



EUMA



WENZHOU EUMA MACHINERY CO., LTD.

No. 1 Building 2909, Faith-trust Center, No. 1067 Jinxiu Road,
Lucheng District, Wenzhou, Zhejiang, China P.C.:325000

Tel: +86 577 8823 9930

Mob: +86 139 6883 7667 Justin

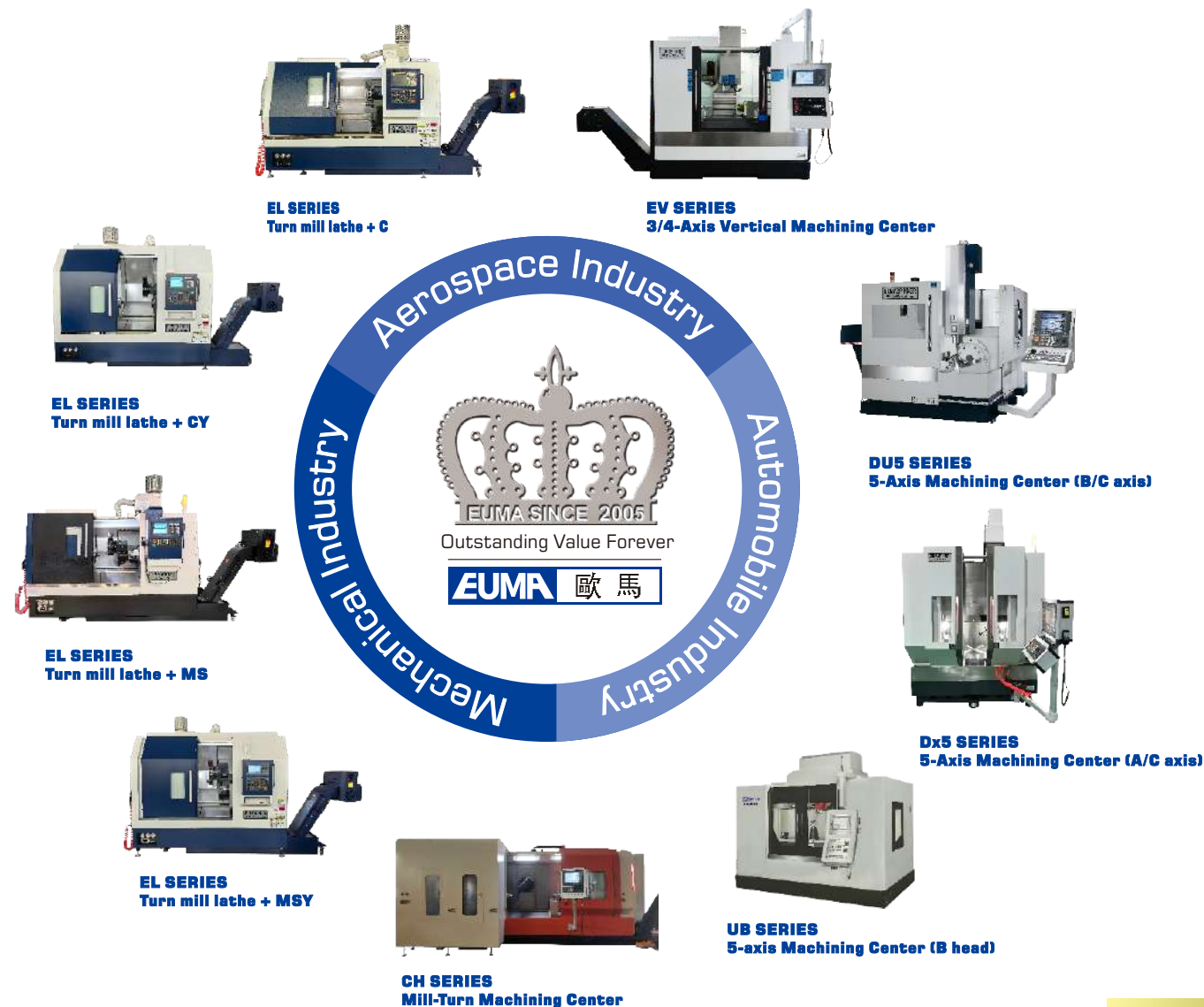
E-mail: info@eumaspinner.com

Http://www.eumaspinner.com



- Since 2005
- Originated from Taiwan
- 12 years export experience globally
- CNC turn-mill Lathe and 5-axis machining center

EUMASPINNER®



COMPANY PROFILE

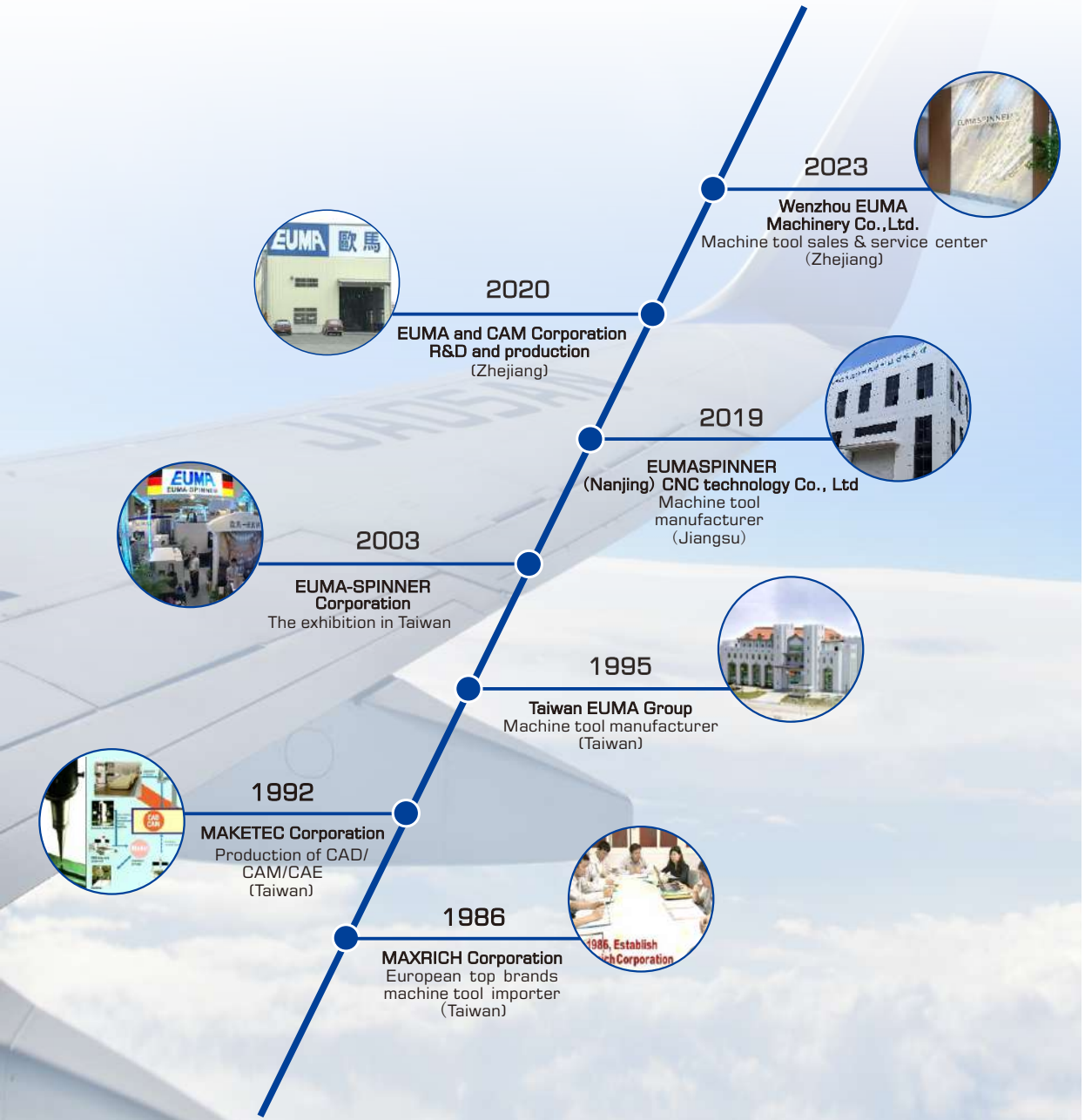


Wenzhou EUMA Machinery Co.,Ltd. is one of the leading precision machine tool suppliers which the machines are mainly customized and manufactured in Nanjing under the brand of EUMASPINNER. Since its establishment, the company has introduced advanced CNC machine tool design concepts from Taiwan. Committing, design and assembly of ultra high accuracy CNC turn mill lathes, 3/4 axis and various 5-axis machining centers. The products adopt the experience of cooperation with Taiwanese from casting to whole machine assembly.

Fully monitored by a mature quality control system to ensure the stability and reliability of the product. More than 90% of the products are well exported and serviced. As a joint venture partner with EUMASPINNER(Nanjing), we will jointly promote our brand and permanent be responsible for the sales and take the after-sales service of the full series machine tools.

In the future, we will continue to take high-end equipment manufacturing as the basis, digital manufacturing as the goal, the internet as the integration, and cooperate with domestic well-known central enterprises to achieve the synchronous improvement of the company's technology and brand, and make unremitting efforts to achieve the goal of domestic first-class intelligent equipment enterprises.

COMPANY HISTORY



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EL

SERIES

Linear Way
Turning Lathe

EL-42Li

EL-52Li

EL-65Li

EL-75Li

EL-80Li



CHARACTERISTICS

The turn mill lathe series has a 30° inclined HT300 gray cast iron bed structure standard with linear guideway and box way as option. Precision in-house belt spindle standard with circle encoder, providing unsurpassed power. Nose taper from A2-5 up to A2-15. Range of working diameter from 320mm to 700mm, length from 500mm to 4000mm optional with steady rest. The fast-change accuracy servo turret handles the cutting and boring operations. Programmable or hydraulic tailstock is customizable based on customers' requirements.

