

i-42 ECO

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



The tooling system comprises of 6 turning, 4 boring and 6 live milling tools giving a capacity of 16 tools. Its unique design allows for rapid chip to chip times, which will generally out perform turret type machines, enabling a reduction in cycle times.

Its rigid design allows heavy duty cutting to be performed, and the 6 live tooling spindles with both C-axis and Y-axis, can complete the most complex of work pieces in one operation.

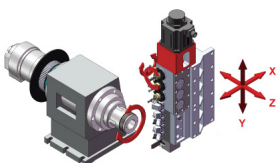


TOOLING SYSTEM

The tooling block consists of 6 turning tools, 4 boring tools and 6 live tools (16 in total).

This gang tooling system allows fast chip to chip times as there is very little movement from one tool to the next.

In addition, the Y axis allows complex and 'off-center' milling operations to be performed, and with full C-axis control, many complex contours can be machined.



Axial view

i-42 Eco



SPINDLE

The cartridge type spindle runs on P4 high precision bearings giving high radial and axial stability, allowing for heavy duty cutting.

The spindle is assembled and tested in a temperature controlled clean room, sealed, and requires no maintenance. The spindle housing is large, and symmetrically ribbed to allow heat dissipation and thermal stability.



LINEAR GUIDEWAYS

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

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

Specification

Mitsubishi Controller M70			
Spindle Max. Turning Length	1500.0 mm	X/Z axis spindle	AC Servo 1.0kw
Spindle Max. Turning Torque	7.5kw/11.0kw(option)		
Spindle Collet Chuck Type	KK5-173E42B/KK6-185E60B(option)		
Spindle Nose	ISO(DIN) A2-5/ A2-6		
Spindle Bore	44.0/62.0mm(option)	Motorized Tool	AC Servo 1.0kw/1.5kw (option)

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Written by Administrator
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Spindle Speed Range	3000 rpm/4000 rpm(4000 rpm/4000 System)	Hydraulic Motor	
C Axis	Positioning Accuracy	0.001°	Max. Pressure
Travel & Feed	X/Y/Zaxis Travel	150.0/415.0/230.0mm	Tank Capacity
Lubrication A.T.C System	Lubricant Motor OD Tools Main Spindle	25W 6	Max. Pressure
ID Tools Main Spindle	4	Tank Capacity	2 Liter
Tool Shank Size	20.0mm		
Boring Bar (main)	ER-20/20.0mm		
Motorized Tool	Index Time	0.3sec(one)/0.6(full)	
Number of motorized tools	6 Tools (3 Axial,3 Radial)	Coolant System	Coolant Motor Type
Speed	4000rpm(Max.)	Coolant Tank Capacity	160L
Size	ER-20	Machine Size	Length/Width/Height
Max.Drilling Dia.	12.0 mm	Weight	2750kg
Max. Tapping capacity	M10 X P1.25		

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