

Specifications

Machine specifications

Maximum Chuck size		210 mm (8")
Maximum Swing	15 stations	205 mm
(with plain head)	12 stations	228 mm
Maximum bar diameter	Standard	55 mm
	Option	65 mm
Number of turret stations	T2	15 (upper) & 12 (lower)
	T3	15 (upper & right) & 12 (lower)
Use tool	O.D tool	□ 20 mm
	Boring bar	40 mm
Spindle diameter at front bearing mounting	Standard	100 mm
	Option	110 mm
Spindle nose size		JIS A2-6
Spindle speed range	100	5,000 rpm
	110	4,000 rpm
Spindle drive motor		15 kW/30 min (11 kW/cont.)
Stroke	Upper turret	X : 220 mm / Z : 770 mm / Y : ± 40 mm
2 turrets spec.	Lower turret	X : 200 mm / Z : 770 mm / Y : ± 40 mm
	Right spindle	Zs : 880 mm
Stroke	Upper turret	X : 220 mm / Z : 220 mm / Y : ± 40 mm
3 turrets spec.	Lower turret	X : 200 mm / Z : 770 mm / Y : ± 40 mm
	Right turret	X : 220 mm / Z : 220 mm / Y : ± 40 mm
	Right spindle	Zs : 880 mm
Rapid traverse rate	All turrets	X-axes : 24 m/min
		Z-axes : 36 m/min
		Y-axes : 12 m/min
	Right spindle	Zs-axis : 36 m/min

Live tool specifications

Live tool drive motor		5.6 kW (Maximum torque 18.0 Nm)
Maximum speed		4500 rpm
Maximum tool shank size		Milling : 16 mm, Tap : M16
C-axis positioning accuracy		± 0.015°
C-axis maximum speed		200 rpm
C-axis least move increment		± 0.001°

CNC Gantry loader specifications

Loader workpiece handling capacity (size & weight)	3 Jaws	140 mm × L105 mm, 5.0 kg
	2 Jaws	65 mm × L160 mm, 4.0 kg
Stroke	Z-axis	Left : 2,080 mm, Right : 3,360 mm
	Y-axis	Up/Down : 680 mm
	X-axis	Front/Rear : 210 mm
Rapid traverse rate	Z-axis	Left/Right : 160 m/min
	Y-axis	Up/Down : 120 m/min
	X-axis	Front/Rear : 35 m/min

■ Safety Specification

For EU countries, machines are built with CE-safety conformity.

