clamp/ unclamp system, built-in live center and automatic positioning (option) provides as well easy setting as bigger workpiece machining.”

### FAT FCT 700A x 1600

#### working space dimensions

Swing over bed	[mm]	Ø700
Swing over saddle	[mm]	Ø490
Distance between centers	[mm]	1600

#### additional equipment

12 positions rotating turret

Control: Simens 840 D SL with ShopTurn

## Turning machine

# SMT SWEDTURN 500



A biaxial lathe designed for rough and semi precise machining of large components. Has an option of the milling and drilling in the spindle axis and over it.

SMT SWEDTURN 500			
working space dimensions			
Swing over bed	[mm]		Ø650
Swing over saddle	[mm]		Ø650
Distance between centers	[mm]		2500
additional equipment			
Chain tool magazine			
Long boring bar L=690 [mm]			

# CNC milling machine

## Okuma MA-60HB

4th axis horizontal machining center.



MAIN SPINDLE	
Rotating speed maximum	10,000 min <sup>-1</sup>
Motor output	20.0 kW
FEED AXES	
Movement stroke X	1000 mm
Movement stroke Z	810 mm
Movement stroke Y	800 mm
AUTO TOOL CHANGER & MAGAZINE	
Tool storage per magazine	150
OTHER SPECIFICATION	
Pallet no.	6
Pallet Indexing	4th Degree Programmable Pallet Rotation
Pallet size	630x630mm
Max Load Capacity	1200Kg

## CNC machine

# Haas CNC 3 axis milling machine

Basic Specification	Jednostka	Wartość
X Axis	mm	508
Y Axis	mm	406
Z Axis	mm	508
Table area X x Y	mm	660x356
Maximal weight on table	kg	1 361
Taper	ISO	40 (SKD 40)
Maximal spindle speed	min-1	15 000
Feedrates rapids X , Y , Z	m/min	25,4
Maximal cutting	m/min	16,5
Carousel tool changel	qty	20
Positioning accuracy	mm	+/-0,005
Misscelaneous	External coolant filter	



## ABB IRB family



Specyfication	IRB 1400 + pozycjoner IRPB 750 D Special	IRB 2400L + pozycjoner IRPB 500 D
Number of axis	6	6
Welding source	ESAB (ABB) Aristorob LAL-500 (400 [A] / 100%)	FRONIUS Trans-Pulse synergic 5000 (360 [A] / 100%)
Method of welding	MAG (138)	MAG (138)
Number of positioners	2	2
Number of positioner axis	2	2
Max load different sides 1 and 2, max overall dimensions of welded part.	250 [kg], ( $D_{max}$ 900 / $L_{max}$ 1600 [mm])	250 [kg], ( $D_{max}$ 1000 / $L_{max}$ 1600 [mm])
Ilość pozycjonerów	2	2
Ilość osi pozycjonera	2	2
Udźwig pozycjonera strona 1 lub 2 i gabaryty detalu spawanego	250 [kg] ( $D_{max}$ 900 / $L_{max}$ 1600 [mm])	250 [kg] ( $D_{max}$ 1000 / $L_{max}$ 1600 [mm])