

automation
CNC MACHINE TOOLS
MANUFACTURING



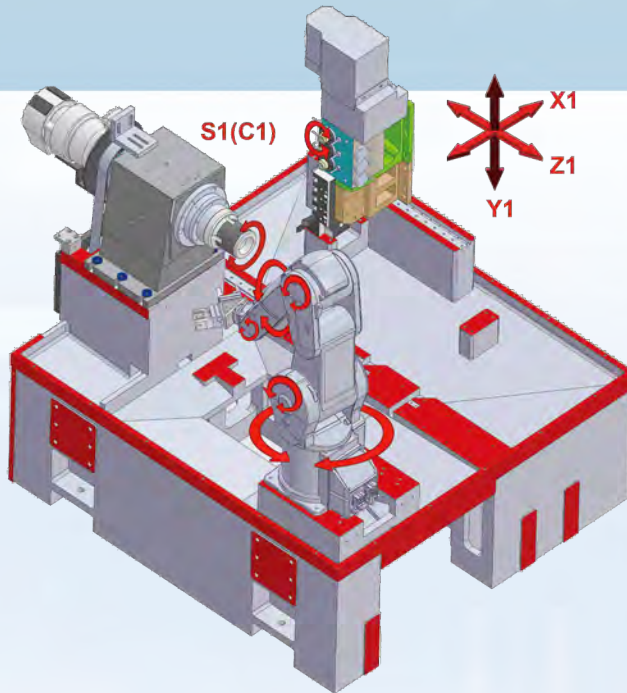
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i-42 Robo automation

This machine is a modified version of the I-42 with internal integration of a Mitsubishi 6 axis articulated robot. This requires no additional floor space, and is positioned so it will not hinder the machine operator while setting the machine, or operating the Mitsubishi M80 control system.

Feature:

- Flexible gantry type tooling system
- Mitsubishi M80 high-end controller
- Live tools with powerful motor
- 25 bar coolant pressure
- Free angle B axis 360° for all the angular tapping and drilling for some specific models





Flexible gantry type tooling system

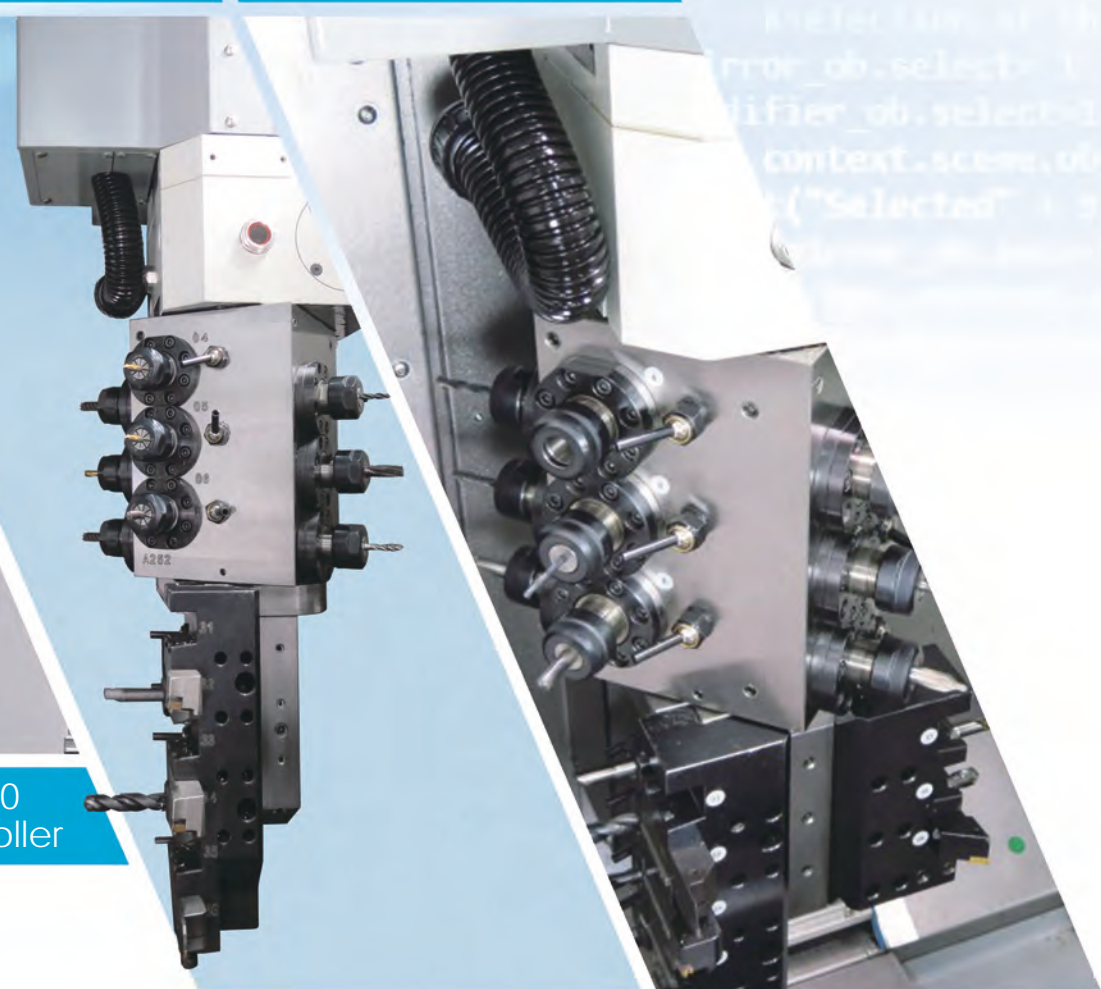
B axis 360° for all the angular tapping and drilling