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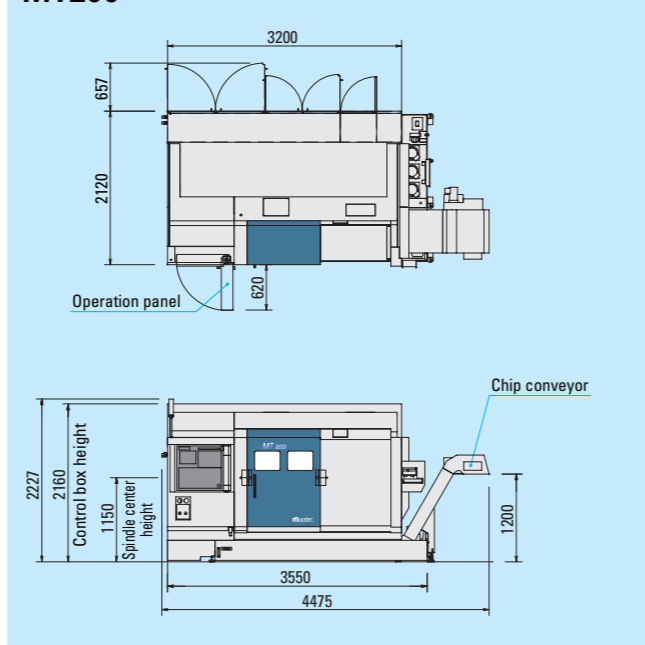
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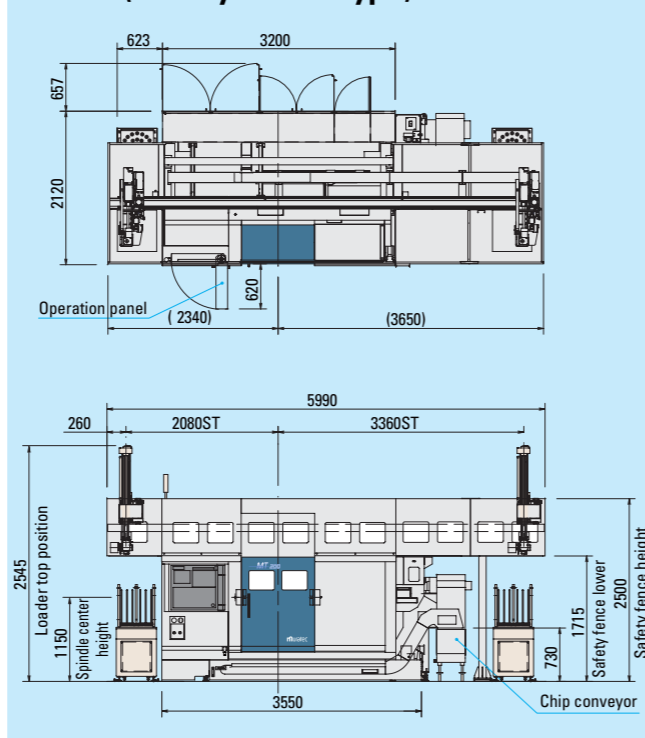
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Floor Plan

MT200



MT200 (Gantry loader type)



* Machine appearance may differ to that shown in the catalogue pictures.
* All specifications are subject to change without advance notice.



