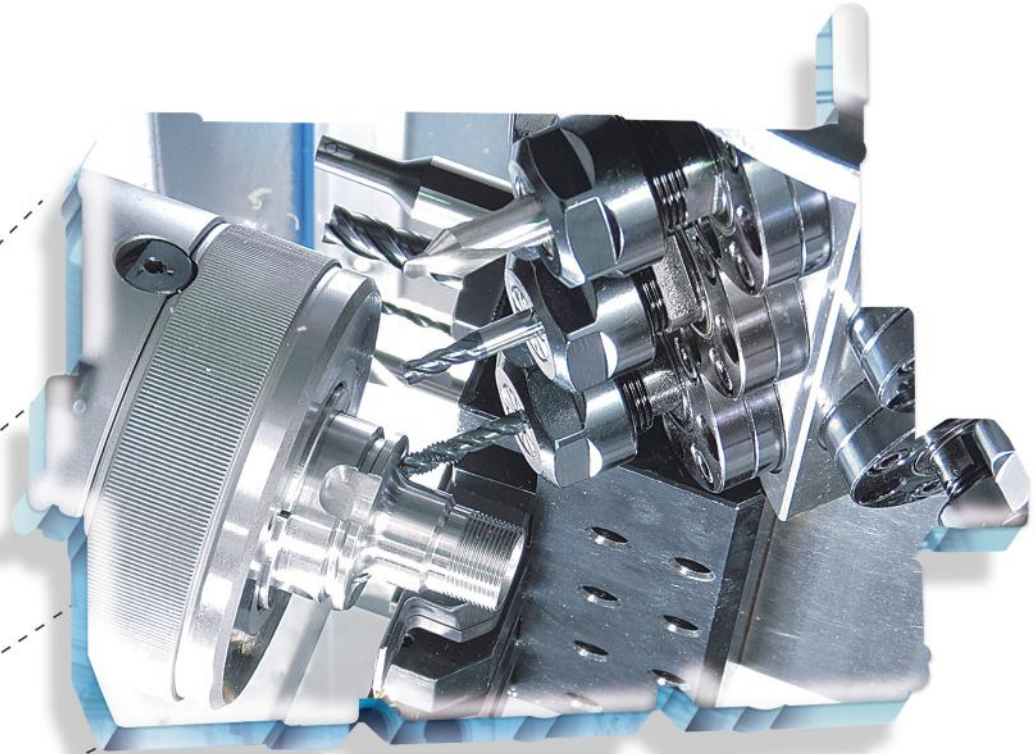


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ENGINEERING AUS DEUTSCHLAND



blue
technology



Total solution for engineering Integration

**CNC MACHINE
TOOLS
MANUFACTURING**



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iseries High-efficient intelligent complex lathe

I-series from Quicktech this year are being seen an advanced innovation in automation industry. Combined more unique and reliable design create the greater value and performance. These universal turning and milling complex machines open a new area of precision and reliability in workshops. They are ideal for producing complicated, small, and single parts in high production demands.

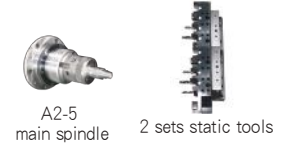
Every second counts and we hope our new series can satisfy all application needs and offers the perfect solution for various bar mass production!

Feature :

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



i-42 Eco



Option

C axis milling B axis 360° for angular milling Hydraulic Tailstock

↓ ↓

i-42 Eco M **i-42 Eco B**

i-42 Plus



Option

C axis milling B axis 360° for angular milling

↓ ↓

i-42 Plus M **i-42 Plus B**

i-42 Robo



Option

B axis 360° for angular milling

i-42 Twin



i-42 Ultimate

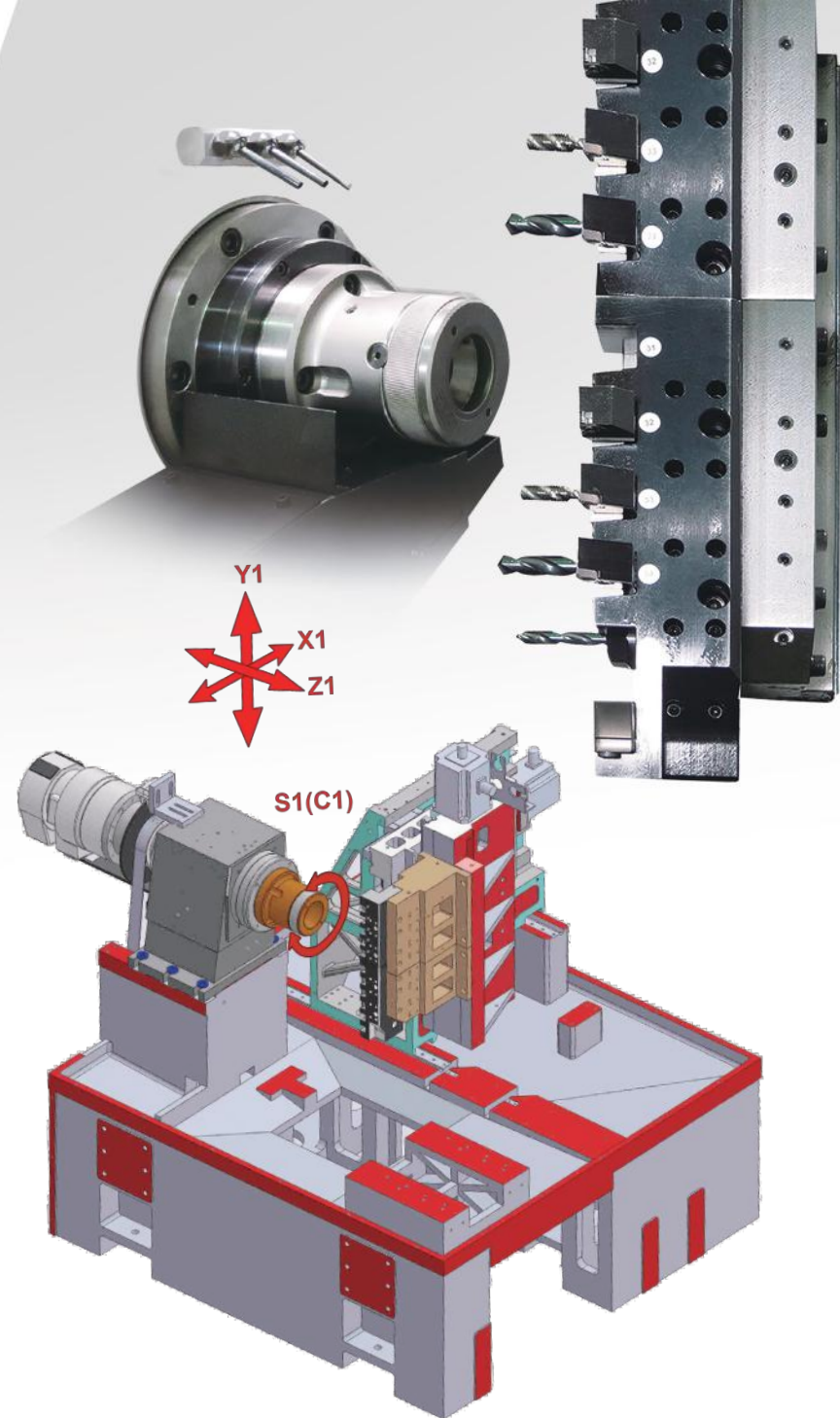


i-42 Eco

This 4 axis gang tooling lathe is an affordable alternative to a turret type, C-axis lathe.