- HT300 gray cast iron bed
- 30° inclined bed structure
- In-house precision spindle with circle encoder
- Rigidity servo turret
- Optional spindle power
- Programmable or hydraulic tailstock
- Original THK linear guideway
- CO/C1/C3 class ball screw customized
- Machine constant temperature device

Specification	unit	EL-42Li	EL-52Li			EL-65Li			
Control system	-	FANUC Oi-TF	FANUC Oi-TF			FANUC Oi-TF			
Max. Swing over bed	mm	500	580			650			
Max. Swing over slide	mm	240	360			410			
Max. Turning diameter	mm	320	450			550			
Max. Turning length	mm	520	750	1000	1500	800	1150	1550	2100
Nose	-	A2-6	A2-6	A2-8		A2-6	A2-8 [A2-11]	A2-8 [A2-11]	A2-8 [A2-11]
Hole/bar through	mm	66/52	66/52	87/75		66/52	86/75 [105/90]	86/75 [105/90]	86/75 [105/90]
Chuck size	inch	8	8 [10]	10 [12]		8 [10]	10 [12]	10 [12,15]	10 [12,15]
Max. Speed	rpm	4500	4500	3500		4000	3500 [2000]	3500 [2000]	3500 [2000]
Spindle power (S1/S6 40%)	kw	11/15	11/15	15/18.5		11/15 [15/18.5]	11/15 [15/18.5]	11/15 [15/18.5]	11/15 [15/18.5]
Spindle torque (S1/S6 40%)	Nm	52/70	52.5/95.5	71.6/95.5		52.5/95.5 [71.6/118]	105/140 [143/191]	105/140 [143/191]	105/140 [143/191]
Speed ratio	-	1:1.75	1:2.5	1:2.5		1:2.5	1:2.5	1:2.5	1:2.5
Spindle output torque (S1/S6 40%)	Nm	91/122	131/238	179/238		131/238 [179/295]	262.5/350 [357.7/477.5]	262.5/350 [357.7/477.5]	262.5/350 [357/477.5]
Guideway	-	Linear (Op:hard)							
X-axis travel	mm	185	230	230		280			
Z-axis travel	mm	550	800	1150/1650		810	1160	1560	2110
X/Z feeding speed	m/min	30	24	24		30	24	24	24
X/Z motor power/torque	kw/Nm	1.8/11	1.8/11	2.5/20		1.8/11	2.5/20	2.5/20	2.5/20
X/Z axis position accuracy (full travel)	mm	0.005	0.005	0.007		0.006	0.008 (1000mm)		
X/Z axis Re-position accuracy (full travel)	mm	0.003	0.003	0.004 (1000mm)		0.004	0.004 (1000mm)		
Turret type	-	servo				servo			
Number of positions	T	12				12			
Cutting tool shank	mm	25x25				25x25	25x25 [32x32]		
Boring tool diameter	mm	32				40	40 [50]		
Tailstock moving method	-	Hard/Turret Slide Driving (Op: Linear / Servo driving)							
Tailstock travel	mm	470	680	1050	1450	800	1150	1550	2100
Sleeve taper	-	M4#	M5#	M5#		M5#	M5# [M6#]		
Sleeve diameter / travel (hydraulic)	mm	70/100	100	100		100/110	100/110 [180/160]		
Coolant power	w	350	350	500		350	700		
Water tank	L	200	200	220		200	220	250	250
Hydraulic tank capacity	L	20	20	20		20	20	20	20
Total power	kva	40	45	50		45	50	50	50
LxWxH (chip conveyor)	mm	2550x1800x1850	3140x1950x2050	3550 x1950x2050	4100x1950x2050	3480x2100x2150	3680x2100x2150	4280x2100x2150	4880x2100x2150
Weight	kg	3500	4200	4600	5000	4500	5000	5500	6000

Specification	unit	EL-75Li			EL-80Li			Standard Configuration	Option Configuration
Control system	-	FANUC Oi-TF			FANUC Oi-TF			1. 30° one-piece casting slant bed	1. C0 Ultra-high precise ball screw
Max. Swing over bed	mm	750			930			2. Servo (power) turret 12 positions	2. Machine guideway constant temperature
Max. Swing over slide	mm	450			700			3. Axis linear roller guideway	3. Italy BF gear reducer
Max. Turning diameter	mm	650			800			4. C3 high precise ball screw	4. Oil-water separator
Max. Turning length	mm	1550	2050	3050	2200	3050	4050	5. C axis indexing 0.001°	5. Oil-mist collector
Nose	-	A2-8 [A2-11]	A2-11 [A2-15]	A2-11 [A2-15]	A2-15			6. FANUC β main motor, FANUC axis motor	6. Parts catcher + conveying belt
Hole/bar through	mm	86/75 [105/90]	105/90 [132/120]	105/90 [132/120]	132/120			7. Cutting coolant system	7. Bar feeder
Chuck size	inch	10 [12,15]	12 [15]	15 [21]	15 [18] [21]			8. Fully enclosed protective cover	8. RENISHAW tool re-setter
Max. Speed	rpm	3500 [2000]	3500 [2000]	2000 [1200]	1200			9. Hydraulic system	9. RENISHAW workpiece measurement
Spindle power (S1/S6 40%)	kw	15/18.5	15/18.5	15/18.5	30/37			10. Hydraulic 3-jaw chuck, standard hard jaw	10. High pressure coolant device
Spindle torque (S1/S6 40%)	Nm	143/191 [220/250]	143/191 [220/250]	220/250	249/309			11. Automatic lubrication device	11. Rotating window
Speed ratio	-	1:2.5			1:10 (reducer ratio 1:5, speed ratio:1:2)			12. Water gun	12. HEIDENHAIN optical grating scale
Spindle output torque (S1/S6 40%)	Nm	357.7/477.5 [550/625]	357.7/477.5 [550/625]	550/625	2490/3090			13. Air gun	13. Mandrel for geometric accuracy test
Guideway	-	Linear (Op:hard)			Linear/Boxway			14. Electric cabinet air conditioner	14. Collision avoidance dynamic detection system
X-axis travel	mm	330			550			15. Electronic handwheel	15. High pressure 20 bar coolant
Z-axis travel	mm	1650	2180	3180	2250	3110	4110	16. CF card and USB interface	16. Steady rest
X/Z axis feeding speed	m/min	24	24	24	24			17. Transformer	17. Additional warranty
X/Z axis motor power/torque	kw/Nm	2.5/20, 3.0/27			3.0/36			18. Chip conveyor + chip collector	
X/Z axis position accuracy	mm	0.008 (1000mm)			0.012 (1000mm)			19. Collet foot switch	
X/Z axis Re-position accuracy	mm	0.004 (1000mm)			0.008 (1000mm)			20. Work light	
Turret type		Servo			Servo			21. Safety door lock	
Number of positions	T	12			12			22. Work completion indicating light	
Cutting tool shank	mm	25x25 [32x32]	25x25 [32x32]	25x25 [32x32]	32x32			23. A set of tools for adjustment	
Boring tool diameter	mm	40 [50]	40 [50]	40 [50]	50			24. 8 tool holders (including 2 drive holders)	
Tailstock moving method	-	Hard/Turret Slide Driving (Op: Linear / Servo driving)						25. Leveling bolts and pads	
Tailstock travel	mm	1600	2100	3100	2100	3100	4100	26. Operation and maintenance manual	
Sleeve taper	-	M5# [M6#]			M6#			27. Siemens 828 system, 10.4" color screen	
Sleeve diameter / travel (hydraulic)	mm	100/110 [180/160]			180/160				
Coolant power	w	700			700				
Water tank	L	250	270	270	300	380	480		
Hydraulic tank capacity	L	20			20				
Total power	kva	50	50	50	50	50	50		
LxWxH (chip conveyor)	cm	456x231x237	488x231x237	588x231x237	488x233x237	588x233x237	688x233x237		
Weight	kg	7100	8200	9200	12000	15000	19000		

EL SERIES

Linear Way Turn-mill Lathe + C

EL-42Li+C EL-52Li+C
EL-65Li+C EL-75Li+C
EL-80Li+C



CHARACTERISTICS

The turn mill lathe+C series has a 30° inclined HT300 gray cast iron bed structure standard with linear guideway and box way as option. Precision in-house belt spindle standard with circle encoder, providing unsurpassed power. Nose taper from A2-5 up to A2-15. Range of working diameter from 320mm to 700mm, length from 500mm to 4000mm optional with steady rest. The fast change live tool turret could be BMT or VDI type to handle the cuts. Programmable or hydraulic tailstock is customizable on customers' requirements.



- HT300 gray cast iron bed
- 30° inclined bed structure
- In-house precision spindle with circle encoder
- Rigidity servo live power turret
- Optional spindle/turret power
- Programmable or hydraulic tailstock
- Original THK linear guideway
- C0/C1/C3 class ball screw customized
- Machine constant temperature device

