



# Fixed table, multiple moving gantries

## Port-Max

4x6' to 5x100'



Optional with Heidenhain iTNC 530, 15" LCD. Other sizes available on request.

- Port-Max series mills are especially suitable for large and heavy workpieces. The gantries have feed in all axes, thus avoiding the movement of the workpiece. The rigid machine table supports loads up to 2000 kg/m<sup>2</sup> (1,300 lbs/ft<sup>2</sup>) and thus offers sufficient provision for very large workpieces.
- The gantry uses high-load roller linear guides. This avoids the slip-stick effect and ensures excellent precision over many years, even with the heavy demands of hard everyday production. The accuracy of this machine is truly remarkable. The feed length interacting with the high-resolution digital drives allow it to always deliver accurate parts to customers.
- Standard tool changer with 24 positions, ZF Duoplan transmission for main spindle with max. 660 Nm (487 ftlb) torque, automatic lubrication, and double chip conveyor provide for an effective basic model in this series, ideal for numerous milling applications.
- Flexibility in the choice of CNC controls (Mitsubishi, Siemens, Fanuc, or Heidenhain), together with options like CTS, various milling heads and glass scales, enable this machine to meet just about any customer requirement.

### Standard configuration

- Fanuc Oi-MD including Manual Guide control
- Electrical handwheel (MPG)
- Spindle oil cooling
- Spindle blow out function
- Coolant system
- Automatic lubrication
- Rigid tapping
- Three-color warning light
- RS-232, W-Lan and CF-card
- ZF-Duoplan 2K2150 L/H gearbox
- Air and coolant gun
- Partial guarding
- Chip conveyors
- Work light
- ATC 24 tools
- Foot pedal for tool change
- X-axis by rack/pinion drive
- High end linear roller guideways
- Tool kit
- Leveling pads
- Operation manual

### Optional configuration

- Mitsubishi, Siemens or Heidenhain control
- Coolant through spindle, CTS 35/70 bar (500/1000 psi)
- Glass linear scales for selected axes
- Full guarding
- Extended Z-axis travel
- Heat exchanger for electric cabinet
- Additional milling heads
- ATC up to 120 tools
- Tool and workpiece measurement (Renishaw, Blum, Marposs)

Two gantry solution for long size complex precision machining

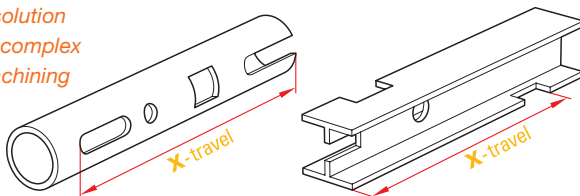
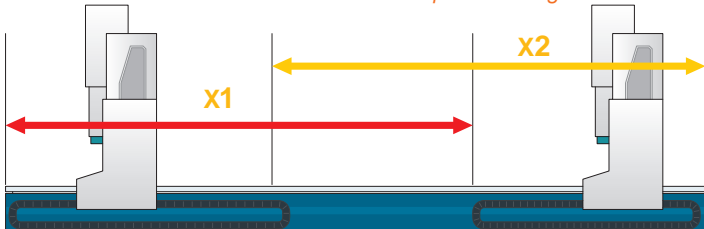
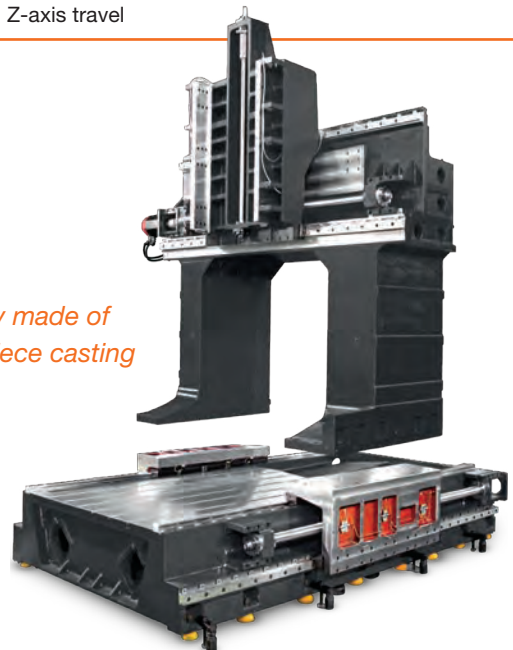


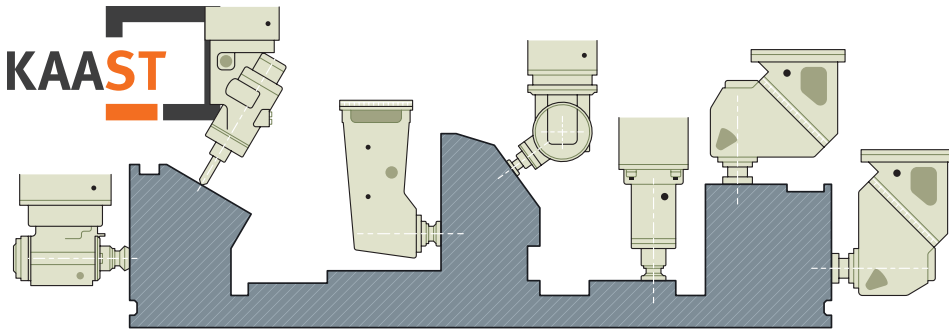
Table and Base made of one piece casting



