

SINCERITY

QUALITY·SERVICE

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WINNY

Total Machining Solutions

From the planning stage to Production

- Process identification
- Fixture development & interface
- Automation Solutions
- Complete proveout

MACHINING CENTER

WINNY MACHINERY CHINA

- Drill tap machining center
- Vertical machining center
- Horizontal machining center
- Gantry machining center



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*Note: Due to the continuous improvement of our products, the data in the catalog may change, according to the technical agreement at the time of ordering

Professional manufacturer of
CNC machine tools

CAREFUL, PRECISE, PRECISE AND PRECISE

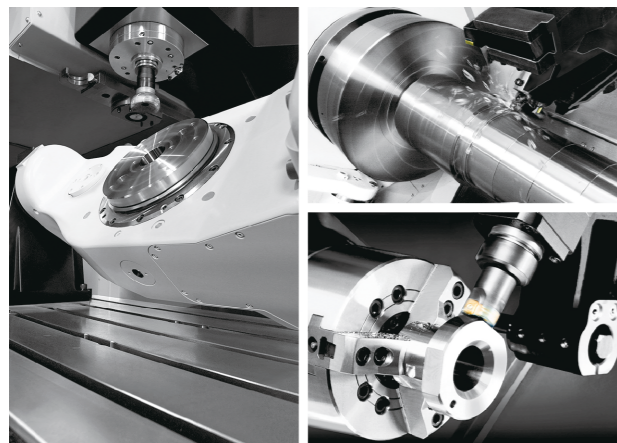
A⁺ INTELLIGENT MANUFACTURING



• WHY US?

WINNY MACHINERY Your reliable partner for various CNC machine tool manufacturer.

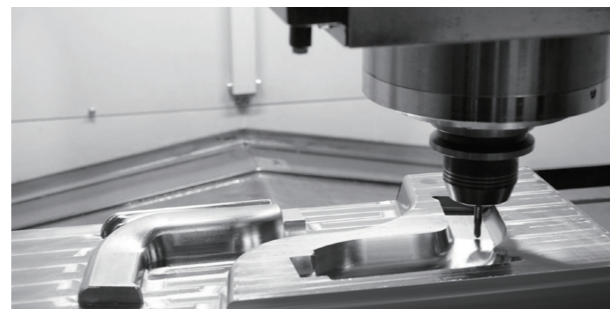
For over 15 years, WINNY lathes have been and will continue to be a standard for quality, longevity, and capability. Whether your needs call for high volume production or holding tight tolerances, WINNY offers a complete range of SUPER-PRECISION and General Performance CNC turning centers, we deliver value driven customer experience by providing solutions with leading edge technologies in metalworking fields.



• HOW WE DO?

WINNY MACHINERY focus on Research and Development, manufacturing of precision CNC machines:

- Lathe machines
- Turning center
- Turn-mill
- Milling machines
- 3 axis 4 axis and 5 axis machining center
- Special purpose machines.

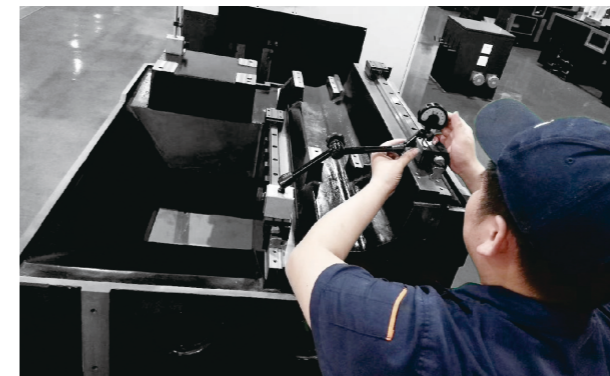


WINNY always embracing newer technologies in turning and milling, providing application solutions to every facet of metalworking industry, support customer achieving accelerated growth.

• WHERE WE STAND?

WINNY MACHINERY is an ISO9001 certified company, one of China's high-tech machine tool group, established with three factories located in Jiangsu province and Zhejiang province, apart from WINNY'S own production, WINNY MACHINERY cooperates with many machine tool companies.

