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i-42 ECO

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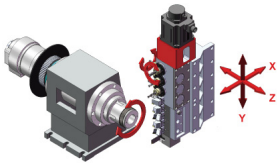


TOOLING SYSTEM

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 150.0 mm			
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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)
Spindle Speed Range		3000 rpm/4000 rpm(4000 rpm/6000 rpm(option))	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			
Lubricant Motor		25W	
A.T.C System		OD Tools Main Spindle	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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Written by Administrator

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