Specification	unit	EL-42Li+C	EL-52Li+C			EL-65Li+C			
Control system	-	FANUC Oi-TF	FANUC Oi-TF			FANUC Oi-TF			
Max. Swing over bed	mm	500	580			650			
Max. Swing over slide	mm	240	360			410			
Max. Turning diameter	mm	300	400			500			
Max. Turning length	mm	470	680	980	1480	730	1080	1480	2030
Nose	-	A2-6	A2-6	A2-8		A2-6	A2-8 [A2-11]	A2-8 [A2-11]	
Hole/bar through	mm	66/52	66/52	87/75		66/52	86/75 [105/90]	86/75 [105/90]	
Chuck size	inch	8	8	10		8 [10]	10 [12]	10 [12,15]	
Max. Speed	rpm	4500	4500	3500		4000	3500 [2000]	3500 [2000]	
Encoder indexing	degree	0.001	0.001	0.001		0.001			
Spindle power (S1/S6 40%)	kw	11/15	11/15	11/15 [15/18.5]		11/15 [15/18.5]	11/15 [15/18.5]	11/15 [15/18.5]	
Spindle torque (S1/S6 40%)	Nm	52/70	52.5/95.5	52.5/95.5 [71.6/95.5]		52.5/95.5 [71.6/118]	105/140 [143/191]	105/140 [143/191]	
Speed ratio	-	1:1.75	1:2.5	1:2.5		1:2.5	1:2.5	1:2.5	
Spindle output torque (S1/S6 40%)	Nm	91/122	131/238	131/238 [179/238]		131/238[179/295]	262.5/350 [357.7/477.5]	262.5/350 [357.7/477.5]	
Guideway	-	Linear (Op:hard)							
X-axis travel	mm	185	230	230		280			
Z-axis travel	mm	500	690	990	1490	740	1090	1490	2040
X/Z feeding speed	m/min	30	24	24		30	24		
X/Z motor power/torque	kw/Nm	1.8/11	1.8/11	1.8/11 [2.5/20]		1.8/11	1.8/11 [2.5/20]		
X/Z axis position accuracy (full travel)	mm	0.005	0.005	0.007		0.006	0.008 (1000mm)		
X/Z axis Re-position accuracy (full travel)	mm	0.003	0.003	0.004 (1000mm)		0.004	0.004 (1000mm)		
Turret type and positions	T	BMT45/55 (12 positions)	BMT55 (12 positions)			BMT55 (12 positions)	BMT55/65 (12 positions)		
Cutting tool shank	mm	25X25	25x25	25x25		25x25	25x25 [32x32]	25x25 [32x32]	
Boring tool diameter	mm	32	32	32		40	40 [50]	40 [50]	
Milling speed	rpm	4000 [6000]	4000 [6000]	4000 [6000]		4000 [6000]			
Rated power	kw	2.7 [4.5]	2.7 [4.5]	2.7 [4.5]		2.7 [4.5]			
Rated torque	Nm	12 [18]	12 [18]	12 [18]		12 [18]			
Tailstock moving method	-	Hard/Turret Slide Driving (Op: Linear / Servo driving)							
Tailstock travel	mm	430	660	960	1460	710	1060	1460	2010
Sleeve taper	-	M4#	M5#	M5#		M5#	M5# [M6#]		
Sleeve diameter / travel (hydraulic)	mm	70/100	100	100		100/110 [180/160]			
Coolant power	w	350	350	500		350	700	700	
Water tank	L	200	200	220		200	220	250	
Hydraulic tank capacity	L	20	20	20		20			
Total power	kva	40	45	50		45	50	50	
LxWxH (chip conveyor)	mm	2550X1800X3550	3340x1950x2050	3550x1950x2050	4100x1950x2050	3680x2100x2150	4280x2100x2150	4580x2100x2150	4880x2100x2150
Weight	kg	3550	4250	4600	5000	5000	5200	5500	6000

Specification	unit	EL-75Li+C			EL-80Li+C		
Control system	-	FANUC Oi-TF			FANUC Oi-TF		
Max. Swing over bed	mm	750			930		
Max. Swing over slide	mm	450			600		
Max. Turning diameter	mm	600			750		
Max. Turning length	mm	1480	1980	2980	2100	2950	3950
Nose	-	A2-8 [A2-11]	A2-11 [A2-15]	A2-11 [A2-15]	A2-15		
Hole/bar through	mm	86/75 [105/90]	105/90 [132/120]	105/90 [132/120]	132/120		
Chuck size	inch	10 [12,15]	12 [15]	15 [21]	18 [21]		
Max. Speed	rpm	3500 [2000]	3500 [2000]	2000 [1200]	1200		
Encoder indexing	degree	0.001			0.005		
Spindle power (S1/S6 40%)	kw	15/18.5	15/18.5	15/18.5	30/37		
Spindle torque (S1/S6 40%)	Nm	143/191 [220/250]	143/191 [220/250]	220/250	249/309		
Speed ratio	-	1:2.5	1:2.5	1:2.5	1:10 (reducer ratio 1:5, speed ratio:1:2)		
Spindle output torque (S1/S6 40%)	Nm	357.7/477.5 [550/625]	357.7/477.5 [550/625]	550/625	2490/3090		
Guideway	-	Linear (Op:hard)			Linear/Boxway		
X-axis travel	mm	330			500		
Z-axis travel	mm	1580	2120	3120	2150	3050	4150
X/Z feeding speed	m/min	24	24	24	24		
X/Z motor power/torque	kw/Nm	2.5/20			3.0/36		
X/Z axis position accuracy (full travel)	mm	0.008 (1000mm)			0.012 (1000mm)		
X/Z axis Re-position accuracy (full travel)	mm	0.004 (1000mm)			0.008 (1000mm)		
Turret type and positions	T	BMT55/65 (12 positions)			BMT65/75 (12 positions)		
Cutting tool shank	mm	25x25 [32x32]	25x25 [32x32]	25x25 [32x32]	32x32		
Boring tool diameter	mm	40 [50]	40 [50]	40 [50]	50		
Milling speed	rpm	4000 [6000]			4000 [6000]		
Rated power	kw	2.7 [4.5]			4.5		
Rated power	Nm	12 [18]			22		
Tailstock moving method	-	Hard/Turret Slide Driving (Op: Linear / Servo driving)					
Tailstock travel	mm	1460	1960	2960	2100	2950	3950
Sleeve taper	-	M5# [M6#]			M6#		
Sleeve diameter / travel (hydraulic)	mm	100/110 [180/160]			180/160		
Coolant power	w	700			700		
Water tank	L	250	270	270	300	380	480
Hydraulic tank capacity	L	20			20		
Total power	kva	50	50	50	50	50	50
LxWxH (chip conveyor)	mm	4560x2310x2370	4880x2310x2370	5880x2310x2370	4880x2330x2370	5880x2330x2370	6880x2330x2370
Weight	kg	7100	8200	9200	12000	15000	19000

EL SERIES

Linear Way
Turn-mill Lathe + CY



EL-42Li+CY EL-52Li+CY

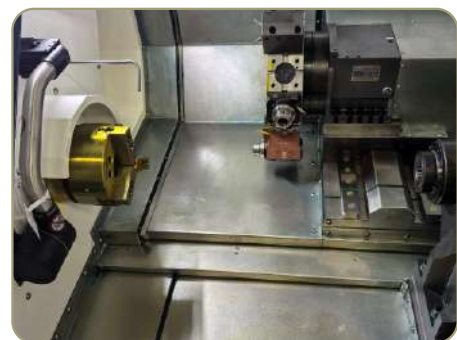
EL-65Li+CY EL-75Li+CY

EL-80Li+CY

CHARACTERISTICS

The turn mill lathe+C series has a 30° inclined HT300 gray cast iron bed structure standard with linear guideway and box way as option. Precision in-house belt spindle standard with circle encoder, providing unsurpassed power. Nose taper from A2-5 up to A2-15. Range of working diameter from 320mm to 700mm, length from 500mm to 4000mm optional with steady rest. The fast change live tool turret could be BMT or VDI type to handle the cuts. Programmable or hydraulic tailstock customized by customers.

- HT300 gray cast iron bed
- 30°+30° inclined bed structure
- In-house precision spindle with circle encoder
- Rigidity Sauter live power turret
- Optional spindle/turret power
- Programmable or hydraulic tailstock
- Original THK linear guideway
- CO/C1/C3 class ball screw customized
- Machine constant temperature device



Specification	unit	EL-42+CY	EL-52Li+CY		EL-65Li+CY			EL-75Li+CY			EL-80Li+CY			
Control system	-	FANUC Oi-TF	FANUC Oi-TF		FANUC Oi-TF			FANUC Oi-TF			FANUC Oi-TF			
Max. Swing over bed	mm	500	580		650			750			930			
Max. Swing over slide	mm	240	360		410			400			600			
Max. Turning diameter	mm	300	400		440			600			700			
Max. Turning length	mm	450	600	900	650	1000	1400	950	1450	1950	2100	2950	3950	
Nose	-	A2-6	A2-6	A2-8	A2-6	A2-8 [A2-11]		A2-8 [A2-11]		A2-11 [A2-15]	A2-15			
Hole/bar through	mm	66/52	66/52	86/75	66/52	86/75 [105/90]		86/75 [105/90]		105/90 [132/120]	132/120			
Chuck size	inch	8	8	10	8	10 [12, 15]		10 [12, 15]		15 [21]	18 [21]			
Max. Speed	rpm	4500	4500	3500	4000	3500 [2000]		3500 [2000]		2000 [1200]	1200			
Encoder indexing	degree	0.001	0.001		0.001			0.001			0.005			
Spindle Power (S1/S6 40%)	kw	11/15	11/15	15/18.5	11/15 [15/18.5]		11/15 [15/18.5]		15/18.5	15/18.5	15/18.5	30/37		
Spindle torque (S1/S6 40%)	Nm	52/70	52/70	71.6/95.5	52.5/95.5 [71.6/118]		105/140 [143/191]		143/191	143/191 [220/250]	220/250	249/309		
Speed ratio	-	1:1.75	1:2	1:2.5	1:2.5		1:2.5		1:2.5		1:10 (reducer ratio 1:5, speed ratio:1:2)			
Spindle output torque (S1/S6 40%)	Nm	91/122	104/140	179/238	131/238 [179/295]		262.5/350 [357.7/477.5]		357.7/477.5	357.7/477.5 [550/625]	550/625	2490/3090		
Guideway	-	Linear (Op:hard)									Linear/Boxway			
X/Y-axis travel	mm	195/±40	230/±50		240/±50			330/±60			400/±100			
Z-axis travel	mm	500	650	950	700	1050	1550	1050	1550	2050	2150	3050	4150	
X/Y/Z feeding speed	m/min	30/15/30	30/15/30		25/15/25		24/15/24		24/15/24			24/15/24		
X/Y/Z motor power/torque	kw/Nm	1.8/11	1.8/11		X: 1.8/11; Y/Z: 2.5/20			2.5/20			3.0/36			
X/Y/Z axis position accuracy	mm	0.005	0.005		0.006		0.008 (1000mm)		0.008 (1000mm)			0.012 (1000mm)		
X/Y/Z axis re-position accuracy	mm	0.003	0.003		0.004		0.004 (1000mm)		0.004 (1000mm)			0.008 (1000mm)		
Power turret type and positions	-	BMT45/55 (12 positions)			BMT55 (12 positions)	BMT55/65 (12 positions)		BMT55/65 (12 positions)			BMT65/75 (12 positions)			
Cutting tool shank	mm	25X25	25x25		25x25	25x25 [32x32]		25x25 [32x32]			32x32			
Boring tool diameter	mm	32	32		40	40 [50]		40 [50]			50			
Milling speed	rpm	4000 [6000]	4000 [6000]		4000 [6000]			4000 [6000]			4000 [6000]			
Milling Rated power/ Rated torque	kw/Nm	2.7/12 [4.5/18]	2.7/12 [4.5/18]		2.7/12 [4.5/18]			2.7/12 [4.5/22]			2.7/12 [4.5/22]			
Moving method	-	Hard/Turret Slide Driving (Op: Linear / Servo driving)												
Tailstock travel	mm	400	600	900	750	1100	1600	930	1430	1930	2100	2950	3950	
Sleeve taper	-	M4#	M5#		M5#	M5# [M6#]		M5# [M6#]			M6#			
Sleeve diameter / travel (hydraulic)	mm	70/100	100/110		100/110	100/110 [180/160]		100/110 [180/160]			180/160			
Coolant power	w	350	350	500	350	700		700			700			
Water tank	L	200	200		200	220	250	220	250	270	300	380	480	
Hydraulic tank capacity	L	20	20		20			20			20			
Total power	kva	38	38		45	50	50	50			50			
LxWxH (chip conveyor)	cm	255x180x215	355x210x218	385x210x218	325x210x225	385x210x225	456x210x225	385x231x257	456x231x257	488x231x257	488x233x237	588x233x237	688x233x237	
Weight	kg	3650	4350	4550	4800	5300	5800	6800	7300	8400	12000	15000	19000	