Extensive network with more than 20 years' experience of marketing and service, products are sold well in China and abroad, widely used in automotive, aerospace, construction, defense, energy, general engr, medical, railways etc.





FORGE AHEAD

TECHNOLOGY AND DEVELOPMENT



Dedicated Teams Focusing on –
 Product Development Electronics R&D Mechanical R&D Application
 Performance Analysis Electrical R&D Upgradation

OUR HONOR



100%

Providing application solutions with leading edge technologies in metalworking fields.



Automotive



Aerospace



Construction



Defense



Energy



General Engr



Medical



Railways

FIRST-CLASS PROCESSING EQUIPMENT TO ENSURE HIGH QUALITY AND PRECISION





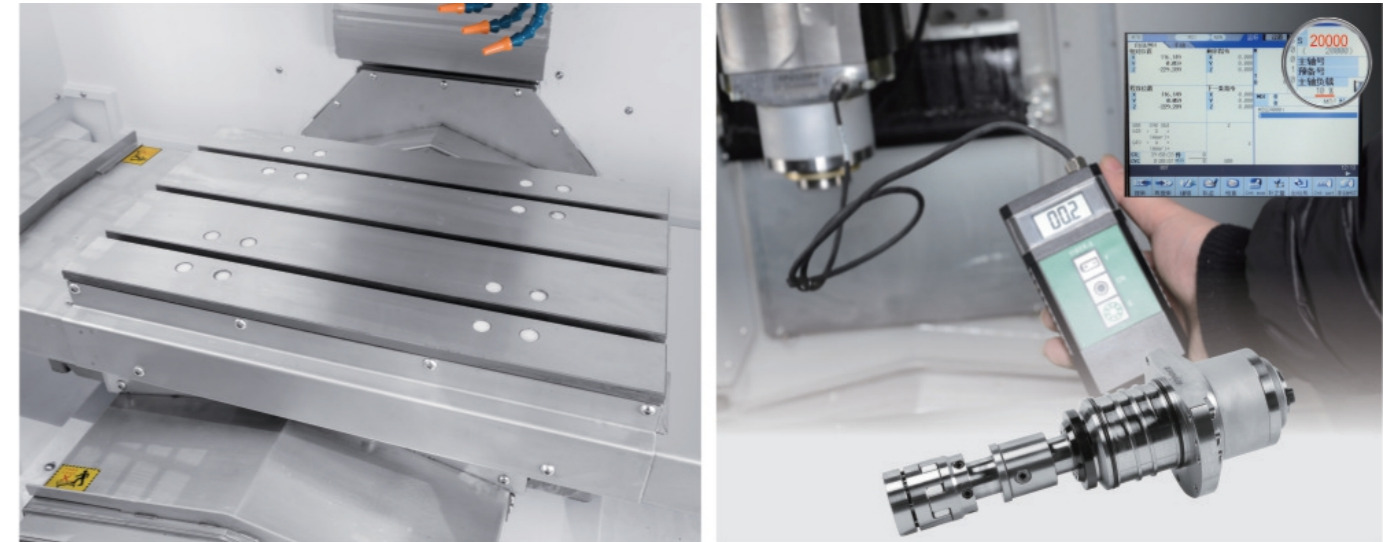
- Direct drive spindle
- Higher speed 20000RPM
- Servo indexing disc armless ATC
- High rapids 48 Meters for X/Y/Z
- Shorter cycle time
- Compact size

TV Series drill and tap machining center

Highly engineered machine structure manufactured from grey cast iron, heavily ribbed throughout to ensure high overall rigidity and thermal stability.

Wide variety of high speed and high-power spindle, excellent ability in milling, drilling and tapping.