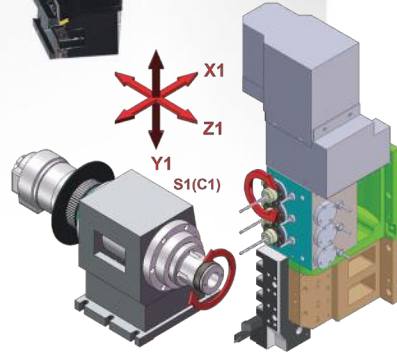
The standard i42-Eco is comes with 42mm spindle, 11 OD and 9 ID tool turning to achieve the job shop mass production.



i-42 Eco M



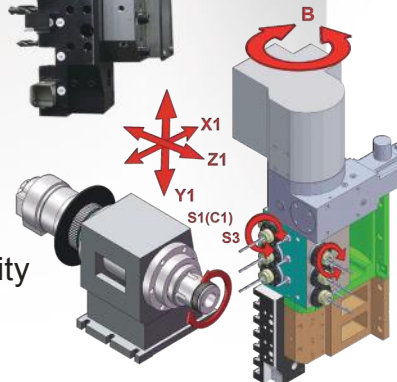
Standard machine packed with 6 live tools and C-Axis control, many complex contours can be machined, providing a variety of options to our customers.



i-42 Eco B



The milling head with 12 motorized tools and 360 degrees continuous rotating is significantly efficient productivity for small and medium lot size pieces.

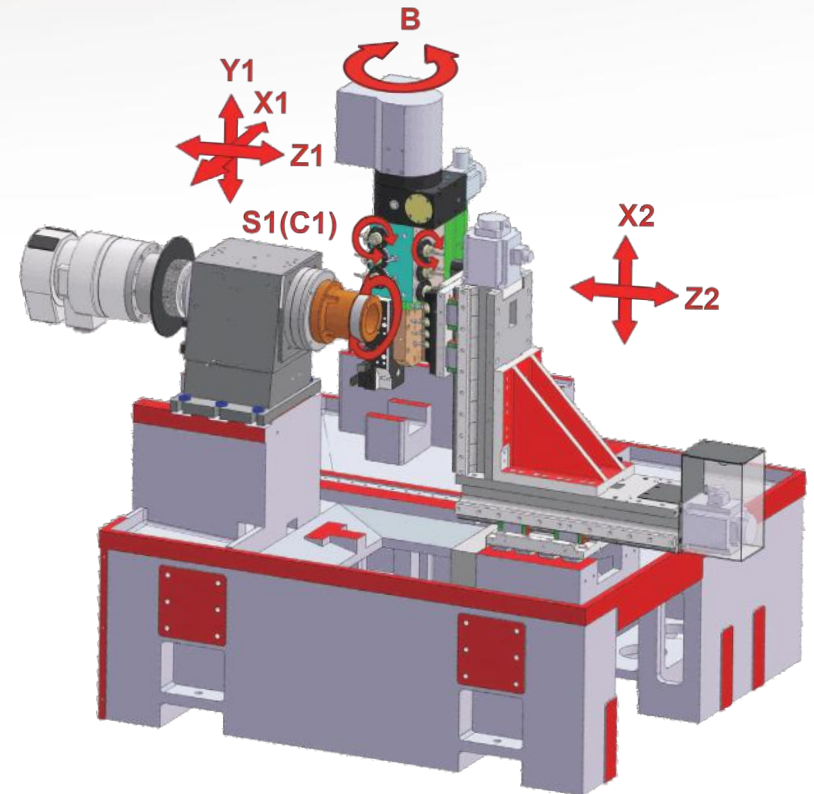


Machine Type		i-42 Eco		
Mitsubishi Controller		M80		
Spindle Capacity	Max. Turning Dia.	100mm		
	Max. Bar Working Dia.	42mm (65mm)		
	Max. Turning Length	230mm		
	Collet Chuck Type	KK5-173E42B (KK6-185E60B)		
	Spindle Nose	A2-5 (A2-6)		
	Spindle Bore	43mm (66mm)		
Sub-Spindle Capacity		4000rpm (6000rpm)		
Sub-Spindle Capacity	Max. Turning Dia.	----		
	Max. Bar Working Dia.	----		
	Max. Turning Length	----		
	Collet Chuck Type	----		
	Spindle Nose	----		
	Spindle Bore	----		
C Axis	Max. RPM.	----		
	Least Command Unit	0.001°		
Travel & Feed	Positioning Accuracy	0.02°		
	X1/Y1/Z1 axis	150 / 410 / 250mm		
	X2/Y2/Z2 axis	----		
	Rapid Feed	30m/min		
	Repeated Positioning Accuracy	0.005mm		
Motor	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	----		
	Motorized Tool	AC Servo 1.5kw		
	A.T.C System	OD/ID Tools Main Spindle	i-42 Eco	i-42 Eco M
		11 / 9	6 / 5	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	i-42 Eco	i-42 Eco M	i-42 Eco B
		0	6	12
	B axis	(360°)		
	Max. RPM.	4000rpm		
	Collet Specification	ER-20		
Hydraulic System	Max. Drilling Dia.	12.0mm		
	Max. Tapping Capacity	M10xP1.5		
	Hydraulic Pump / Tank Capacity	1HP / 40L		
Lubrication	Max. Pressure / Flow	30 kg/cm ²		
	Lubricant Pump / Tank Capacity	25W / 2L		
	Max. Pressure	15 kg/cm ²		
Coolant System	Coolant Pump	TPH4T5K, 5Bar, 75 L/min		
	Hydraulic Pump	----		
	Coolant Tank Capacity	125L		
Machine Size	Length/ Width/ Height	3200 (2500) / 1750 / 1950mm		
	Weight	3780 kg		

() Option

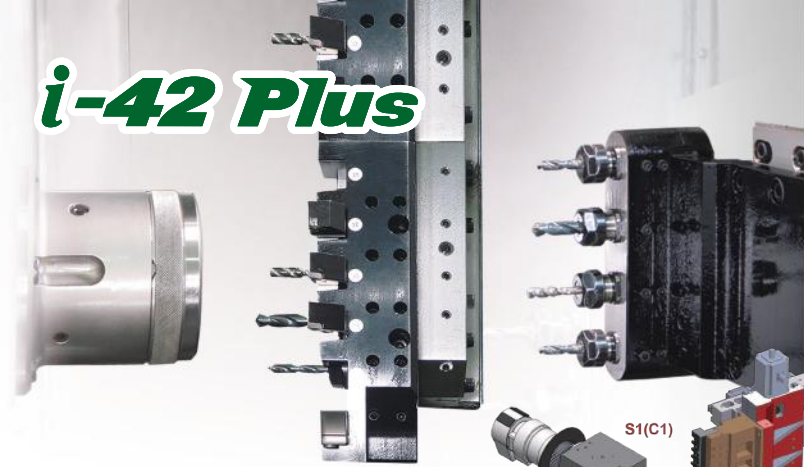
i-42 Plus B

This CNC turning machine is capable of running two NC programs simultaneously.

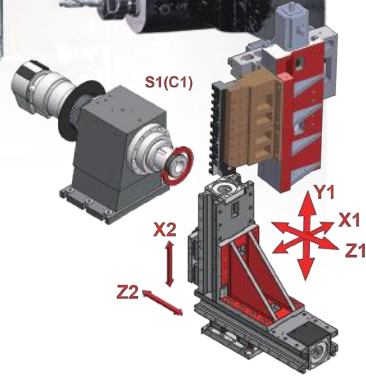


A total of 27 tools (12 of them powered) is designed to work on complex work pieces.

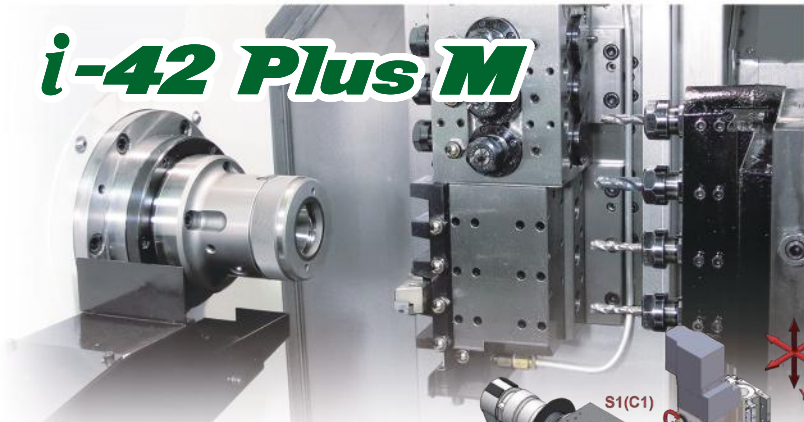
i-42 Plus



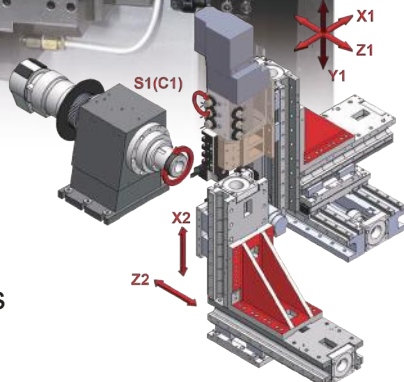
Simultaneous machining is possible from the outside as well as from the inside. Depending on the work piece, the working time can be reduced up to 48%.



i-42 Plus M



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.



