



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 IT-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 M70 control system.

Specification

Mitsubishi Controller M70		
Spindle Capacity	Max. Bar Working Dia	42.0mm/60.0mm (option)
	Spindle Max. Turning Length	200.0 mm
	Spindle Collet Chuck Type	KK5-173E42B/KK6-185E60B(option)
	Spindle Nose	ISO(DIN) A2-5/ A2-6
	Spindle Bore	44.0/62.0mm(option)
	Spindle Speed Range	3000 rpm/4000 rpm(4000 rpm/6000 rpm option)
C Axis	Positioning Accuracy	0.001 °
Travel & Feed	X/Y/Zaxis Travel	150.0/415.0/230.0mm
A.T.C System	OD Tools Main Spindle	6
	ID Tools Main Spindle	4
	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)
	Speed	4000rpm(Max.)
	Size	ER-20
	Max.Drilling Dia.	12.0 mm
	Max. Tapping capacity	M10 X P1.25
Mitsubishi Motor	Main-spindle	AC Spindle 7.5kw/11.0kw(option)
	X / Y / Z axis spindle	AC Servo 1.0kw
	Motorized Tool	AC Servo 1.5kw
Lubrication	Lubricant Motor	25W
	Max. Pressure	15kg/cm ²
	Lubricant Motor / Tank Capacity	25W / 2 Liter
Coolant System	Coolant Motor Type	2HP coolant ; 4T5-5 hight pressure coolant pump
	Coolant Tank Capacity	160L
Machine Size	Length/Width/Height	3350/1500/1950mm
	Weight	2750kg