Suitable for 3C products, medical parts, small precision parts, outstanding advantage of small threaded holes



SPECIFICATION		TV-600(H)	TV-750(H)	TV-800(H)	TV-1000(H)
Travels					
Stroke X/Y/Z	mm	600/400/320(600)	750/400/320(600)	800/500/500(800)	1000/500/500(800)
Dist. From spindle face to table top	mm	150-470(750)	150-470(750)	120-620	120-620
Dist. From spindle center to column	mm	425	425	570	570
Table					
Table size	mm	700x420	700x420	1000x500	1000x500
T-slot. NxWxP	mm	14x3x125	14x3x125	18x5x90	18x5x90
Max load on table	kg	280	280	400	400
Spindle					
Spindle drive type	-	Direct drive	Direct drive	Direct drive	Direct drive
Spindle speed (std)	rpm	20000	20000	20000	20000
Spindle speed (option)	rpm	12000/15000/24000	12000/15000/24000	12000/15000/24000	12000/15000/24000
Spindle nose taper	-	BT-30	BT-30	BT-30	BT-30
Spindle bearing lubrication	-	Grease lubricated	Grease lubricated	Grease lubricated	Grease lubricated
Spindle cooling	-	Air-cooling / Oil-cooling	Air-cooling / Oil-cooling	Air-cooling / Oil-cooling	Air-cooling / Oil-cooling
Axes and Feed					
Width of guideway	mm	30/30/30	30/30/30	30/30/30	30/30/30
Ball screw Dia X/Y/Z	mm	φ 28/ φ 28/ φ 32	φ 28/ φ 28/ φ 32	φ 32/ φ 32/ φ 32	φ 32/ φ 32/ φ 32
Ball screw pitch X/Y/Z	mm	P=12/16	P=12/16	P=12/16	P=12/16
Rapid for X/Y/Z	m/min	48/48/48	48/48/48	48/48/48	48/48/48
Accuracy					
Positioning for X/Y/Z	mm	±0.005	±0.005	±0.005	±0.005
Repeatability for X/Y/Z	mm	±0.003	±0.003	±0.003	±0.003
Installation data-machine					
Chip conveyor	-	Rear mounted	Rear mounted	Rear mounted	Rear mounted
Machine height	mm	2236±10	2236±10	2480	2480
Machine length and width	mm	2050×1800	2200×1800	2720×2450	2720×2650
Machine weight	kg	3000	3000	5200	5500
Auto tool change (ATC)					
Number of tools. STD/OPT	pcs	16/21	16/21	16/21	16/21
ATC type	-	Armless	Armless	Armless	Armless
Tool shank type	-	BT-30	BT-30	BT-30	BT-30
Tool Diameter Max	mm	φ 60/ φ 80	φ 60/ φ 80	φ 60/ φ 80	φ 60/ φ 80
Tool Length Max	mm	200	200	200	200
ATC indexing	-	Bi-directional	Bi-directional	Bi-directional	Bi-directional
Tool weight Max	kgs	2kg / 3kg		2kg / 3kg	
Tool to tool time	sec	1.4 (Set with 2KG of tool weight)		1.4 (Set with 2KG of tool weight)	

All specifications are subject to change without prior notice



- Higher Speed Spindle (direct drive)
- Fully enclosed ATC
- Heavy duty linear guide ways for all axes
- Centralized lubrication system
- Pre-tension ball screw support
- Pitch error Compensation Laser calibration



