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- 2009 Successfully researched and developed horizontal floor type milling and boring machine as well as double column 5 faces machining center.



Over 30 years experience, You Ji obtained customers' support in Design and quality of machine. There are many of machines to meet customers' different need. Table diameter from Ø200 to Ø8000mm. You Ji is the first machine manufacturer passed C.E. and EMC and begin sales in Europe market. You Ji is the biggest vertical lathe manufacturer in Taiwan.

The cooperation between You Ji and other advanced machine manufacturers helps to upgrade the quality of You Ji products and expect to provide customers the best and the soonest service in business.



There is no secret for running a manufacturing business. The most important issue is to be aware of the latest industrial information, to collect and analy ze information efficiently, and to transform them into the appropriate products at the right time for the right people. As well as to create as much value as possible for the customers, and simultaneously, the development of both parties is continued in the win-win situations.

This is You J's business philosophy since its establishment t in 1977. In practice, the utilization of the high precision manufacturing facilities and the adoption of the strict assembly control with rigorous inspection in the factory always ensures the perfect completion of each machine.

Our goal is always to meet customers' applications by collaborating and exchanging information with the international manufacturers, and continuously developing and upgrading the techniques and design in production, in order to offer higher quality products and prompt after-sale services. Therefore, the customers are thoroughly satisfied and benefited from its 26 years great experience and the total commitment.

Based on management philosophy, as a stand-alone machine or as part of a flexible manufacturing system, the versatile design configuration of You Ji's products would be your best choice in any aspect of industrial application:

- Decreased gravitational and centrifugal forces maintain zero elliptical motion during cutting giving optimum roundness.
- Excellent surface contact between work-piece and chuck to ensure higher precision machining on all YV series machines.
- Easy to loading & unloading for irregular-shaped and heavy-duty work-pieces.
- Vertical turning lathe occupies less floor-space in setting up.
- Vertical turning lathe is based on ergonomics designed and simple to link with the automatic production line.





High efficiency: WV-600E2T with double turret (OP1) provides the turning operation simultaneously.

Best operation: Easy loading & unloading and excellent surface contact between work-piece and chuck.

High rigidity: X-axis is designed for 250x250 mm square RAM and incorporating wide span of Z-axis slideways to ensure the heavy duty cutting performance.

Best chip removal: The best chip removal is designed for 90 degree cover.

High quality: This machine is designed especially for high rigidity, high precision, best operation & best chip removal to ensure the best machining quality.





High efficiency: X. Y-axis use roller type linear guide way, W-axis uses high rigid square RAM to incorporate 20HP spindle motor and ensure rapid traverse and best cutting performance.

Best operation: This machine is designed for A axis and easy for loading & unloading of work-piece.

High rigidity: The box section design it fitted to the column and covers all the axes (X, Y, W-axis) in the square measure of column. It also ensures more rigid than traditional type horizontal machining center.

Best chip removal: The best chip removal is designed for 90 degree cover and chip can not be stuck on the telescopic way cover.

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Tool Change Time: 0.3 sec

Rapid Traverse: X/Z 18/30 m/min. sliding unit uses heavy duty cutting linear guide way (THK) and ensures high speed & high precision

■Easy chip removalfor 90° way cover

This machine occupies less floor space (1.7m x 1.45m) and reduces land cost to integrate into automated production lines



Rapid Traverse: XY 12/24 m/min. Sliding unit uses heavy duty cutting linear guide way (THK) and ensures high speed & high precision.



9/3, Soi Inthamara 47, Suthisarn Road, Bangkok, Thailand, 10320. (662)2777004, 2778430, 2768336 Facimiles (662)2762443, 2763386



# **Specifications :**

	Item	Unit	YH-21	YH-21+C
	Max.swing dia.	mm	ø 560	ø 560
	Standard chuck	inch	8"x3 jaws	8"x3 jaws
	Max.tuming length	mm	450	450
Capacity	Max.tuming dia.	mm	ø 415	ø 310
	Between center	mm	550	550
	Barcapacity	mm	ø 52	ø 52
Travel	X-axis travel	mm	210+20	144+122
TTaver	Z-axis travel	mm	510	510
	Spindle speed	rpm	40-4000	40-4000
	Spindle nose	mm	A2-6	A2-6
Spindle	Spindle bearing dia	mm	ø 100	ø 100
C pintaic	Tailstock diameter	mm	ø 75	ø 75
	Tailstock mandrel travel	mm	90 MT4	90 MT4
	Tailstock taper	mm		
	Turret type		10 station	12 station
Turret	O.D tool shank size	mm	<b>□</b> 25x25	<b>□</b> 25x25
	I.D tool shank size Sleeve size	mm	ø 40 MT-2,MT-3	ø 40 MT-2,MT-3
	X-axis rapid traverse	m/mm	20	20
Feed rate	Z-axis rapid traverse	m/mm	24	24
	Cutting feed rate	mm/rev	0.001~500	0.001~500
Control	FANUC		0i-TC	0i-TC
	Spindle motor	kw	9/11(ap 18)	9/11(αp 18)
	X-axis motor	kw	1.6(08)	1.6(08)
	Z-axis motor	kw	3(α12)	3(α12)
Motor	CF axis motor	kw	-	3(α12)
	Motor for drilling&tapping	kw mm		2.2/3.7(o2) ø12/M10(FC)
	Drilling&tapping(FC) Power capacity	KVA	- 18	30
	Coolant tank capacity	L	120	120
		mm	1685	1685
Dimension	Machine height			
Dimension	Floor dimension	mm kg	3520x1680 4200	3520x1680 4400
a aifia ati a n a ubi aat	Machine weight	Ny	7200	++00

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#### **Specifications:**

	Item	Unit	YH-28	YH-28+C	YH-28/105
	Max.swing dia.	mm	ø 680	ø 680	ø 680
	Standard chuck	inch	10"x3 jaws	10"x3 jaws	10"x3 jaws
	Max.tuming length	mm	550	550	1050
Capacity	Max.turning dia.	mm	ø 430	ø 310	ø 430
	Between center	mm	670	670	1170
	Barcapacity	mm	ø 75	ø 75	ø 75
Travel	X-axis travel	mm	220+40	144+122	220+40
ITavei	Z-axis travel	mm	610	610	1100
	Spindle speed	rpm	40-3000	40-3000	40-3000
	Spindle nose	mm	A2-8	A2-8	A2-8
Spindle	Spindle bearing dia	mm	ø 130	ø 130	ø 130
- p	Tailstock diameter	mm	ø 85	ø 85	ø 85
	Tailstock mandrel travel	mm	100	100	100
	Tailstock taper	mm	MT5	MT5	MT5
	Turret type		10 station	12 station	10 station
Turret	O.D tool shank size	mm	<b>口</b> 25x25	<b>□</b> 25x25	<b>D</b> 25x25
	I.D tool shank size Sleeve size	mm	ø 40 MT-2,MT-3	ø 40 MT-2,MT-3	ø 40 MT-2,MT-3
	X-axis rapid traverse	m/mm	20	20	20
Feed rate	Z-axis rapid traverse	m/mm	20	20	20
	Cutting feed rate	mm/rev	0.001~500	0.001~500	0.001~500
Control	FANUC		0i-TC	0i-TC	0i-TC
	Spindle motor	kw	18.5/22(αp40)	18.5/22(αp40)	18.5/22(αp40)
	X-axis motor	kw	3(α12)	3(a12)	3(α12)
	Z-axis motor	kw	4(α22)	4(α22)	4(α22)
Motor	CF axis motor	kw	-	3(a12)	-
	Motor for drilling&tapping	kw	-	2.2/3.7(02)	-
	Drilling&tapping(FC) Power capacity	mm KVA	- 35	ø12/M10(FC) 43	- 35
	Coolant tank capacity	L	160	160	200
	Machine height	mm	1870	1870	2010
Dimension	Floor dimension	mm	3680x1750	3680x1750	4180x1940
	Machine weight	kg	5300	5500	6800

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# CNC horizontal lathe

YH-36 SERIES



#### Specifications:

	Item	Unit	YH-36/75	YH-36+C/75	YH-36/135
	Max.swing dia.	mm	ø 720	ø 720	ø 720
	Standard chuck	inch	15"x3 jaws	15"x3 jaws	15"x3 jaws
	Max.tuming length	mm	750	750	1350
Capacity	Max.tuming dia.	mm	ø 600	ø 440	ø 600
	Between center	mm	870	870	1470
	Bar capacity	mm	ø 90	ø 90	ø 90
Travel	X-axis travel	mm	310+40	220+90	310+40
Traver	Z-axis travel	mm	800	800	1375
	Spindle speed	rpm	25-2000	25-2000	25-2000
	Spindle nose	mm	A2-11	A2-11	A2-11
Chindle	Spindle bearing dia	mm	ø 160	ø 160	ø 160
Spindle	Tailstock diameter	mm	ø 112	ø 112	ø 112
	Tailstock mandrel travel	mm	100	100	100
	Tailstock taper	mm	MT4 rotary	MT4 rotary	MT4 rotary
	Turret type		10 station	10 station	10 station
Turret	O.D tool shank size	mm	<b>□</b> 32x32	<b>□</b> 32×32	<b>□</b> 32x32
lance	I.D tool shank size	mm	ø 50	ø 50	ø 50
	Sleeve size		MT-3,MT-4	MT-3,MT-4	MT-3,MT-4
	X-axis rapid traverse	m/mm	12	12	12
Feed rate	Z-axis rapid traverse	m/mm	16	16	16
	Cutting feed rate	mm/rev	0.001~500	0.001~500	0.001~500
Control	FANUC		0i-TC	0i-TC	0i-TC
	Spindle motor	kw	30/37(α30)	30/37(α30)	30/37(α30)
	X-axis motor	kw	4(α22)	4(α22)	4(α22)
	Z-axis motor	kw	7(α30)	7(α30)	7(α30)
Motor	CF axis motor	kw	-	4(α22)	-
	Motor for drilling&tapping	kw	-	3.7/5.5(a3)	-
	Drilling&tapping(FC)	mm	-	ø16/M14(FC)	-
	Power capacity	KVA	52	60	52
	Coolant tank capacity	L	250	250	250
	Machine height	mm	2310	2310	2340
Dimension	Floor dimension	mm	5020x2270	5020x2270	5500x2340
	Machine weight	kg	9500	9800	11000

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	Item	Unit	YH-50/150	YH-50+C/150	YH-50/200
	Max s wing dia. Standard chuck Max.tuming length	mm inch mm	ø 800 18"x3 jaws 1500	ø 800 18"x3 jaws 1500	ø 800 18"x3 jaws 2000
Capacity	Max.tuming dia.	mm	ø 680	ø 520	ø 680
	Between center	mm	1620	1620	2120
	Barcapacity	mm	ø 115	ø 115	ø 115
Travel	X-axis travel	mm	350+40	260+80	350+40
IIdvei	Z-axis travel	mm	1600	1600	2100
	Spindle speed	rpm	25-1500	25-1500	25-1500
	Spindle nose	mm	A2-11	A2-11	A2-11
Spindle	Spindle bearing dia Tailstock diameter	mm mm	ø 180 ø 145	ø 180 ø 145	ø 180 ø 145
	Tailstock mandrel travel	mm	100	100	100
	Tailstock taper	mm	MT5 rotary	MT5 rotary	MT5 rotary
	Turret type		10 station	10 station	10 station
Turret	O.D tool shank size	mm	<b>□</b> 32x32	<b>□</b> 32x32	<b>□</b> 32x32
	I.D tool shank size Sleeve size	mm	ø 60 MT-4,MT-5	ø 60 MT-4,MT-5	ø 60 MT-4,MT-5
	X-axis rapid traverse	m/mm	12	12	12
Feed rate	Z-axis rapid traverse Cutting feed rate	m/mm mm/rev	16 0.001~500	16 0.001~500	16 0.001~500
Control	FANUC		0i-TC	0i-TC	0i-TC
	Spindle motor X-axis motor	kw kw	37/45(α 40) 4(α22)	37/45(α 40) 4(α22)	37/45(α 40) 4(α22)
Motor	Z-axis motor CF axis motor Motor for drilling&tapping	kw kw kw	7(α30) - -	7(α30) 4(α22) 3.7/5.5(α3)	7(α30) - -
	Drilling&tapping(FC) Power capacity	mm KVA	- 65	ø16/M14(FC) 75	- 65
	Coolant tank capacity	L	260	260	300
Dimension	Machine height Floor dimension	mm mm	2320 5580x2505 14000	2320 5580x2505 14500	2310 5980x2270 16000
	_	mm kg			

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This machine is designed for the movable column and fixed type Table which can not transform the load of transmission system and ensure the reliable accuracy at rapid traverse characteristic.

The sliding unit is fitted to high rigid roller linear guide way and ensures high rigidity and rapid traverse.

The supply of the machines meets the customer demand and it is easy for the production line.

It is suiTable for wet & dry machining and occupies less floor space & more flexibility in order to adjust the production line for a variety of customer demand.

It is modules design and simple to integrate into the production lines and avariety of working processes.





	ITEMS		НМС- 500	HMC- 630	НМС- 800	HMC- 1000
	X-axis	mm	800	1050	1300	1300
Axis	Y-axis	mm	700	850	1000	1000
Trav el	Z-axis	mm	800	1000	1200	1200
	W-axis	mm	N/A	N/A	600	600
Spindle	Spindle speed	r.p.m	8000	8000	3500	3500
	No. of tool	pcs	24	32	40	40
	Max. diameter of tool	mm	ø 120	ø 125	ø 125	ø 125
ATC	Max.tool length	mm	260	450	450	450
system	Max.tool weight	kg	6	15	15	15
	ATC type		Armtype	Armtype	Armtype	Armtype
	Ty pe of tool holder		BT-40	BT-50	BT-50	BT-50
Motor	Spindle Motor	kw	15/18.5	15/18.5	22/26	22/26
Wotor	Servo motor	kw	3.8	4.5	4.5	4.5
	Table size	mm	500x500	630x630	800x800	1000x1000
Table	Max.loading weight	kg	500	2,000	3,000	5,000
	Size of T-slots	mm	N/A	N/A	22x5 slot	22x7 slot
	X-axis rapid traverse	m/min	30	20	20	20
Rapid Traverse	Y-axis rapid traverse	m/min	30	20	20	20
	Z-axis rapid traverse	m/min	N/A	N/A	16	16
	W-axis rapid traverse	m/min	16	16	16	16
	Controller (FANUC)		0i-M	0i-M	18i-M	18i-M
	Machine Weight	kg	13,000	18,000	25,000	30,000
Others	Floordimension	mm	2280x4125	4130x5200	4460x5250	4720x5500
	Power capacity	KVA	50	60	80	80
	Coolant tank	L	400	500	600	600

	ITEMS	UNIT	HMC- 1200	HMC- 1600	HMC- 2000	HMC- 2500
	X-axis	mm	1500	2200	3000	3400
Axis	Y-axis	mm	1500	1600	1800	1800
Trav el	Z-axis	mm	1500	1500	1500	2000
	W-axis	mm	700	700	700	700
Spindle	Spindle speed	r.p.m	3500	3500	3500	3500
	No. of tool	pcs	40	40	40	40
	Max. diameter of tool	mm	ø 125	ø 125	ø 125	ø 125
ATC	Max.tool length	mm	450	450	450	450
system	Max.tool weight	kg	15	15	15	15
	ATC type		Arm type	Armtype	Arm type	Arm type
	Ty pe of tool holder		BT-50	BT-50	BT-50	BT-50
Motor	Spindle Motor	kw	22/26	22/26	22/26	22/26
Motor	Servo motor	kw	4.5	4.5	4.5	4.5
	Table size	mm	1400x1200	1400x1600	1800x2200	2200x2600
Table	Max.loading weight	kg	6,000	8,000	10,000	15,000
	Size of T-slots	mm	22x7 slot	22x9 slot	22x11 slot	22x11 slot
	X-axis rapid traverse	m/min	20	20	20	20
Rapid Traverse	Y-axis rapid traverse	m/min	20	20	20	20
hapa haveise	Z-axis rapid traverse	m/min	16	16	16	16
	W-axis rapid traverse	m/min	16	16	16	16
	Controller (FANUC)		18i-M	18i-M	18i-M	18i-M
	Machine Weight	kg	40,000	48,000	50,000	60,000
Others	Floordimension	mm	4640x5870	5350x6555	6380x6955	7080x7655
	Power capacity	KVA	80	80	80	80
	Coolant tank	L	600	800	800	800





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- 2000 CNC reverse turning lathe YR-320 series was development successfully.
- 2001 You Ji has been the first company successfully to develop and build the multi- function vertical turning lathe.
- 2002 Subsidiary was established at Kun Shan, China.
- 2003 VMC1100-2S Vertical machine center with 2 spindle to be presented to the public.
- 2004 Successfully researched and developed CNC horizontal machining center-HMC series, and qualified of ISO9001 in the same year.
- 2005 Extended the plant to 17,500 square meter.
- 2006 Vertical lathe with Auto pallet changer, special design for bearing manufacture- VTS series, double RAM vertical turning lathe to be presented to the public. Turnover was increased to NT\$2 billions.
- <sup>2007</sup> Successfully researched and developed CNC heavy duty flat bed turning lathe -YB series and VTL3000ATC. VTL4000ATC to be presented to the public . You Ji is in the leading position of big vertical lathe manufacture. The plant in Kun Shan, China was established.
- 2008 Successfully researched and developed huge turning lathe equips with hydrostatic bearing- VTH series and CNC gantry type machining center. Turnover was increased to NT\$4.5 billions.
- 2009 Successfully researched and developed horizontal floor type milling and boring machine as well as double column 5 faces machining center.