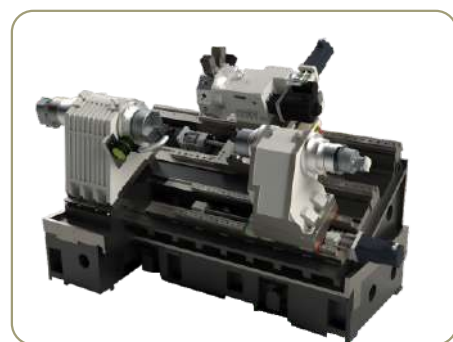
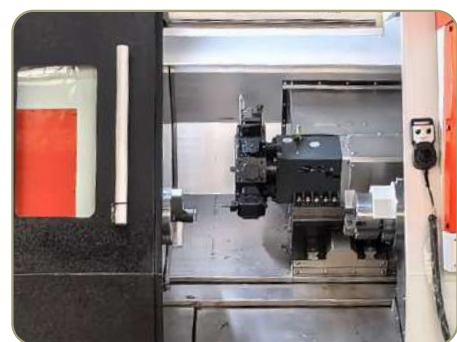
EL
SERIES
Linear Way
Turn-mill Lathe + MS

EL-42Li+MS EL-52Li+MS
EL-65Li+MS EL-75Li+MS

CHARACTERISTICS

The turn mill lathe+MS series has a 30° inclined HT300 gray cast iron bed structure standard with linear guideway. EUMASPINNER precision electrical main and sub-spindle standard with water cooling device, nose runout below 0.001m, taper from A2-5 to A2-8.Range of working diameter from 320mm to 480mm, working length from 400mm to 850mm. The fast change live tool turret could be BMT or VDI type to handle the cutting and milling. CO/C1 ball screw for ultra high accuracy production and machine body constant temperature to be customized.

- HT300 gray cast iron bed
- 30° inclined bed structure
- Ultra-high accuracy electrical double spindle with water cooling
- Rigidity Sauter live power turret
- Optional spindle/turret power
- Original THK linear guideway
- CO/C1/C3 class ball screw customized
- Machine constant temperature device



Specification		unit	EL-42Li+MS		EL-52Li+MS		EL-65Li+MS				EL-75Li+MS			
Control system		-	Siemens 828D		Siemens 828D		Siemens 828D				Siemens 828D			
Max. Swing over bed		mm	500		580		650				750			
Max. Swing over slide		mm	200		300		330				420			
Max. Turning diameter		mm	260		350		400				600			
Max. Turning length		mm	400		600	900	640		900	1300	1850	900	1400	1900
Electrical Main/Sub-Spindle (C1/C2 axis)	Nose	-	A2-6	A2-5	A2-6	A2-5	A2-6	A2-5	A2-8		A2-6		A2-8	A2-6
	Hole/bar through	mm	66/52	56/42	66/52	56/42	66/52	56/42	86/75		66/52		86/75	66/52
	Chuck size	inch	8	6	8	6	8	6	10		8		10	8
	Max. Speed	rpm	4500	6000	4500	5500	4500	5500	3500		4500		3500	4500
	Encoder indexing	degree	0.001		0.001		0.001				0.001			
	Power (S1/S6 100%)	kw	17/21	11/14	17/21	11/14	17/21	11/14	37.5/47		17/21		37.5/47	17/21
	Torque (S1/S6 100%)	Nm	110/214	42/90	110/214	42/90	110/214	42/90	300/376		110/214		300/376	110/214
Guideway		-	Linear											
X-axis travel		mm	170		240		250				330			
Z1-axis travel		mm	430		650	950	660		920	1370	1870	1050	1550	2050
Z2-axis travel		mm	350		580	880	620		880	1280	1830	900	1400	1900
X/Z1/Z2 feeding speed		m/min	30/15/30		25/15/25		25/15/25				25/15/25			
X/Z1/Z2 motor power/torque		kw/Nm	1.8/11		3.0/18		3.0/18				3.0/18			
X/Z1/Z2 axis position accuracy (full travel)		mm	0.005		0.005		0.006		0.008 (1000mm)			0.008 (1000mm)		
X/Z1/Z2 axis Re-position accuracy (full travel)		mm	0.003		0.003		0.004		0.004 (1000mm)			0.004 (1000mm)		
Turret type		-	BMT45 [BMT55]		BMT45 [BMT55]		BMT55		BMT55 [BMT65]			BMT55 [BMT65]		
Number of positions		T	12		12		12				12			
Cutting tool shank		mm	25x25		25x25		25x25				25x25 [32x32]			
Drilling/milling tool collet		-	ER25		ER25		ER32				ER25[ER32]			
Boring tool diameter		mm	25		32		40				40 [50]			
Milling speed		rpm	4600		4600		4600				4600			
Rated/max power		kw	3.55		3.55		3.55				3.55			
Rated/max torque		Nm	22		22		22				22			
Coolant power		W	350		350	500	500				750			
Water tank		L	200		200		200		230			230		
Hydraulic tank capacity		L	20		20		20				20			
Total power		kva	38		38		45		65			65		
LxWxH (chip conveyor)		cm	255X180X215		365x210x195	395x210x195	348x215x215		368x215x215	428x215x215	488x215x215	385x210x225	456x210x225	488x210x225
Weight		kg	3700		4450	4750	4700		5300	5900	6500	6650	7250	8350

EL
SERIES

Linear Way
Turn-mill Lathe + MSY

EL-42Li+MSY EL-52Li+MSY
EL-65Li+MSY EL-75Li+MSY



CHARACTERISTICS

The turn mill lathe+MSY series has a 30° inclined HT300 gray cast iron bed structure standard with linear guideway. True Y axis interpolated from two X axis by another inclined 30°slider.EUMASPINNER precision electrical main and sub-spindle standard with water cooling device, nose runout below 0.001m, taper from A2-5 to A2-8.Range of working diameter from 220mm to 400mm,working length from 400mm to 850mm.Fast change live tool turret could be BMT or VDI type to handle the cutting and milling.CO/C1 ball screw for ultra high accuracy production and machine body constant temperature to be customized.

- HT300 gray cast iron bed
- 30° + 30° inclined bed structure
- Ultra-high accuracy electrical double spindle with water cooling
- Rigidity Sauter live power turret
- Optional spindle/turret power
- Original THK linear guideway
- CO/C1/C3 class ball screw customized
- Machine constant temperature device

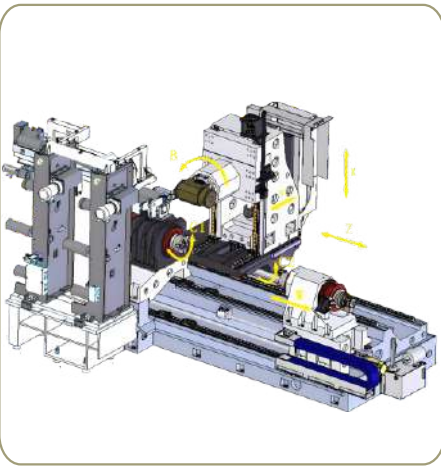
Specification		unit	EL-42Li+MSY		EL-52Li+MSY		EL-65Li+MSY				EL-75Li+MSY			
Control system		-	Siemens 828D		Siemens 828D		Siemens 828D				Siemens 828D			
Max. Swing over bed		mm	500		580		650				750			
Max. Swing over slide		mm	200		300		330				420			
Max. Turning diameter		mm	260		350		400				600			
Max. Turning length		mm	400		600	900	640		900	1300	1850	900	1400	1900
Electrical Main/Sub-Spindle (C1/C2 axis)	Nose	-	A2-6	A2-5	A2-6	A2-5	A2-6	A2-5	A2-8		A2-6		A2-8	A2-6
	Hole bar through	mm	66/52	56/42	66/52	56/42	66/52	56/45	86/75		66/52		87/75	66/52
	Chuck size	inch	8	6	8	6	8	6	10		8		10	8
	Max. Speed	rpm	4500	6000	4500	6000	4500	5500	3500		4500		3500	4500
	Encoder indexing	degree	0.001		0.001		0.001		0.001			0.001		
	Power (S1/S6 100%)	kw	17/21	11/14	17/21	11/14	17/21	11/14	37.5/47		17/21		37.5/47	17/21
	Torque (S1/S6 100%)	Nm	110/214	42/90	110/214	42/90	110/214	42/90	300/376		110/214		300/376	110/214
Guideway		-	Linear											
X-axis travel		mm	195		240		250		250			330		
Y-axis travel		mm	±40		±50		±50		±50			±60		
Z1-axis travel		mm	430		650	950	660		920	1320	1870	1050	1550	2050
Z2-axis travel		mm	350		580	880	620		880	1280	1830	900	1520	2020
X/Y/Z1/Z2 feeding speed		m/min	30/15/30/15		25/15/25/15		25/15/25/15		25/15/25/15			25/15/25/15		
X/Y/Z1/Z2 motor power/torque		kw/Nm	1.8/21		3.0/18		3.0/18		3.0/18			3.0/18		
X/Z axis position accuracy (full travel)		mm	0.005		0.005		0.008		0.008 (1000mm)			0.008 (1000mm)		
X/Z axis Re-position accuracy (full travel)		mm	0.003		0.003		0.004		0.004 (1000mm)			0.004 (1000mm)		
Turret type		-	BMT45 [BMT55]		BMT45 [BMT55]		BMT55		BMT55 [BMT65]			BMT55 [BMT65]		
Number of positions		T	12		12		12				12			
Cutting tool shank		mm	25x25		25x25		25x25				25x25 [32x32]			
Drilling/milling tool collet		-	ER25		ER25		ER32				ER32			
Boring hole diameter		mm	25		32		32 [40]				40 [50]			
Milling speed		rpm	4600		4600		4600				4600			
Rated power		kw	3.55		3.55		3.55				3.55			
Rated torque		Nm	22		22		22				22			
Coolant power		w	350		350	500	500				750			
Water tank		L	200		200		200		230			230		
Hydraulic tank capacity		L	20		20		20				20			
Total power		kva	38		38		45		65			65		
LxWxH (chip conveyor)		cm	255x180x215		365x210x218	395x210x218	348x215x225	368x215x225	456x210x225	488x215x225	385x210x225	456x210x225	488x210x225	
Weight		kg	3750		4600	5100	5000	5600	6200	6800	6750	7350	8450	

CH SERIES

5-axis Mill-Turn Machining Center

CH6163/5-SV

UB6180/5-SV



CHARACTERISTICS

The CH series mill-turn composite machining center represent the most efficient solution for processing components such as impellers, blades, marine propellers, heavy-duty generator rotors, steam turbine rotors, and large diesel engine crankshafts. These turning-milling compound machining centers are characterized by high efficiency and high precision. They enable the completion of complex machining processes in a single workpiece setup, making them suitable for manufacturing modern molds, including automotive parts and aircraft structural components.

