



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

Machine Type		I-42ROBO
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 1.5k
A.T.C System	OD/ID Tools Main Spindle	6 / 5
	OD/ID Tools Main Spindle	----
	Tool Shank Size	20mm
	Drill Holder Size (Main)	ER-20 / Ø20mm

	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 / 12L/min
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	4300kg
() Option		