Machine Type		<i>i-42 Plus</i>		
Mitsubishi Controller		M80		
Spindle Capacity	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)		
	Spindle Bore	43mm (66mm)		
	Max. RPM.	4000rpm (6000rpm)		
Sub-Spindle Capacity	Max. Turning Dia.	----		
	Max. Bar Working Dia.	----		
	Max. Turning Length	----		
	Collet Chuck Type	----		
	Spindle Nose	----		
	Spindle Bore	----		
	Max. RPM.	----		
C Axis	Least Command Unit	0.001°		
	Positioning Accuracy	0.02°		
Travel & Feed	X1/Y1/Z1 axis	150 / 410 / 250mm		
	X2/Y2/Z2 axis	250 / ---- / 320mm		
	Rapid Feed	30m/min		
	Repeated Positioning Accuracy	0.005mm		
	Motor	Main-Spindle	Servo Spindle 7.5kw (11.0kw)	
Motor	Sub-Spindle	----		
	X1/Y1/Z1 axis	AC Servo 1.0 / 1.5 / 1.5kw		
	X2/Y2/Z2 axis	AC Servo 1.0 / ---- / 1.0kw		
	Motorized Tool	AC Servo 1.5kw		
	A.T.C System	OD/ID Tools Main Spindle	<i>i-42 Plus</i>	<i>i-42 Plus M</i>
		11 / 9	6 / 5	6 / 5
OD/ID Tools Sub Spindle		--- / 4 (Tail)		
Tool Shank Size		□ 20mm		
Drill Holder Size (Main)		ER-20 / φ20mm		
Motorized Tool	Drill Holder Size (Sub)	ER-20 / φ25mm		
	Number of Motorized Tools	<i>i-42 Plus</i>	<i>i-42 Plus M</i>	<i>i-42 Plus B</i>
		0	6	12
	B axis	(360°)		
	Max. RPM.	4000rpm		
Hydraulic System	Collet Specification	ER-20		
	Max. Drilling Dia.	12.0mm		
	Max. Tapping Capacity	M10xP1.5		
Lubrication	Hydraulic Pump / Tank Capacity	1HP / 40L		
	Max. Pressure / Flow	30 kg/cnf		
Coolant System	Lubricant Pump / Tank Capacity	25W / 2L		
	Max. Pressure	15 kg/cnf		
Machine Size	Coolant Pump	TPH4T5K, 5Bar, 75 L/min		
	Hydraulic Pump	----		
	Coolant Tank Capacity	125L		
Machine Size	Length/ Width/ Height	3200 (2500) / 1750 / 1950mm		
	Weight	4780kg		

() Option

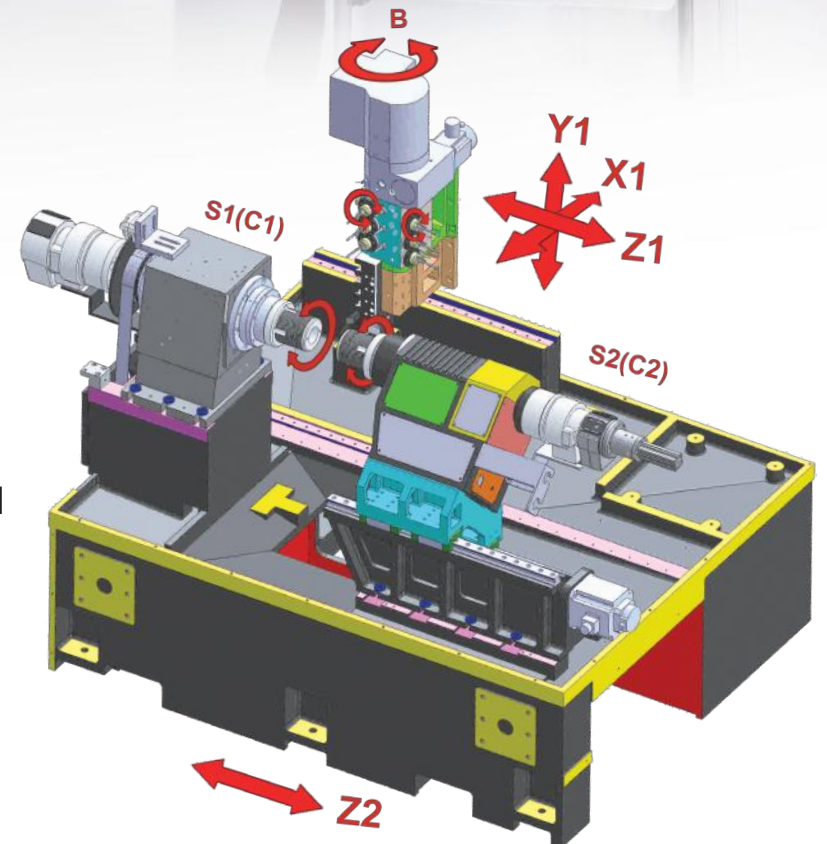
i-42 Twin

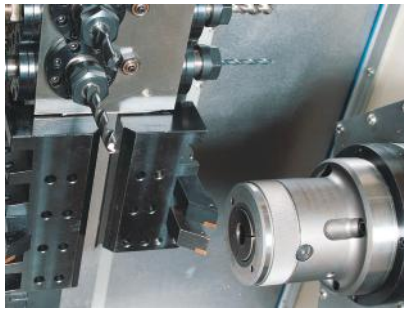
The series is a combination of cost effective and highly productive for complex work piece!



07

Not only having 30 tools to make it possible to process complex work piece from inside, outside and outline, it also marks the integration of the driven tools having a powerful B- axis milling for simultaneous and efficient machining. Due to this enhancement, the tools application becomes more fast and flexible for sophisticated parts. The great tool arrangement and big work area, make this outstanding, all purpose machine.





TILTING MOTORIZED TOOLS

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

ROLLER GUIDEWAYS

The machine is equipped with high precision, HIWIN roller guideways.

The use of 35mm rails throughout the machine increases stability and accuracy, and allows heavier cuts to be achieved.

All axes are equipped with digital drives that deliver feed velocities of 30m/min.