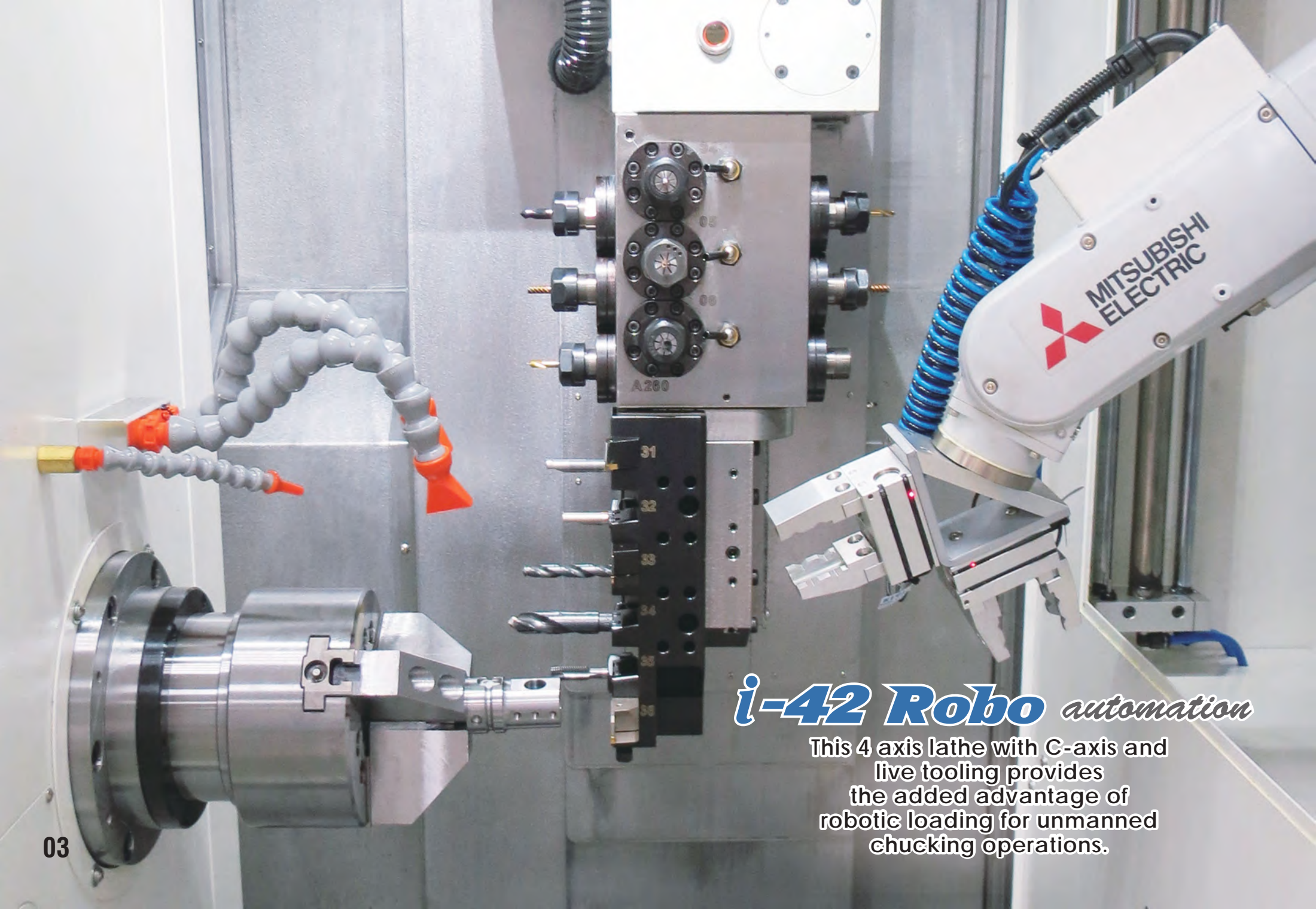


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Live tools with powerful motor