Over 30 years experience, You Ji obtained customers' support in Design and quality of machine. There are many of machines to meet customers' different need. Table diameter from Ø200 to Ø8000mm. You Ji is the first machine manufacturer passed C.E. and EMC and begin sales in Europe market. You Ji is the biggest vertical lathe manufacturer in Taiwan.

The cooperation between You Ji and other advanced machine manufacturers helps to upgrade the quality of You Ji products and expect to provide customers the best and the soonest service in business.



There is no secret for running a manufacturing business. The most important issue is to be aware of the latest industrial information, to collect and analy ze information efficiently, and to transform them into the appropriate products at the right time for the right people. As well as to create as much value as possible for the customers, and simultaneously, the development of both parties is continued in the win-win situations.

This is You Ji's business philosophy since its establishment t in 1977. In practice, the utilization of the high precision manufacturing facilities and the adoption of the strict assembly control with rigorous inspection in the factory always ensures the perfect completion of each machine.

Our goal is always to meet customers' applications by collaborating and exchanging information with the international manufacturers, and continuously developing and upgrading the techniques and design in production, in order to offer higher quality products and prompt after-sale services. Therefore, the customers are thoroughly satisfied and benefited from its 26 years great experience and the total commitment.

Based on management philosophy, as a stand-alone machine or as part of a flexible manufacturing system, the versatile design configuration of You Ji's products would be your best choice in any aspect of industrial application:

- Decreased gravitational and centrifugal forces maintain zero elliptical motion during cutting giving optimum roundness.
- Excellent surface contact between work-piece and chuck to ensure higher precision machining on all YV series machines.
- Easy to loading & unloading for irregular-shaped and heavy-duty work-pieces.
- Vertical turning lathe occupies less floor-space in setting up.
- Vertical turning lathe is based on ergonomics designed and simple to link with the automatic production line.



# CNC vertical lathe

YV	200	SERIES	



# Specifications:

ITEMS	Unit	YV-200B	YV-200E	YV-200E+C
	Unit	TV-200B	TV-200E	fV-200E+C
Machine capacity	100100	ø 400	ø 400	ø 400
Max. swing diameter	mm			
Max. cutting diameter	mm	ø 250	ø 250	ø 250
Max. cutting height	mm	200	200	300
Spindle				
Spindle speed	rpm	50~3500	50~3500	50~3500
Spindle bearing diameter	mm	80	80	80
Drilling & tapping	mm	N/A	N/A	ø 12/M10(FC)
Spindle nose	mm	A2-6	A2-6	A2-6
Turret				
Turret type		Gang Tool	8 station	V.D.I 40
Number of tools	pcs	5	8	8
Tool shank size	mm	<b>□</b> 25,ø 32	<b>□</b> 25,ø 32	<b>□</b> 25,ø 32
X-axis and Z-axis				
X-axistravel	mm	-135;+140	-50;+140	-50;+140
Z-axis travel	mm	400	400	400
X-axis rapid travel	m/min	12	12	12
Z-axis rapid travel	m/min	24	24	24
Motor				
Spindle motor	kw	α P18 9/11	α P18 9/11	α P18 9/11
X-axis servo motor	kw	1.6	1.6	1.6
Z-axis servo motor	kw	3	3	3
Hydraulic motor	kw	2.2	2.2	2.2
Coolant motor	kw	0.5	0.5	0.5+1
Motorfor drilling & tapping	kw	N/A	N/A	2.2/3.7
Measurement				
LxW	mm	2475x1280	2475x1280	2475x1280
Machine height	mm	2460	2460	2460
Net weight	kg	3000	3000	3000
Total power consumption	KVA	25	25	30



ITEMS	Units	YV250A	YV250B	YV250E	YV250E+C
Machine capacity					
Max. swing diameter	mm	ø 500	ø 500	ø 500	ø 500
Max. cutting diameter	mm	ø 350	ø 350	ø 350	ø 350
Max. cutting height	mm	250	250	250	250
Spindle					
Spindle speed	rpm	50~2500	50~2500	50~2500	50~2500
Spindle bearing diameter	mm	100	100	100	100
Drilling & tapping		N/A	N/A	N/A	ø 12/M10(FC)
Spindle nose		A2-8	A2-8	A2-8	A2-8
Turret					
Turret type		6 station	Gang tool	8 station	V.D.I 40
Number of tools	pcs	6	5	8	8
Tool shank size	mm	<b>□</b> 32,ø40	<b>□</b> 32,ø40	<b>□</b> 25,ø32	<b>□</b> 25,ø32
X-axis and Z-axis					
X-axistravel	mm	-50;+300	150;+160	-50;+200	-50;+200
Z-axis travel	mm	450	450	450	450
X-axis rapid travel	m/min	12	12	12	12
Z-axis rapid travel	m/min	24	24	24	24
Motor					
Spindle motor	kw	αP22 11/15	αP22 11/15	αP22 11/15	αP22 11/15
X-axis servo motor	kw	1.6	1.6	1.6	1.6
Z-axis servo motor	kw	3	3	3	3
Hydraulic motor	kw	2.2	2.2	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1	0.5+1	0.5+1
Motorfor drilling & tapping	kw	N/A	N/A	N/A	2.2/3.7
Measurement					
LxW	mm	2920x1480	2920x1480	2920x1480	2920x1480
Machine height	mm	2460	2460	2460	2610
Net weight	kg	4500	4500	4500	4500
Total power consumption	KVA	30	30	30	35



ITEMS	Units	YV- 320A	YV- 320B	YV- 320C	YV- 320E	YV- 320E+C
Machine capacity						
Max. swing diameter	mm	ø 600				
Max. cutting diameter	mm	ø 450				
Max. cutting height	mm	300	300	300	300	300
Spindle						
Spindle speed	rpm	50~2000	50~2000	50~2000	50~2000	50~2000
Spindle bearing diameter	mm	100	120	120	120	120
Drilling & tapping		N/A	N/A	ø 20/M16(FC)	N/A	ø 20/M16(FC)
Spindlenose		A2-8	A2-8	A2-8	A2-8	A2-8
Turret						
Turret type		6 station	Gang tool	8 station	8 station	V.D.I 40
Number of tools	pcs	6	5	10	8	8
Tool shank size	mm	<b>□</b> 32,ø 40	<b>⊡</b> 32,ø 40	<b>□</b> 32,ø 40	<b>□</b> 32,ø 40	<b>⊡</b> 32,ø 40
X-axis and Z-axis						
X-axis travel	mm	-50;+350	-200;+200	-50;+350	-50;+250	-50;+250
Z-axis travel	mm	500	500	500	500	500
X-axis rapid travel	m/min	12	12	12	12	12
Z-axis rapid travel	m/min	24	24	24	24	24
Motor						
Spindle motor	kw	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22
X-axis servo motor	kw	1.6	1.6	1.6	1.6	1.6
Z-axis servo motor	kw	3	3	3	3	3
Hydraulic motor	kw	2.2	2.2	2.2	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1	0.5+1	0.5+1	0.5+1
Motorfor drilling & tapping	kw	N/A	N/A	2.2/3.7	N/A	2.2/3.7
Measurement						
LxW	mm	2555x1600	2555x1600	2800x1600	2555x1770	2555x1770
Machine height	mm	2845	2845	2845	2845	2845
Net weight	kg	5500	5500	5500	5500	6000
Total power consumption	KVA	35	35	40	35	40



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ITEMS	Unit	YV- 500A	YV- 500C	YV- 500E	YV- 500E+C	YV- 500ATC	YV- 500ATC+C
Machine capacity							
Max. swing diameter	mm	ø 750	ø 750	ø 750	ø 750	ø 750	ø 750
Max. cutting diameter	mm	ø 550	ø 550	ø 550	ø 550	ø 550	ø 550
Max. cutting height	mm	400	500	500	500	400	400
Spindle							
Spindle speed	rpm	50~2000	50~2000	50~2000	50~2000	50~2000	50~2000
Spindle bearing diameter	mm	160	160	160	160	160	160
Drilling & tapping		N/A	ø 20⁄ M16(FC)	N/A	ø 20⁄ M16(FC)	N/A	ø 25⁄ M20(FC)
Spindle nose		A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
Turret							
Turret type		6 station	10 station	10 station	V.D.I 50	ATC	ATC
Number of tools	pcs	6	10	10	10	12	12
Tool shank size	mm	<b>⊒</b> 32,ø 40	<b>⊡</b> 32,ø 40	<b>⊒</b> 32,ø 40	<b>⊒</b> 32,ø 40	BT50	BT50
X-axis and Z-axis							
X-axis travel	mm	-50;+430	-50;+430	-50;+430	-50;+430	-100;+350	-100;+350
Z-axis travel	mm	600	600	600	600	650	650
X-axis rapid travel	m/min	12	12	12	12	12	12
Z-axis rapid travel	m/min	20	20	20	20	20	20
Motor							
Spindle motor	kw	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22
X-axis servo motor	kw	3	3	3	3	3	3
Z-axis servo motor	kw	4	4	4	4	4	4
Hydraulic motor	kw	2.2	2.2	2.2	2.2	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1	0.5+1	0.5+1	0.5+1	0.5+1
Motorfor drilling & tapping	kw	N/A	3.7/5.5	N/A	3.7/5.5	NA	3.7/5.5
Measurement							
LxW	mm	2950x1800	2950x1800	2950x1800	2950x1800	3380x2330	3380x2330
Machine height	mm	3385	3385	3330	3330	3385	3385
Net weight	kg	12000	12000	12000	12500	12500	13000
Total power consumption	KVA	45	50	45	55	50	55
<ul> <li>Specification subject to change to change witho</li> </ul>	ut prior notice.						



# CNC vertical lathe

YV-600 SERIES



#### **Specifications:**

ITEMS	Unit	YV600A	YV600E	YV	YV	YV
Maahina asaatii				600E+C	600A TC	600ATC+C
Machine capacity		050	050	050	050	
Max. swing diameter	mm	ø 850	ø 850	ø 850	ø 850	ø 850
Max. cutting diameter	mm	ø 750	ø 750	ø 750	ø 750	ø 750
Max. cutting height	mm	600	600	600	600	600
Spindle						
Spindle speed	rpm	20~1500	20~1500	20~1500	20~1500	20~1500
Spindle bearing diameter	mm	220	220	220	220	220
Drilling & tapping		N/A	N/A	ø 25/M20(FC)	N/A	ø 25/M20(FC)
Spindle nose		A2-11	A2-11	A2-11	A2-11	A2-11
Turret						
Turret type		6 station	10 station	V.D.I 50	ATC	ATC
Number of tools	pcs	6	10	10	12	12
Tool shank size	mm	<b>□</b> 32,ø 40	<b>□</b> 32,ø 40	<b>□</b> 32,ø 40	BT50	BT50
X-axis and Z-axis						
X-axis travel	mm	-50;+570	-50;+485	-50;+485	-70;+415	-70;+415
Z-axis travel	mm	800	800	800	800	800
X-axis rapid travel	m/min	12	12	12	12	12
Z-axis rapid travel	m/min	20	20	20	20	20
Motor						
Spindle motor	kw	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22
X-axis servo motor	kw	4	4	4	4	4
Z-axis servo motor	kw	4	4	4	4	4
Hydraulic motor	kw	2.2	2.2	2.2	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1	0.5+1	0.5+1	0.5+1
Motorfor drilling & tapping	kw	N/A	N/A	5.5/7.5	N/A	5.5/7.5
Measurement						
LxW	mm	3400X2450	3400X2450	3500X2450	3500X2450	3500X2450
Machine height	mm	3990	3990	3990	3990	3990
Net weight	kg	13500	13500	13500	14000	14500
Total power consumption	KVA	50	50	60	50	60

Specification subject to change to change without prior notice.



# CNC vertical lathe

YV-800 SERIES



ITEMS	Unit	YV800A	YV800E	YV800E+C	YV800ATC	YV800ATC+C		
Machine capacity								
Max. swing diameter	mm	ø 1000	ø 1000	ø 1000	ø 1000	ø 1000		
Max. cutting diameter	mm	ø 900	ø 900	ø 900	ø 900	ø 900		
Max. cutting height	mm	700	700	700	700	700		
Spindle								
Spindle speed	rpm	10~600	10~600	10~600	10~600	10~600		
Spindle bearing diameter	mm	330	330	330	330	330		
Drilling & tapping	mm	N/A	N/A	ø 25/M20(FC)	N/A	ø 25/M20(FC)		
Spindle nose		A2-11	A2-11	A2-11	A2-11	A2-11		
Turret								
Turret type		6 station	10 station	V.D.I 50	ATC	ATC		
Number of tools	pcs	6	10	10	12	12		
Tool shank size	mm	<b>⊡</b> 32,ø 50	<b>⊡</b> 32,ø 50	<b>□</b> 32,ø 50	BT50	BT50		
X-axis and Z-axis								
X-axis travel	mm	-50;+750	-50;+600	-50;+600	-50;+600	-50;+600		
Z-axis travel	mm	850	850	850	850	850		
X-axis rapid travel	m/min	12	12	12	12	12		
Z-axis rapid travel	m/min	20	20	20	20	20		
Motor								
Spindle motor	kw	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22	αP40 18.5/22		
X-axis servo motor	kw	4	4	4	4	4		
Z-axis servo motor	kw	4	4	4	4	4		
Hydraulic motor	kw	2.2	2.2	2.2	2.2	2.2		
Coolant motor	kw	0.5+1	0.5+1	0.5+1	0.5+1	0.5+1		
Motorfor drilling & tapping	kw	N/A	N/A	7.5/11	N/A	7.5/11		
Measurement								
LxW	mm	3450x2550	3450x2550	3450x2550	3450x2550	3450x2550		
Machine height	mm	3670	3670	3670	3670	3670		
Net weight	kg	14000	14000	14500	14500	15000		
Total power consumption	KVA	50	50	60	50	60		
					info@m	acod.com		





opeemeations.				
ITEMS	UNIT	YV1000A	YV1000ATC	YV1000ATC+C
CAPACITY				
Table diameter	mm	ø 1000	ø 1000	ø 1000
Max. swing	mm	ø 1350	ø 1350	ø 1350
Max. cutting diameter	mm	ø 1100	ø 1100	ø 1100
Max. cutting height	mm	700	700	700
Max. load Table	kg	4000	4000	4000
-Travel	ng			
				1
Horizontal travel of rail head (X-axis)	) mm	1120	1120	1120
Vertical travel of ram (Z-axis)	mm	800	800	800
Spindle				
Table around (Low)	rpm	2~160	2~160	2~160
Table speed (Low) (High)	rpm	160~600	160~600	160~600
(1 0 W)	rpm			1~1200
Led spindle speed (High)	rpm			1200~2400
Max. Table torque	N.m(kgf -m)	8,800(898)	8,800(898)	8,800(898)
Feeder rate	N.m(Ngi m)	0,000(000)	0,000(000)	0,000(000)
Rapid traverse of rail head (X-axis)	M/min	12	12	12
Rapid traverse of ram (Z-axis)	M/min	10	10	10
Cutting feed rate	mm/min	1~2000	1~2000	01~2000
Manualfeeder rate	m/min	0~10	0~10	0~10
Tooling		0.10	0.10	0.0
Turret (ATC) type			12 tools	16 tools
Type of tool shank			7/24 taper BT-50	7/24 taper BT-50
Max. of tool size for automatic tool				· · · · · · · · · · · · · · · · · · ·
changing	mm		280Wx150Tx	400L
Max. tool weight	kg	50	50	50
Max. loading of ATC	kg	50	360	360
Tool change time(ATC)	Sec	5	40	40
Turret	Sec	5	40	40
		5 station		
Turret (ATC) type		5 Station		
Square tool holder (Applicate tool	mm	<b>□</b> 32x32(ø 63)		
size)				
Motors Spindle drive motor	lau	00/07 (~00)	00/07 (~00)	00/07 (~00)
	kw	30/37 (α30)	30/37 (α30)	30/37 (α30)
#2 Spindle drive motor	kw			7.5/11(α8)
X-axis servo motor	kw		7 (α30i)	
Z-axis servo motor	kw		9 (α40iß)	
CF-axis servo motor	kw			7 (α30i)
Coolant motor	kw	0.18	0.18	0.18
Tank capacity				
Hydraulic tank	L	65	65	130
Coolant tank	L		750 (square)	
Lube. Tank(slide ways)	Ĺ		4.6	
Power sources	_		AC220±10%. 60Hz±5Hz	
Power capacity	KVA	80	80	100
Floor dimension		3800x4400	3800x4400	3800x4400
	mm			
Machine weight	kg	20,000	20,000	21,000
Positioning accuracy of linear axis	mm	P:±0.007/500,	Ps:±0.005(X&Z), P::±7.5"/360° Ps:±	5"(C-axis)