High Productivity Multi-Tasking Machine

MT200

High Productivity Multi-Tasking Machine

MT200

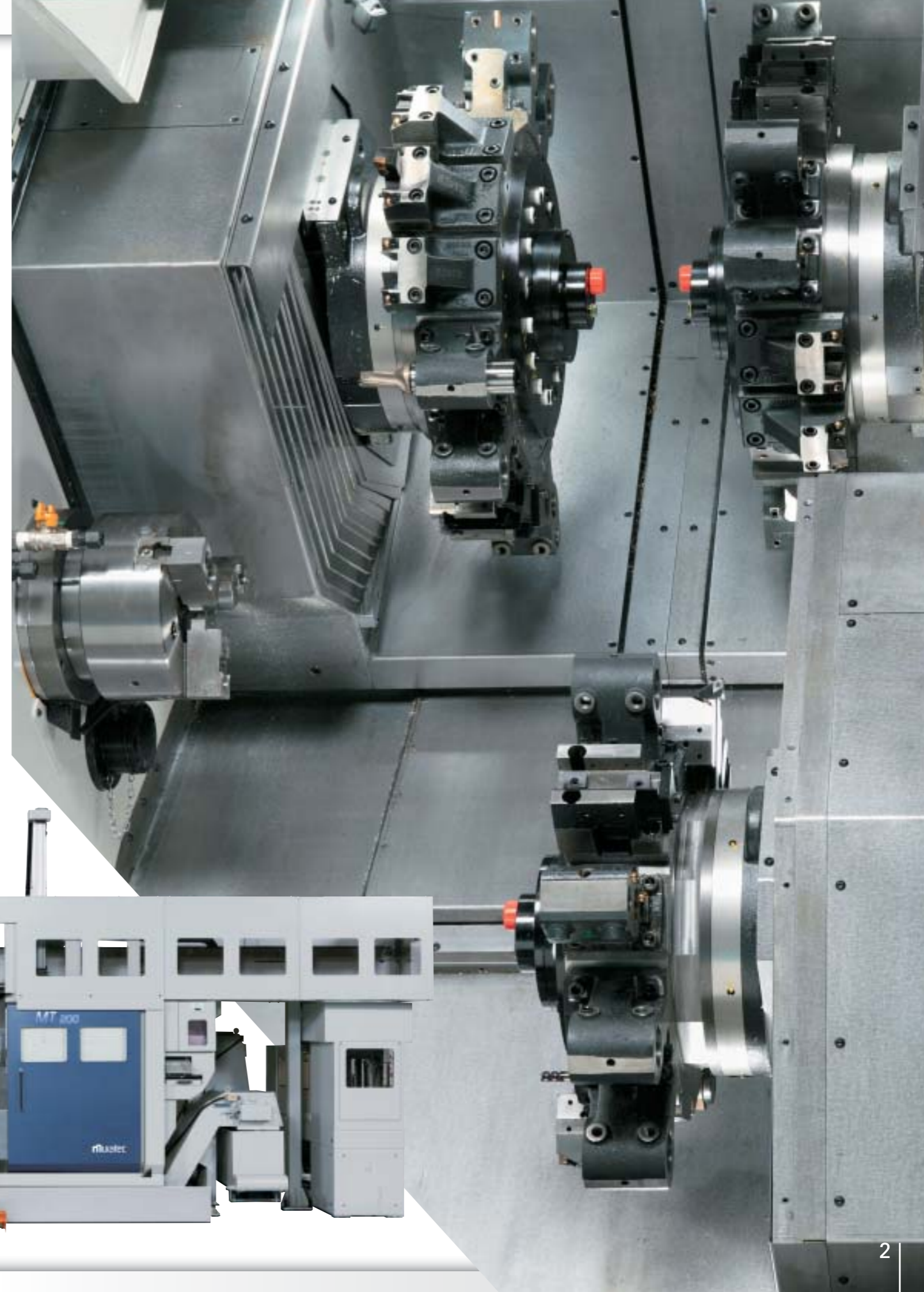
Multiple Operations by Multiple Turrets

Flexibility : Bar and Chuck work

All-In-One Solution with Flexible automation

High Performance and Compact Design

- 55 mm Dia. Bar size on both spindles (65 mm Dia. Option)
- 15 kW Spindle Motor (Both Spindles)
- Y-axis 80 mm stroke on All Turrets
- 5.6 kW Live Tool Motor on All Turret Positions
- High Speed 3-Axis CNC Gantry Loader
- Compact Floor Space 3.2 m x 2.1 m (W x D)

