



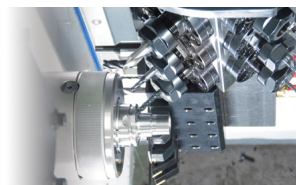
The i-42 Ultimate designation comprises of 10 axis and 4 spindles which includes a sub spindle with both X and Z positioning. This also marks the integration of the driven tools having a powerful B- axis milling for simultaneous and efficient machining. Due to this enhancement, the tools application becomes more fast and flexible for complicated parts.

### **i-42 Ultimate**

This innovative series stands out as an automatic lathe!



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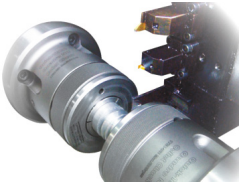


### **Tilting Motorized Tools**

Written by Administrator  
Thursday, 17 April 2014 00:00

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The milling head comprises of 12 motorized tools for 360° continuous leads to even greater flexible tools arrangement and significantly efficient productivity for small and medium lot sizes.

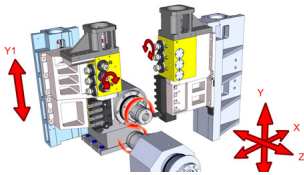


## SYNCHRONOUS SPINDLES

Both main and sub spindle can be synchronized for parting off operations, or can be used for turning longer work pieces.

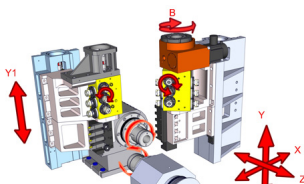
By synchronizing, transfer of the part from main to sub spindle is precise, and alignment of critical dimensions can be realized.

Synchronizing can be achieved to an accuracy of 0.02 degrees while the spindles are in motion.



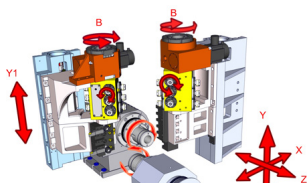
## No B-axis

i-42 Ultimate



## Single B-axis

i-42 Ultimate



## Dual B-axis

i-42 Ultimate

### Specification

Mitsubishi Controller M720

Spindle Capacity	Max. Bar Working Dia	42.0mm/60.0mm (option)	Mitsubishi Motor
Spindle Max. Turning Length	250.0mm	Sub-spindle	AC Spindle 3.7kw
Spindle Collet Chuck Type	KK5-173E42B/KK6-185E60B (option)	Sub-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	
Max. Bar Working Dia	42.0mm		
Max. Turning Length.	100.0mm	Hydraulic System	Hydraulic Motor
Collet Chuck Type	KK5-173E42B	Max. Pressure	50kg/cm
Nose	ISO(DIN) A2-5	Tank Capacity	60L
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	
X-1/Y-1/Z-1axis Travel	410.0/410.0/300.0mm	Lubrication	Lubricant Motor
Max. Pressure	15kg/cm	2	
Tank Capacity	2 Liter		
A.T.C System	OD Tools Main Spindle (1st)		Coolant System

CNC turning and milling complex lathe | i-42 Ultimate

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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

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

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