Specifications.					
Item		Unit	YV-1200A	YV-1200ATC	YV-1200ATC+C
Capacity					
Table diameter		mm	ø 1250	ø 1250	ø 1250
Max. swing		mm	ø 1600	ø 1600	ø 1600
Max. cutting diameter		mm	ø 1350	ø 1350	ø 1350
Max. cutting height		mm	1200	1200	1200
Max. bad Table		kg	5000	5000	5000
Travel		ĸġ	5000	3000	5000
			1000	005	005
Horizontal travel of rail head (X-axis)		mm	1330	935	935
Vertical travel of ram (Z-axis)		mm	900	900	900
Vertical travel of crossrail		mm	700	700	700
<sup>–</sup> Spindle					
Table speed	(Low)	rpm	2~108	2~108	2~108
Table speed	(High)	rpm	108~350	108~350	108~350
I and a whendly a second	(Low)	rpm			2~1200
Led spindle speed	(High)	rpm			1200~2400
	(	N.m			
Max. Table torque		(kgf-m)	8,200(836)	8,200(836)	8,200(836)
Feeder rate		(			
Rapid traverse of rail head (X-axis)		M/min	12	12	12
Rapid traverse of ram (Z-axis)		M/min	10	10	12
				1~2000	1~2000
Cutting feed rate		mm/min	1~2000		
Manual feeder rate		m/min	0~10	0~10	0~10
-Automatic Tool Changer (ATC)					
Turret (ATC) type				12 支 刀位	16支刀位
Type of tool shank				7/24 taper BT-50	7/24 taper BT-50
Max. of tool size for automatic tool char	mina	mm			50Tx400L
Max. tool weight	ging	kg	50	50	50 124002 50
Max. loading of ATC		kg		360	360
Tool change time(ATC)		Sec	5	40	40
Turret					
Turret type			5 station		
Size for square tool holder		mm	□32x32(ø 63)		
Motor					
Spindle drive motor		kw	37/45 (α40)	37/45 (α40)	37/45 (α40)
#2 Spindle drive motor		kw			7.5/11(α8)
X-axis servo motor		kw		7 (α30i)	× ,
Z-axis servo motor		kw		9 (a40iß)	
CF-axis servo motor		kw			7 (a30i)
Coolant motor		kw	0.18	0.18	0.18
Tank Capacity		0.10	0.10	0.10	
			130		
Hydraulic tank		L		400	
Codant tank					
Lube. Tank(slide ways)		L		4.6	
Power Sources			AC400±10%. 60Hz±5Hz		
Power capacity		KVA	80	80	100
Floordimension		mm	4000x4600	4000x4600	4000x4600
Machine weight		kg	22,000	22,000	23,000
Positioning accuracy of linear axis				P±0.007/500 Ps±0.005(X&2	
r usiduling acculacy of linear axis		mm		P:±7.5"/360° Ps:±5"(C-axis)	
				. ,	





Specifications.	Specifications.							
Item		Unit	YV-1600A	YV-1600ATC	YV-1600ATC+C			
Capacity								
Table diameter		mm	ø 1600	ø 1600	ø 1600			
Max. swing		mm	ø 2000	ø 2000	ø 2000			
Max. cutting diameter		mm	ø 1800	ø 1800	ø 1800			
Max. cutting height		mm	1200	1200	1200			
Max. load Table		kg	8000	8000	8000			
Travel		Ng	8888	8000	0000			
Horizontal travel of rail head (X-axis)		mm	1615	1225	1225			
Vertical travel of ram (Z-axis)		mm	900	900	900			
Vertical travel of crossrail			700	700	700			
		mm	700	700	700			
Spindle		1110-100	8,69	0.00	0.00			
Table speed	(Low)	rpm	2~62	2~62	2~62			
· · · · · · · · · · · · · · · · · · ·	(High)	rpm	64~250	64~250	64~250			
Led spindle speed	(Low)	rpm			2~1200			
	(High)	rpm			1200~2400			
Max. Table torque		"N.m	19,600(2000)	19,600(2000)	19,600(2000)			
•		(kgf-m)	10,000(2000)	10,000(2000)	10,000(2000)			
Feederrate								
Rapid traverse of rail head (X-axis)		M/min	12	12	12			
Rapid traverse of ram (Z-axis)		M/min	10	10	10			
Cutting feed rate		mm/min	1~2000	1~2000	1~2000			
Manual feeder rate	m/min	0~10	0~10	0~10				
Automatic Tool Changer (ATC)								
Turret (ATC) type				12支刀位	16支刀位			
Type of tool shank				7/24taper BT-50	7/24 taper BT-50			
					-			
Max. of tool size for automatic tool char	nging	mm		280Wx15				
Max. tool weight		kg	50	50	50			
Max. loading of ATC		kg		360	360			
Tool change time(ATC)		Sec	5	40	40			
Turret								
Turret type			5 station					
Size for square tool holder		mm	⊐32x32(ø 63)					
Motor								
Spindle drive motor		kw	37/45 (α40)	37/45 (α40)	37/45 (α40)			
#2 Spindle drive motor		kw			7.5/11(α8)			
X-axis servo motor		kw		7 (a30i)				
Z-axis servo motor		kw		9 (a40iß)				
CF-axis servo motor		kw			7 (a30i)			
Coolant motor		kw	0.18	0.18	0.18			
<sup>–</sup> Tank Capacity								
Hydraulic tank		L		130				
Coolant tank		L		400				
Lube. Tank(slide ways)		L		4.6				
Power Sources		_	AC400±10%. 60Hz±5Hz					
Power capacity		KVA	80	80	100			
Floor dimension		mm	5550x5200	5550x5200	5550x5200			
Machine weight		kg	24,000	24,000	25,000			
		Ng	27,000	P±0.007/500 Ps±0.005(X&Z				
Positioning accuracy of linear axis		mm		P:±7.5"/360° Ps:±5"(C-axis)	/			





Two operations simultaneous machining to improve quality and reduce labor costs.



Machine capacity         mm         ø 500         ø 500           Max. swing dameter         mm         ø 350         ø 350           Max. outing height         mm         ø 350         ø 350           Spindle speed         rpm         50-2500         50-2500           Spindle speed         rpm         ø 100         ø 100           Spindle bearing diameter         mm         ø 28         A 2-8           Turret         Turret         travet         Bi/st           Number of tools         pcs         6         8           Tool shank size         mm         rd 22,0 40         rd 22,0 40           X-axis travel         mm         rd 50;4300         -50;4200           X-axis travel         mm         450         450           X-axis travel         mm         450         450           X-axis travel         m/min         12         12           Z-axis travel         m/min         24         24	ITEMS	Unit	YV-250AR/AL	YV-250ER/EL
Max. swing dameter         mm         φ 500         φ 500           Max. cutting diameter         mm         φ 350         φ 350           Max. cutting diameter         mm         φ 350         g 350           Spindle         250         250           Spindle speed         rpm         50-2500         50-2500           Spindle bearing diameter         mm         φ 100         φ 100           Spindle nose         mm         A2-8         A2-8           Turret         Turret type         tot, tot, tot, tot, tot, tot, tot, tot,		Unit		
Max. cuting diameter         mm         ø 350         ø 350           Max. cuting height         mm         250         250           Spindle         mm         250         250           Spindle speed         rpm         50~2500         0         0           Spindle bearing diameter         mm         0         100         0         0         0           Spindle bearing diameter         mm         0         100         0	Machine capacity	mm	a 500	a 500
Max. cutting height         mm         250         250           Spindle         rpm         50~2500         50~2500         50~2500         50         250         50				
Spindle         rpm         50~2500         50~2500           Spindle bearing diameter         mm         0 100         0 100           Spindle nose         mm         A2-8         A2-8           Turret         time         time         time           Turret type         time         time         time           Number of tools         pcs         6         8           Tool shank size         mm         ctast         time           X-axis and Z-axis         Xaxis rayid travel         mm         450           X-axis rayid travel         mm         450         450           X-axis rayid travel         m/min         12         12           Z-axis rayid travel         m/min         24         24           Motor         1.0         1.0         2-axis servo motor         kw         2.1           Yaxis servo motor         kw         2.2         2.2         2.2         2.2           Codant motor         kw         0.5+1         0.5+1         0.5+1           Machine height         mm         2423         242         2.2           Kw         0.2.1         0.2         0.2         0.2         0.2         0.2	•			
Spindle speed         rpm         50~2500         50~2500           Spindle bearing diameter         mm         ø 100         ø 100           Spindle nose         mm         ø 100         ø 100           Spindle nose         mm         ø 100         ø 100           Spindle nose         mm         Å 2-8         Å 2-8           Turret         Turret type         Tret         Ø 100           Turret type         Tret type         Ø 100         Ø 100           Number of tools         pcs         6         8           Tool shank size         mm         C32,ø 40         C32,ø 40           X-axis and Z-axis         X-axis rapid travel         Tmm         450           X-axis travel         mm         450         450           X-axis rapid travel         m/min         12         12           Z-axis rapid travel         m/min         24         24           Motor         1.0         1.0         2-axis servo motor           Kw         2.1         2.1         2.1           Varius servo motor         kw         0.5+1         0.5+1           Hydraulic motor         kw         0.5+1         0.5+1           Machine heig		mm	250	250
Spindle bearing diameter         mm         ø 100         ø 100           Spindle nose         mm         A2-8         A2-8           Turret           Spindle nose         A2-8           Turret type           Spindle nose         Spindle nose           Turret type           Spindle nose         Spindle nose           Turret type           Spindle nose         Motor         Spindle notor         Spindle notor         Kw         A10         A10         A2-8				
Spindle nose         mm         A2-8         A2-8           Turret         Imm         A2-8         A2-8           Turret type         Imm				
Turret           Turret type         x x f.         k x f.           Number of tools         pcs         6         8           Tool shank size         mm         r32, ø 40         r32, ø 40           X-axis and Z-axis         mm         r32, ø 40         r32, ø 40           X-axis and Z-axis         mm         r50; +300         -50; +200           X-axis travel         mm         450         450           X-axis rapid travel         m/min         12         12           Z-axis rapid travel         m/min         24         24           Motor         Spindle motor         kw         α P22 11/15         α P22 11/15           X-axis servo motor         kw         1.0         1.0         1.0           Z-axis servo motor         kw         0.5+1         0.5+1           Measurement         mm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2		mm		
Turret type         the          the <td>Spindle nose</td> <td>mm</td> <td>A2-8</td> <td>A2-8</td>	Spindle nose	mm	A2-8	A2-8
Number of tools         pcs         6         8           Tool shank size         mm         □32,ø 40         □32,ø 40           X-axis and Z-axis         mm         □50;+300         -50;+200           X-axis travel         mm         450         450           X-axis rapid travel         m/min         12         12           Z-axis rapid travel         m/min         24         24           Motor         Spindle motor         kw         α P22 11/15         α P22 11/15           X-axis servo motor         kw         1.0         1.0         1.0           Z-axis servo motor         kw         2.1         2.1         12           Mutor         1.0         1.0         1.0         1.0           Z-axis servo motor         kw         0.5+1         0.5+1         0.5+1           Value         motor         kw         0.5+1         0.5+1         0.5+1           Value         mm         2920x2960         2920x2960         2920x2960           Machine height         mm         2443         2443         2443	Turret			
Tool shank sizemmΠ32,ø 40Π32,ø 40X-axis and Z-axismm-50;+300-50;+200X-axis travelmm450450Z-axis travelmm450450X-axis rapid travelm/min1212Z-axis rapid travelm/min2424Motortwα P22 11/15α P22 11/15X-axis servo motorkw01.0X-axis servo motorkw2.12.1Y-draulic motorkw2.22.2Coolant motorkw0.5+10.5+1Measu rementtw0.5+10.5+1LxWmm2920x29602920x2960Machine heightmm24432443Net weightkg4500x24500x2	Turret type		立式	臥式
X-axis and Z-axis           X-axis travel         mm         -50;+300         -50;+200           Z-axis travel         mm         450         450           X-axis rapid travel         m/min         12         12           Z-axis rapid travel         m/min         24         24           Z-axis rapid travel         m/min         24         24           Motor         Spindle motor         kw         α P22 11/15         α P22 11/15           X-axis servo motor         kw         1.0         1.0         1.0           Z-axis servo motor         kw         2.1         2.1         2.1           Hydraulic motor         kw         0.5+1         0.5+1         0.5+1           Hydraulic motor         kw         0.5+1         0.5+1         0.5+1           Measurement         LxW         mm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	Number of tools	pcs	6	8
X-axis travel         mm         -50;+300         -50;+200           Z-axis travel         mm         450         450           X-axis rapid travel         m/min         12         12           Z-axis rapid travel         m/min         24         24           Mot or         24         24         24           Spindle motor         kw         α P22 11/15         α P22 11/15           X-axis servo motor         kw         1.0         1.0           X-axis servo motor         kw         2.1         2.1           Y-axis servo motor         kw         2.2         2.2           Codart motor         kw         0.5+1         0.5+1           Hydraulic motor         kw         0.5+1         0.5+1           Measurement         LxW         mm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	Tool shank size	mm	<b>□</b> 32,ø 40	<b>□</b> 32,ø 40
Z-axis travelmm450450X-axis rapid travelm/min1212Z-axis rapid travelm/min2424Mot orEESpindle motorkwα P22 11/15α P22 11/15X-axis servo motorkw1.01.0X-axis servo motorkw2.12.1Hydraulic motorkw2.22.2Codart motorkw0.5+10.5+1MeasurementEEELxWmm2920x29602920x2960Machine heightmm24432443Net weightkg4500x24500x2				
X-axis rapid travel         m/min         12         12           Z-axis rapid travel         m/min         24         24           Mot or         X-axis service         x         α P22 11/15         α P22 11/15           Spindle motor         kw         α P22 11/15         α P22 11/15         α P22 11/15           X-axis service motor         kw         1.0         1.0         1.0           Z-axis service motor         kw         2.1         2.1         1.0           Z-axis service motor         kw         2.2         2.2         2.2           Coolant motor         kw         0.5+1         0.5+1           Measurement         XW         2.920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	X-axistravel	mm	-50;+300	-50;+200
Z-axis rapid travelm/min2424MotorSpindle motorkwα P22 11/15α P22 11/15X-axis servo motorkw1.01.0Z-axis servo motorkw2.12.1Hydraulic motorkw2.22.2Coolant motorkw0.5+10.5+1MeasurementUUULxWmm2920x29602920x2960Machine heightmm24432443Net weightkg4500x24500x2	Z-axis travel	mm	450	450
Motor         Spindle motor         kw         α P22 11/15         α P22 11/15           X-axis servo motor         kw         1.0         1.0           Z-axis servo motor         kw         2.1         2.1           Hydraulic motor         kw         2.2         2.2           Coolant motor         kw         0.5+1         0.5+1           Measurement         Imm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	X-axis rapid travel	m/min	12	12
Spindle motorkwα P22 11/15α P22 11/15X-axis servo motorkw1.01.0Z-axis servo motorkw2.12.1Hydraulic motorkw2.22.2Coolant motorkw0.5+10.5+1Measu rementLxWmm2920x29602920x2960Machine heightmm24432443Net weightkg4500x24500x2	Z-axis rapid travel	m/min	24	24
X-axis servo motor         kw         1.0         1.0           Z-axis servo motor         kw         2.1         2.1           Hydraulic motor         kw         2.2         2.2           Coolant motor         kw         0.5+1         0.5+1           Measurement         The second	Motor			
Z-axis servo motor         kw         2.1           Hydraulic motor         kw         2.2           Coolant motor         kw         0.5+1           Measurement         The second model         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	Spindle motor	kw	α P22 11/15	α P22 11/15
Hydraulic motor         kw         2.2         2.2           Coolant motor         kw         0.5+1         0.5+1           Measurement         mm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	X-axis servo motor	kw	1.0	1.0
Coolant motor         kw         0.5+1         0.5+1           Measurement         mm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	Z-axis servo motor	kw	2.1	2.1
Measurement         Imm         2920x2960         2920x2960           LxW         mm         2443         2443           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	Hydraulic motor	kw	2.2	2.2
LxW         mm         2920x2960         2920x2960           Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2	Coolant motor	kw	0.5+1	0.5+1
Machine height         mm         2443         2443           Net weight         kg         4500x2         4500x2				
Net weight         kg         4500x2         4500x2		mm		
<b>o</b>	-	mm		
	Net weight	kg	4500x2	4500x2
Total power consumptionKVA30x230x2	Total power consumption	KVA	30x2	30x2