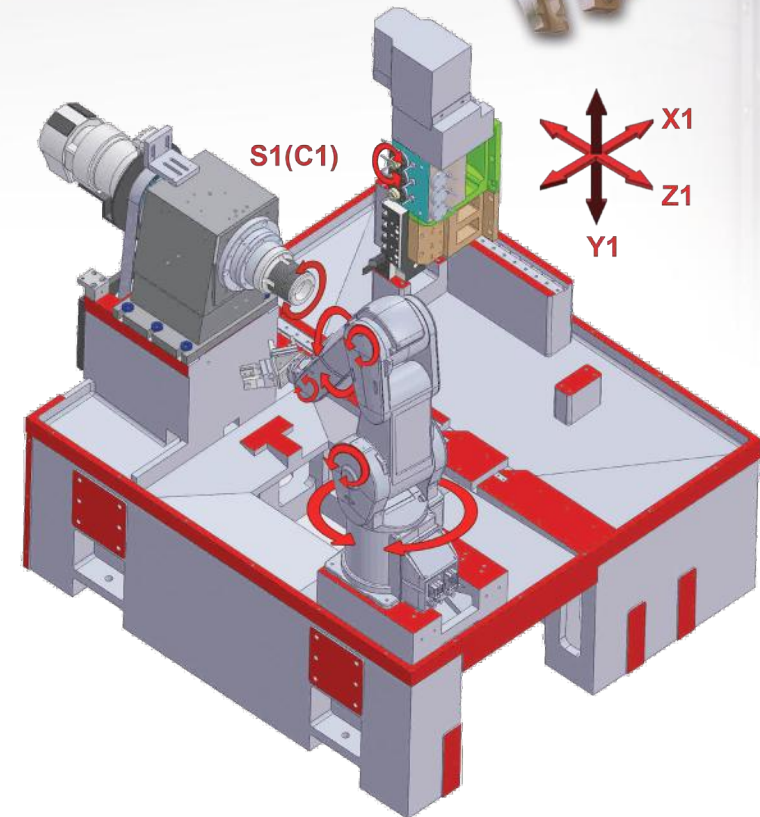
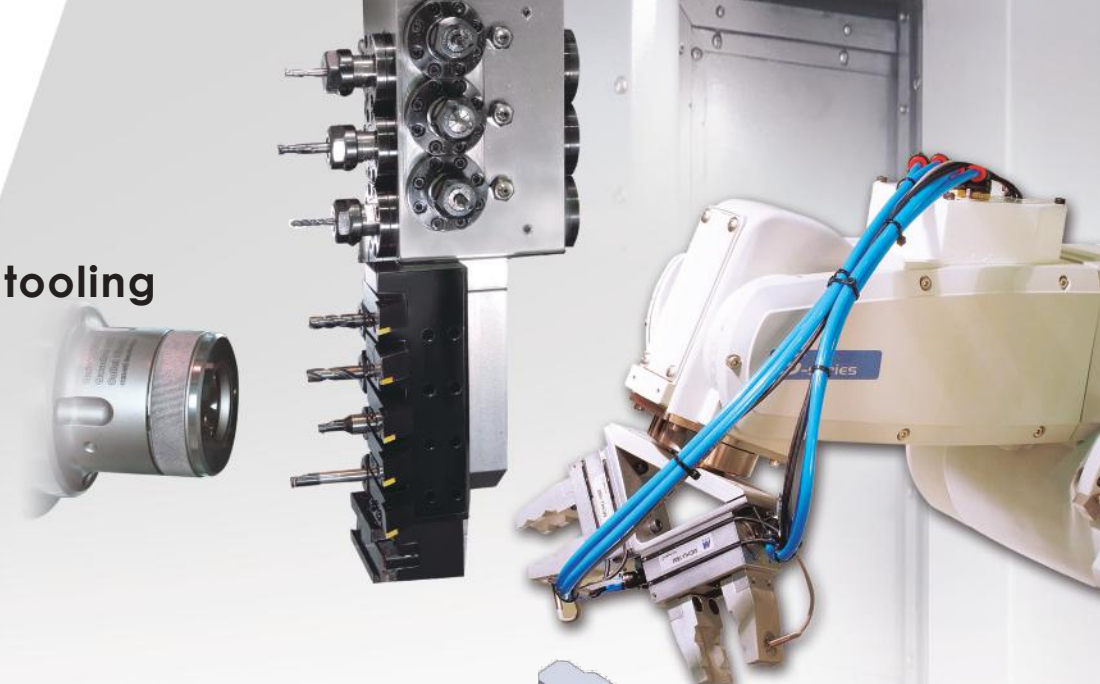


Machine Type		<i>i-42 Twin</i>
Mitsubishi Controller		M80
Spindle Capacity	Max. Turning Dia.	100mm
	Max. Bar Working Dia.	42mm (65mm)
	Max. Turning Length	300mm
	Collet Chuck Type	KK5-173E42B (KK6-185E60B)
	Spindle Nose	A2-5 (A2-6)
	Spindle Bore	43mm (66mm)
Max. RPM.		4000rpm (6000rpm)
Sub-Spindle Capacity	Max. Turning Dia.	100mm
	Max. Bar Working Dia.	30mm
	Max. Turning Length	150mm
	Collet Chuck Type	KK5-173E42B
	Spindle Nose	A2-5
	Spindle Bore	31mm
Max. RPM.		4000rpm (6000rpm)
C Axis	Least Command Unit	0.001°
	Positioning Accuracy	0.02°
Travel & Feed	X1/Y1/Z1 axis	150 / 415 / 300mm
	X2/Y2/Z2 axis	---- / ---- / 390mm
	Rapid Feed	30m/min
	Repeated Positioning Accuracy	0.005mm
Motor	Main-Spindle	Servo Spindle 11.0kw
	Sub-Spindle	Servo Spindle 3.7kw
	X1/Y1/Z1 axis	AC Servo 1.0 / 1.5 / 1.5kw
	X2/Y2/Z2 axis	AC Servo ---- / ---- / 1.0kw
	Motorized Tool	AC Servo 1.5kw
A.T.C System	OD/ID Tools Main Spindle	6 / 5
	OD/ID Tools Sub Spindle	3 / 4
	Tool Shank Size	□ 20mm
	Drill Holder Size (Main)	ER-20 / φ20mm
Drill Holder Size (Sub)		ER-20 / φ20mm
Motorized Tool	Number of Motorized Tools	12
	B axis	360°
	Max. RPM.	4000rpm
	Collet Specification	ER-20
	Max. Drilling Dia.	12.0mm
	Max. Tapping Capacity	M10xP1.5
Hydraulic System	Hydraulic Pump / Tank Capacity	1HP / 40L+25L
	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	2HP + SF-30C, 25Bar, 30L/min
	Coolant Tank Capacity	240L
Machine Size	Length/ Width/ Height	3500 (2900) / 1900 / 1950mm
	Weight	5300kg

() Option

i-42 Robo

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



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.



INTELLIGENT ROBOT

Complimenting the standard I-42 lathe, is a fully integrated high speed, high precision 6 axis robot.

This intelligent robot has a total of 512 programs, and can easily maneuver around tooling and other obstacles within the work area.

It can handle work pieces of up to 6kg, and is ideal for billets, castings and forgings.

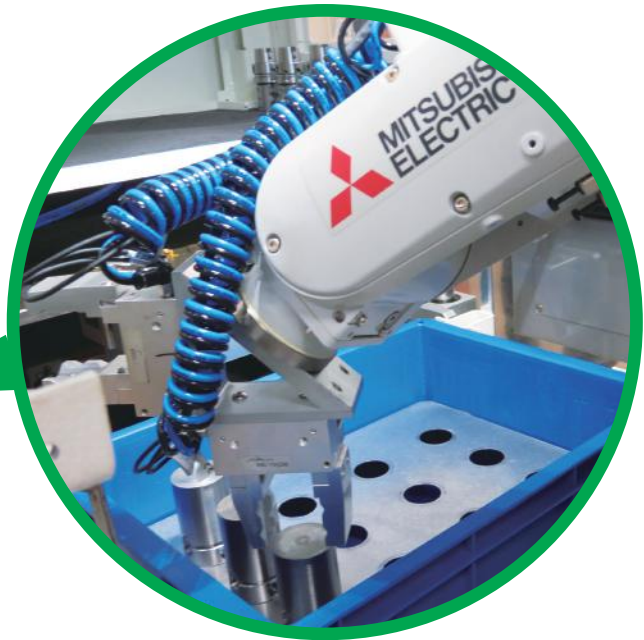


Machine Type		<i>i-42 Robo</i>
Mitsubishi Controller		M80
Spindle Capacity	Max. Turning Dia.	100mm
	Max. Bar Working Dia.	42mm (65mm)
	Max. Turning Length	230mm
	Collet Chuck Type	KK5-173E42B (KK6-185E60B)
	Spindle Nose	A2-5 (A2-6)
	Spindle Bore	43mm (66mm)
	Max. RPM.	4000rpm (6000rpm)
Sub-Spindle Capacity	Max. Turning Dia.	----
	Max. Bar Working Dia.	----
	Max. Turning Length	----
	Collet Chuck Type	----
	Spindle Nose	----
	Spindle Bore	----
	Max. RPM.	----
C Axis	Least Command Unit	0.001°
	Positioning Accuracy	0.02°
Travel & Feed	X1/Y1/Z1 axis	150 / 410 / 250mm
	X2/Y2/Z2 axis	----
	Rapid Feed	----
	Repeated Positioning Accuracy	0.005mm
Motor	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	----
	Motorized Tool	AC Servo 1.5kw
A.T.C System	OD/ID Tools Main Spindle	6 / 5
	OD/ID Tools Sub Spindle	---
	Tool Shank Size	□ 20mm
	Drill Holder Size (Main)	ER-20 / φ20mm
	Drill Holder Size (Sub)	----
Motorized Tool	Number of Motorized Tools	6 (12 with B-axis)
	B axis	(360°)
	Max. RPM.	4000rpm
	Collet Specification	ER-20
	Max. Drilling Dia.	12.0mm
	Max. Tapping Capacity	M10xP1.5
Hydraulic System	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	-----
	Coolant Tank Capacity	125L
Machine Size	Length/ Width/ Height	3200 (2500) / 1750 / 1950mm
	Weight	4300 kg