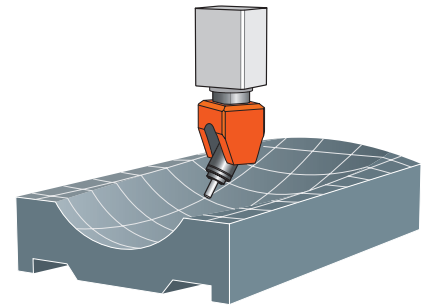
Gantry made of one piece casting



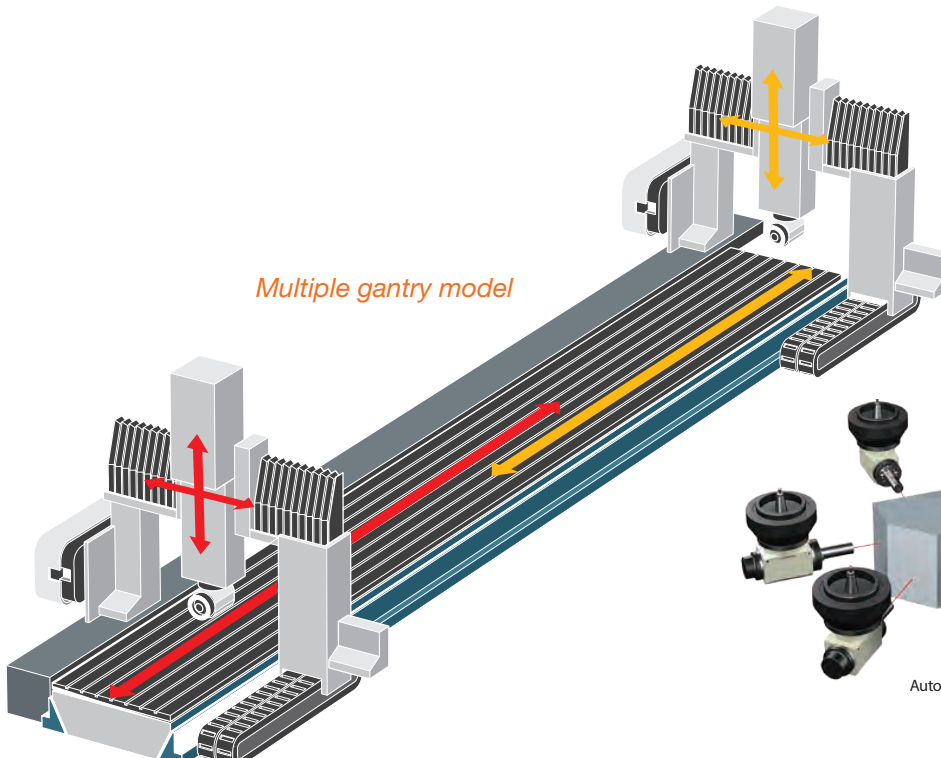
\*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.



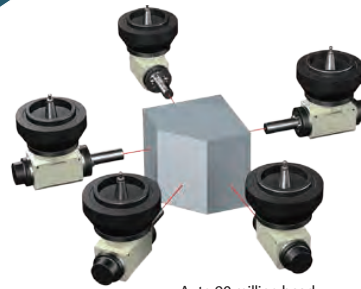
5 Face index head



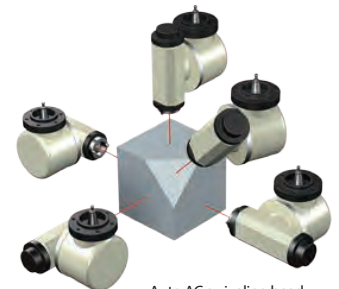
5 axis Simultaneous head



Multiple gantry model



Auto 90 milling head



Auto AC swiveling head

Auto 5 Face machining function

Specifications		Port-Max 1300		Port-Max 1600	
		4' Y-axis travel		5' Y-axis travel	
Axis travel	X	mm	2000-30000 (78-1180")		
	Y	mm	1300 (51")	1600 (62")	
	Z	mm	800 [opt. 1100] (31" [opt. 43"])		
Distance between columns	mm	1300 (51")	1600 (62")		
Table dimensions (W/L)	mm	1100x2000-30000 (43x78-1180")		1400x2000-30000 (55x78-1180")	
Spindle-table distance	mm	320-1120 (12-44")			
Spindle taper		BT50			
Speeds	rpm	6000			
Main spindle motor	kW	15/18.5 (20/24 Hp)			
Cutting feed rate	mm/min	5-8000 (0.1-314"/min)			
Rapid traverse - X/Y/Z axis	m/min	15/15/15 (590/590/590"/min)			
Control system		MITSUBISHI M70			
ATC		Vertical ATC, 24 tool magazine			
Max. tool diameter	mm	Ø125/Ø220 without adjacent tool (4/8")			
Max. tool length	mm	400 (15")			
Max. tool weight	kg	15 (33 lbs)			
Max. table load	kg/m²	2000 (1,300 lbs/ft²)			
Dimensions (L/W/H)	mm	5400-35400/4500/4660 (212-1393/177/183")		5400-35400/4800/4660 (212-1393/188/183")	
Weight	kg	from 18000		from 20000	
Item No.		<b>6630107</b>		<b>6630108</b>	

- Numerous applications of this machine can be realized with the optional milling heads. 90° angle heads in controlled and manual versions, 5-side automatic indexing heads, and 5-axis fully simultaneous heads highlight the performance of this machine concept.

- The guidance and drive elements built into the machine table also permit the use of multiple gantries on one machine with comparatively low additional cost. In this way, several components can be machined in parallel or a single component can be cut with two gantries.

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