



# 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 3000 kg/m<sup>2</sup> (600 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

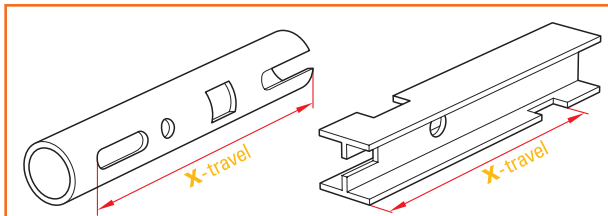
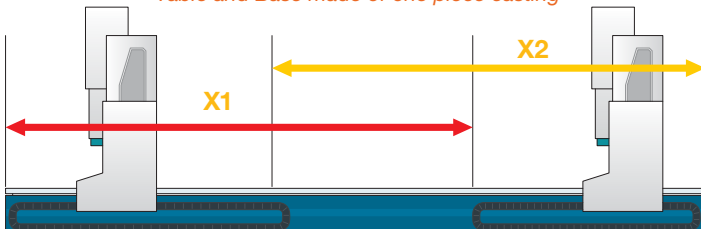


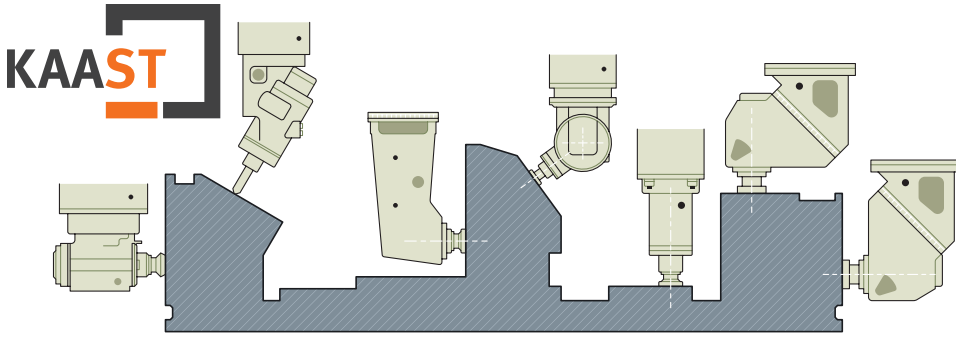
Table and Base made of one piece casting



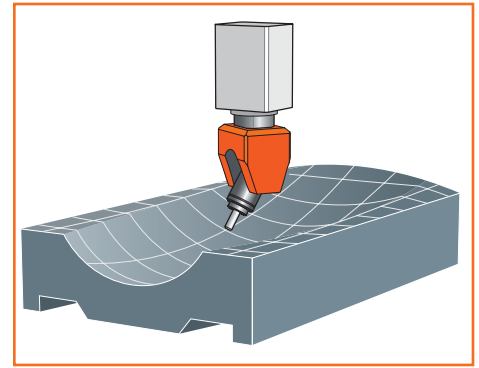
Gantry made of one piece casting



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

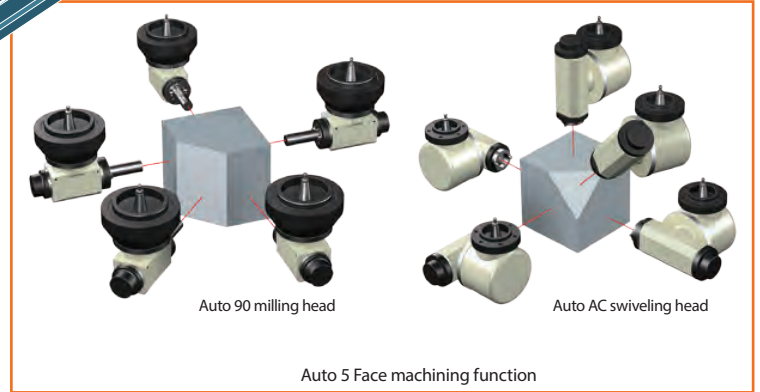
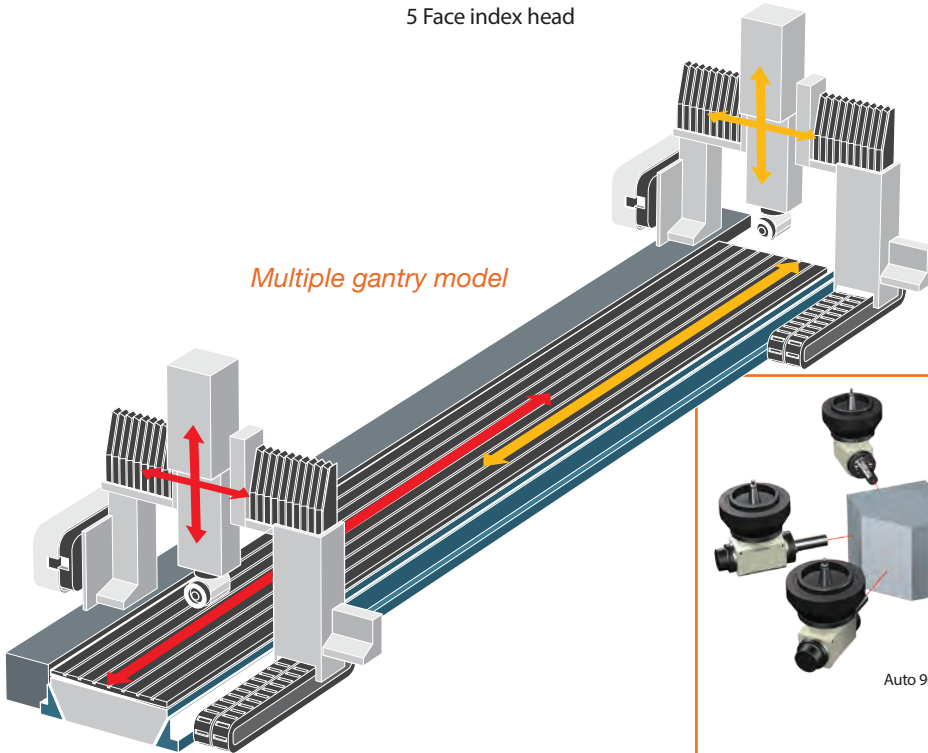


5 Face index head



- 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.

Multiple gantry model



Auto 90 milling head

Auto AC swiveling head

Auto 5 Face machining function

Specifications			Port-Max	
			1300	1600
			4' Y-axis travel	5' Y-axis travel
Travels	X	mm	2000-30000 (78-1180")	
	Y	mm	1300 (51")	1600 (62")
	Z	mm	800 (31") [opt. 1100 (43")]	
Distance between columns		mm	1300 (51")	1600 (62")
Table dimensions (W/L)		mm	1000x2000-30000 (40x78-1180")	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			Fanuc Oi-MD	
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	3000 (600 lbs-ft²)	
Dimensions (L/W/H)		mm	5400-35400x4500x4660 (212-1393x177x183")	5400-35400x4800x4660 (212-1393x188x183")
Weight		kg	from 18000	from 20000
Item No.			<b>6630107</b>	<b>6630108</b>

- 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.

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