() Option

Robot with Flexible pallet changer

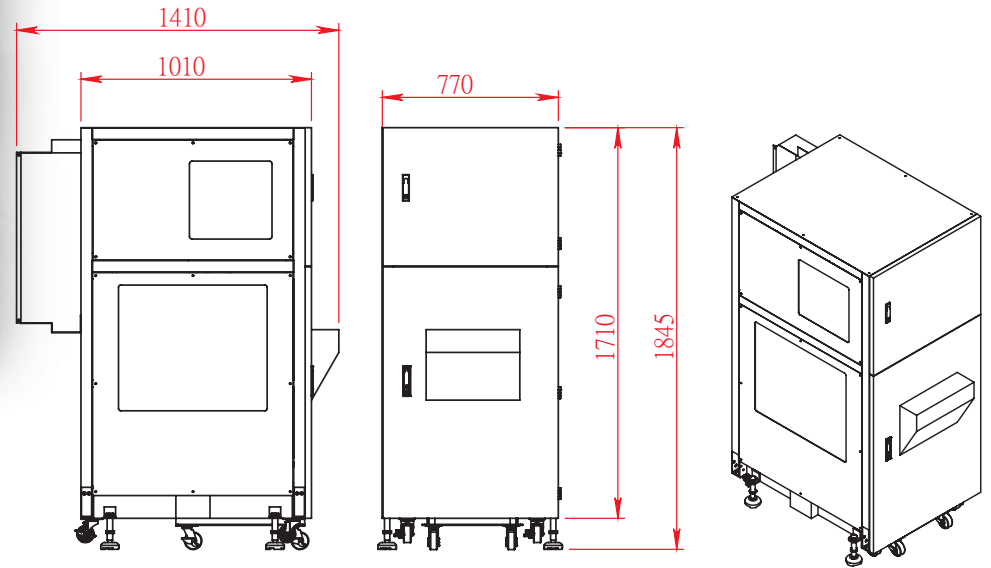
This efficient auto-pallet has equipped 5 trays and moveable cart for easy loading and unloading. No any human operation required. The operator can easily use and maintain this auto-pallet while the lathe is under mass production.



11



Pallet changer size





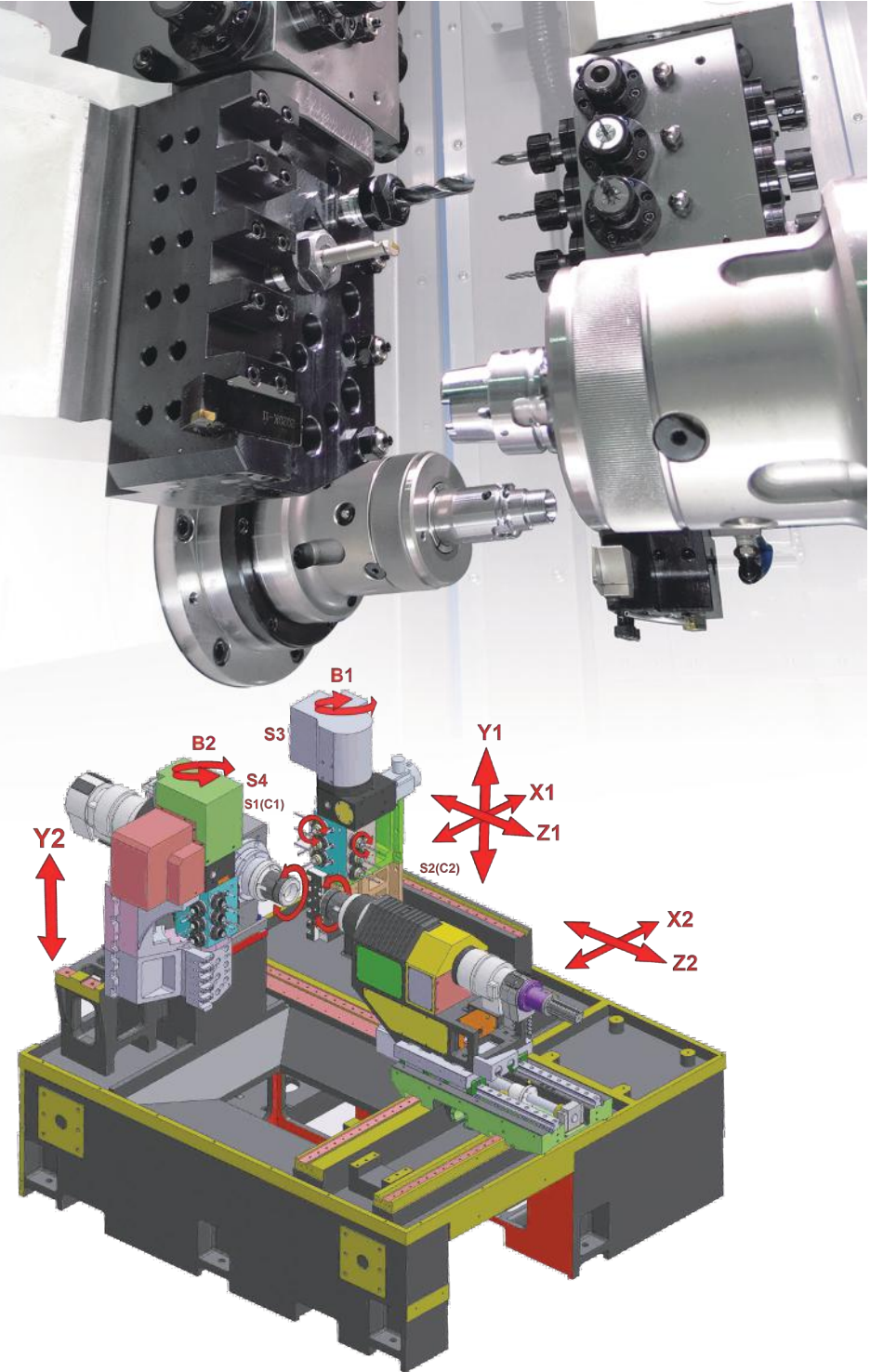
Tray for workpieces.

Lift device

Tray for forge parts.

i-42 Ultimate

Flexible **duo** system simultaneous
Cycle time can be saved up to **48%**



With the system allows running 2 programs simultaneously, flexible gantry tools for main and sub spindle and C-axis capabilities, milling and turning applications are completed in one single machine.


They are ideal for producing complicated and single parts in high production demand.