MV Series Vertical Machining Centers

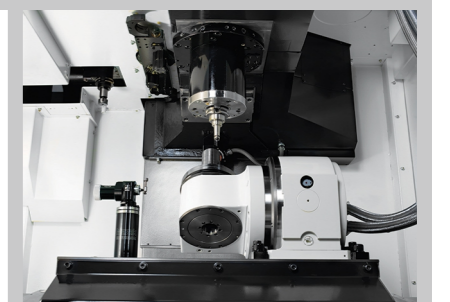
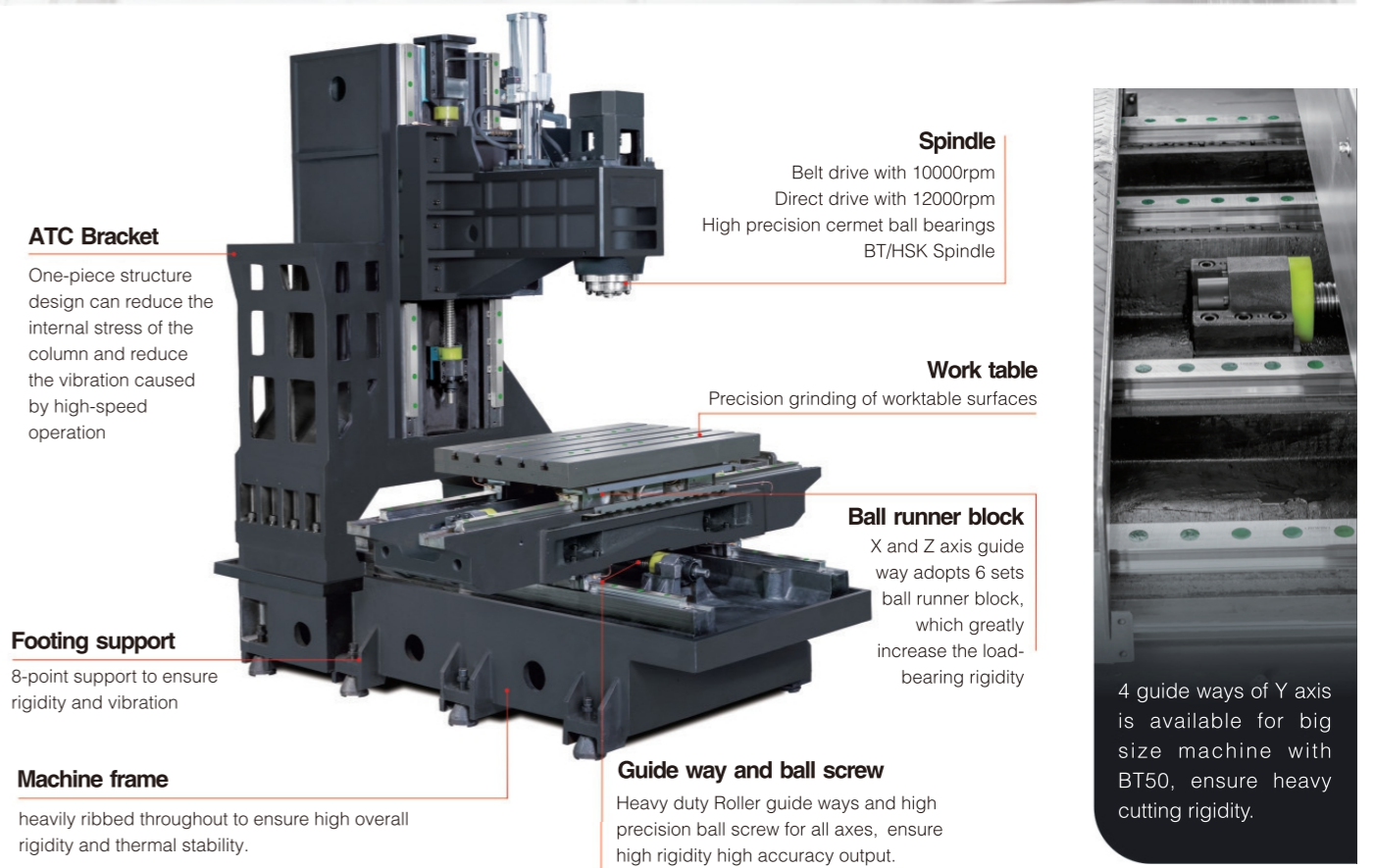
These machines have structural components made of cast iron which are machined to provide and retain high built-in accuracies. heavily ribbed throughout to ensure high overall rigidity and thermal stability. Equipped with a high rigid, high speed spindle, designed for a wide range of applications, maintenance friendliness, optimum job loading height, easy access to the spindle, ease of chip removal.