The main shaft is driven by a built-in electric spindle which has C-axis function, improves the smoothness of the transmission and the accuracy of C-axis positioning. The right bed side could be optional with sub-spindle or servo tailstock. The B-axis milling head can be optionally equipped with German Schott or Italian DUPLIMATIC 5-axis head, which can perform linear motion along the longitudinal (Z-axis), transverse (X-axis), and radial (Y-axis), as well as swinging and rotating motion along the B-axis.

- Integral 60° slanted bed (≥7m models feature a spliced bed structure), with X/Y/Z axes utilizing roller-type linear guides and an orthogonal Y-axis configuration.
- The main spindle employs an external two-speed gearbox (with neutral position) and a independently driven C-axis.
- Milling electric spindle and rotary unit—B-axis turret.
- Independent servo-driven movement for the steady rest and tailstock.
- Z-axis driven by a ball screw mechanism—equipped with a hydraulic screw support bracket.
- Chain-type tool magazine, fixed on the left side with expandability.
- ATC (Automatic Tool Changer) mechanism performs tool grasping, movement, and tool changing operations.

Specification	unit	CH6163/5-SV	CH6180/5-SV	Standard Configuration	Option Configuration
Max. swing diameter over bed/over slide	mm	Ø680/Ø550	Ø800/Ø680	1. Siemens ONE CNC system	1. Built-in electric A2-6 sub-spindle
Max. turning diameter	mm	Ø630	Ø660	2. Built-in electric A2-8 spindle,26kw	2. Servo tailstock / Hydraulic stailstock
Max. turning length	mm	2000 (1000~8000)	3000 (1500~8000)	3. C-axis independent servo indexing device	3. B-axis milling head:
X/Y/Z/W axis travel	mm	680/±150/2100/1850	750/±200/3050/2750	4. B-axis milling head:36kW,50-12000r/min, 90/120Nm	25kw, 12000rpm, 75/100Nm
X/Y/Z/W axis rapid feed rate	m/min	30/24/30/6	20/20/15/5	5. HSK63A tool shank	24kw, 15000rpm, 55/72Nm
X/Y/Z/W axis motor power	kw	4.4/4.4/4.9/3.3	4.9/4.4/4.9/3.3	6. German SAUTER B-axis head	16.8kw, 7000rpm, 100/130Nm
B axis travel/speed	-	±120°/100rpm	±120°/100rpm	7. Automatic 40 position Tool magazine	4. CAPTO C6 tool shank
C axis travel/speed	-	360°/200rpm	360°/200rpm	8. Heidenhain optical scale on X,Y,Z,W axis	5. Italian Duplomatic B-axis head
Spindle speed	rpm	50-4000	50-4000	9. Coolant system 20bar, 40L/min	6. Hollow chuck with spindle hole-through
Spindle nose	-	A2-8	A2-8	10. Chip conveyor + cart	7. 60/80-position tool magazine
Spindle hole through diameter	mm	Ø96	Ø96	11. NSK spindle bearing	8. High pressure inner cooler 70bar, 29L/min
Spindle motor power	kw	26/31.2	26/31.2	12. NSK ball screw bearing	9. 10,12,15 inch main spindle chuck
Spindle motor torque	Nm	40	40	13. Taiwan solid hydraulic chuck and cylinder	10. High pressure clamping device
Chuck size	inch	12 solid	15 solid	14. Schneberger linear guideway(roller type)	11. 1 set of soft and hard chuck jaw
C axis minimum indexing	degree	0.001	0.001	15. Taiwan PMI ball screw	12. Hydraulic steady rest Ø20-165mm, Ø50-200mm, Ø45-310mm
Servo tailstock taper	-	MT5	MT6	16. 3D probe (Marposs)	13. Steady rest tester and flushing device
Tailstock clamping type	-	Program control		17. Tuopu Hydraulic pump and oil cooler	14. Oil mist collector
Tailstock moving style	-	servo+ball screw		18. Tongfei Spindle Oil coolant	15. Water oil separator
Milling power	kw	36.6	36.6	19. Nanjing BIJUR centralized lubrication	16. Automatic tool setter (left, Marposs)
Milling speed	rpm	50-12000	50-12000	20. Qingchuan internal protection covers	17. Down power milling turret BMT75
Milling torque (S1/S6)	Nm	90/120	90/120	21. Fully enclosed protective cover	18. Tool monitoring system
B axis speed	rpm	100	100	22. Schneider electrical components	19. Workpiece measuring device Renishaw
B axis minimum indexing angle	degree	0.001	0.001	23. Taiwan Airtac pneumatic system	20. Bar feeder
B axis power	kw	6	6	24. Taiwan Lixun live centers	21. Air pressure limit siwtch
B axis torque (S1/S6)	Nm	580/1160	580/1160	25. Air gun	22. Automatic door safety device
Hydraulic steady rest diameter	mm	Ø45-310	Ø45-310	26. Coolant gun	23. Rotating window
Tool shank form	-	HSK-63A	HSK-63A	27. Work lights	24. Additional portable MPG
Tool magazine capacity	pcs	40	40	28. Three-color signal light	25. Spindle blowing device
Tool max.length /weight	-	300mm / 8kg	300mm / 8kg	29. Electrical cabinet condtioner	26. Spindle flushing device
Coolant system capacity	L	400	400	30. Basic tool box	
Coolant system flow	L/min	35	35		
Inner coolant pressure	bar	20	20		
Inner coolant flow	L/min	40	40		
Hydraulic station pressure	Mpa	6.3	6.3		
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.02	0.008/0.008/0.02		
X/Y/Z axis repeat positioning accuracy	mm	0.006/0.006/0.012	0.006/0.006/0.012		
B/C axis positioning accuracy	-	±12°/24"	±12°/24"		
B/C axis repeat positioning accuracy	-	±4°/15"	±4°/15"		
Machine power	kw	85	85		
Machine size (without conveyor)	mm	6700x3820x3000	7800x3820x3000		
Machine weight	kg	30000	35000		
CNC control	-	SIEMENS ONE	SIEMENS ONE		

EV SERIES

3/4 axis Vertical Machining Center

EV-855A
EV-1055A

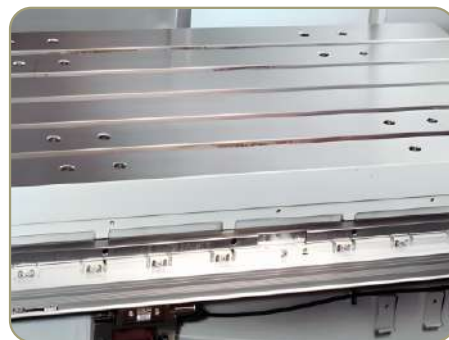
EV-1165A
EV-1370A



CHARACTERISTICS

Superb static and dynamic stability full EV series with marble mineral castings body. Standard with linear guideway, specified model with box guideway. Over 20 years assembling experience. CO/C1 class ball screw for ultra high accuracy production. X axis travel range from 810mm to 3200mm (column travel). Spindle speed from 6000rpm to 15000 rpm. Fanuc or Siemens system for choice.

- Marble mineral casting bed with high rigidity and stability.
- Structures features an "A" shaped column which the bottom with a large span and a wide base.
- X/Y/Z axis equipped with THK high-precision linear roller guideways.
- Rigid feed speed up to 48m/min.
- C3 class customized high accuracy ball screw as standard and Taiwan original PMI/HIWIN ultra high accuracy CO ball screws for optional.
- Repeat positioning accuracy on 1000mm length full travel reach to 0.003mm.
- 4-axis rotary table for multi side processing customized.