Machine Type		i-42 U
Mitsubishi Controller		M830S
Spindle Capacity	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)
	Spindle Bore	43mm (66mm)
	Max. RPM.	4000rpm (6000rpm)
Sub-Spindle Capacity	Max. Turning Dia.	100mm
	Max. Bar Working Dia.	30mm
	Max. Turning Length	100mm
	Collet Chuck Type	KK5-173E42B
	Spindle Nose	A2-5
	Spindle Bore	31mm
	Max. RPM.	4000rpm (6000rpm)
C Axis	Least Command Unit	0.001°
	Positioning Accuracy	0.02°
Travel & Feed	X1/Y1/Z1 axis	150 / 410 / 250mm
	X2/Y2/Z2 axis	450 / 380 / 300mm
	Rapid Feed	30m/min
	Repeated Positioning Accuracy	0.005mm
Motor	Main-Spindle	Servo Spindle 11.0kw
	Sub-Spindle	Servo Spindle 3.7kw
	X1/Y1/Z1 axis	AC Servo 1.5kw
	X2/Y2/Z2 axis	AC Servo 1.5kw
	Motorized Tool	AC Servo 1.5kw
A.T.C System	OD/ID Tools Main Spindle	6 / 5
	OD/ID Tools Sub Spindle	5 / 9
	Tool Shank Size	□ 20mm
	Drill Holder Size (Main)	ER-20 / φ20mm
	Drill Holder Size (Sub)	ER-20 / φ20mm
Motorized Tool	Number of Motorized Tools	T1=12 / T2=12
	B axis	360°
	Max. RPM.	4000rpm
	Collet Specification	ER-20
	Max. Drilling Dia.	12.0mm
	Max. Tapping Capacity	M10xP1.5
Hydraulic System	Hydraulic Pump / Tank Capacity	1HP / 40L+25L
	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	2HP + SF-30C, 25Bar, 30L/min
	Coolant Tank Capacity	240L
Machine Size	Length/ Width/ Height	3500 (2900) / 1900 / 1950mm
	Weight	5600 kg

() Option



- 
-
- Machine Character
 - Main spindle / Sub spindle
 - Tooling system
 - External view / Machining applications
 - Gantry Tooling interference

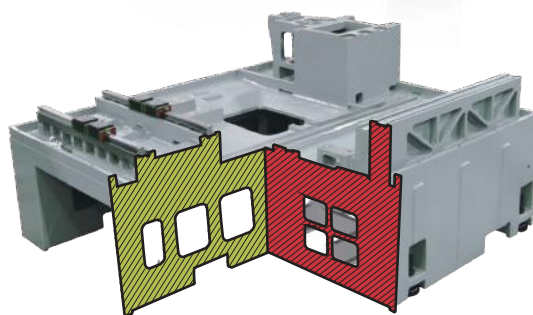
Flexible, Fast and High production Smart lathe in one setup

17



High pressure Coolant

High pressure with 25 Bar with filter

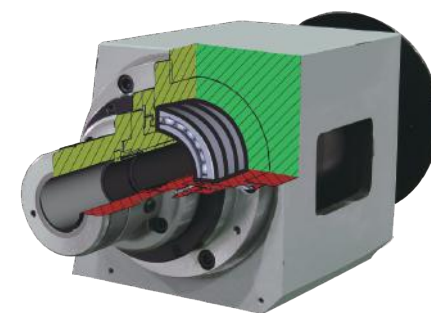
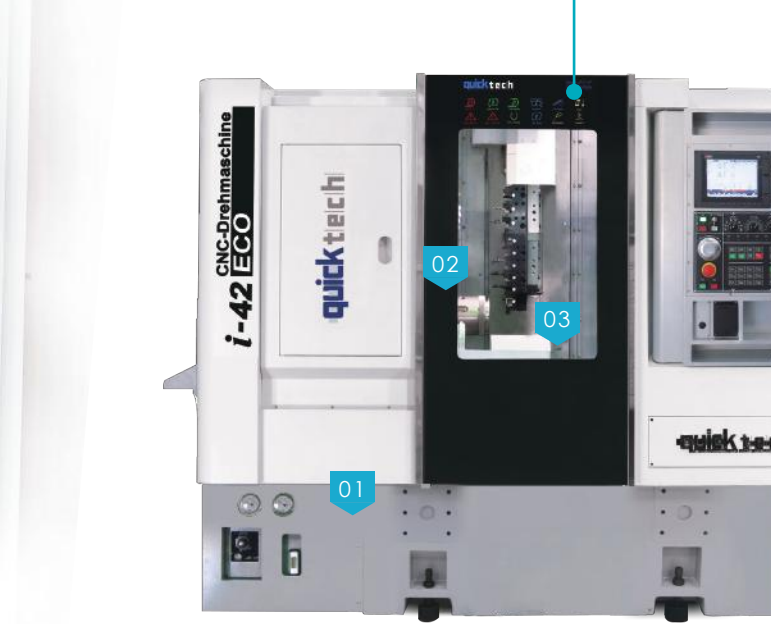


01 Robust FC35 Meehanite Castings

Harden to over HRB 190 and tempered to relieve stress.

Simple Visual Monitor

Transparent window for the lubrication and solenoid status check.



02 P4 class preload spindle bearing

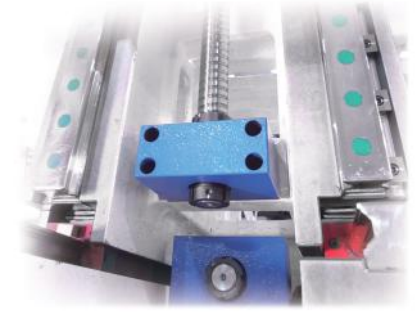
Preload bearings are offered for the maximum attachment effect



LED Extended display

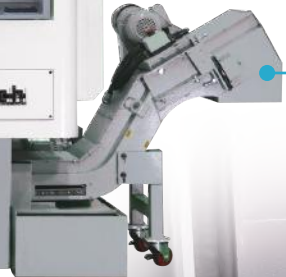
Help you to monitor easily status of the machine

Mitsubishi controller Fanuc 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.



03 Part Catcher

Allow pieces up to 65 mm diameter and 150mm length.



Chip Conveyor

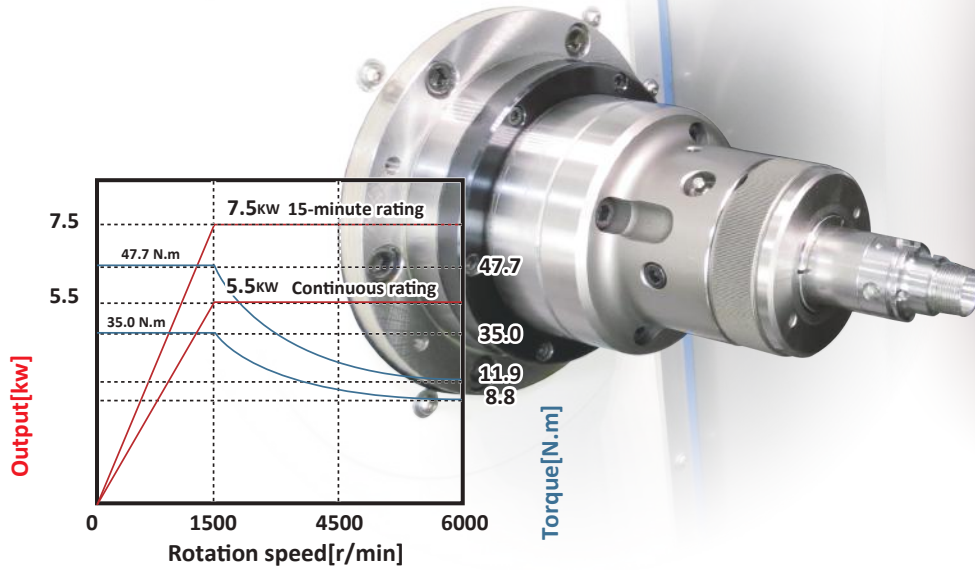
Standard and high type depends on your production request

Bar Feeder

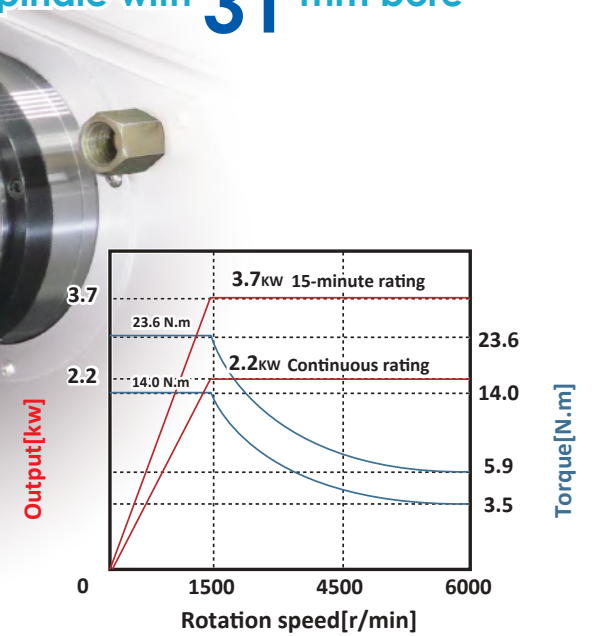
Short and Long Bar Feeder are available



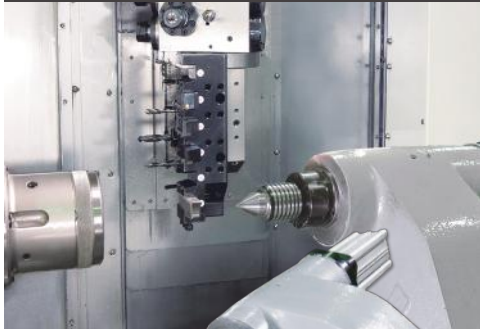
Mitsubishi AC Servo **7.5 kw**
A2-5 spindle with **44 mm** bore