Mitsubishi M80 high-end controller

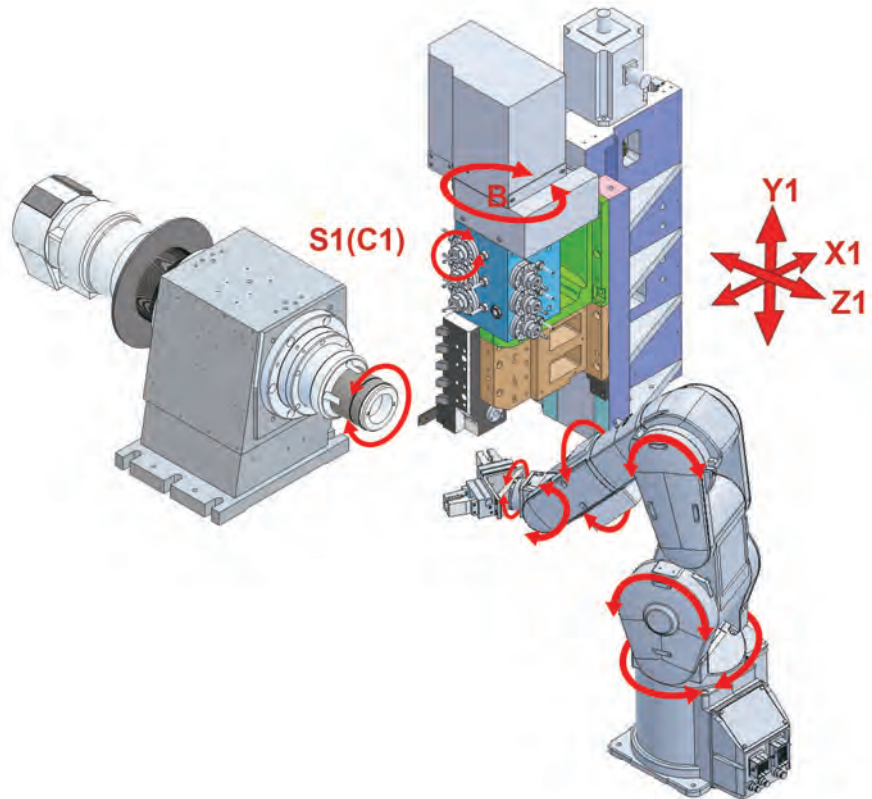




i-42 Robo automation

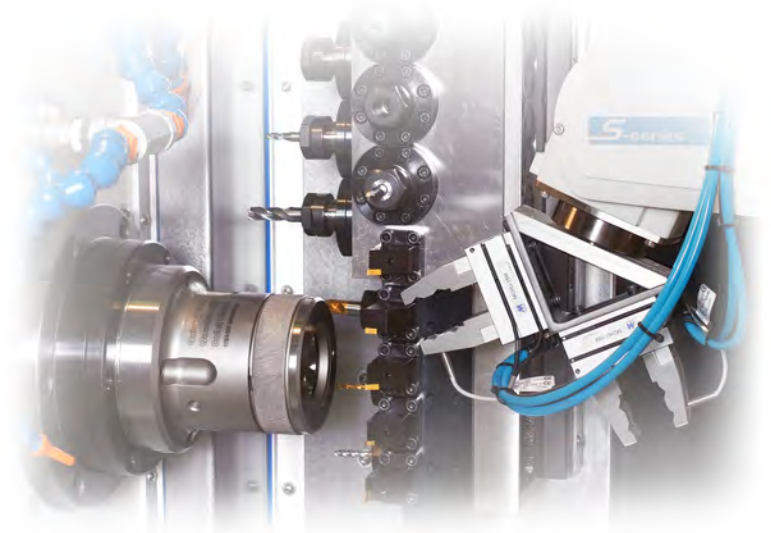
This 4 axis lathe with C-axis and live tooling provides the added advantage of robotic loading for unmanned chucking operations.

i-42 Robo (automation)



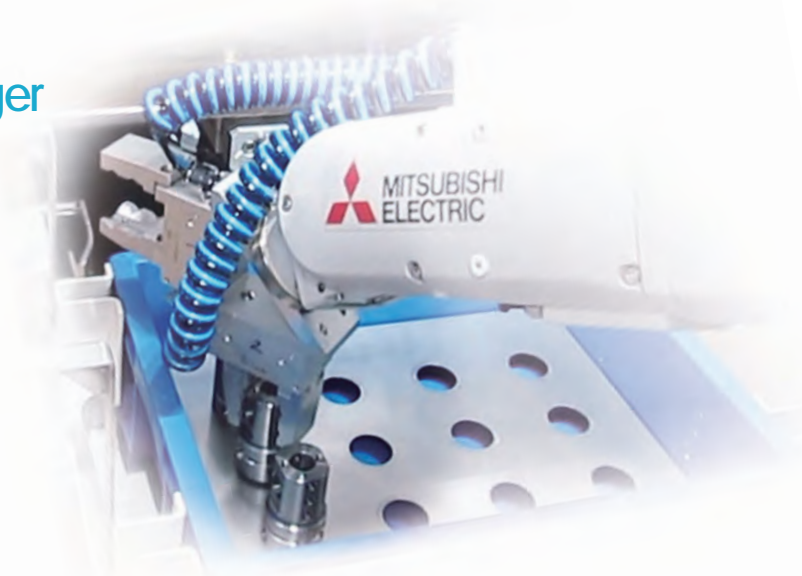
Spindle Capacity	Mitsubishi Controller	M80
	Max. Turning Dia.	100mm
	Max. Bar Working Dia.	42mm (65mm)
	Max. Turning Length	230mm
	Collet Chuck Type	KK5-173E42B (KK6-185E60B)
	Spindle Nose	A2-5 (A2-6)
Sub-Spindle Capacity	Spindle Bore	43mm (66mm)
	Max. RPM.	4000rpm (6000rpm)
	Max. Turning Dia.	----
	Max. Bar Working Dia.	----
	Max. Turning Length	----
	Collet Chuck Type	----
C Axis	Spindle Nose	----
	Spindle Bore	----
	Max. RPM.	----
Travel & Feed	Least Command Unit	0.001°
	Positioning Accuracy	0.02°
	X1/Y1/Z1 axis	150 / 410 / 250mm
	X2/Y2/Z2 axis	----