Specification	unit	EV-855A	EV-1055A	EV-1165A	EV-1370A	Standard Configuration	Option Configuration
X-axis Travel	mm	810	1000	1100	1300	1. Fully enclosed cover 2. Arm type tool changer with 24-tool magazine 3. Direct drive drive spindle 4. Spindle oil cooling device 5. Spindle and cutting air blowing 6. X/Y/Z-axis roller guideway P-class 7. X/Y/Z-axis ball screw C-class 8. Cutting coolant system 9. Automatic centralized lubrication system 10. Air gun + coolant gun 11. Cabinet air conditioner 12. Oil-water separator 13. Transformer (380V-220V) 14. Manual pulse generator 15. RS232C interface/USB/Ethernet 16. Working lights 17. Pause and work completion light 18. Fault indicator light 19. Automatic power off system M30 20. Adjustment level bolts and support blocks 21. Basic tool box 22. Chain-plate automatic chip conveyor + trolley 23. FANUC Oi-MF CNC system with 10.4" color screen	1. 32-position tool magazine 2. Spindle: belt type/drive type/electrical type 3. Spindle speed: 6000/8000/10000/12000/15000rpm 4. Spindle taper: HSK/BT/BBT 5. Spindle inner coolant 20bar/30bar/50bar/70bar 6. Italian BF gear reducer 7. 4-axis rotary table 8. Oil mist collector 9. X/Y/Z axis Heidenhain grating scale 10. Workpiece measuring device Renishaw OMP40-2/RMP40 11. Tool setting device Renishaw TS27R/NC4 12. Post-processing 13. Automatic door with cylinder 14. Spindle and ball screw thermal deformation compensation 15. Rotating window 16. CO class ball screw for ultra precision production 17. Structure optimization, better castings, increase weight 18. Spindle surround spray 19. Chip-conveyor (Scraper type or screw type) 20. SIEMENS 828D
Y-axis Travel	mm	550	550	650	720		
Z-axis Travel	mm	560	580	650	720		
Distance (spindle and table)	mm	130-690	120-700	120-700	130-850		
Distance (spindle and column)	mm	595	595	673	735		
Worktable size	mm	1000x550	1100x550	1300x650	1400x700		
Max. Load on worktable	kg	650	650	900	1000		
T-slot size (widthxdistancexnumber)	mm	18x90x5	18x90x5	18x120x5	18x120x5		
Spindle taper	type	ISO 40	ISO 40	ISO 40	ISO 40		
Feed rate (X/Y/Z axis)	m/min	48/48/32	48/48/32	36/36/24	36/24/24		
Cutting feed rate (X/Y/Z axis)	mm/min	20000	20000	15000	15000		
Ball screw (X/Y/Z axis)	mm	Ø40/16	Ø40/16	Ø40/12	Ø40/12		
Linear Guideway	mm	35/45/45	35/45/45	45/45/45	45/45/45		
Tool shank type	type	BT40	BT40	BT40	BT40		
Tool magazine capacity	pcs	24	24	24	24		
Max. tool dia.(adjacent/no adjacent)	mm	Ø80/Ø150	Ø80/Ø150	Ø80/Ø150	Ø80/Ø150		
Max. tool length	mm	250	250	250	250		
Max. tool weight	kg	8	8	8	8		
Tool change method	type	arm type	arm type	arm type	arm type		
Tool change time (tool to tool)	sec.	2	2	2	2		
Main motor speed	rpm	10000 (12000)	10000 (12000)	10000 (12000)	8000 (6000)		
Main motor power	kw	11/18 (11/22)	11/18 (11/22)	11/18 (11/22)	22/33 (28/42)		
Main motor torque	Nm	52.5/118 (70/159)	52.5/118 (70/159)	52.5/118 (70/159)	143/236 (176/260)		
X/Y/Z axis feeding motor power	kw	3/3/3	3/3/3	3/3/3	3.8/4.9/4.9		
X/Y/Z axis feeding motor torque	Nm	20/20/27	20/20/27	20/20/36	18/27/27		
Turning coolant motor power	kw	1.0+1.0	1.0+1.0	1.0+1.0	1.0+1.0		
Required air pressure	kg/cm ²	6.5	6.5	6.5	6.5		
Required power	kva	25	25	30	30		
X/Y/Z axis positioning accuracy	mm	0.008 (0.005)	0.008 (0.005)	0.008 (0.005)	0.008 (0.006)		
X/Y/Z axis repositioning accuracy	mm	0.005 (0.003)	0.005 (0.003)	0.005 (0.003)	0.005 (0.004)		
Machine weight	kg	5200	5500	6000	7000		
Machine size (L x W x H)	mm	2700x2400x2850	3000x2400x2850	3100x2600x3050	3400x2900x3300		
CNC control	-	FANUC OIMF PLUS	FANUC OIMF PLUS	FANUC OIMF PLUS	SIEMENS 828D		

EV

SERIES

3/4 axis Vertical Machining Center

EV-1475B

EV-1580B

EV-1680B

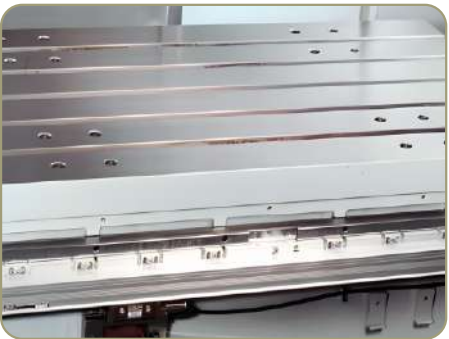
EV-1890B



CHARACTERISTICS

Superb static and dynamic stability full EV series with marble mineral castings body. Standard with linear guideway, specified model with box guideway. Over 20 years assembling experience. CO/C1 class ball screw for ultra high accuracy production. X axis travel range from 810mm to 3200mm (column travel). Spindle speed from 6000rpm to 15000 rpm. Fanuc or Siemens system for choice.

- Marble mineral casting bed with high rigidity and stability.
- Structures features an "A" shaped column which the bottom with a large span and a wide base.
- X/Y/Z axis equipped with THK high-precision linear roller guideways.
- Rigid feed speed up to 48m/min.
- C3 class customized high accuracy ball screw as standard and Taiwan original PMI/HIWIN ultra high accuracy CO ball screws for optional.
- Repeat positioning accuracy on 1000mm length full travel reach to 0.003mm.
- 4-axis rotary table for multi side processing customized.



Specification	unit	EV-1475B	EV-1580B	EV-1680B	EV-1890B	Standard Configuration	Option Configuration
X-axis Travel	mm	1400	1500	1600	1800	1. Fully enclosed cover 2. Arm type tool changer with 24-tool magazine 3. Direct drive drive spindle 4. Spindle oil cooling device 5. Spindle and cutting air blowing 6. X/Y/Z-axis roller guideway P-class 7. X/Y/Z-axis ball screw C-class 8. Cutting coolant system 9. Automatic centralized lubrication system 10. Air gun + coolant gun 11. Cabinet air conditioner 12. Oil-water separator 13. Transformer (380V-220V) 14. Manual pulse generator 15. RS232C interface/USB/Ethernet 16. Working lights 17. Pause and work completion light 18. Fault indicator light 19. Automatic power off system M30 20. Adjustment level bolts and support blocks 21. Basic tool box 22. Chain-plate automatic chip conveyor + trolley 23. FANUC Oi-MF CNC system with 10.4" color screen	1. 32-position tool magazine 2. Spindle: belt type/drive type/electrical type 3. Spindle speed: 6000/8000/10000/12000/15000rpm 4. Spindle taper: HSK/BT/BBT 5. Spindle inner coolant 20bar/30bar/50bar/70bar 6. Italian BF gear reducer 7. 4-axis rotary table 8. Oil mist collector 9. X/Y/Z axis Heidenhain grating scale 10. Workpiece measuring device Renishaw OMP40-2/RMP40 11. Tool setting device Renishaw TS27R/NC4 12. Post-processing 13. Automatic door with cylinder 14. Spindle and ball screw thermal deformation compensation 15. Rotating window 16. CO class ball screw for ultra precision production 17. Structure optimization, better castings, increase weight 18. Spindle surround spray 19. Chip-conveyor (Scraper type or screw type) 20. SIEMENS 828D
Y-axis Travel	mm	750	800	800	900		
Z-axis Travel	mm	750	700	700	800		
Distance (spindle and table)	mm	150-900	155-855	160-860	105-905		
Distance (spindle and column)	mm	875	855	885	992		
Worktable size	mm	1500x700	1600x800	1700x800	2000x900		
Max. Load on worktable	kg	1000	1200	1500	1800		
T-slot size (widthxdistancexnumber)	mm	18x100x7	22x110x7	22x110x7	22x125x7		
Spindle taper	type	ISO 50	ISO 50	ISO 50	ISO 50		
Feed rate (X/Y/Z axis)	m/min	36/24/24	20/20/20	20/20/20	20/20/20		
Cutting feed rate (X/Y/Z axis)	mm/min	10000	10000	10000	15000		
Ball screw (X/Y/Z axis)	mm	Ø40/12	Ø50/10	Ø50/10	Ø50/10		
Linear Guideway	mm	45/55*4/45	55/45*4/55	55/45*4/55	55/55*4/55		
Tool shank type	type	BT50	BT50	BT50	BT50		
Tool magazine capacity	pcs	24	24	24	24		
Max. tool dia.(adjacent/no adjacent)	mm	Ø110/Ø220	Ø110/Ø220	Ø110/Ø220	Ø110/Ø220		
Max. tool length	mm	350	350	350	350		
Max. tool weight	kg	15	15	15	15		
Tool change method	type	arm type	arm type	arm type	arm type		
Tool change time (tool to tool)	sec.	3	3	3	3		
Main motor speed	rpm	8000 (6000)	8000 (6000)	8000 (6000)	8000 (6000)		
Main motor power	kw	22/33 (28/42)	22/33 (28/42)	22/33 (28/42)	22/33 (28/42)		
Main motor torque	Nm	143/236 (176/260)	143/236 (176/260)	143/236 (176/260)	143/236 (176/260)		
X/Y/Z axis feeding motor power	kw	3.8/4.9/4.9	3.8/4.9/4.9	3.8/4.9/4.9	3.8/4.9/4.9		
X/Y/Z axis feeding motor torque	Nm	18/27/27	18/27/27	18/27/27	18/27/27		
Turning coolant motor power	kw	1.0+1.0	1.0+1.0	1.0+1.0	1.0+1.0		
Required air pressure	kg/cm²	6.5	6.5	6.5	6.5		
Required power	kva	35	35	35	35		
X/Y/Z axis positioning accuracy	mm	0.008 (0.005)	0.009 (0.007)	0.009 (0.007)	0.009 (0.007)		
X/Y/Z axis repositioning accuracy	mm	0.005 (0.004)	0.006 (0.004)	0.006 (0.005)	0.006 (0.005)		
Machine weight	kg	7500	8000	9500	10000		
Machine size (L x W x H)	mm	3700x2900x3300	4000x3300x3550	4100x3300x3550	4300x3400x3550		
CNC control	-	SIEMENS 828D	SIEMENS 828D	FANUC OIMF PLUS	SIEMENS 828D		

DU SERIES

5-axis Machining Center (B/C axis)

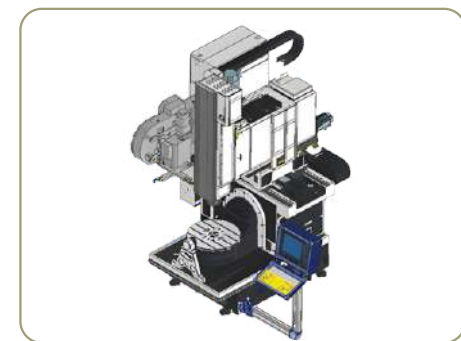
DU5-500
DU5-650



CHARACTERISTICS

The Eumaspinner DU5-500/650 could complete a complex part in one CNC. Direct drive or electrical spindle to be choice, milling speed up to 20000rpm. Rotary and tilting table with DD torque motor and heidenhain encoder which offers full 5-axis simultaneous machining, B axis swing range $\pm 120^\circ$ and C axis with 360° rotating for high accuracy applications such as mold-making. It can also handle heavy workpieces and can be configured with automation for production applications.