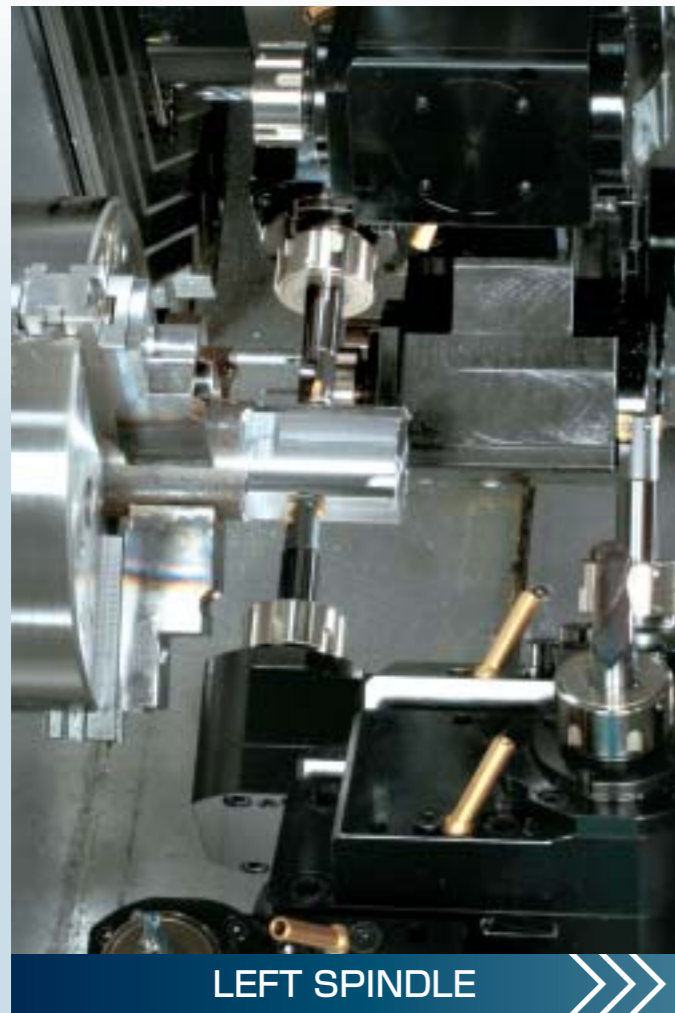


High Productivity Multi-Tasking Machine

MT200

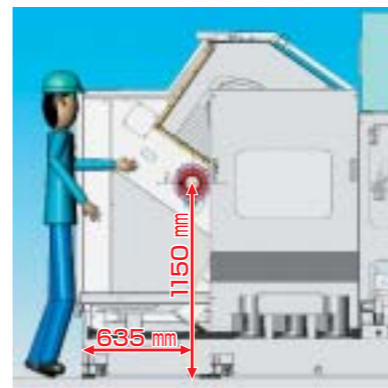
Specifications

- Target parts size : ϕ 55 bar material (ϕ 65 Option)
maximum ϕ 210 Chuck work
- Spindle motor : 15 kW/30min (Left/Right)
- Turret : 2 turrets (3 turrets : Option)
Upper turret-15 station,
Lower turret-12 station
- Live tool & Y-axis function on all turrets
- Live tool motor : 5.6 kW/30min
(On All Turret Positions)



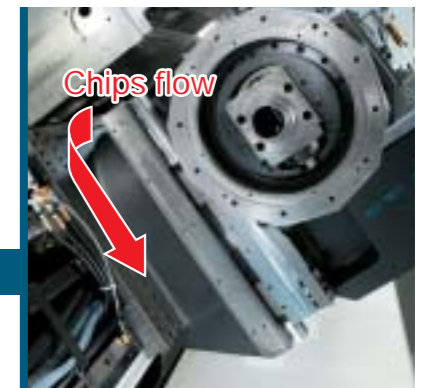
Y-axis movement is available on both the upper and lower turrets. Simultaneous live tool machining is possible utilizing both the upper and lower turrets for each spindle. This allows for the manufacture of complex part geometries in an efficient manner.

Workability and Maintainability



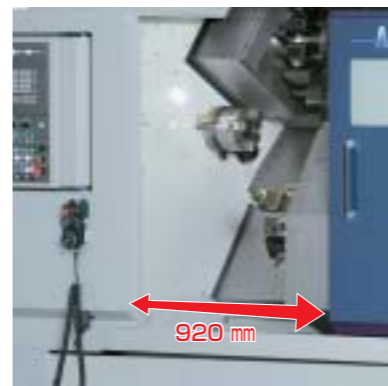
Easy access to spindle

The MT200 design ensures easy access to the main spindles by reducing the distance between the machine front and the spindle center.



Lower Turret Chip Flow

The lower turret is designed with appropriate space for chips to fall so that accumulation does not occur.



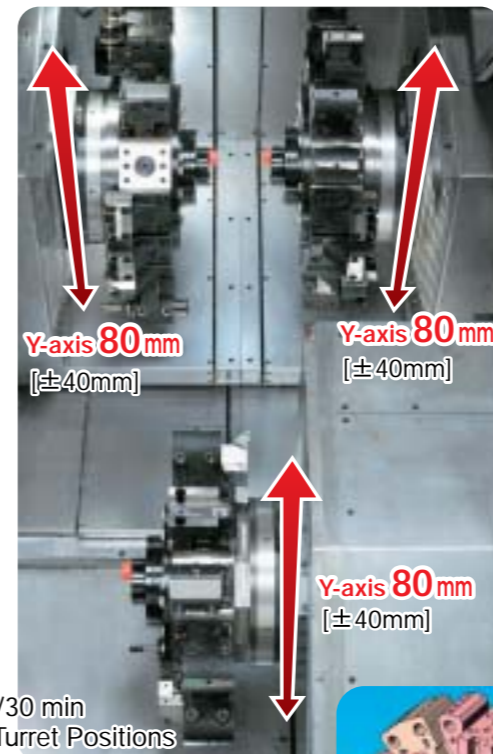
Wide door Opening

Since the door opening area has been widened, workholding replacement, tool changeover, and maintenance work is easily performed.