Motor	Rapid Feed	----
	Repeated Positioning Accuracy	0.005mm
	Main-Spindle	Servo Spindle 7.5kw (11.0kw)
	Sub-Spindle	----
	X1/Y1/Z1 axis	AC Servo 1.0 / 1.5 / 1.5kw
	X2/Y2/Z2 axis	----
A.T.C System	Motorized Tool	AC Servo 1.5kw
	OD/ID Tools Main Spindle	6 / 5
	OD/ID Tools Sub Spindle	----
	Tool Shank Size	□ 20mm
	Drill Holder Size (Main)	ER-20 / φ20mm
Motorized Tool	Drill Holder Size (Sub)	----
	Number of Motorized Tools	6 (12 with B-axis)
	B axis	(360°)
	Max. RPM.	4000rpm
	Collet Specification	ER-20
	Max. Drilling Dia.	12.0mm
Hydraulic System	Max. Tapping Capacity	M10xP1.5
	Hydraulic Pump / Tank Capacity	1HP / 40L
	Max. Pressure / Flow	30 kg/cm ²
Lubrication	Lubricant Pump / Tank Capacity	25W / 2L
	Max. Pressure	15 kg/cm ²
Coolant System	Coolant Pump	TPH4T5K, 5Bar, 75 L/min
	Hydraulic Pump	----
Machine Size	Coolant Tank Capacity	125L
	Length/ Width/ Height	3650 (2350) / 1700 / 2040mm
	Weight	4300 kg