ITEMS	Unit	YV-320AR/AL	YV-320ER/EL
Machine capacity			
Max. swing diameter	mm	ø 600	ø 600
Max. cutting diameter	mm	ø 450	ø 450
Max. cutting height	mm	300	400
Spindle			
Spindle speed	rpm	2500	2500
Spindle bearing diameter	mm	ø 120	ø 120
Spindle nose	mm	A2-8	A2-8
Turret			
Turret type		立式	臥式
Number of tools	pcs	6	8
Tool shank size	mm	<b>□</b> 32,ø 40	<b>⊡</b> 32,ø 40
X-axis and Z-axis			
X-axis travel	mm	-50;+350	-50;+250
Z-axis travel	mm	500	500
X-axis rapid travel	m/min	12	12
Z-axis rapid travel	m/min	24	24
Motor			
Spindle motor	kw	α P22 18.5/15	α P22 18.5/15
X-axis servomotor	kw	1.0	1.0
Z-axis servo motor	kw	2.1	2.1
Hydraulic motor	kw	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1
Measurement			
LxW	mm	2560x3200	2560x3540
Machine height	mm	2845	2845
Net weight	kg	5500x2	5500x2
Total power consumption	KVA	35x2	35x2

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#### **Specifications:**

Specifications.	1		
ITEMS	Unit	YV-500AR/AL	YV-500ER/EL
Machine capacity			
Max. swing diameter	mm	ø 750	ø 750
Max. cutting diameter	mm	ø 550	ø 550
Max. cutting height	mm	400	500
Spindle			
Spindle speed	rpm	20~2000	20~2500
Spindle bearing diameter	mm	ø 160	ø 160
Spindle nose	mm	A2-11	A2-11
Turret			
Turret type		立式	臥式
Number of tools	pcs	8	10
Tool shank size	mm	<b>□</b> 32,ø 40	<b>□</b> 32,ø 40
X-axis and Z-axis			
X-axis travel	mm	-50;+430	-50;+430
Z-axis travel	mm	600	600
X-axis rapid travel	m/min	20	20
Z-axis rapid travel	m/min	20	20
Motor			
Spindle motor	kw	α P40 18.5/22	α P40 18.5/22
X-axis servo motor	kw	2.1	2.1
Z-axis servo motor	kw	3.7	3.7
Hydraulic motor	kw	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1
Measurement			
LxW	mm	2950x3800	2950x3600
Machine height	mm	3385	3385
Net weight	kg	6000x2	6000x2
Total power consumption	KVA	45x2	45x2



ITEMS	Unit	YV-600AR/AL	YV-600ER/EL
Machine capacity			
Max. swing diameter	mm	ø 850	ø 850
Max. cutting diameter	mm	ø 750	ø 750
Max. cutting height	mm	500	600
Spindle			
Spindle speed	rpm	20~1500	20~1500
Spindle bearing diameter	mm	ø 220	ø 220
Spindle nose	mm	A2-11	A2-11
Turret			
Turret type		立式	臥之
Number of tools	pcs	6	10
Tool shank size	mm	<b>□</b> 32,ø 40	<b>⊒</b> 32,ø 40
X-axis and Z-axis			
X-axistravel	mm	-50;+570	-50;+485
Z-axis travel	mm	800	800
X-axis rapid travel	m/min	20	20
Z-axis rapid travel	m/min	20	20
Motor			
Spindle motor	kw	α P40 18.5/22	α P40 18.5/22
X-axis servomotor	kw	3.7	3.7
Z-axis servo motor	kw	3.7	3.7
Hydraulic motor	kw	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1
Measurement			
LxW	mm	3400x4900	3400x4900
Machine height	mm	3990	3990
Net weight	kg	6750x2	6750x2
Total power consumption	KVA	50x2	50x2





ITEMS	Unit	YV-800AR/AL	YV-800ER/EL
Machine capacity		· · · · · ·	
Max. swing diameter	mm	ø 1000	ø 1000
Max. cutting diameter	mm	ø 900	ø900
Max. cutting height	mm	600	700
Spindle			
Spindle speed	rpm	10~600	10~600
Spindle bearing diameter	mm	ø 330	ø 330
Spindle nose	mm	A2-11	A2-11
Turret			
Turret type		立式	臥式
Number of tools	pcs	6	10
Tool shank size	mm	<b>⊡</b> 32,ø 50	<b>⊡</b> 32,ø 50
X-axis and Z-axis			
X-axistravel	mm	-50;+810	-100;+550
Z-axis travel	mm	850	850
X-axis rapid travel	m/min	20	20
Z-axis rapid travel	m/min	20	20
Motor			
Spindle motor	kw	α P40 18.5/22	α P40 18.5/22
X-axis servo motor	kw	3.7	3.7
Z-axis servo motor	kw	3.7	3.7
Hydraulic motor	kw	2.2	2.2
Coolant motor	kw	0.5+1	0.5+1
Measurement			
LxW	mm	3450x5100	3450x5100
Machine height	mm	3670	3670
Net weight	kg	7000x2	7000x2
Total power consumption	KVA	50x2	50x2





The VTL series of vertical turning lathes are designed especially for high precision, high rigidity, high stability, under super heavy cutting conditions including non-symmetric work-pieces.

The outstanding rigidity of the structure and design provides mechanical features for super heavy cutting, which achieves maximum machining accuracy and stability thus increasing the life of cutting tools.

Example Fanuc spindle motor, high torque and high horse power spindle motor, incorporating a German ZF dual speed gearbox provide high torque and high turning speed allowing the machine to develop and extend its cutting ability to cover all applications of turning operations.

Cross roller bearings provide the strength to carry heavy axial and radial loads, thereby ensuring long life heavy cutting with very high precision, stability, low v ibration and maximum support for the forces exerted on the main spindle.

The heavy box section structure of the column provides maximum support for the sliding crossrail during heavy cutting conditions. The highest degree of machining precision will be maintained during heavy uninterrupted cutting operations.

The X-axis box structure slideways are heat treated and the sliding faces are Turcite B coated allowing slide assemblies to move with high precision, accuracy and low friction.

The VTL series of CNC vertical turning lathes are checked and inspected under strict quality control which simulates all kinds of cutting conditions as a full test prior to shipment.

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#### Specification:

	LINITT			VTL-1600ATC	VTL-1600ATC+C
ITEMS	UNIT	VTL-1600ATC	VTL-1600ATC	VIL-1600ATC	VIL-1000AIC+C
CAPACITY					
Table diameter	mm	ø 1600	ø 1600	ø1600	ø 1600
Max. swing	mm	ø 2000	ø 2000	ø 2000	ø 2000
Max. cutting diameter	mm	ø 1800	ø 1800	ø 1800	ø 1800
Max. cutting height	mm	1200	1600	1800	1200
Max. load Table	kg	8000	8000	8000	8000
Travel					
Horizontaltravel of rail head (X- axis)	mm	-600,+1015	-600,+1015	-600 ,+1015	-600 ,+1015
Vertical travel of ram (Z-axis)	mm	900	900	1200	900
Vertical travel of crossrail	mm	800	1200	1400	800
Spindle					
(Low)	rpm	1~62	1~62	1~62	1~62
Table speed (High)	rpm	62~250	62~250	62~250	62~250
Led spindle (Low)	rpm				1~1200
speed (High)	rpm				1200~2400
Max. Table torque	N.m	19500(1989)	19500(1989)	19500(1989)	19500(1989)
Feeder rate	(kgf-m)				
Rapidtraverse of rail head (X-		4.0	10	4.0	4.0
axis)	M/min	12	12	12	12
Rapid traverse of ram (Z-axis)	M/min	10	10	10	10
Cutting feed rate	mm/rev	1~2000	1~2000	1~2000	1~2000
Manual feeder rate	mm/min	0~6	0~6	0~6	0~6
Tooling					
Turret (ATC) type		12 tools	12 tools	12 tools	16 tools
Type of tool shank			7/24 tap	erBT-50	
Max. of tool size for automatic tool changing	mm		280Wx15	0Tx400L	
Max. tool weight	kg	50	50	50	50
Max. loading of ATC	kg	360	360	360	360
Tool change time(ATC)	Sec	40	40	40	40
Motors					
Spindle drive motor	kw		37/45 (a40)		37/45 (a40)
#2 Spindle drive motor	kw				7.5/11(a8)
X-axis servo motor	kw		7 (a	30i)	
Z-axis servo motor	kw		6 (a	40i)	
CF-axis servo motor	kw				7 (a30i)
Tank capacity					
Hydraulictank	L		13	30	
Coolant tank	L		7:	50	
Lube. Tank(slide ways)	L		4	.6	
Power sources			AC220±10%	60Hz±5Hz	
Power capacity	KVA	90	90	90	100
Floor dimension	mm		5190	x4420	
Machine weight	kg	37,000	38,000	39,000	37,500
Positioning accuracy of linear	mm	P:±0.007/5	00, Ps:±0.005(X&7)	, P::±7.5"/360° Ps	s:±5"(C-axis)
<ul><li>axis</li><li>Specification subject to change to c</li></ul>			,	, , , , , , , , , , , , , , , , , , , ,	(

• Specification subject to change to change without prior notice.





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ITEMS			VTL-	VTL-	VTL-
			3000ATC	<b>3000ATC-</b> .	3000ATC+C
CAPACITY					
Table diameter		mm	ø 3000	ø 3000	ø 3000
Max. swing		mm	ø 3500	ø 3500	ø 3500
Max. cutting diameter		mm	ø 3400	ø 3400	ø 3400
Max. cutting height		mm	1800	2200	1800
Max. bad Table		kg	20000	20000	20000
-Trav el					
Horizontal travel of rail head (X-a:	xis)	mm	+1850,+1500	+1850 ,+1500	+1850,+1500
Vertical travel of ram (Z-axis)		mm	1500	1500	1500
Vertical travel of crossrail		mm	1400	1400	1400
Spindle			1400	1400	1400
	(Low)	rpm	2~40	2~40	2~40
Table speed	(High)	•	-	41~120	
	(Low)	rpm	41~120	41~120	41~120 2~1200
Led spindle speed		rpm			1200~2400
· · ·	(High)	rpm	07000(0000)	07000(0000)	
Max. Table torque		N.m(kgf-m)	67300(6860)	67300(6860)	67300(6860)
Feeder rate					
Rapid traverse of rail head (X-axis	s)	M/min	10	10	10
Rapid traverse of ram (Z-axis)		M/min	10	10	10
Cutting feed rate		mm/rev	1~2000	1~2000	1~2000
Manual feeder rate		mm/min	0~6	0~6	0~6
Tooling					
Turret (ATC) type			16	16	16
Ty pe of tool shank				7/24 taper BT-50 (BT-60)	
Max. of tool size for automatic too	lohonging	mm		280Wx150Tx400L	
	Ji changing	11011		200000130124002	
Max. tool weight		kg	50	50	50
Max. loading of ATC		kg	500	500	500
Tool change time(ATC)		Sec	60	60	60
Motors					
Spindle drive motor		kw	60/75 (α60 H VI)	60/75 (α60 H VI)	60/75 (α60 H VI)
#2 Spindle drive motor		kw			11/15(α12 HVI)
X-axis servo motor		kw	5.5	5.5	5.5
Z-axis servo motor		kw	5.5	5.5	5.5
CF-axis servo motor		kw	5.5		5.5
Coolant motor			0.0	0.2	0.2
					U.C
		kw	0.2	0.2	0.2
Tank capacity					
Tank capacity Hydraulic tank		L	200	200	200
Tank capacity Hydraulic tank Coolant tank		L	200 1200	200 1200	200 1200
Tank capacity Hydraulic tank Coolant tank Lube. Tank(slide ways)		L	200	200 1200 4.6+8	200
Tank capacity Hydraulic tank Coolant tank Lube. Tank(slide ways) Power sources		L L L	200 1200 4.6+8	200 1200 4.6+8 AC220±10%. 60Hz±5Hz	200 1200 4.6+8
Tank capacity Hydraulic tank Coolant tank Lube. Tank(slide ways) Power sources Power capacity		L L L	200 1200	200 1200 4.6+8 AC220±10% 60Hz±5Hz 150	200 1200
Tank capacity Hydraulic tank Coolant tank Lube. Tank(slide ways) Power sources Power capacity Floor dimension		L L L KVA mm	200 1200 4.6+8 150	200 1200 4.6+8 AC220±10% 60Hz±5Hz 150 7200x5700	200 1200 4.6+8 160
Tank capacity Hydraulic tank Coolant tank Lube. Tank(slide ways) Power sources Power capacity Floor dimension Machine weight		L L L	200 1200 4.6+8	200 1200 4.6+8 AC220±10% 60Hz±5Hz 150 7200x5700 75,500	200 1200 4.6+8 160 70,000
Tank capacity Hydraulic tank Coolant tank Lube. Tank(slide ways) Power sources Power capacity Floor dimension	6	L L L KVA mm	200 1200 4.6+8 150	200 1200 4.6+8 AC220±10% 60Hz±5Hz 150 7200x5700	200 1200 4.6+8 160 70,000





Specifications.							
ITEMS		UNIT	VTL- 4000ATC	VTL- 4000ATC	VTL- 4000A TC+C		
CAPACITY							
Table diameter		mm	ø 4000	ø 4000	ø 4000		
Max. swing		mm	ø 4700	ø 4700	ø 4700		
Max. cutting diameter		mm	ø 4500	ø 4500	ø 4500		
Max. cutting height		mm	1800	2300	1800		
Max. bad Table		kg	20000	20000	20000		
Travel							
Horizontal travel of rail head (	X-axis)	mm	+2320 ,+1800	+2320 ,+1800	+2320 ,+1800		
Vertical travel of ram (Z-axis)		mm	1500	1500	1500		
Vertical travel of crossrail		mm	1400	1400	1400		
Spindle			1100	1100	1100		
	(Low)	rom	2~30	2~30	2~30		
Table speed		rpm	31~100	31~100			
-	(High)	rpm	31~100	31~100	31~100		
Led spindle speed	(Low)	rpm			2~1200		
· ·	(High)	rpm			1200~2400		
Max. Table torque		N.m(kgf -m)	92400(9400)	92400(9400)	92400(9400)		
Feeder rate							
Rapid traverse of rail head (X-	-axis)	M/min	10	10	10		
Rapid traverse of ram (Z-axis)		M/min	10	10	10		
Cutting feed rate		mm/rev	1~2000	1~2000	1~2000		
Manual feeder rate		mm/min	0~6	0~6	0~6		
		11111/11111	0.0	0.0	0-0		
Tooling			10	10	16		
Turret (ATC) type			16	16	16		
Ty pe of tool shank				7/24 taper BT-50 (BT-60)			
Max. of tool size for automatic	tool changing	mm	280Wx150Tx400L				
Max. tool weight		kg	50	50	50		
Max. loading of ATC		kg	500	500	500		
Tool change time(ATC)		Sec	60	60	60		
		000	00	00	00		
Spindle drive motor		kw	60/75 (α60 H VI)	60/75 (α60HVI)	60/75 (α60 HVI)		
		kw	00/75 (d0011VI)	00/73 (d0011VI)	11/15(α12 HVI)		
#2 Spindle drive motor					. ,		
X-axis servo motor		kw	5.5	5.5	5.5		
Z-axis servo motor		kw	5.5	5.5	5.5		
CF-axis servo motor		kw			5.5		
Coolant motor		kw	0.2	0.2	0.2		
Tank capacity							
Hydraulic tank		L	200	200	200		
Coolant tank		_	1200	1200	1200		
Lube. Tank(slide ways)			4.6+8	4.6+8	4.6+8		
· · /		L	4.0+0		4.0+0		
Power sources			470	AC220±10%. 60Hz±5Hz	102		
Power capacity		KVA	170	170	180		
Floordimension		mm		8200x6600			
Machine weight		kg	79,000	85,500	80,000		
Positioning accuracy of linear	axis	mm	P:±0.008/500,	Ps:±0.005(X&Z), P::±7.5"/360°	Ps:±5"(C-axis)		
<b>,</b>			,	, <i>n</i>	· /		





