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i-42 Ultimate

This innovative series stands out as an automatic lathe!

The i-42 Ultimate designation comprises of 10 axis and 4 spindles which includes a sub spindle with both X and Z positioning. This 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 complicated parts.

Specification

Machine Type		I-42U
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 Main Spindle	5 / 9
	Tool Shank Size	□ 20mm
	Drill Holder Size (Main)	ER-20 / Ø20mm

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	Drill Holder Size (Sub)	ER-20 / Ø20mm
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} / 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	2HP + SF-30C, 25Bar, 30L/min
	Coolant Tank Capacity	240L
Machine Size	Length/ Width/ Height	3500 (2900) / 1900 / 1950mm
	Weight	5600kg
		( ) Option