() Option



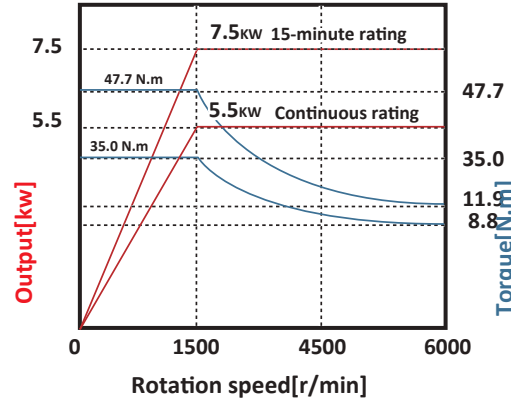
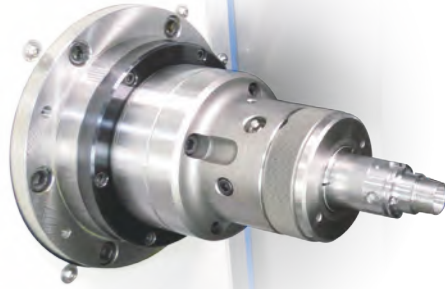
Robot with Flexible pallet changer

This efficient auto-pallet has equipped 5 trays and moveable cart for easy loading and unloading. No any human operation required. The operator can easily use and maintain this auto-pallet while the lathe is under mass production.



Mitsubishi AC Servo 7.5 kw

A2-5 spindle with 44 mm bore

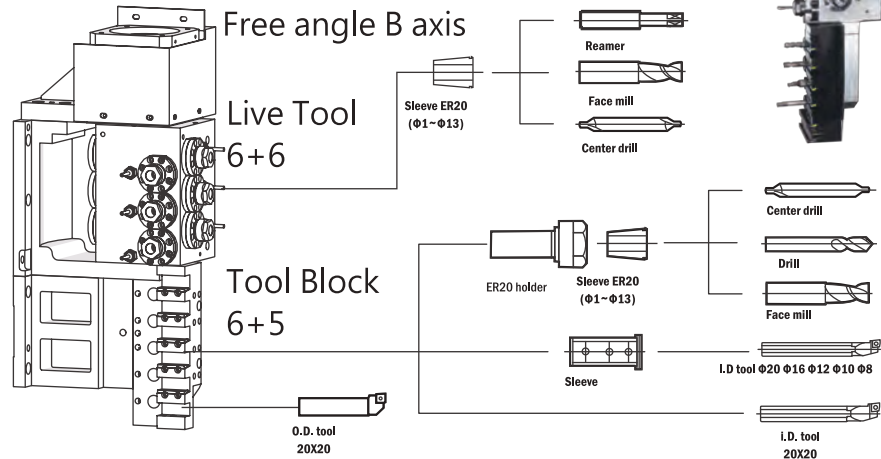


high precision 6 axis robot. This intelligent robot has a total of 88 programs and can easily move around tooling and other obstacles inside the working area.