The high precision laser unit is applied for inspecting accuracy and ball bar tester to inspect the geometric error and ensures superior circular accuracy through parameter adjustment. All machines are subject to cutting tests which are combined with proper parameter adjustments to guarantee the best possible cutting quality.



FULLY ENCLOSED ATC

ensure stability and tool cleanliness, automatically switching tool change time according to tool weight to improve efficiency yet ensure stability.



SPECIFICATION TABLE for MV series

SPECIFICATION		MV-850(H)	MV-1050(H)	MV-860	MV-900(H)	MV-1160(H)	MV-1270(H)	MV-1300	MV-1500
Travels									
Stroke X/Y/Z	mm	800x500x500(800)	1000x 500x 500(800)	860x560x600	900x700x600(900)	1100x650x600(900)	1200x700x600(900)	1300x700(800)x700	1500x800x700
Dist. From spindle face to table top	mm	120-620(920)	120-620(920)	100-700	120-720(1020)	120-720(1020)	120-720(1020)	150-850	150-850
Dist. From spindle center to column	mm	570	570	610	690	690	690	755(855)	855
Feed									
Rapid for X/Y/Z	m/min	30/30/30(48/48/48)	30/30/30(48/48/48)	30/30/30	30/30/24	30/30/24	30/30/24	20/20/20	20/20/20
Cutting feed	Mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
Feed motor power (X/Y/Z)	Kw	2/2/3	2/2/3	2/2/3	3/3/3	3/3/3	3/3/3	3/3/3(4.5/4.5/4.5)	4.5/4.5/4.5
Worktable									
Table size	mm	1000x500	1000x500	1000x560	1000x600	1350x650	1350x650	1400x700(1500x800)	1700x800
T-slot. WxNxP	mm	18x5x90	18x5x90	18x5x90	18x5x100	18x5x100	18x5x100	18x5x130(18x7x110)	18x7x110
Max load on table	kg	400	400	500	800	1000	1000	1300	1500
Spindle									
Spindle drive type	-	Direct/Belt	Direct/Belt	Direct/Belt	Direct/Belt	Direct/Belt	Direct/Belt	Direct/Belt	Direct/Belt
Spindle motor (30 MIN/CONT)	Kw	7.5/11	7.5/11	7.5/11	11/15	11/15	11/15	15/18.5	15/18.5
Spindle speed	rpm	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000	10000(6000)	6000
Spindle nose taper	-	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40(BT-50)	BT-50
Accuracy									
Positioning for X/Y/Z	mm	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005	±0.01	±0.01
Repeatability for X/Y/Z	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.006	±0.006
Auto tool change (ATC)									
ATC type	-	Arm ATC	Arm ATC	Arm ATC	Arm ATC	Arm ATC	Arm ATC	Arm ATC	Arm ATC
Number of tools	-	24	24	24	24	24	24	24	24
Tool Dia Max(with adjacent tool empty)	mm	Ø78/ Ø 120	Ø78/ Ø 120	Ø78/ Ø 120	Ø78/ Ø 120	Ø78/ Ø 120	Ø78/Ø120	Ø78/Ø120(Ø112/Ø200)	Ø112/Ø200
Tool Length Max	Mm	300	300	300	300	300	300	300	300
Tool weight Max	kg	8	8	8	8	8	8	8(15)	15
Tool to tool time	sec	2	2	2	2	2	2	2(4)	4
Others									
Power supply	Kva	20	20	20	28	28	28	35	40
Pneumatic supply	Kg/m ²	6	6	6	6	6	6	6	6
Coolant tank capacity	L	180	180	180	200	260	260	280	280
Machine weight	kg	5200	5600	5600	6800	7800	8200	9500(11000)	12000
Overall machine dimension (LxWxH)	mm	Front chip conveyor:2380x3780x2480 Rear coolant tank:2720x2450x2480	Front chip conveyor:2380x3980x2480 Rear coolant tank:2720x2650x2480	Front chip conveyor:2430x3780x2480 Rear coolant tank:2890x2570x2480	Front chip conveyor:2430x3780x2480 Rear coolant tank:2890x2570x2480	Front chip conveyor:2800x4480x2650 Rear coolant tank:3200x3350x2650	Front chip conveyor:2800x4480x2650 Rear coolant tank:3200x3350x2650	Front chip conveyor:3650x4800x3800	Front chip conveyor:3850x5200x3800