#### Specifications:

ITEMS	UNIT	VTL- 2000ATC-2R	VTL- 2000ATC-2R+C
CAPACITY		2000A TC-2K	2000ATC-2KTC
Table diameter	mm	ø 2000	ø 2000
Max. swing	mm	ø 2500	ø 2500
Max. cutting diameter	mm	ø 2300	ø 2300
Max. cutting height	mm	1600	1600
Max. bad Table	kg	10000	10000
Travel			
Horizontal travel of rail head (X-axis)	mm	1850	1850
Vertical travel of ram (Z-axis)	mm	950	950
Vertical travel of crossrail	mm	1150	1150
-Spindle			
	rpm	2~50	2~50
Table speed (Low) (High )	rpm	50~200	50~200
	rpm		2~1200
Led spindle speed (High)	rpm		1200~2400
Max. Table torque	N.m(kgf-m)	55500(5660)	55500(5660)
Feed Rate			
Rapid traverse of rail head (X-axis)	M/min	10	10
Rapid traverse of ram (Z-axis)	M/min	10	10
Cutting feed rate	mm/rev	1~2000	1~2000
Manual feeder rate	m/min	0~6	0~6
Automatic Tool Changer (ATC)			
Number of tool position		12 tools x 2	16 tools x 2
Ty pe of tool shank			BT-50
Max. of tool size for automatic tool changing	mm		50Wx150Tx400L
Max. tool weight	kg	50	50
Max. bading of ATC	kg	360 (ONE ATC)	360 (ONE ATC)
Time of tool change (ATC)	Sec	45	45
Tool shank size	mm	<b>口</b> 40 (ø63)	<b>口</b> 40 (ø63)
-Motors		- ()	
Spindle drive motor	kw	60/75 (α60)	60/75 (α60)
#2 Spindle drive motor	kw		11/15 (α12)
X-axis servo motor	kw	4.5x2	4.5x2
Z-axis servo motor	kw	4.5x2	4.5x2
CF-axis servo motor	kw		4.5
Coolant motor	kw	0.75	0.75
Tank capacity			
Hydraulic tank	L	80	80
Coolant tank	L	500	500
Lube. Tank(slide ways)	L	4	4
Power sources			400±10%. 60Hz±5Hz
Power capacity	KVA	170	170
Floordimension	mm		8200x6600
Machine weight	kg	79,000	85,500
Position accuracy of X,Z axis	kg	46,000	47,000
Positioning accuracy of linear axis	mm	P:±0.008/500, Ps:±0.0	05(X&Z), P::±7.5"/360° Ps:±5"(C-axis)

SERIES





#### Specifications:

ITEMS	UNIT	VTL- 2500ATC-2R	VTL- 2500ATC-2R+C
CAPACITY			
Table diameter	mm	ø 2500	ø 2500
Max. swing	mm	ø 3000	ø 3000
Max. cutting diameter	mm	ø 2800	ø 2800
Max. cutting height	mm	1600	1600
Max. bad Table			15000
	kg	15000	15000
Travel		0100	0100
Horizontal travel of rail head (X-axis)	mm	2100	2100
Vertical travel of ram (Z-axis)	mm	1200	1200
Vertical travel of crossrail	mm	1150	1150
Spindle			
Table speed (Low)	rpm	2~40	2~40
(Hign)	rpm	40~160	40~160
Led spindle speed (Low)	rpm		2~1200
(High)	rpm		1200~2400
Max. Table torque	N.m(kgf-m)	68500(6990)	68500(6990)
Feed Rate		, , , , , , , , , , , , , , , , , , ,	х ,
Rapid traverse of rail head (X-axis)	M/min	10	10
Rapid traverse of ram (Z-axis)	M/min	10	10
Cuttingfeed rate	mm/rev	1~2000	1~2000
Manual feeder rate	m/min	0~6	0~6
Automatic Tool Changer (ATC)	111/11111	0.0	0.0
Number of tool Position		12 tools x 2	16 tools x 2
Ty pe of tool shank		12 10015 X 2	BT-50
		0	
Max. of tool size for automatic tool changing	mm		50Wx150Tx400L
Max. tool weight	kg	50	50
Max. bading of ATC	kg	360 (ONE ATC)	360 (ONE ATC)
Time of tool change (ATC)	Sec	45	45
Tool shank size	mm	<b>口</b> 40 (ø63)	<b>口</b> 40 (ø63)
Motors		Ц 10 (200)	Н ю (2000)
Spindle drive motor	kw	60/75 (α60)	60/75 (α60)
#2 Spindle drive motor	kw	00/75 (000)	11/15 (α12)
X-axis servo motor	kw	4.5x2	4.5x2
Z-axis servo motor	kw	4.5x2	4.5x2
CF-axis servo motor	kw		5.9
Coolant motor	kw	0.75	0.75
Tank capacity			
Hydraulic tank	L	80	80
Coolant tank	L	500	500
Lube. Tank(slide ways)	L	4	4
Power sources			00±10%. 60Hz±5Hz
Power capacity	KVA	140	150
Floor dimension	mm		6600x5100
Machine weight	kg	6000	6000
Position accuracy of X,Z axis	kğ	55,000	56,000
Positioning accuracy of linear axis	mm		05(X&Z), P::±7.5"/360° Ps:±5"(C-axis)
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#### Specifications:

ITEMS	UNIT	VTL-	VTL-
		3000A TC-2R	3000ATC-2R+C
CAPACITY			
Table diameter	mm	ø 3000	ø 3000
Max. swing	mm	ø 3600	ø 3600
Max. cutting diameter	mm	ø 3400	ø 3400
Max. cutting height	mm	1800	1800
Max. bad Table	kg	20000	20000
Travel Horizontal travel of rail head (X-axis)	mm	3200	3200
Vertical travel of ram (Z-axis)	mm	1500	1500
Vertical travel of crossrail	mm	1200	1200
-Spindle		1200	1200
(1 ow)	rpm	2~40	2~40
Table speed (High )	rpm	40~120	40~120
(Low)	rpm		2~1200
Led spindle speed (High)	rpm		1200~2400
Max. Table torque	N.m(kgf-m)	67000(6830)	67000(6830)
Feed Rate	(3)		
Rapid traverse of rail head (X-axis)	M/min	10	10
Rapid traverse of ram (Z-axis)	M/min	10	10
Cutting feed rate	mm/rev	1~2000	1~2000
Manualfeeder rate	m/min	0~6	0~6
Automatic Tool Changer (ATC)			
Number of tool Position		12 tools x 2	16 tools x 2
Ty pe of tool shank		BT-50 (BT-60)	BT-50
Max. of tool size for automatic tool changing	mm		50Wx150Tx400L
Max. tool weight	kg	50	50
Max. loading of ATC	kg	360 (ONE ATC)	360 (ONE ATC)
Time of tool change (ATC)	Sec	45	45
Tool shank size	mm	<b>□</b> 40 (ø63)	<b>口</b> 40 (ø63)
Motors			
Spindle drive motor	kw	60/75 (α60)	60/75 (α60)
#2 Spindle drive motor	kw		11/15 (α12)
X-axis servo motor	kw	5.5x2	5.5x2
Z-axis servo motor	kw	5.5x2	5.5x2
CF-axis servo motor	kw		5.9
Coolant motor	kw	1	1
Tank capacity			
Hydraulic tank	L	100	100
Coolant tank	L	700	700
Lube. Tank(slide ways)	L	8	8
Power sources	KVA	150 AC4	00±10%. 60Hz±5Hz 150
Power capacity Floor dimension	r v A mm	7150x5900	7150x5900
Machine weight		71308	713085900
Position accuracy of XZ axis	kg kg	73,000	7138
Positioning accuracy of linear axis	mm	,	5(X&Z), P::±7.5"/360° Ps:±5"(C-axis)
- containing accuracy of linear and		1.20.000/000, 10.20.00	, 1.210/000 10:20 (0 and)

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TL-4000ATC-2R

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#### Specifications:

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ITEMS	UNIT	VTL- 4000A TC-2R	VTL- 4000ATC-2R+C	
CAPACITY				
Table diameter	mm	ø 4000	ø 4000	
Max. swing	mm	ø4800	ø 4800	
Max. cutting diameter	mm	ø 4500	ø 4500	
Max. cutting height	mm	1800	1800	
Max. bad Table	kg	20000	20000	
Trav el				
Horizontal travel of rail head (X-axis)	mm	4000	4000	
Vertical travel of ram (Z-axis)	mm	1500	1500	
Vertical travel of crossrail	mm	1200	1200	
Spindle				
Table speed (Low)	rpm	2~30	2~30	
· (Hign)	rpm	30~100	30~100	
Led spindle speed (Low)	rpm		2~1200	
(High)	rpm		1200~2400	
Max. Table torque	N.m(kgf -m)	92000(9380)	92000(9380)	
Feed Rate	(0)	, , , , , , , , , , , , , , , , , , ,		
Rapid traverse of rail head (X-axis)	M/min	10	10	
Rapid traverse of ram (Z-axis)	M/min	10	10	
Cuttingfeed rate	mm/rev	1~2000	1~2000	
Manual feeder rate	m/min	0~6	0~6	
Automatic Tool Changer (ATC)	111/11111	0~0	0.40	
Number of tool Position		12 tools x 2	16 tools x 2	
Ty pe of tool shank		BT-50 (BT-60)	BT-50	
Max. of tool size for automatic tool changing	mm		350Wx150Tx400L	
Max. tool weight	kg	50	50	
Max. loading of ATC	kg	360 (ONE ATC)	360 (ONE ATC)	
Time of tool change (ATC)	Sec	45	45	
Tool shank size	mm	<b>口</b> 40 (ø63)	<b>口</b> 40 (ø63)	
Motors		<u> </u>		
Spindle drive motor	kw	60/75 (α60)	60/75 (α60)	
#2 Spindle drive motor	kw	/	11/15 (α12)	
X-axis servo motor	kw	5.5x2	5.5x2	
Z-axis servo motor	kw	5.5x2	5.5x2	
CF-axis servo motor	kw		5.9	
Coolant motor	kw	1	1	
Tank capacity	r vv	1	1	
Hydraulic tank	L	65	65	
Coolant tank	L	600	600	
Lube. Tank(slide ways)	_	4	4	
Power sources	-			
Power capacity	KVA	140	140	
Floor dimension		8380x7250	8380x7250	
Machine weight	kg	7138	7138	
Position accuracy of XZ axis	kg	88,000 D 10,000/500 D 10	88,000	
Positioning accuracy of linear axis	mm	P:±0.008/500, Ps:±0.	005(X&Z), P::±7.5"/360° Ps:±5"(C-axis)	
<ul> <li>Specification subject to change to change without</li> </ul>	prior notice.			





- 1978 YOU JI was established at Bali Township, Taipei, mainly produced single function machines, special purpose machines and boring machines
- 1981 Due to plant expansion, the company moved to Kaohsiung County.
- 1991 Successfully researched and developed medium-sized CNC vertical turning lathe- YV series.
- 1992 Horizontal Turning Lathe with Hydraulic Turret design was submitted to the domestic market. You Ji has been the first company successfully to develop and build hydraulic system into CNC lathe in Taiwan. In the same year, the second factory was established and You JI started to export its products into global market.
- 1993 Turnover was increased to NT\$50 millions.
- 1994 More than 20 exclusive local agents and all over the world had been established.
- 1995 Turnover was increased to NT\$90 millions.
- 1996 Qualification of CE norm.
- 1997 Qualification of EMC certificate and extended the plant to 10,000 square meter.
- 1998 Successfully researched and developed CNC vertical machining center-VMC series.
- 1999 Successfully researched and developed CNC vertical turning lathe-VTL series.
- 2000 CNC reverse turning lathe YR-320 series was development successfully.
- 2001 You Ji has been the first company successfully to develop and build the multi- function vertical turning lathe.
- 2002 Subsidiary was established at Kun Shan, China.
- 2003 VMC1100-2S Vertical machine center with 2 spindle to be presented to the public.
- 2004 Successfully researched and developed CNC horizontal machining center-HMC series, and qualified of ISO9001 in the same year.
- 2005 Extended the plant to 17,500 square meter.
- 2006 Vertical lathe with Auto pallet changer, special design for bearing manufacture- VTS series, double RAM vertical turning lathe to be presented to the public. Turnover was increased to NT\$2 billions.
- <sup>2007</sup> Successfully researched and developed CNC heavy duty flat bed turning lathe -YB series and VTL3000ATC. VTL4000ATC to be presented to the public . You Ji is in the leading position of big vertical lathe manufacture. The plant in Kun Shan, China was established.
- 2008 Successfully researched and developed huge turning lathe equips with hydrostatic bearing- VTH series and CNC gantry type machining center. Turnover was increased to NT\$4.5 billions.
- 2009 Successfully researched and developed horizontal floor type milling and boring machine as well as double column 5 faces machining center.



Over 30 years experience, You Ji obtained customers' support in Design and quality of machine. There are many of machines to meet customers' different need. Table diameter from Ø200 to Ø8000mm. You Ji is the first machine manufacturer passed C.E. and EMC and begin sales in Europe market. You Ji is the biggest vertical lathe manufacturer in Taiwan.

The cooperation between You Ji and other advanced machine manufacturers helps to upgrade the quality of You Ji products and expect to provide customers the best and the soonest service in business.



There is no secret for running a manufacturing business. The most important issue is to be aware of the latest industrial information, to collect and analy ze information efficiently, and to transform them into the appropriate products at the right time for the right people. As well as to create as much value as possible for the customers, and simultaneously, the development of both parties is continued in the win-win situations.

This is You Ji's business philosophy since its establishment t in 1977. In practice, the utilization of the high precision manufacturing facilities and the adoption of the strict assembly control with rigorous inspection in the factory always ensures the perfect completion of each machine.

Our goal is always to meet customers' applications by collaborating and exchanging information with the international manufacturers, and continuously developing and upgrading the techniques and design in production, in order to offer higher quality products and prompt after-sale services. Therefore, the customers are thoroughly satisfied and benefited from its 26 years great experience and the total commitment.

Based on management philosophy, as a stand-alone machine or as part of a flexible manufacturing system, the versatile design configuration of You Ji's products would be your best choice in any aspect of industrial application:

- Decreased gravitational and centrifugal forces maintain zero elliptical motion during cutting giving optimum roundness.
- Excellent surface contact between work-piece and chuck to ensure higher precision machining on all YV series machines.
- Easy to loading & unloading for irregular-shaped and heavy-duty work-pieces.
- Vertical turning lathe occupies less floor-space in setting up.
- Vertical turning lathe is based on ergonomics designed and simple to link with the automatic production line.





Double spindle design increased productivity and high efficiency.

Reduce floor space.

Lower cost design.

Reduce work in transit.



Main structure with high-leverl casting. STable and high quality.

Box guideway design provides high rigidity and sTable structure.

- Y-axis was supported by 4 rails (VMC1350) provides the best carrying capacity of work-piece.
- Dual speed gearbox provides the ability of heavy cutting. (Option)
- Spindle head with boon-structure provides the sTable support for the spindle.
- Umbrella type ATC system(Arm-type ATC for option on VMC850, VMC1100)
- Installed with high accuracy C3 level ballscrew with special structure pre-pulled. Rapid and accurate.
- Section 2015 In the section of the s
- Auto-lube system provides the lubrication of the railway and the ballscrew.
- Oil skimmer device keeps the using time of coolant.
- Germany TUV NORD and ISO9001:2000 quality control system.



# YOUJI







	YV200	YV250	YV320	YV500	YV600	YV800	YV1000	YV1200	YV1600
Chuck diameter / Table diamet	er Ø8"	Ø10"	Ø12"	Ø15"	Ø24*	Ø24"	Ø1000mm	Ø1250mm	Ø1600mm
Max. swing diameter	Ø400mm	Ø500mm	Ø600mm	Ø750mm	Ø850mm	Ø1000mm	Ø1350mm	Ø1600mm	Ø2000mm
Max. turning diameter	Ø250mm	Ø350mm	Ø450mm	Ø550mm	Ø750mm	Ø900mm	Ø1100mm	Ø1350mm	Ø1800mm
Max. turning height	200mm	250mm	300mm	500mm	600mm	700mm	700mm	1200mm	1200mm
Max. loading weight	200kg	300kg	500kg	1,200kg	1,800kg	3,000kg	4,000kg	5,000kg	8,000kg
Spindle motor	9/11kW	11/15kW	18.5/22kW	18.5/22kW	18.5/22kW	18.5/22kW	30/37kW	37/45kW	37/45kW
Spindle speed	50~3500min <sup>-1</sup>	50~2500min <sup>-1</sup>	50~2500min <sup>-1</sup>	50~2000min <sup>-1</sup>	20~1500min-1	1~600min <sup>.1</sup>	1~600min <sup>.1</sup>	1~350min-1	1~250min <sup>-1</sup>
Floor dimension	2880x1480mm	2950x1520mm	3350x1980mm	3560x2330mm	4400x2450mm	3700x2550mm	3800x4400mm	4000x4600mm	5550x5200mm
Machine height	2460mm	2610mm	3045mm	3500mm	4410mm	4000mm	4450mm	5200mm	5200mm



#### **CNC Vertical Turning Lathe YV / VTL Series**





#### - APC : Automatic Pallet Changer (1000~2500) 2R : Double RAM (1600 and upward) I :Column Height Increased II :Column Height Increased ATC : Automatic Tool Changer ATC+C : Automatic Tool Changer + CF-axis Function Machine Model: 1000,1200,1600,2000,2500,3000,4000

Vertical Turning Lathe (Symmetric design for column & base)



ATC (Automatic Tool Changer)



ATC+C (Complex milling solution)



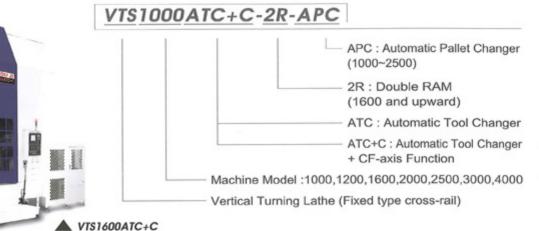
APC (Automatic Pallet Changer)