- Marble mineral casting bed with high rigidity and stability.
- High rigidity base, X/Y axis with cross slide saddle, suitable for high torque cutting spindle unit design.
- X/Y/Z axis equipped with original imported THK linear roller guideways.
- C3 class customized high accuracy ball screw as standard.
- Taiwan original PMI/HIWIN ultra high accuracy CO ball screw be optional, repeat positioning accuracy on full travel stability at 0.003mm.
- Taiwan HIWIN DD torque motor standard configured with Heidenhain circle encoder for high speed and accuracy machining.
- Direct-drive or built-in spindle with SK or HSK A63 taper is customized.



Specification	unit	DU5-500	DU5-650
X/Y/Z axis travel	mm	520/450/420	620/520/460
B axis swing range (degree)	degree	± 120	± 120
B/C axis drive mode	-	Direct drive motor	Direct drive motor
C axis rotation range (degree)	degree	360 (0.01)	360 (0.01)
Distance from spindle to table	mm	150-570	150-610
Worktable size/max. working	mm	$\varnothing 500/540 \times R480$	$\varnothing 650/880$
Number of T-slot x slot width	-	6-12H8	5-14H8/H11
Max. load weight	kg	200	300
Max. speed of B/C axis	rpm	60/150	60/100
Rated torque of B/C axis	Nm	335/106	2000/600
Max. torque of B/C axis	mm	1680/840	4200/2400
Max. spindle speed/tape shank	rpm	15000/HSK-A63	15000/HSK-A63
Spindle power (S1/S6 40%)	kw	16.8/23.5	18/25.2
Spindle output torque (S1/S6 40%)	Nm	53/100	82/118
X/Y/Z axis fast moving speed	m/min	42	42
X/Y/Z axis cutting feed rate	m/min	0.001~20	0.001~20
X/Y/Z axis feed motor power	kw	3.1/4.29/4.29	3.1/4.29/4.29
Tool magazine number of tools	pcs	32	32
Max. length of tool	mm	300	300
Max. tool diameter/adjacent empty	mm	$\varnothing 75/\varnothing 150$	$\varnothing 75/\varnothing 150$
Max. tool weight	kg	8	8
Cutting coolant motor power	kw	1.0+1.0	1.0+1.0
Air pressure requirement	kg/cm ²	5-8	5-8
Coolant pump pressure	bar	4	4
Water tank capacity	L	180	240
Required power capacity	kva	50	65
X/Y/Z axis positioning accuracy (VDI 3441 full travel)	mm	0.008	0.008
B/C axis positioning (VDI 3441 full travel)	arc/sec	10	10
X/Y/Z axis re-positioning accuracy (VDI 3441 full travel)	mm	0.004	0.004
B/C axis re-positioning accuracy (VDI 3441 full travel)	arc/sec	4	4
CNC system	-	Siemens One	Siemens One
Machine total height	mm	2900	2995
Machine length x width (no conveyor)	mm	2840x3000	2850x3354
Machine net weight (no accessories)	kg	6000	6800

Standard Configuration	Option Configuration
1. Fully enclosed protective cover	1. 80 position tool magazines
2. Automatic tool changer 40 tools	2. Automatic doors
3. THK linear roller guideway	3. NX post-processor
4. X/Y/Z three-axis THK ball screw	4. 3-axis HEIDENHAIN grating scales
5. Torque motor A/C rotary table	5. Anti-collision system
6. A/C axis Heidenhain circle encoder	6. Magnetic water tank separator
7. Cutting coolant system	7. Full top covers
8. Chip flushing device	8. Rotating window
9. Oil-water separator	9. Spindle and 3-axis temperature compensation
10. Chain plate automatic chip conveyor + chip collector	10. Renishaw laser tool setter device NC4
11. Cutting fluid cleaning spray gun and air gun	11. Renishaw workpiece measurement OMP60
12. Automatic central lubrication system	12. Oil mist collector
13. Hydraulic station system device	13. Spindle inner coolant 20-70bar
14. Spindle blowing device	14. Ultra-high accuracy CO class ball screw
15. Portable electronic handwheel	15. Explosion proof dust collector
16. RS232C, USB and DNC Ethernet interface	
17. LED working lights	
18. Three color lights	
19. Automatic power cut M30	
20. Basic tool box	
21. Electric cabinet air conditioner	
22. Horizontal adjustment bolts and foundation blocks	
23. CNC systems: SIEMENS ONE	

DX
SERIES

5-axis Machining
Center (A/C axis)

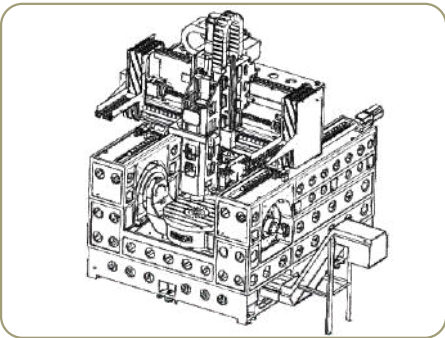
DX5-630
DX5-800



CHARACTERISTICS

From drawings to birth, EUMASPINNER DX5 series machining center embodies the expertise and technology of European machine tools, pouring in EUMASPINNER's strongest technical foundation. Original imported precision direct drive and electric spindle 12000/15000/20000 rpm and high torque, low energy consumption, high precision DD motor rotary swing table with diameters of 630 and 800mm tailored solutions for customers expanded processing range and improved processing efficiency. Machine positioning and repeatability position accuracy are measured in micrometers. Various European options items available according to user's requests. Undoubtedly, our DX5 is currently one of the most competitive high-end 5-axis machining centers.

- Trapezoid structure of crossbeam and sliding seat.
- High speed, high power, high torque precision electric spindle, large load direct drive rotary table.
- X, Y, Z, A, C axis adopt full closed-loop control, equipped with absolute grating scale and circular encoder.
- Y- axis double drive gantry crane structure, short spindle overhang, strong cutting rigidity.
- Z-axis has 4 guide rails for sliding.



Specification	unit	DX5-630	DX5-800	Standard Configuration	Option Configuration
X/Y/Z axis travel	mm	700/700/500	800/900/620	1. Fully enclosed protective cover	1. 3-axis HEIDENHAIN grating scales
Maximum turning diameter of table	mm	800	1000	2. Arm type tool changer	2. Taiwan CELLS electrical spindle
Maximum load of table	kg	800	1200	3. Spindle oil cooler	15000/2000rpm
Distance between table and spindle nose	mm	120-620	120-740	4. Coolant supply unit	3. Renishaw tool measurement NC4
Spindle speed	mm	20000 (electrical spindle)	15000 (direct drive spindle)	5. Auto centralized lubrication	4. Renishaw workpiece measure device
Spindle taper	-	HSK A63	HSK A63	6. Hydraulic unit	OMP40
Main motor power	kw	31/37.2 (S1/MAX)	25/37.5(S1/S6-40%)	7. Spindle air blast system	5. Oil-mist collector
Main motor torque	Nm	100/120 (S1/MAX)	136/260 (S1/S6-40%)	8. Chip flushing device	6. Spindle inner coolant 20/30/50/70 bar
X/Y/Z axis fast feed speed	m/min	36/36/36	36/36/36	9. Chip conveyor + cart	7. Automatic doors
X/Y/Z axis cutting feed speed	mm/min	1~20000	1~20000	10. Working light	8. Rotating window
X/Y/Z axis feed motor power	kw	4.9/3.1 * 2/4.9	4.9/3.1*2/4.9	11. Operation finish light & alarm light	9. Magnetic separation chip conveyor
Diameter of rotary table surface	mm	Ø630	Ø800	12. Automatic power off M30	10. Anti-collision system
Table T-slot size	mm	14H8	14H8	13. Movable manual pulse generator	11. Shopmill
A-axis travel (swing axis)	degree	±120°	±120°	14. RS-232 interface	12. NX post-processor
C-axis travel (rotary axis)	degree	360°	360°	15. Heat exchanger for control cabinet	13. Spindle and ball screw temperature compensation
A/C-axis speed	rpm	60/100	60/100	16. Standard service tool kits	14. 5-axis coordinate conversion vector measurement and correction
A/C axis motor power	kw	11.4 * 2/11.4	15 * 2/15	17. Leveling bolts and pads	15. Top full cover
Rated torque for A/C axis	Nm	1290 * 2/600	2200 * 2/1800	18. Operation / maintenance manuals	16. EUMASPINNER ultra high accuracy production
A/C axis torque	Nm	2400 * 2/1100	3900 * 2/2230	19. B/C axis DD motor	17. Tool magazine 40 positions
Tool magazine capacity	pcs	40	40	20. B/C axis Heidenhain circle encoder	18. Water oil separator
Maximum tool diameter (adjacent/without adjacent)	mm	Ø75/Ø120	Ø75/Ø120	21. B/C axis water cooling device	
Maximum tool length	mm	300	300	22. Tool magazine 32 positions	
Maximum tool weight	kg	8	8	23. Safety door lock	
Tool change time (tool to tool)	sec.	5.0	5.0		
Cutting fluid tank capacity	L	250	300		
Cutting coolant motor power	kw	1.0+1.0	1.0+1.0		
Power supply capacity	kva	65	90		
Air pressure requirements	kg/cm²	6	6		
Air pressure flow rate	L/min	500	500		
Machine size (length x width x height)	mm	5200x3300x3400	5500x3600x3750		
Machine weight	kg	16000	23000		
Positioning accuracy (X/Y/Z axis) VDI3441	mm	0.006	0.008		
Positioning accuracy (A/C axis)	sec.	10"	10"		
Repeat positioning accuracy (X/Y/Z axis) VDI3441	mm	0.003	0.004		
Repeat positioning accuracy (A/C axis)	sec.	4"	4"		
CNC control system	sec.	SIEMENS ONE	SIEMENS ONE		

UB SERIES

5-axis Machining Center (B head)

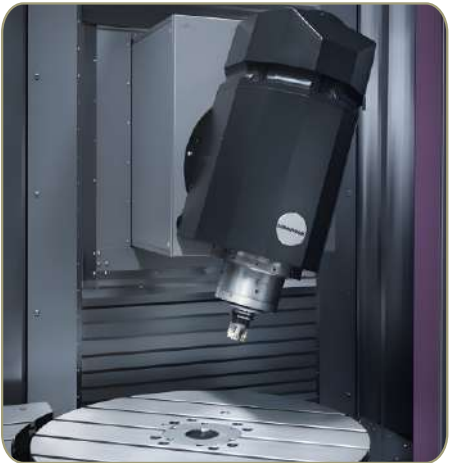
UB1300C
UB1800C



CHARACTERISTICS

The EUMASPINNER UB series is a new milestone with a closed configuration covering the widest range of machining requirements. The high-performance torque motor spindle with speed range of 50-15000 rpm, power 34 kW and max. torque 149 Nm, swing B head and C-axis with torque motors and encoders, linear scales in 3, 4 or 5 axes version as standard. The features that make the machines of the series the ideal machining centers for high quality milling performance and allow the complete production of complex workpieces with excellent surface quality.