Mitsubishi AC Servo **3.7 kw**
A2-5 sub spindle with **31 mm** bore

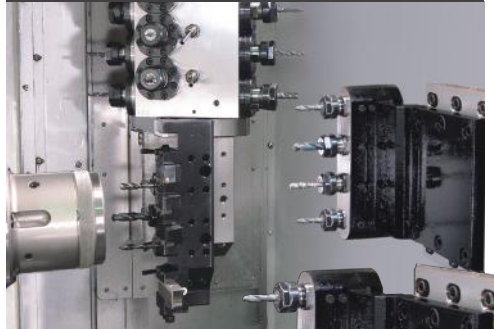


Hydraulic Tailstock



Design especially for support long work pieces securely, is also provided.

Second rack ID Tools



Simultaneous machining is possible from the outside and from the inside, depending on the work piece, the working time can be reducing up to 48%.

Intelligent Robot



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.

Tooling system



the standard i42-Eco is coming with 42mm spindle, 11 OD and 9 ID tool turning to achieve the job shop mass production.

C axis

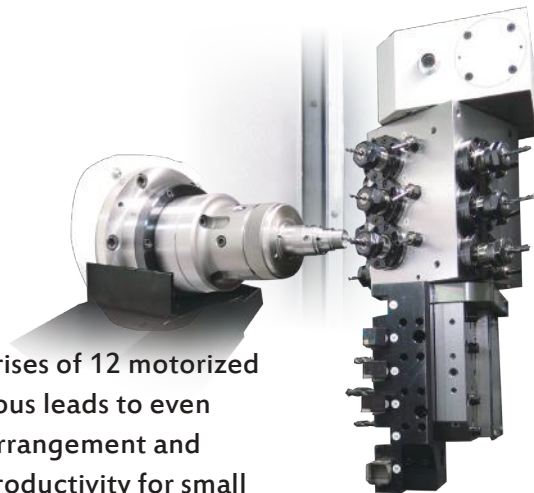
Standard machine packed with 6 live tools and C-Axis control, many complex contours can be machined, providing a variety of options to our customers.