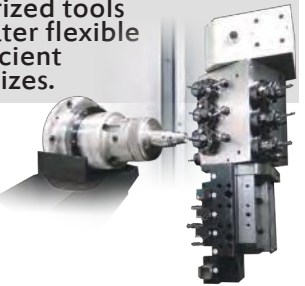
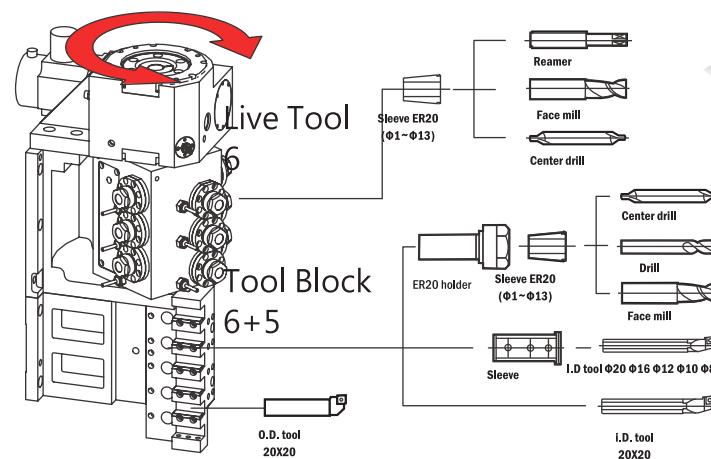
C axis

Standard machine packed with 6 live tools and C-Axis control, many complex contours can be machined, providing a variety of options to our customers.



B axis

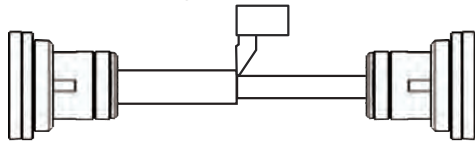
The milling head comprises of 12 motorized tools for 360° continuous leads to even greater flexible tools arrangement and significantly efficient productivity for small and medium lot sizes.



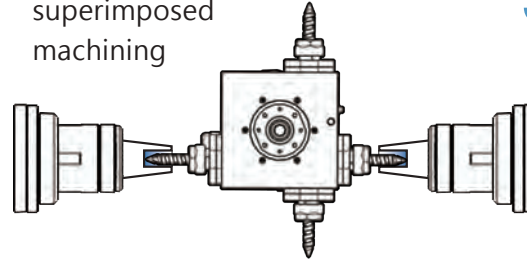
Index Time	0.3sec(one)/0.6(full)
Number of motorized tools	12 tools
B axis	360°
Speed	4000rpm(Max.)
Size	ER-20
Max.Drilling Dia	12.0mm
Max.Tapping capacity	M10xP1.5

Machining applications

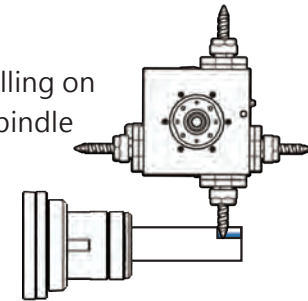
1/ Long work-piece machining



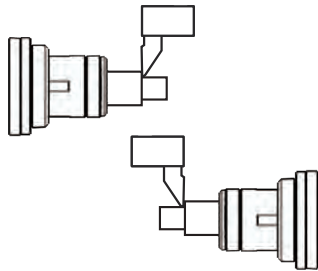
2/ Twin Spindle superimposed machining



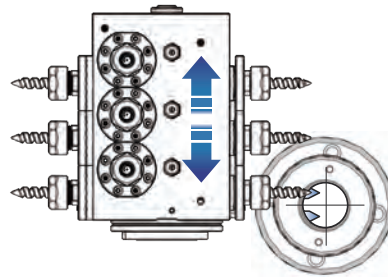
3/ Live tool milling on main/sub spindle



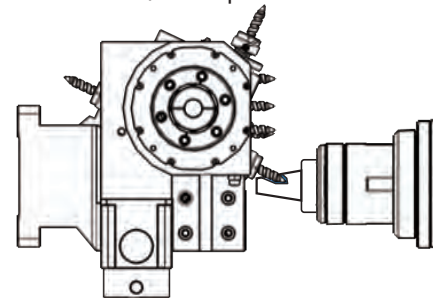
4/ Double Process Running Simultaneously