	VTL1000ATC	VTL1200ATC	VTL1600ATC	VTL2000ATC	VTL2500ATC	VTL3000ATC	VTL4000ATC
Table diameter	Ø1000mm	Ø1250mm	Ø1600mm	Ø2000mm	Ø2500mm	Ø3000mm	Ø4000mm
Max. swing diameter	Ø1350mm	Ø1600mm	Ø2000mm	Ø2500mm	Ø3000mm	Ø3600mm	Ø4700mm
Max. turning diameter	Ø1100mm	Ø1400mm	Ø1800mm	Ø2300mm	Ø2800mm	Ø3400mm	Ø4500mm
Max. turning height	900mm	1200mm	1200mm	1600mm	1600mm	1600mm	1600mm
Max. loading weight	4,000kg	5,000kg	8,000kg	10,000kg	15,000kg	20,000kg	30,000kg
Spindle motor	30/37kW	37/45kW	37/45kW	60/75kW	60/75kW	60/75kW	100kW
Spindle taper	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50/BT-60	BT-50/BT-60
Spindle speed	1~600min-1	1~350min-1	1~250min-1	1~200min-1	1~160min-1	1~120min-1	1~60min-1
Floor dimension	4700x3900mm	5050x4170mm	5400x4500mm	5800x4700mm	6600x5300mm	7750x5700mm	9200x6555mm
Machine height	4500mm	4760mm	5300mm	6100mm	6550mm	7000mm	7000mm







	VTS1000ATC	VTS1200ATC	VTS1600ATC	VTS2000ATC	VTS2500ATC	VTS3000ATC	VTS4000ATC
Table diameter	Ø1000mm	Ø1250mm	Ø1600mm	Ø2000mm	Ø2500mm	Ø3000mm	Ø4000mm
Max. swing diameter	Ø1350mm	Ø1600mm	Ø2000mm	Ø2500mm	Ø3000mm	Ø3600mm	Ø4800mm
Max. turning diameter	Ø1100mm	Ø1400mm	Ø1800mm	Ø2300mm	Ø2800mm	Ø3400mm	Ø4500mm
Max. turning height	800mm	800mm	800mm	800mm	800mm	1000mm	1000mm
Max. loading weight	4,000kg	5,000kg	8,000kg	10,000kg	15,000kg	20,000kg	30,000kg
Spindle motor	30/37kW	37/45kW	37/45kW	60/75kW	60/75kW	60/75kW	100kW
Spindle taper	Capto C6	Capto C6	Capto C6	Capto C6	Capto C6	Capto C6	Capto C6
Spindle speed	1~600min-1	1~350min <sup>-1</sup>	1~250min-1	1~200min <sup>-1</sup>	1~160min <sup>-1</sup>	1~120min-1	1~60min <sup>-1</sup>
Floor dimension	7500x5330mm	8100x5430mm	9100x5600mm	9700x5700mm	10350x6135mm	11000x6500mm	12000x7000mm
Machine height	5360mm	5550mm	5550mm	5930mm	5930mm	6800mm	6800mm

#### Automatic Attachment Changer



Turning tool in axial setting

#### Tool Head(Optional)



Vertical facing head





Live tool in axial setting

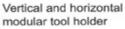


Live tool in radial setting



Tool magazine

#### 90° milling head





Horizontal tool holder

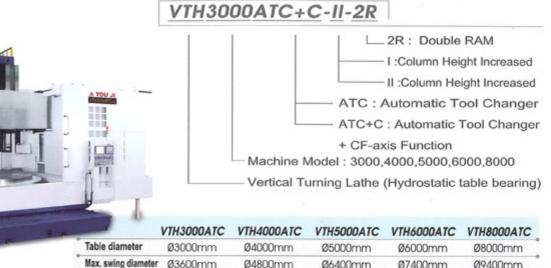




#### CNC Vertical Turning Lathe VTS / VTH Series

VTH Series

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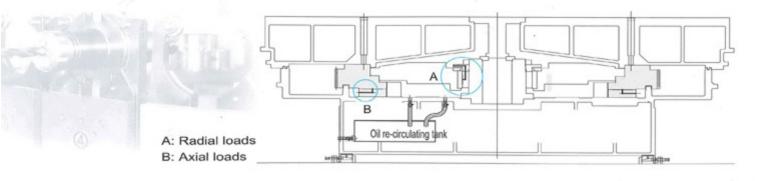
VTH3000ATC+C

Table diameter	Ø3000mm	Ø4000mm	Ø5000mm	Ø6000mm	Ø8000mm
Max. swing diameter	Ø3600mm	Ø4800mm	Ø6400mm	Ø7400mm	Ø9400mm
Max. turning diameter	Ø3400mm	Ø4500mm	Ø5900mm	Ø6900mm	Ø8900mm
Max. turning height	1800mm	1800mm	2200mm	2200mm	2200mm
Max. loading weight	45,000kg	60,000kg	100,000kg	100,000kg	120,000kg
Spindle motor	60/75kW	100kW	100kW	100kW	100kW
Spindle taper	BT-50/BT-60	BT-50/BT-60	BT-50/BT-60	BT-50/BT-60	BT-50/BT-60
Spindle speed	1~75min-1	1~60min-1	1~40min-1	1~20min-1	1~10min <sup>-1</sup>
Floor dimension	7750x5700mm	9200x65555mm	15380x8000mm	16500x9000mm	18500x11000mm
Machine height	6950mm	6950mm	8450mm	8450mm	9450mm

#### Hydrostatic working table features

- Low friction design for permanent life of working table
- Loading capacity depends on the hydrostatic oil film pressure, set by the pump pressures.
- Hydrostatic design allows high loads on working table.
- The oil film between the base of the machine and working table absorbs the cutting vibration and loads.
- A safety system controls the hydrostatic pressure for optimum safety.
- The oil pressure and oil film height is automatically set for maintenance free operation.

The principle of the hydrostatic system uses various pockets of oil, each pocket allows friction free running of the working table. There is no contact between running surfaces. This design is superior to a conventional roller bearing type machine, allowing higher vibration absorption, high table loads, and smooth operation.



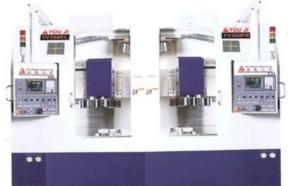




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#### **YV Twin Series**







A YV320 AR/AL

YV200 ER/EL

	YV200 ER/EL	YV250 AR/AL ER/EL	YV320 AR/AL ER/EL	YV500 AR/AL ER/EL	YV600 AR/AL ER/EL	YV800 AR/AL ER/EL
Chuck diameter / Table diameter	Ø8"	Ø10"	Ø12"	Ø15"	Ø24"	Ø24"
Max. swing diameter	Ø400mm	Ø500mm	Ø600mm	Ø750mm	Ø850mm	Ø1000mm
Max. turning diameter	Ø250mm	Ø350mm	Ø450mm	Ø550mm	Ø750mm	Ø900mm
Max. turning height	200mm	250mm	300mm 400mm	500mm 600mm	600mm	700mm
Spindle motor	9/11kW	11/15kW	18.5/22kW	18.5/22kW	18.5/22kW	18.5/22kW
Turret type	Horizontal	Vertical Horizontal	Vertical Horizontal	Vertical Horizontal	Vertical Horizontal	Vertical Horizontal
Spindle speed	50~3500min <sup>-1</sup>	50~2500min-1	50~2500min <sup>-1</sup>	20~2000min-1	20~1500min <sup>-1</sup>	10~600min <sup>-1</sup>
Floor dimension	2880x2960mm	2950x3100mm	3350x3540mm	3560x3800mm	4400x4700mm	3700x5100mm
Machine height	2460mm	2610mm	3045mm	3500mm	4410mm	4000mm



	YV500E2T	YV600E2T
Max. swing diameter	Ø700mm	Ø850mm
Max. turning diameter	Ø550mm	Ø750mm
Max. turning height	270mm	350mm
Spindle motor	37/45kW	60/75kW
Spindle nose	A2-11	A2-11
Spindle speed	20~2200min-1	20~1500min <sup>-1</sup>
Turret type	Vertical (6 station)x2	Vertical (6 station)x2
Floor dimension	3880x2935mm	4830x3935mm
Machine height	2895mm	3640mm
	YV500E2T2P	YV600E2T2P
Max. swing diameter	Ø700mm	Ø850mm
Max. turning diameter	Ø550mm	Ø750mm
Max. turning height	270mm	350mm
Spindle motor	37/45kW	60/75kW
Spindle nose	A2-11	A2-11
Spindle speed	20~2200min <sup>-1</sup>	20~1500min <sup>-1</sup>
Turret type	Vertical (6 station)	Vertical (6 station)
Floor dimension	3880x2935mm	4830x3935mm
Machine height	2895mm	3640mm

#### CNC Vertical Turning Lathe YV / YR / HV Series

#### YR Vertical Turning Lathe-Inverted Spindle Series

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A YR320



	YR200	YR320	YR500	YR600	YR15-25
Chuck diameter	Ø8"	Ø10*	Ø12"	Ø15"	Ø4"
Max. swing diamete	Ø320mm	Ø400mm	Ø520mm	Ø700mm	Ø140mm
Max. turning diameter	Ø250mm	Ø350mm	Ø450mm	Ø620mm	Ø120mm
Max. turning height	200mm	250mm	250mm	350mm	100mm
Spindle motor	7.5/11kW	15/22kW	15/22kW	37/45kW	5.5/7.5kW
Spindle speed	30~4000min-1	30~4000min <sup>-1</sup>	30~2500min-1	30~2100min-1	30~4000min-1
Floor dimension	2400x2200mm	2800x2620mm	4000x3500mm	5000x3700mm	2200x2200mm
Machine height	2800mm	2900mm	3500mm	3500mm	2310mm

#### **HV Vertical Turning Lathe With Inverted Spindle Lathe Series**



#### A HV320

HV320					
Inverted Spindle Lathe (OP1)	Vertical Turning Lathe(OP2)				
Ø12"	Ø12"				
Ø500mm	Ø500mm				
Ø350mm	Ø350mm				
250mm	250mm				
18.5/22kW	18.5/22kW				
Horizontal	<ul> <li>Horizontal</li> </ul>				
A2-8	A2-8				
30~4000min <sup>-1</sup>	50~2100min-1				
4400x36	4400x3670mm				
3345r	3345mm				
	Inverted Spindle Lathe (OP1) Ø12" Ø500mm Ø350mm 250mm 18.5/22kW Horizontal A2-8 30~4000min <sup>-1</sup> 4400x36				

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#### **Series**







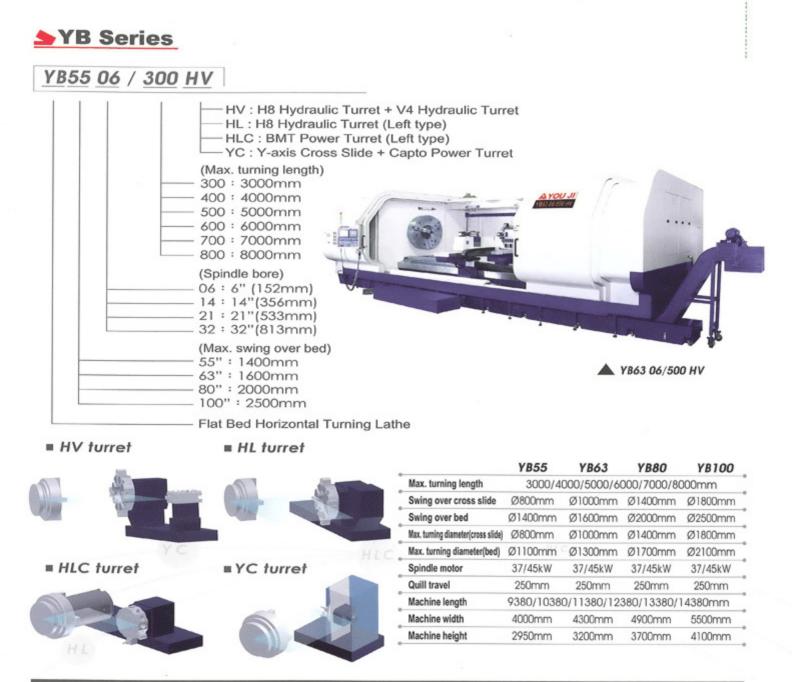
2000/3000/4000mm

**YH60** 

	YH15	YH20	YH21	YH28	YH36	YH50	YH60
Chuck diameter	Ø6"	Ø8"	Ø8°	Ø10"	Ø15"	Ø18"	Ø24"
Max. swing diameter	Ø250mm	Ø560mm	Ø560mm	Ø680mm	Ø720mm	Ø800mm	Ø900mm
Max. turning diameter	Ø190mm	Ø415mm	Ø415mm	Ø430mm	Ø600mm	Ø680mm	Ø720mm
Bar capacity	Ø42mm	Ø52mm	Ø52mm	Ø75mm	Ø90mm	Ø115 mm	Ø152 mm
Spindle motor	7.5/11 kW	11/15 kW	9/11 kW	18.5/22 kW	30/37 kW	37/45 kW	37/45 kW
Turret type	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Spindle nose	A2-5	A2-6	A2-6	A2-8	A2-11	A2-11	A2-15
Spindle speed	40~4500min <sup>-1</sup>	40~4000min-1	40~4000min-1	40~3000min-1	25~2000min <sup>-1</sup>	25~1500min-1	25~900min-1
Machine length	2780mm	3520mm	3520mm	3680~4180mm	5020~7770mm	5580~8700mm	7730~9730mm
Machine width	1440mm	1695mm	1680mm	1750~1940mm	2270~2460mm	2270~2505mm	2505mm
Machine height	1670mm	1685mm	1685mm	2010mm	2300mm	2320mm	2600mm
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#### CNC Horizontal Turning Lathe YH / YB Series



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NO	Spindle diameter	pindle diameter Spindle speed		Spindle nose	Spindle nose Spindle bore	Max. loading	Optional(hollow)		
NO	spinale diameter	spindle	speed	spindle nose	spindle bore	weight	4 jaws manual chuck	3 jaws hydraulic chuck	
		1~150					610(24")	610	
1	Ø220	150~350	3 steps	A2-15	Ø152(6'')	10000kg	710(28")	800	
4		350~1000		a set and the set of t		torran and a second	813(32")	-	
		1~150				12000kg	813(32")	-	
2	Ø457.2	150~350	3 steps	A2-20	Ø356(14")		915(36")	-	
		350~400	100000000000000000000000000000000000000		10000000000000000000000000000000000000		1000(40")	-	
		1~35					1000(40")	-	
3	Ø580	35~85	3 steps	Ø600	Ø533(21")	14000kg	1250(49")	-	
_		85~250		Contrast Contrast			1400(55")	-	
		1~35				15000kg	1400(55")	-	
4	4 Ø901.7	35~85	3 steps	Ø900	Ø813(32")		1600(63")	-	
		85~160					1800(71")	-	

Unit : mm





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#### **>VM/VMC/VTM/VLM Series**



	VM85-25	VM110-25	VM135-25
X-axis travel	460mm	620mm	900mm
Y-axis travel	600mm	600mm	700mm
Z-axis travel	600mm	600mm	700mm
Spindle nose to table	100~700mm	100~700mm	100~800mm
Max. loading weight	800kg	800kg	1200kg
Spindle speed	6000min <sup>-1</sup>	6000min <sup>-1</sup>	4500min-1
Spindle taper	BT-40	BT-40	BT-50
Table dimension	1000x550mm	1260x550mm	1650x700mm
Floor dimension	3470x2330mm	3875x2465mm	4100x3800mm
Machine height	3030mm	3030mm	3090mm
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A VMC1350

	VMC850	VMC1100	VMC1350	VMC1600	VTM850	VTM1100	VLM850	VLM1100
X-axis travel	850mm	1100mm	1350mm	1500mm	850mm	1100mm	850mm	1100mm
Y-axis travel	600mm	600mm	700mm	800mm	600mm	600mm	600mm	600mm
Z-axis travel	600mm	600mm	700mm	700mm	600mm	600mm	600mm	600mm
Spindle nose to table	100~7	700mm	110~810mm	200~900mm	100~7	00mm	100~7	00mm
Spindle speed	8000min <sup>-1</sup>	8000min <sup>-1</sup>	4500min <sup>-1</sup>	4500min <sup>-1</sup>	8000min <sup>-1</sup>	8000min <sup>-1</sup>	8000min <sup>-1</sup>	8000min <sup>-1</sup>
Spindle taper	BT-40	BT-40	BT-50	BT-50	BT-40	BT-40	BT-40	BT-40
Table dimension	1000x550mm	1260x550mm	1500x650mm	1700x815mm	1000x550mm	1260x550mm	1000x550mm	1260x550mm
Floor dimension	2515x3780mm	2515x4180mm	2785x4660mm	3800x5760mm	2515x3780mm	2515x4180mm	2515x3780mm	2515x4180mm
Machine height	3030mm	3030mm	3300mm	3320mm	3030mm	3030mm	3030mm	3030mm
	X-axi	s/Y-axis/Z-axis	: Box guide	way	and a second	inear guide way ox guide way		axis/Z-axis : guide way



(700x450mm)