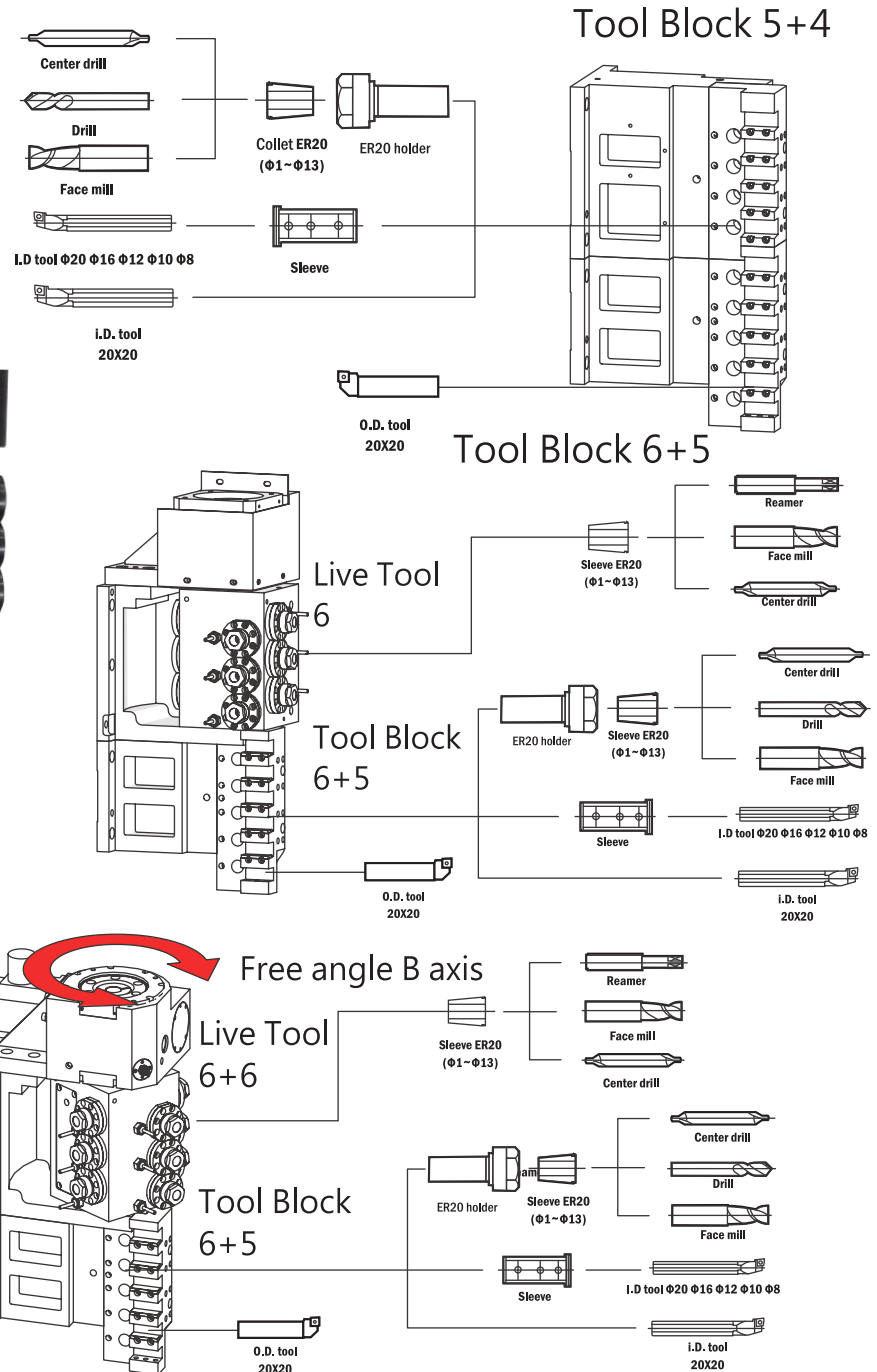
B axis

Live tools with B Axis

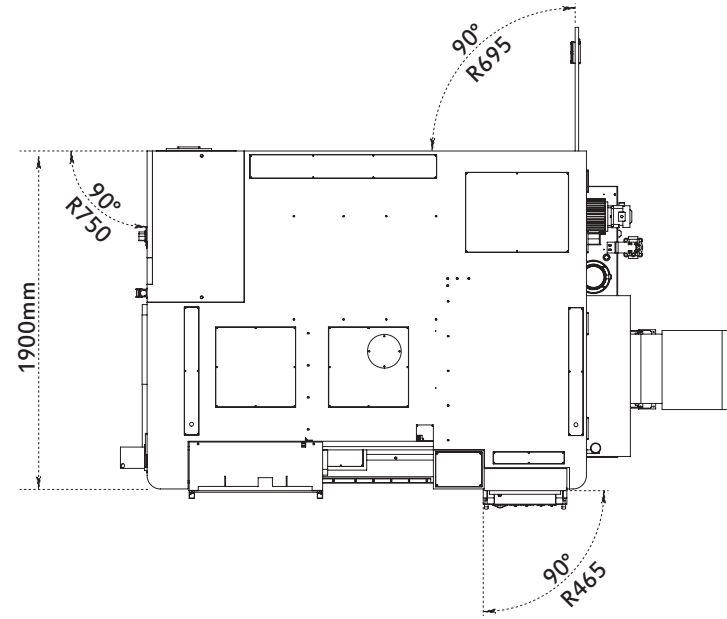
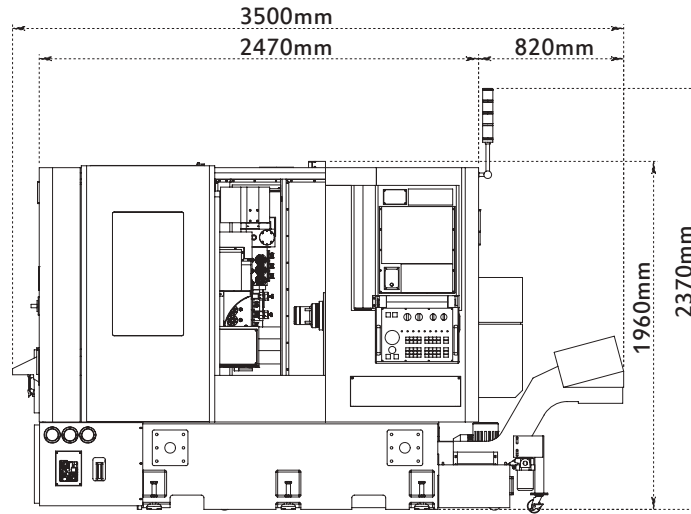
Index Time	0.3sec(one)/ 0.6(full)
Number of motorized tools	12 tools
B axis	360 °
Speed	4000rpm(Max.)
Size	ER-20
Max.Drilling Dia	12.0mm
Max.Tapping capacity	M10xP1.5



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.

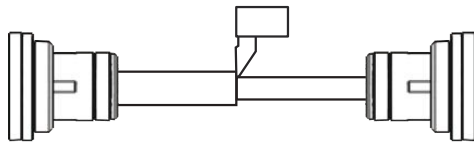


External view

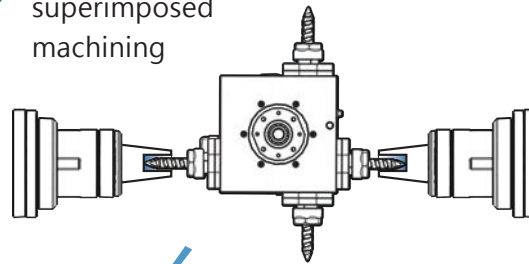


Machining applications

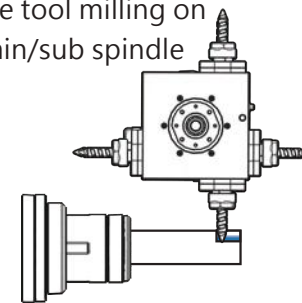
1/ Long work-piece machining



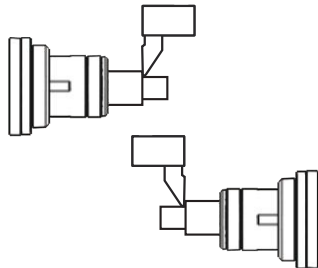
2/ Twin Spindle superimposed machining



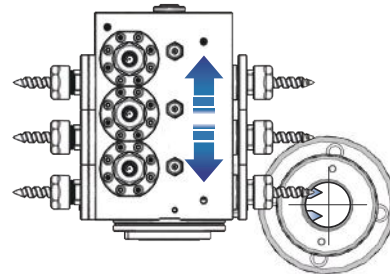
3/ Live tool milling on main/sub spindle



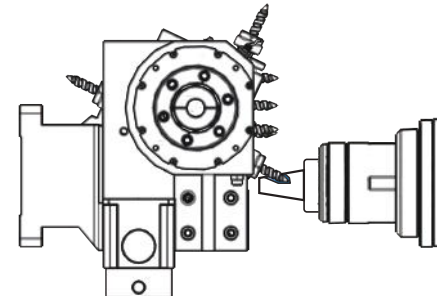
4/ Double Process Running Simultaneously



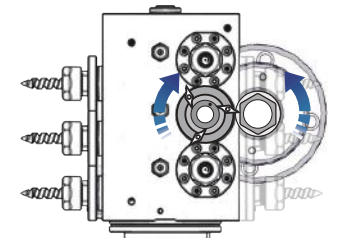
5/ Off-Center machining



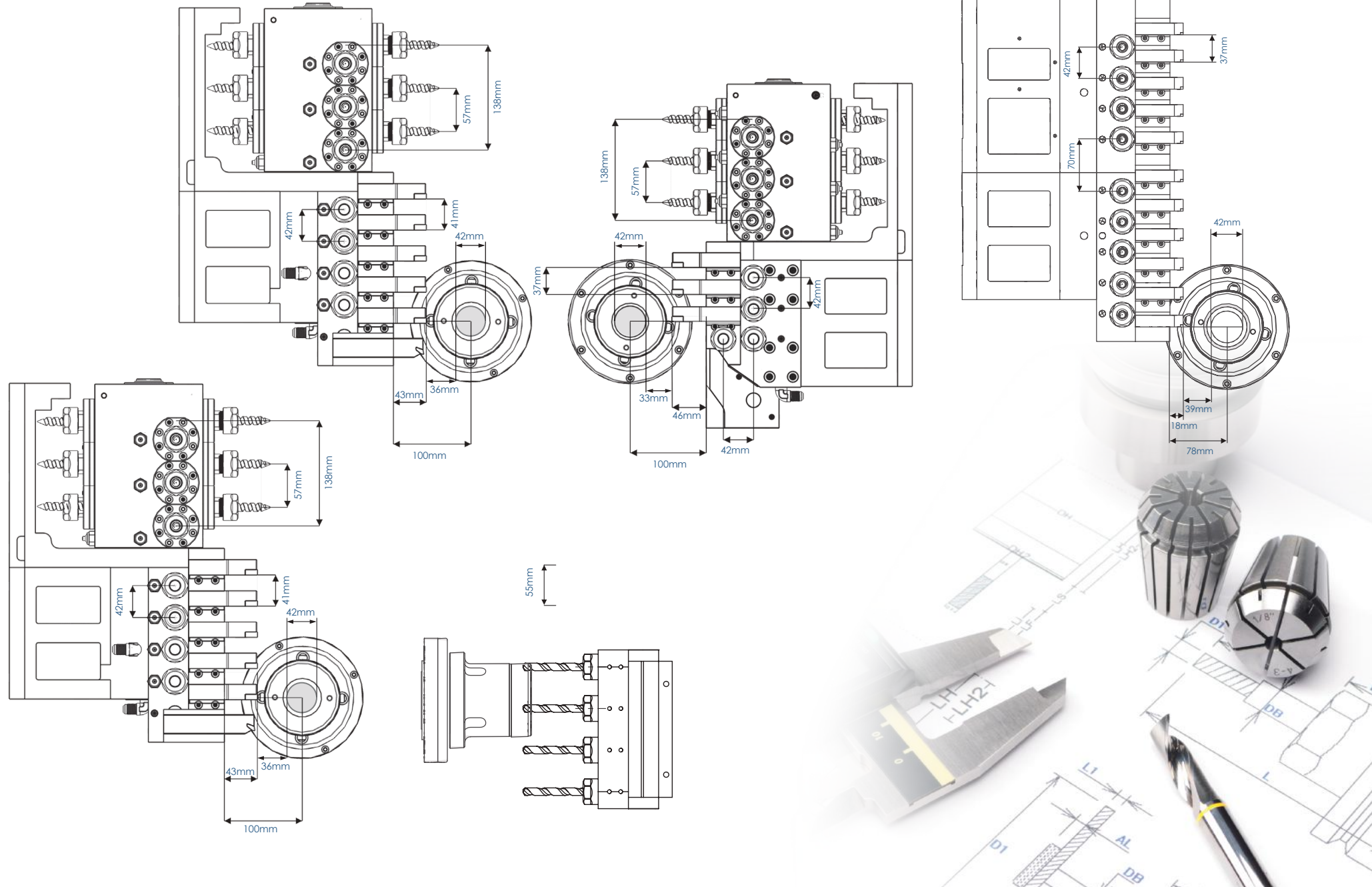
6/ Tapping or drilling by free angle B axis on main/sub spindle



7/ Polygon Generating Cutting



Gantry Tooling interference



the art of turning



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