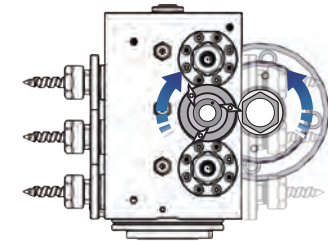
5/ Off-Center machining



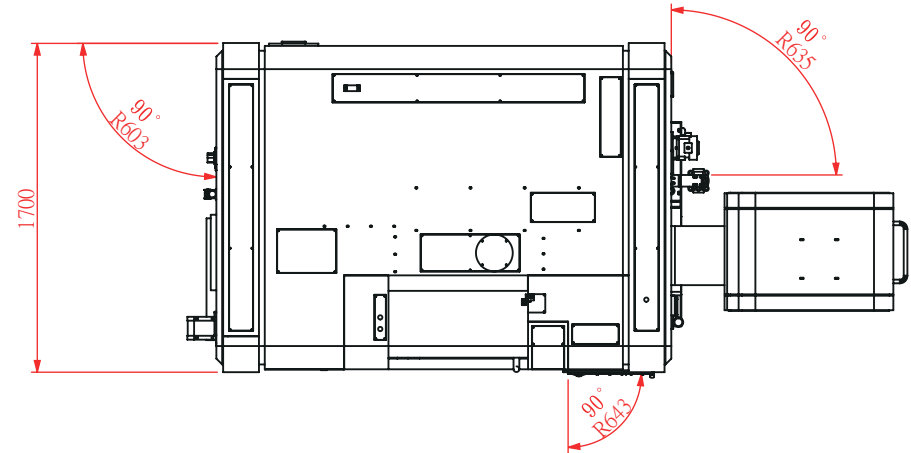
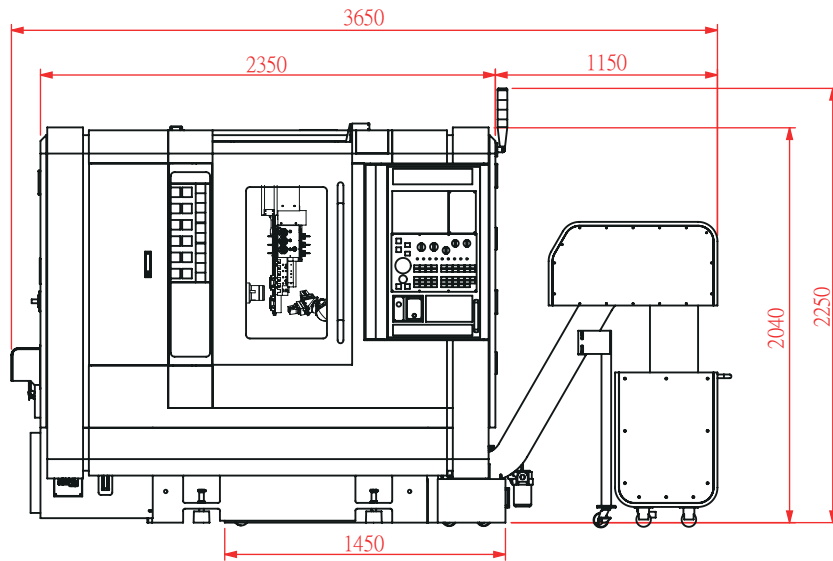
6/ Tapping or drilling by free angle B axis on main/sub spindle