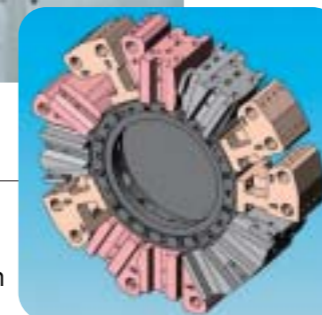


Operation panel

The buttons and layout of the operation panel have been designed in a manner that allows for easy operation of the Three Turrets.



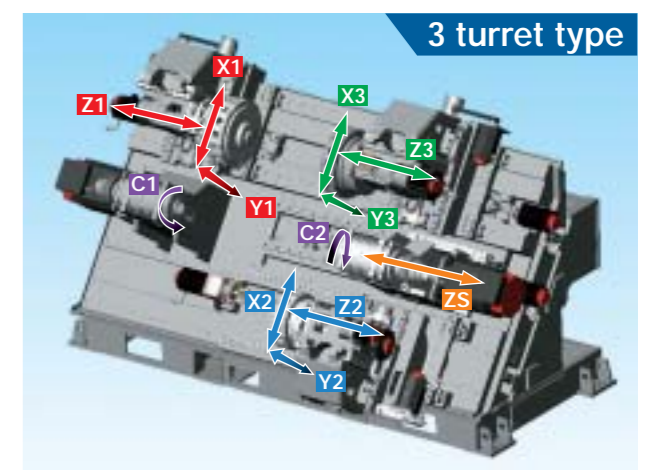
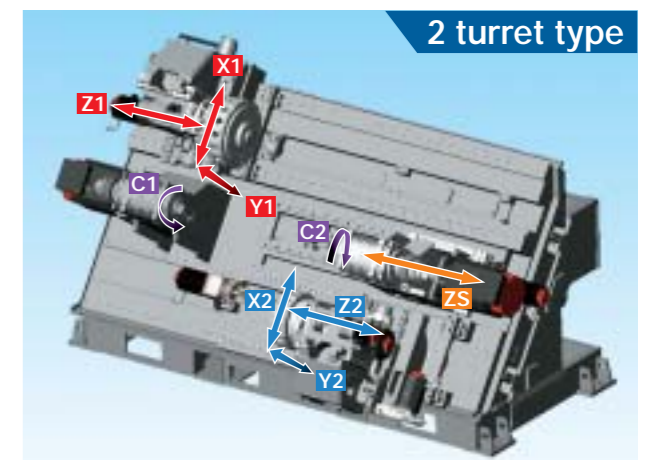
Live tool
5.6 kW/30 min
On All Turret Positions



SPECIAL LOWER TURRET (Option)

With special tooling blocks, it is possible to utilize 24 stations on the lower turret (Non-Live Tool Specification). This feature provides reduction in changeover time which in turn increases productivity.