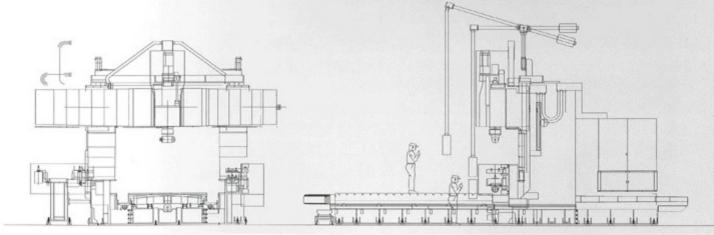
(Ø550mm)

#### **CNC Vertical Machining Center** VM / VMC / VTM / VLM / GMC / MCR Series

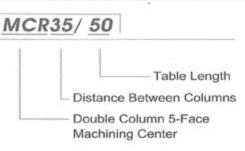
#### GMC Series (Gantry Type Machining Center)



MCR Series (Double Column 5-Face Machining Center)



	MCR25/40	MCR35/50	MCR42/60
Table dimension	4000x2000mm	5000x2500mm	6000x3300mm
Distance between columns	2500mm	3500mm	4200mm
X-axis travel	4200mm	5200mm	6200mm
Y-axis travel	2900mm	3900mm	4600mm
Z-axis travel	700mm	700mm	700mm
W-axis travel	1100mm	1100mm	1500mm
Spindle speed	3500min <sup>-1</sup>	3500min <sup>-1</sup>	3500min <sup>-1</sup>
Max. loading weight	20000kg	30000kg	40000kg
Floor dimension	12500x8000mm	14000x9000mm	17000x10000mm
Machine height	7600mm	7600mm	8000mm







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#### **<u><b>YM**</u> Series



	YM30	YM40
X-axis travel	500mm	600mm
Y-axis travel	500mm	500mm
Z-axis travel	500mm	500mm
Spindle speed	10000min <sup>-1</sup>	10000min-1
Number of tools	24pcs	24pcs
Max. tool length	250mm	300mm
Spindle taper	BT-30	BT-40
Spindle motor	3.7/5.5kW	7.5/11kW
Table dimension	500x400mm	500x500mm
Floor dimension	3055x1300mm	4758x1890mm
Machine height	2320mm	2770mm

#### **HMC Series**

#### HMC500BP

— B : B-axis Rotary Table

BP : B-axis Rotary Table + Automatic Pallet Changer Machine Model : 500,630,800,1000,1200,1600,2000,2500 Horizontal Machining Center



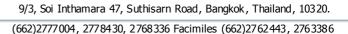


#### Swing Table

# 

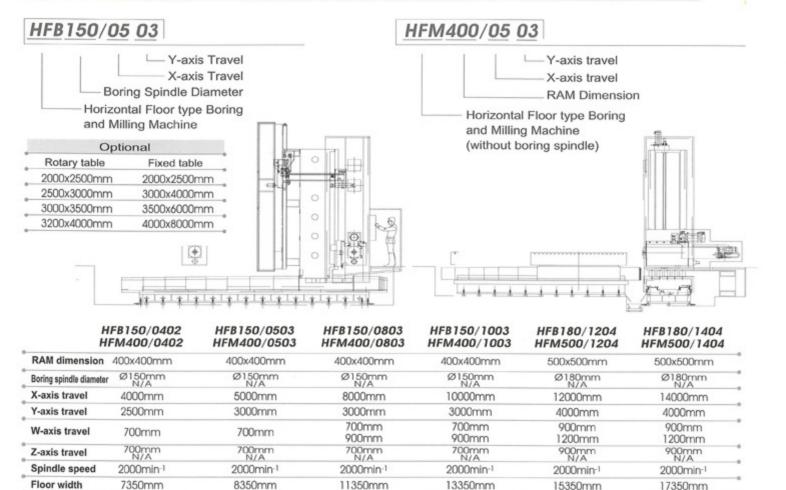
Shuttle type APC

	HMC500	HMC630	HMC800	HMC1000	HMC1200	HMC1600	HMC2000	HMC2500
X-axis travel	800mm	1050mm	1300mm	1500mm	1800mm	2200mm	3200mm	3400mm
Y-axis travel	800mm	800mm	1000mm	1000mm	1500mm	1500mm	1800mm	1800mm
Z-axis travel	800mm	1000mm	1200mm	1200mm	1500mm	1500mm	1500mm	2000mm
W-axis travel	N/A	N/A	N/A	600mm	700mm	700mm	700mm	700mm
Max. loading weigh	t 500kg	1,000kg	2,000kg	3,000kg	5,000kg	8,000kg	10,000kg	15,000kg
Spindle speed	8000min <sup>-1</sup>	8000min <sup>-1</sup>	6000min-1	3500min <sup>-1</sup>	3500min-1	3500min <sup>-1</sup>	3500min <sup>-1</sup>	3500min-1
Spindle taper	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle motor	15/18.5kW	15/18.5kW	22/26kW	22/26kW	22/26kW	30/37kW	30/37kW	30/37kW
Table dimension	500x500mm	630x630mm	800x800mm	1200x1000mm	1400x1200mm	1600x1600mm	2200x1800mm	2600x2200mm
Floor dimension	4000x3600mm	4500x3970mm	5250x4460mm	5600x4720mm	5870x5120mm	6830x5350mm	7000x6280mm	9670x6720mm
Machine height	3100mm	3100mm	3660mm	3660mm	4560mm	4560mm	4660mm	4780mm



#### CNC Horizontal Machining Center

#### HFB/HFM Series (Horizontal Floor Type Boring and Milling Machine)



#### HBM Series (Quill Type Horizontal Machining Center)

6350mm

2200x1800mm

8070x6380mm

4500mm

HBM1600 BP

6350mm

1600x1600mm

7045x5350mm

4400mm

Machine height

**Table dimension** 

Floor dimension

Machine height

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B : B-axis Rotary Table BP : B-axis Rotary Table + Automatic Pallet Changer Machine Model : 1600,2000,2500 Quill type Horizontal Machining Center HBM1600 HBM2000 HBM2500 Quill diameter Ø130mm Ø130mm Ø130mm X-axis travel 2200mm 3200mm 3400mm Y-axis travel 1500mm 1800mm 1800mm Z-axis travel 1500mm 1500mm 2000mm HBM1600BP W-axis travel 700mm 700mm 700mm Spindle speed 3000min-1 3000min-1 3000min-1

2600x2200mm

8570x7080mm

5200mm

6350mm

6350mm

7350mm

7350mm



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#### **Section:** Section 2017 Section



	YHW36
Chuck diameter	Ø15"solid
Max. swing diameter	Ø740mm
Max. turning diameter	Ø620mm
X-axis travel	320+50mm
Z-axis travel	760mm
Spindle speed	25-2500min <sup>-1</sup>
Turret type	Horizontal
Floor dimension	4800x2325mm
Machine height	2200mm







	WHM600		
X-axis travel	800mm		
Y-axis travel	700mm		
W-axis travel	500mm		
Spindle speed	8000min <sup>-1</sup>		
Max. tool length	260mm		
Spindle taper	BT-40		
Floor dimension	4560x2960mm		
Machine height	3345mm		

	WV550E	WV600E
Chuck diameter	Ø18"	Ø24"
Max. swing diameter	Ø750mm	Ø900mm
Max. turning diameter	Ø650mm	Ø700mm
Max. turning height	250mm	350mm
Spindle motor	18.5/22kW	18.5/22kW
Turret type	Vertical	Vertical
Spindle nose	A2-11	A2-11
Spindle speed	20-2000min <sup>-1</sup>	20-1500min-1
Floor dimension	3300x2430mm	3350x2200mm
Machine height	3600mm	3600mm

A WV600E



#### CNC Special Purpose Machine YHW / WHM / WV Series



	WV550E2T	WV600E2T
Chuck diameter	Ø18"	Ø24"
Max. swing diameter	Ø750mm	Ø900mm
Max. turning diameter	Ø650mm	Ø700mm
Max. turning height	250mm	350mm
Spindle motor	37/45kW	60/75kW
Turret type	Vertical	Vertical
Spindle nose	A2-11	A2-11
Spindle speed	20-2000rpm	20-1500rpm
Floor dimension	3900x2900mm	4350x3000mm
Machine height	3600mm	3600mm

#### NC Special Purpose Machine







#### **Product Range**

CNC Vertical Turning Lathe
 CNC Horizontal Turning Lathe
 CNC Vertical Machining Center
 NC Special Purpose Machine
 Automatic Production Line

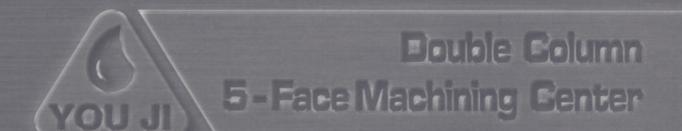


#### You Ji Machine Industrial Company Limited

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#### Distributor









#### Machine Features

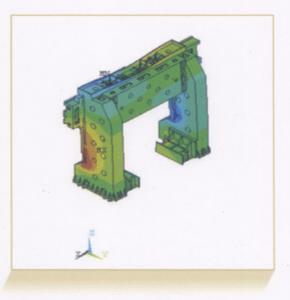
- Bridge type structure of this machine has high rigidity ensuring the best precision under heavy cutting conditions.
- The castings are made of high grade cast iron and are heat treated and stress relieved. The box type structure design allows high stability under heavy cutting conditions
- The crossrail can be moved up and down independently without any positioning stop, allowing higher work-pieces to ensure the best machining accuracy.
- Powerful hydraulic clamping devices on the both sides of crossrail ensure high accuracy under all kinds of heavy cutting conditions
- X-axis has roller type re-circulating linear guide ways. This design greatly increases speed in rapid traverse and rigidity.

- The spindle is fitted with a 350×350mm square RAM allowing the spindle rigidity to support heavy cutting.
- Vertical and horizontal spindle is designed for Automatic attachment changer (AAC) to provide high rigidity and multi-face machining.
- Spindle is designed for thermal stability by utilizing a spindle oil temperature control system.
- Design of 60 tool magazine provides 500mm max. tool length.
- The easy-to-use operation panel swivels 90° for operator convenience and ease of use. The remote manual pulse generator makes it very convenient to set-up the machine and pick up tool and work offsets.

The entire structure has been thoroughly analyzed and designed by Autodesk Inventor software, to provide an optimum foundation for high rigidity, maximum loading of work-piece and heavy-duty cutting.

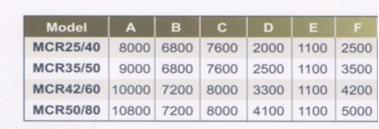








MCR series

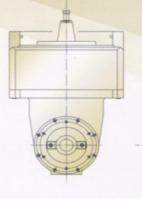




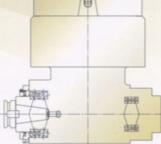
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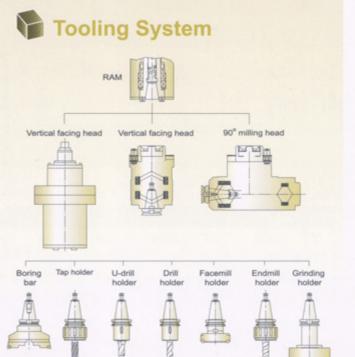
#### Automatic Attachment Changer

AAC device can be fitted with 90° milling head (5° indexing) to do 5-face machining for high precision and complicated work-pieces.

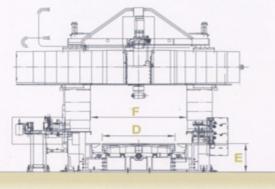


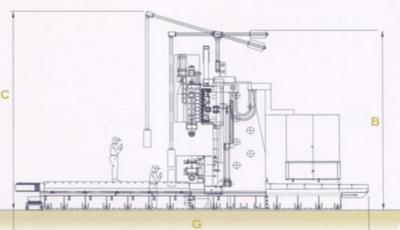






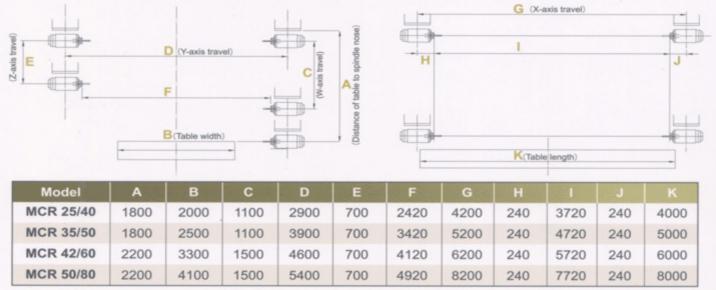
# Machine Layout Dimension







#### 🍞 Y-axis Machining Range 🦙 X-axis Machining Range



Unitimm

#### **Standard Accessories**

- FANUC 18i-M controller
- Spindle oil cooler
- Spindle air blast system
- Telescopic way covers for X/Y/W axis
- Linear scales for X/Y/Z/W axis
- Automatic attachment changer
- Protection cover for ATC
- 60 tools ATC
- Rigid tapping
- Steel belt type chip conveyor ( and chip bucket )
- Maintenance ladder
- Pendent control
- Oil skimmer
- Signal tower (3 stage)
- Working lamp
- Tool box

#### **Machine Description**

#### MCR 25/40



Table length Distance between columns Double column 5-face machining center

#### Optional Accessories

- SIEMENS 840D controller
- 80, 120 tools ATC
- Tool shank, pull stud
- Scraper type chip conveyor
- Coolant cooler
- Tool presetter
- 90° milling head

#### Application

Automobile forming mould

Plastic injection mould

Machinery parts

Aerospace parts



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Specification	Unit	MCR 25/40	MCR 35/50	MCR 42/60	MCR 50/80
Table					
Table dimension (length x width)	mm	4000 x 2000	5000 x 2500	6000 x 3300	8000 x 4100
Dimension of T-slots	mm	28 x 250 x 16	28 x 250 x 20	28 x 250 x 26	28 x 250 x 26
Max. loading weight	kg	20,000	30,000	40,000	50,000
Axis travel					
X-axis travel (Table)	mm	4,200	5,200	6,200	8,200
Y-axis travel (Carriage)	mm	2,900	3,900	4,600	5,400
Z-axis travel (Head stock)	mm	700	700	700	700
W-axis travel (Cross-rail)	mm	1,100	1,100	1,500	1,500
Distance (table to spindle nose)	mm	1,800	1,800	2,200	2,200
Distance between columns	mm	2,500	3,500	4,200	5,000
Spindle					
Max. spindle speed	min-1	3,500	3,500	3,500	3,500
Spindle taper		No.50 (BT, SK, CAT)	No.50 (BT, SK, CAT)	No.50 (BT, SK, CAT)	No.50 (BT, SK, CAT
Spindle bearing diameter	mm	Ø110	Ø110	Ø110	Ø110
RAM dimension	mm	<u></u> 350	350	350	350
Automatic tool changer			and the second		
No. of tools		60	60	60	60
Max. tool weight	kg	20	20	20	20
Max. tool diameter/adjacent	mm	Ø125 (MaxØ250)	Ø125 (MaxØ250)	Ø125 (MaxØ250)	Ø125 (MaxØ250)
Max. tool length	mm	500	500	500	500
Rapid traverse		and the second second second	Contraction of the second	States and the states	
X-axis rapid traverse	m/min	10	10	10	10
Y-axis rapid traverse	m/min	10	10	10	10
Z-axis rapid traverse	m/min	10	10	10	10
W-axis rapid traverse	m/min	3	3	3	3
Cutting feed rate	mm/min	1~10,000	1~10,000	1~10,000	1~10,000
Manual feed rate	mm/min	0~3,600	0~3,600	0~3,600	0~3,600
CNC controller			FANUC 18i-M	The second second second	
Motor					
Spindle motor	kW	37/45 ( a 40i)	37/45 ( a 40i)	37/45 ( a 40i)	37/45 ( a 40i)
X-axis servo motor	kW	6 ( a 40i)	6 ( a 40i)	6 ( a 40i)	6 ( a 40i)
Y-axis servo motor	kW	6 ( a 40i)	6 ( a 40i)	6 (α 40i)	6 (α 40i)
Z-axis servo motor	kW	6 ( a 40i)	6 ( a 40i)	6 ( a 40i)	6 ( a 40i)
W-axis servo motor	kW	6 ( a 40i) x 2	6 ( a 40i) x 2	6 ( a 40i) x 2	6 ( a 40i) x 2
Coolant pump	kW	1.5	1.5	1.5	1.5
Power capacity	KVA	95	. 95	95	95
Tank capacity	No. of Concession, Name				30
Lubrication tank	L	8	8	8	8
Coolant tank	L	800	900	900	900
Machine dimension	Contract.	000	500	500	900
Machine height	mm	7,600	7,600	8.000	8.000
Floor dimension		12,500 x 8,000		8,000	8,000
	mm		14,000 x 9,000	17,000 x 10,000	19,000 x 10,800
Machine weight	kg	50,000	55,000	65,000	78,000

Specification is subject to change without prior notice



#### You Ji Machine Industrial Company Limited

No. 2-1, 2nd Lane, Hua-Kuang Road, Jwu-Hu Vill, Lu-Jwu Hsiang, Kaohsiung Hsien, Taiwan. TEL: 886-7-6983068 (REP.) FAX: 886-7-6983071 http://www.youji.com E-mail: youji@ms15.hinet.net Distributor



## YOUJI





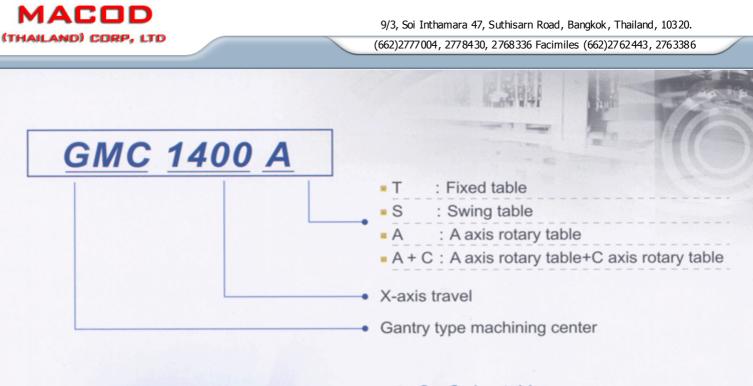
GMC series

#### Gantry type machining center features :

- This machine is designed with a movable crossrail beam and fixed table. This strong design allows heavy working parts to be loaded on the fixed table, reliable high accuracy is assured under all cutting conditions. High rapid movement of the axis is obtained with this special machine design.
- The box type design is used on the machine base which is made of high grade Meenhanite cast iron, it minimizes the cutting vibration during high speed, and ensures the machining stability
- The slideways are fitted with high rigidity roller type linear guide way, this design greatly increases the speed in rapid traverse and rigidity.
- Y-axis slideways is driven by twin drive simultaneously to provide the maximum cutting feed rate.
- Machine type (A, A+C, S, T table) can be selected depending on the production requirements and meet the different of applications.

