



## 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

Mitsubishi Controller M720					
Spindle Capacity	Max. Bar Working Dia	42.0mm/60.0mm (option)	Mitsubishi Motor	Main-spindle	AC Spindle 7.5kw/11.0kw(option)
	Spindle Max. Turning Length.	250.0mm		Sub-spindle	AC Spindle 3.7kw
	Spindle Collet Chuck Type	KK5-173E42B/KK6-185E60 B(option)		X/Z axis spindle	AC Servo 1.0kw
	Spindle Nose	ISO(DIN) A2-5/ A2-6		X-1/Z-1 axis	AC Servo 1.0kw (X1 Z1)
	Spindle Bore	44.0/62.0mm (option)		Motorized Tool	AC Servo 1.0kw/1.5kw (option)
	Spindle Speed Range	3000rpm/4000rpm (4000rpm/6000rpm) option			
Sub-Spindle Capacity	Max. Turning Dia.	100.0mm	Hydraulic System	Hydraulic Motor	1HP
	Max. Bar Working Dia	42.0mm		Max. Pressure	50kg/cm <sup>2</sup>
	Max. Turning Length.	100.0mm		Tank Capacity	60L
	Collet Chuck Type	KK5-173E42B			
	Nose	ISO(DIN) A2-5			
	Bore	30.0mm			
	Speed Range	4000rpm/6000rpm (option)			
C Axis	Positioning Accuracy	0.001 °			
Travel & Feed	X/Y/Zaxis Travel	150.0/415.0/250.0mm	Lubrication	Lubricant Motor	25W
	X-1/Y-1/Z-1axis Travel	410.0/410.0/300.0mm		Max. Pressure	15kg/cm <sup>2</sup>
			Tank Capacity	2 Liter	
A.T.C System	OD Tools Main Spindle(1st)	6	Coolant System	Coolant Motor Type	2HP coolant ; 4T5-5 hight pressure coolant
	ID Tools Main Spindle	4			
	OD Tools Sub Spindle(2nd)	4			
	ID Tools Sub Spindle	4			
	Tool Shank Size	20.0mm			
	Boring Bar (main)	ER-20/20.0mm			
	Boring Bar (sub)	ER-20/20.0mm		Coolant Tank Capacity	240L
Motorized Tool	Index Time	0.3sec(one)/0.6(full)	Machine Size	Length/Width/Height	3500(2900)/1900/1900mm
	Number of motorized tools	\$1-12 tools \$2-12 tools			
	B axis	360 °			
	Speed	4000rpm(Max.)			
	Size	ER-20			
	Max.Drilling Dia.	12.0mm			
	Max. Tapping capacity	M10xP1.5		Weight	4350kg