Axis configuration

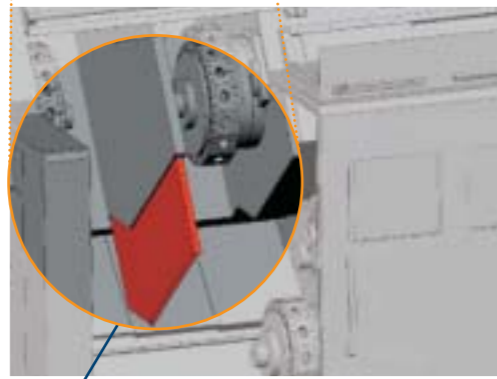


Gantry Loader specifications

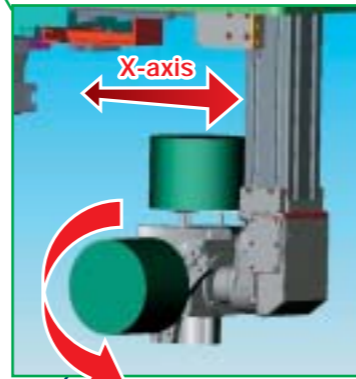


High Speed 3-Axis CNC Gantry Loader

With the addition of the center partition to the machine, one spindle is isolated from the other spindle. This feature significantly reduces the negative affects of chips or coolant on the gantry loader. The gantry loader is isolated from the machining side during operation.