The X, Y, and Z three-axis fully movable column-type high rigidity and high strength heavy cutting dense cast iron structure. All axis lines are fully supported, with excellent rigidity, ensuring accuracy. The X, Y, and Z three axes adopt wide-type linear roller slide rails, with high precision, long service life, and high rapid feed speed , high production efficiency. The worktable surface is wide. Due to the fully movable column structure design, the long worktable is fixed and does not move. The Y-axis stroke is large. The long worktable is embedded with the C-axis. The C-axis is equipped with a standard Heidenhain circular grating scale, ensuring high positioning accuracy. The three axes adopt large-diameter, C1-level precision ball screws, and are equipped with an automatic central lubrication system. This can minimize the thermal deformation and backlash of the screw, ensuring accuracy.



Specification	unit	UB1300C	UB1800C	Standard Configuration	Option Configuration
X/Y/Z axis travel (column moving left and right)	mm	1300/560/560	1800/900/800	1. Fully enclosed protective cover	1. Spindle inner cooler 20/30/50/70bar
Distance from spindle nose end to worktable	mm	100-660	100-900	2. Automatic 40 tool magazine	2. Oil mist collector
Distance from spindle center to worktable surface	mm	435-994	435-1235	3. High-speed electric spindle	3. Renishaw tool setting device NC4/TS27R
Distance from spindle center to column guide surface	mm	600	970	4. X/Y/Z axis PMI/HIWIN linear roller guideway	4. Renishaw workpiece measuring device
Long worktable size (fixed table not moving)	mm	1300x500	2000x900	5. X/Y/Z axis PMI/HIWIN C1 ultra-high class ball screw	RPM40/RPM60
Maximum load for long worktable	kg	1500	2000	6. Long worktable with fixed rotary table	5. Rotating window
T-slot dimensions	mm	14x100x5	22x150x5	7. B axis swing milling head	6. NX post-processor
Spindle taper	-	HSK-A63	HSK-A63	8. B/Caxis circular encoder (HEIDENHAIN)	7. Central calibration system (including Renishaw probe OMP60 + standard measuring ball + measurement software)
Spindle speed	rpm	15000 electrical spindle	12000 electrical spindle	9. X/Y/Z axis grating scale (HEIDENHAIN)	8. HEIDENHAIN CNC control system
Main motor power / torque (S1/S6 40%)	kw/Nm	26/31kw, 124/149Nm	25.1/33.9kw, 79.9/107.9Nm	10. C axis DD motor rotary table	
B axis spindle head swing angle	degree	-120°~+120°	-120°~+120°	11. Electric spindle water cooling system device	
B axis spindle head swing minimum division	degree	0.001°	0.001°	12. B/C axis water cooling system device	
B axis speed	rpm	40	50	13. Cutting coolant system	
B axis continuous torque/max torque	Nm	415/750	580/1160	14. Oil-water separator	
B axis braking torque	Nm	750 (without oil pressure) 4000 (40bar oil pressure)	2400 (50bar oil pressure)	15. Automatic centralized lubrication system	
B axis feed motor power	kw	6.4	4.4	16. Spindle blowing device	
B /C axis encoder circle grating	-	HEIDENHAIN	HEIDENHAIN	17. Chip flushing device	
C axis rotary table diameter	mm	Ø500	Ø800	18. High power hydraulic system	
C axis rotation angle/speed	deg./rpm	360/100	360/80	19. Chain type chip conveyor and chip cart	
C axis transmission method	-	DD motor	DD motor	20. Cutting fluid gun and air gun	
C axis rated torque/max torque	Nm	480/910	2000/3600	21. Working lights	
C axis CNC rotary table maximum load	kg	500	1800	22. Three-color light	
Fast feed speed (X/Y/Z axis)	m/min	36/36/32	24/30/30	23. Automatic power cut-off M30	
Cutting feed speed (X/Y/Z axis)	mm/min	1~10000	1~10000	24. Manual pulse generator	
X/Y/Z axis feed motor power/torque	kw	4.4/4.4/4.4kw, 36/36/36Nm	7.4/4.4/4.4kw/48/36/36Nm	25.RS232, 2 USB and Ethernet interfaces	
Tool shank form	sec.	HSK-A63	HSK-A63	26. Electrical cabinet air conditioner	
Tool magazine capacity	pcs	40	40	27. Basic tool box	
Max tool diameter (adjacent /non adjacent tool)	sec.	Ø76/Ø150	Ø76/Ø150		
Max tool length/Max tool weight	-	300mm/8kg	300mm/8kg		
Tool change time (tool to tool)	sec.	5.0	5.0		
Cutting coolant pump motor power	kw	0.75+0.75	0.75+0.75		
Air pressure/Power supply required	-	6kg/cm³, 70KVA	6kg/cm³, 110KVA		
X/Y/Z axis positioning accuracy (German VDI3441)	mm	0.008/0.006/0.006	0.015/0.008/0.008		
X/Y/Z axis repositioning accuracy (German VDI3441)	mm	0.006/0.004/0.004	0.008/0.005/0.005		
B swing head/C insert rotary table position accuracy	"	8/10	8/10		
B swing head/C insert rotary table reposition accuracy	"	4/4	4/4		
Machine size	mm	2900x2500x2964	5650x4300x3500		
Machine weight	kg	9000	20,000		
CNC control	-	SIEMENS ONE	SIEMENS ONE		

APPLICATION



COMPANY CERTIFICATE



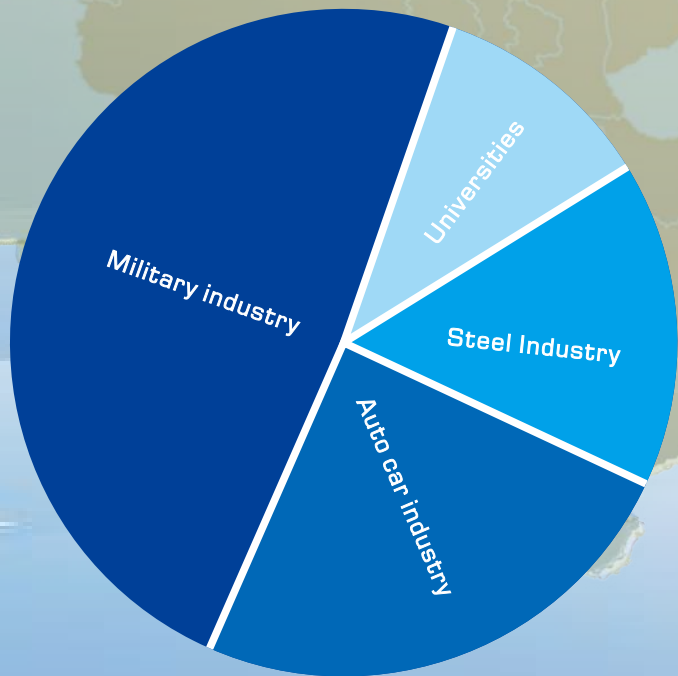
CLIENTS REFERENCE

Shenyang Liming Aviation Engine Group
Jinzhou Weapon 641 Factory
Shenyang Aerospace Xinguang Group Co., Ltd
Baotou Guanghua Chemical Industry Co., Ltd
Inner Mongolia Baotou 1st machine tool factory
Guihang Group Fenglei Ordnance Factory
AVIC Power Technology Zhuzhou Gas Turbine Company
Chongqing Hongyu Precision Industry Co., Ltd
Nanjing Chenguang Group
Nanjing 14th Institute
Xi'an Microelectronics Technology Research
Institute... Total 40 units

Nanjing Forestry University
Zhejiang Ocean University
Department of Mechanical and Electrical
Engineering, Nanyang University of
Technology... Total 55 units

Bengang Plate Co., Ltd
Anshan Ansteel Quality Inspection Center West
Shanghai Baosteel Co., Ltd
Shougang Tangshan Jingtang Steel
.....total 6 units

Baoding Great Wall Motors
Beijing Futian Automobile
Engine of Shiyan Dongfeng Motor Company
Nanjing Iveco Transmission Factory
Dongfeng Automobile Axle Co., Ltd. Parts
FactoryTotal 75 units



END-USER SITES



3 units of EL series turn-mill double-spindle lathes at the user's site are being used for the production. More than 500 sets of this series of machines have been exported globally and well received by consumers.



8 units of DU series 5-axis vertical machining centers, equipped with a robotic arm automated production line, are customized for the production of armored vehicle tracks. They save users 50% of their labor and improve work efficiency by 40%. We have been engaged in the MES management system of automated production lines for many years, with a new production standard mode of Industry 4.0.



6 units of EV series vertical machining center machines, are used for the production from molds to finished products such as BOBBIN, SMD, and network rubber shells at the user's site. The main products of the user's company are new electronic components, precision punching molds, precision cavity molds, mold standard parts, and high-end hardware parts, etc.



8 units of UX series vertical machining centers with 4-axis rotary table in two production lines are used at the user's site for efficient production of butterfly valves, solenoid valves, gate valves, ball valves, electric control valves, electric air valves, electric water valves and so on. The multiple processes used in machining can significantly reduce user's labor hours as well as costs. The products of this series are widely exported to various countries in Europe and America.