



## 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.

## Specification

Machine Type		I-42ECO		
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	30m/min		
	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 1.5kw		
A.T.C System	OD/ID Tools Main Spindle	I-42 Plus	I-42 Plus M	I-42 Plus B
		11 / 9	6 / 5	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	I-42 Plus	I-42 Plus M	I-42 Plus B
		0	6	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	
Max. Pressure / Flow		30 kg/cm <sup>2</sup> / 12L/min		
Lubrication	Lubricant Pump / Tank Capacity	25W / 2L		
	Max. Pressure	15 kg/cm <sup>2</sup>		
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	3780kg		
( ) Option				