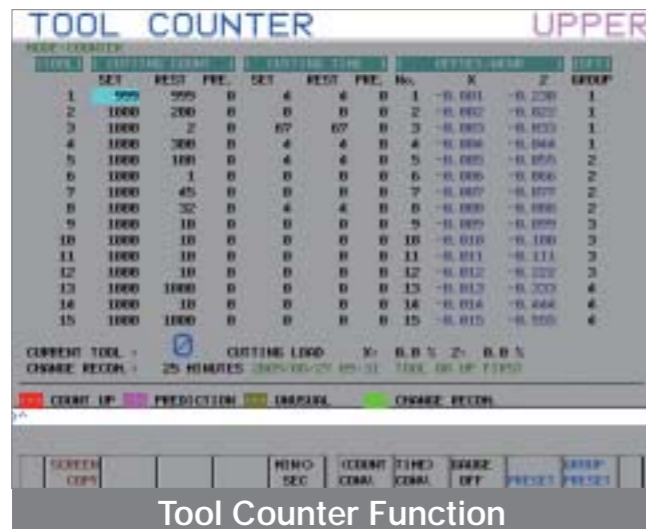


Center partition



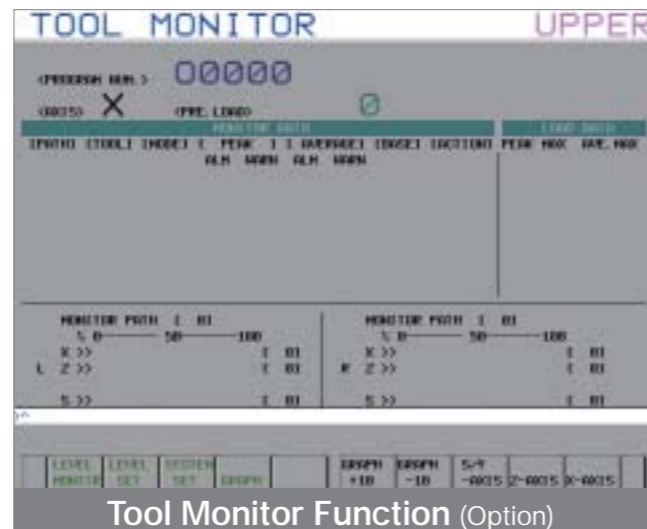
270° turn wrist

Advanced user-friendly function and display



Tool Counter Function

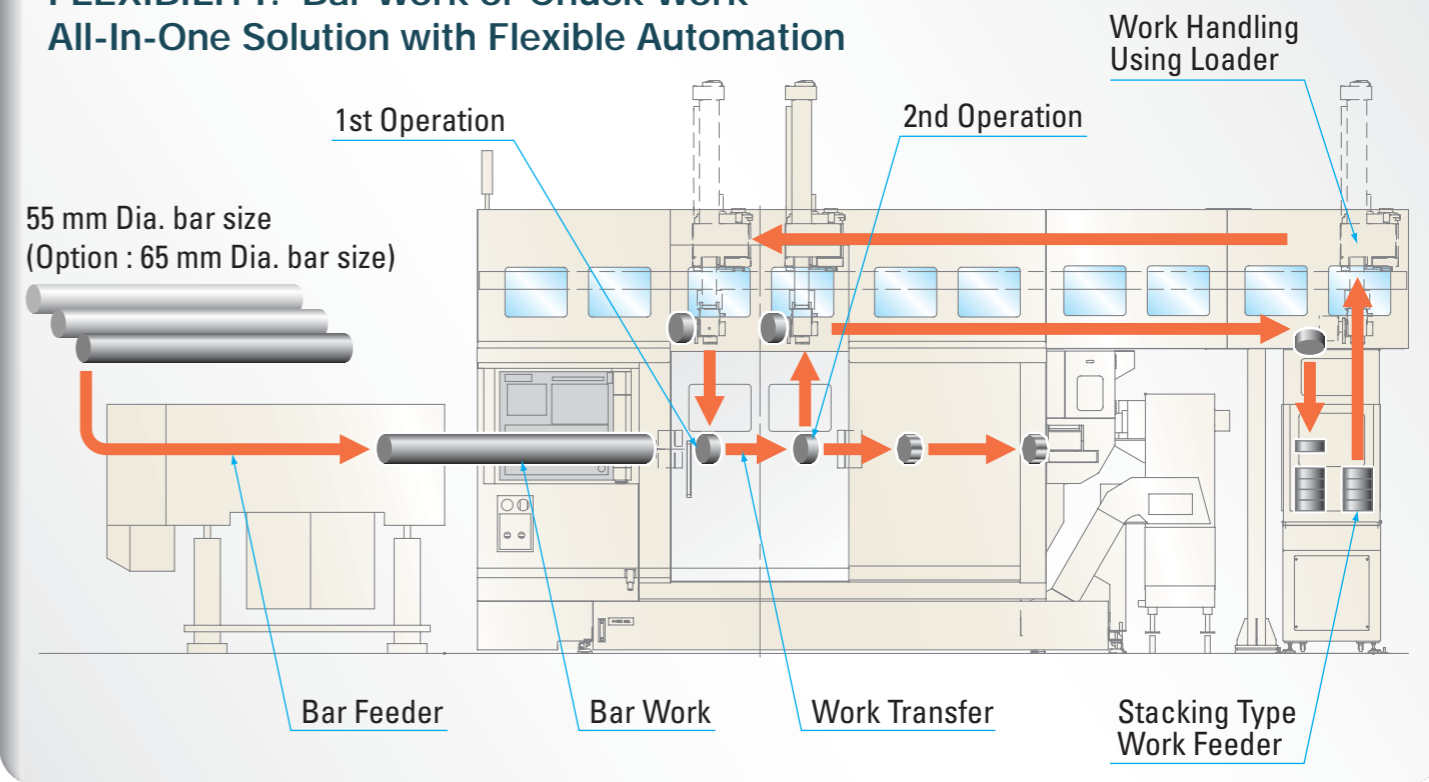
The MT200 includes the Muratec integrated tool counter display and CNC tool offset display. Wear offsets can be made from this same display combining tool counter information.



Tool Monitor Function (Option)

The MT200 prepares the MURATEC made "Tool Monitor Function" to check abnormal load, warning load and low level cutting loads. This function helps to detect tool/drill breakage during the cutting process.

FLEXIBILITY: Bar Work or Chuck Work All-In-One Solution with Flexible Automation



Application



Parts Catcher

A finished work piece of maximum size 65 x 160 can be unloaded from the right spindle automatically using the integrated 'Parts Catcher'. A combination of both the 'Parts Catcher' and a 'Bar Feeder' allows for unattended operation of both Bar and Chuck work.



Manual Tool Setter

Tool changeover time can be significantly reduced by utilizing the available Tool Setter. The Tool Setter is manually installed and is used to check the tool gauge lengths for both the upper and lower turrets. The Tool Setter can be manually mounted on both the left and right spindles and is manually removed from the machine during operation.

Programming support software



FANUC MANUAL GUIDE i

Integrated Operation & Programming Guidance with extremely simplified operations



3D-CAM Software