Machine Layout

Machine Structure



T : Fixed table

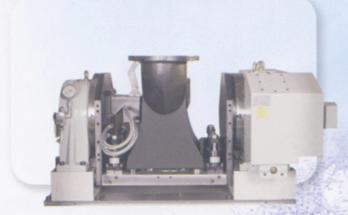


3 axes machine with fixed table design is suitable for mould machining



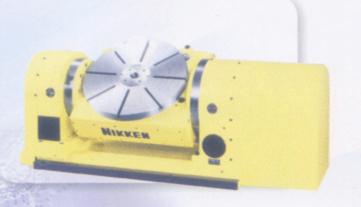
It provides fast work-piece changing to save the time of loading & unloading and reduces the machining cost

#### A : A axis rotary table



It increases the machining capacity to meet the customer's requirement

#### A+C : A axis rotary table+C axis rotary table



It is suitable for aerospace parts machining and achieves the best machining precision MACOD (THAILAND) CORP, LTD

YOU JI

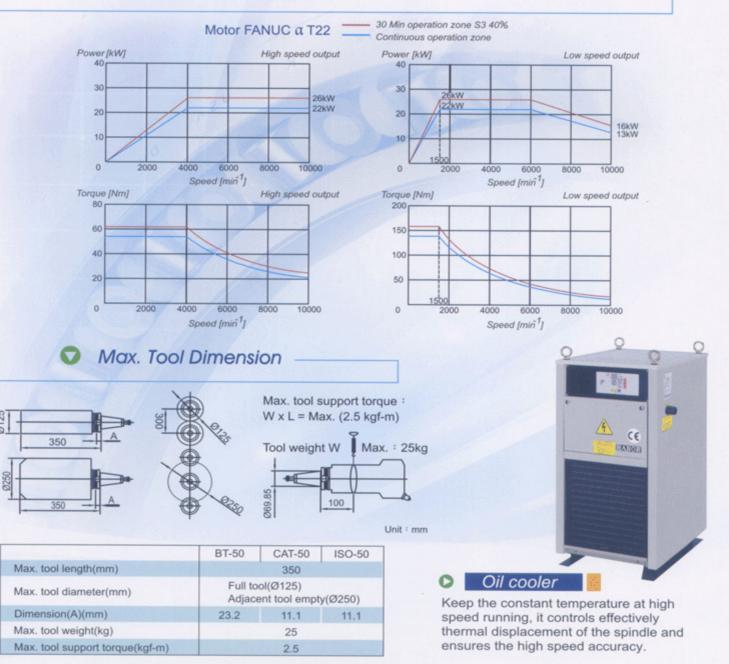
**GMC** series

9/3, Soi Inthamara 47, Suthisarn Road, Bangkok, Thailand, 10320. (662)2777004, 2778430, 2768336 Facimiles (662)2762443, 2763386

#### Advantage for high rigidity coupling transmission

- Disperse the heat transmitted to the spindle
- High rigidity and heavy construction
- Less breakdown and ease of design
- · Ease of maintenance and the cost saving

#### 🖸 Torque Diagram





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Double walled structure

#### Roller type linear guide way

0

All slideways have roller type re-circulating high precision linear guide way. This design greatly increases speed in rapid traverse and rigidity.

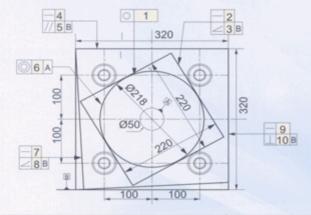
#### High precision slideways

Y-axis slideways is driven by twin drive simultaneously to provide the maximum cutting feed rate

C



#### Machining Accuracy (Part material: Cast iron)



NO	ITEM	JIS standard		
1	Roundness	0.02		
2	Straightness	0.015		
3	Gradient	0.02		
4	Straightness	0.015		
5	Parallelism	0.02		
6	Concentricity	0.025		
7	Straightness	0.015		
8	Gradient	. 0.02		
9	Straightness	0.015		
10	Squareness	0.02		
Unit : mm				



The box type design is used on the machine base which is made of high grade Meenhanite cast iron,it minimizes the cutting vibration during high speed, and ensures the machining stability

#### O Dynamic ball bar test

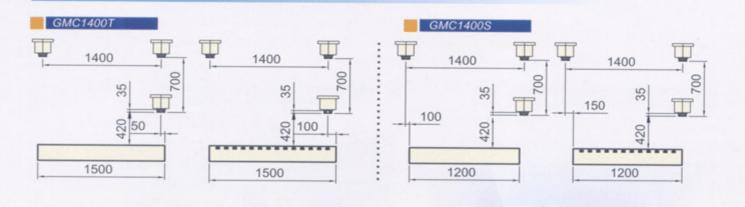




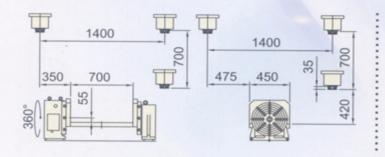
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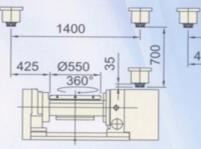
#### GMC series GMC 1400 Machining Range

YOU JI

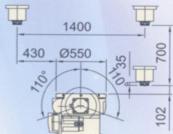


GMC1400A

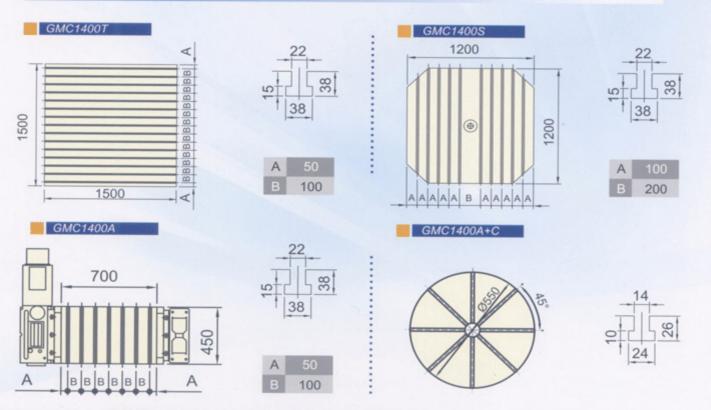




GMC1400A+C



#### GMC 1400 Table Dimension

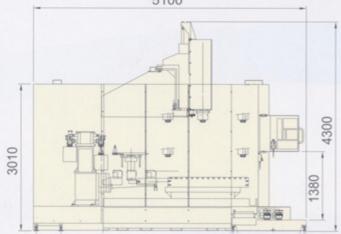




#### Machine Specifications

ITEM	UNIT Specification			Standard Accessories				
Model		GMC1400T	GMC1400S	GMC1400A	GMC1400A+C	FANUC 18i-M controller		
Table dimension (length x width)	mm	1500 x1500	1200 x1200	700 x 450	Ø550	Steel belt type chip conveyor		
Dimension of T-slot	mm	22 x 100 x 15	22 x 100 x 10	22 x 100 x 7	14 x 45° x 8			
Travel						Coolant unit		
X-axis travel	mm		1	400		Coolant cooler		
Y-axis travel	mm		1-	400		Hydraulic unit		
Z-axis travel	mm		7	00		Completed full guarding		
Distance from table surface to spindle nose	mm		420	~1120	102~802	Pressure relief automatic lubrication system		
Distance between columns	mm		2	100				
Spindle						Protection covers for slideways		
Max. spindle speed	min <sup>-1</sup>		10	,000		Tool box		
Spindle taper			В	T50		Signal tower ( 3-stage )		
Spindle bearing inner diameter	mm		Ø	100		Working lamp		
ATC								
Number of tools				32		Optional Accessories		
Max. tool weight	kg		25					
Max. tool diameter	mm	Ø125	5 ( adjacent to	ol empty Max	Ø250)	SIEMENS 840D controller		
Max. tool length	mm		350			Linear scales for X,Y,Z-axis(Fagor)		
Feed rate						Linear scales for X,Y,Z-axis(Heidenhain)		
X-axis rapid traverse	m/min			30		Coolant through spindle system		
Y-axis rapid traverse	m/min		30		Scraper type chip conveyor			
Z-axis rapid traverse	m/min			20				
Cutting feed rate	mm/min	1~12,000		Coolant system around the spindle				
Manual feed rate	mm/min		0~	3600		Oil skimmer		
Motor						Coolant gun		
Spindle motor	kW		22/26 ( α1	22/10000i)		Paper filter		
X-axis servo motor	kW		4.0 (α22/3000i)		40,60,80,120 tools ATC			
Y-axis servo motor	kW	4.0 (α22/3000i)						
Z-axis servo motor	kW		7.5 ( α3	0/3000i )		90° milling head		
Coolant pump	kW		1	1,5		Spindle air blast system		
Power capacity	ower capacity KVA 60		Air conditioner for electrical cabinet					
Tank capacity						Oil mist collector		
Lubrication tank	L	8						
Coolant tank	L	1050		Work-piece probe				
Machine dimension						Tool presetter		
Machine height	mm		4	300		Transformer		
Floor dimension	mm	3950×5100		Rigid tapping				
Machine weight	kg		20	,000		CE Mark		

#### Machine Layout Dimension



Specification is subject to change without prior notice

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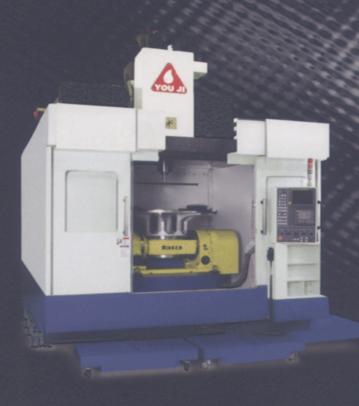
Door interlock





#### **Product Range**

- CNC Vertical Turning Lathe
   CNC Horizontal Turning Lathe
   CNC Vertical Machining Center
  - CNC Horizontal Machining Center
     NCSpecial Purpose Machine Automatic Production Line





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## 



#### 油機工業累積豐富的技術與經驗,向無限的未來挑戰。 We have accumulated plenty of technologies and experiences and we will accept challenges in the future.



自動送料二路單能機
 Single Spindle Auto Loader Turning Machine



二路單能機
 2nd Single Spindle Auto Turning Machine



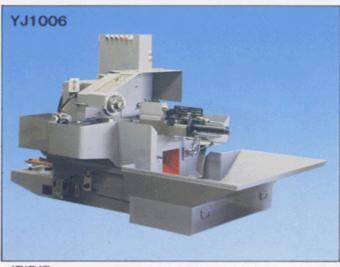
 三路單能機 3rd Single Spindle Auto Turning Machine



一路單能機
 1st. Single Spindle Auto Turning Machine



 外徑精加工機 Outer Diameter Precision Processing Machine



• 切満機 Thread Cutting Machine

承製各種單能機、專用機、高精度、高品質、最值得您的信賴。

ur various kinds of single spindle automatic turning machines with high precision and quality are worthy of your reliance.

#### 精密油壓單能機車床、標準機械規格表:

STANDARD SPECIFICATION OF HYDRAULIC SINGLE SPINDLE AUTO TURNING MACHINE

	NO. YJ1001	NO YJ1002	NO. YJ1003	
主軸頭中心高度 Spindle center height	230mm	230mm / 260mm	230mm / 260mm	
主 軸 頭 Spindle Dia	∳ 60mm	∳ 80mm / ∳ 100mm	∳ 80mm / ∳ 100mm	
第一刀台Nol Tool Holder	SB16-50-60x180R	SB21-63-60x250R	SB21-63-60x250R	
滑 台 第二刀台No2 Tool Holder	SB-16-50-60x180L	SB21-63-60x250L	SB21-63-60x250L	
Slide Unit 第三刀台 No3 Tool Holder			SB21-S63-60x150	
中心尾座 Tail stock	TS 16-63-200A	TS16-63-300A	TS16-63-300A	
油 壓 夾 頭 Hydranlic chuck	6 ″×3 爪	8″×3爪 / 10″×3爪 <sub>claw</sub>	8″×3Л(/10″×3Л( claw	
最大夾持範圍 Maximum	20mm~165mm	20mm~210mm(260mm)	20mm~210mm (260mm)	
最大切削旋徑 Maximum cutting Diameter	¢ 100mm	¢ 450mm	¢ 450mm	
主 軸 馬 達 Spindle	5HP 4P	5HP 4P	5HP 4P	
主軸回轉數 Spindle motor	4P 1268 4P 1018	4P 1145 4P 766	4P 1145 4P 766	
主 軸 軸 承 Spindle bearing	圓錐滾子軸承 taper roller bearing	圓錐滾子軸承 taper roller bearing	圓錐滾子軸承 taper roller bearin	
回 轉 汽 缸 rotary cylinder	Y1020RN	Y1225RN	Y1225RN	
油 壓 馬 達 Hydranlic motor	2HP	2HP	2HP	
切削油馬達 Collant motor	1/2HP	1/2HP	1/2HP	
寬、深、高(重) Width、Depth、Height(kg)	1100×2000×2000(1500kg)	1100×2200×1200 (1900kg)	1100×2200×2000 (2200kg)	
進刀路徑 Standard motor of every slide				
加工能力 Machining Ability	自動送料收料裝置(with A 車端面、車内外徑、車F (End sunface - Inner and outer d		3)	





#### 強力提昇加工作業的省力合理化。 Reasonably save labor in processing operation.



立式搪孔機
 Vertical Boring Machine



• 等份鉆孔機 Uniform Drilling Machine



二路搪孔機
 2nd Boring Machine



切斷機
 Cutting Machine



五路四軸搪孔扣環機
 5th Four-Spindle Boring Retainer Ring Machine



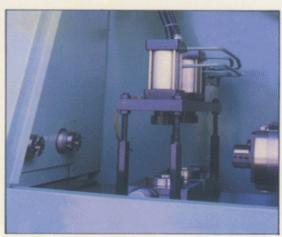
五順壓床
 5 tons Press



#### 徹底追求實現高速度、高精度的加工。 Pursuing processing of high speed and high precision.



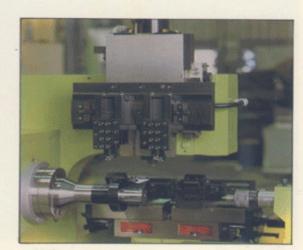
 一路四軸搪孔、扣環機 1st. Four-Spindle Boring Retainer Ring Machine



•特寫 A part of YJ1013



 馬達外殻加工機 Motor Shell Processing Machine



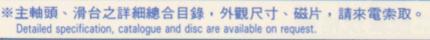
•特寫 A part of YJ1014



 八等份轉盤專用機 Rotary transfer machine



#### 尖端科技的結晶省力自動化機械及組件大突破 Automatic Machines and Components-A Combination of Experience and Technology





\* You Ji reserve the right to alter any specification without prior notice in the interest of product development.

營業項目	. CNC立式車床	專用機	鉆・	搪孔機	主軸頭
	·CNC臥式車床	單能機	攻	牙機	滑 台

Business Scope: CNC vertical lathe, Special Purpose machine, Drilling machine, Berer main shaft head CNC horizontal lathe, Single function machine, Tapping machine, Sliding table