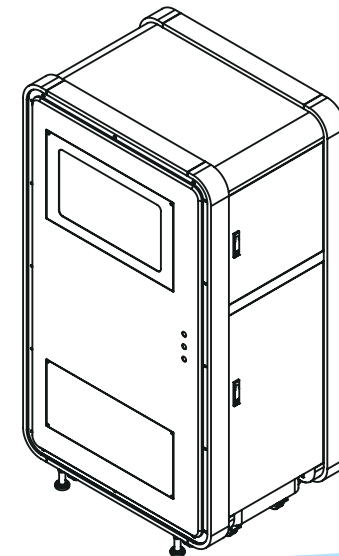
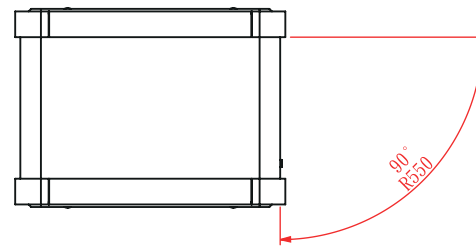
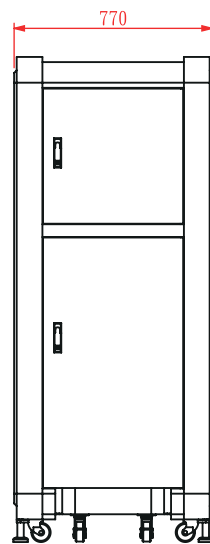
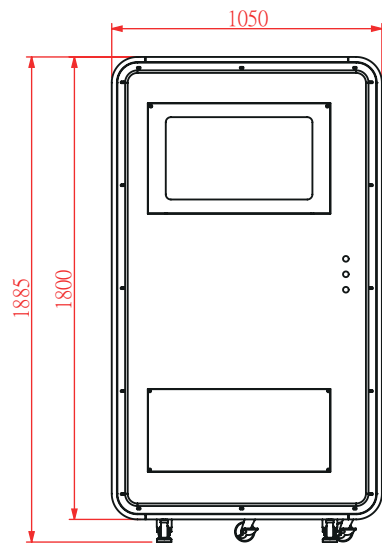
7/ Polygon Generating Cutting



External view



Pallet changer size



Flexible, Fast and High production Smart lathe in one setup

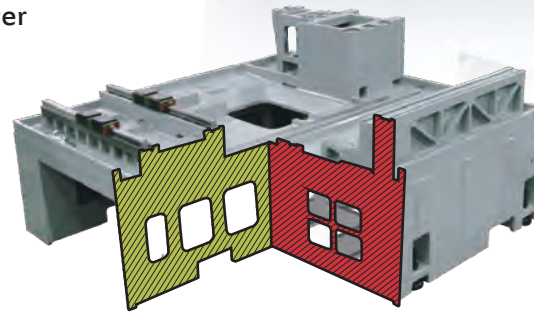
Simple Visual Monitor

Transparent window for the lubrication and solenoid status check.



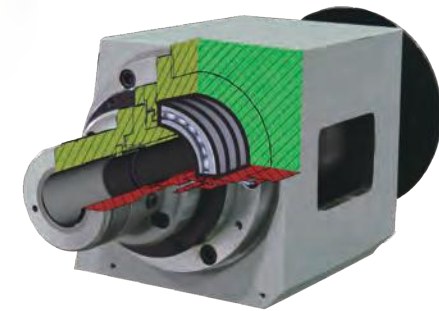
High pressure Coolant

High pressure with 25 Bar with filter



01 Robust FC35 Meehanite Castings

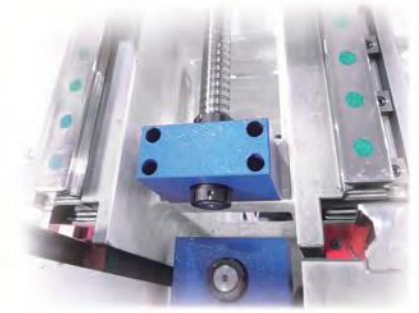
Harden to over HRB 190 and tempered to relieve stress.



02 P4 class preload spindle bearing

Preload bearings are offered for the maximum attachment effect

Mitsubishi controller



Linear Guideways

The machine is equipped with high precision HIWIN 35mm Linear guideways. Increase the stability and accuracy, allows heavier cut to be achieved.

LED Extended display

Help you to monitor easily status of the machine

03 Part Catcher

Allow pieces up to 65 mm diameter and 150mm length(option).



Chip Conveyor

Standard and high type depends on your production request

Bar Feeder

Short and Long Bar Feeder are available



the art of turning

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2019.04