Standard features

- Programable Spindle air blowing
- Independent electrical cabinet
- Air gun and coolant gun
- Full guarding
- Coolant system
- Centralized lubrication
- Air tank
- USB port
- Oil skimmer
- LED work light
- Three titer indication lamp
- 24 tools ATC
- RJ45 Port
- Leveling feet, anchor bolts
- 10.4 Inch colored LED monitor
- MPG (Manual pulse generator)
- Memory cards and card readers

Optional features

- Coolant through spindle (CTS)
- FANUC/SIEMENS/MITSUBISHI
- Auto door
- Rotary table (4 or 5 axis)
- High speed Spindle 15000rpm
- Tool breakage detection
- Chain type chip conveyor,
- Oil mister collector
- Tooling up solutions

CONTROLLER

FANUC Oi-MF plus

MITSUBISHI M80

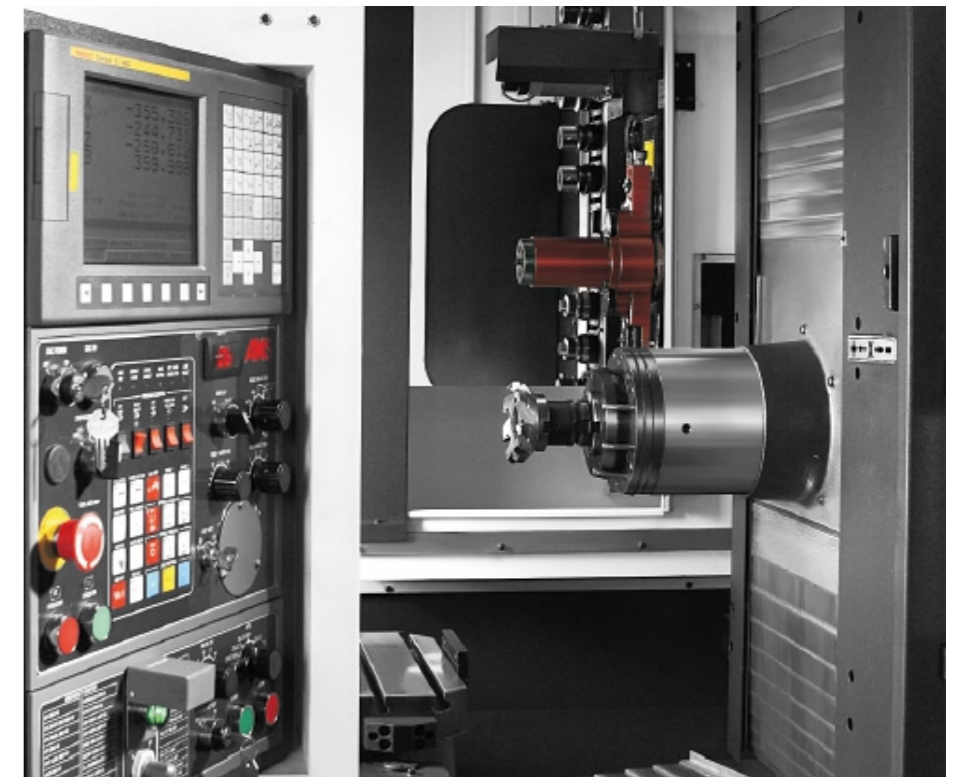
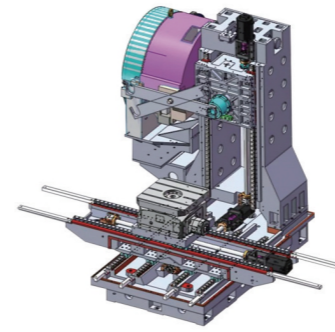
SIEMENS 828D



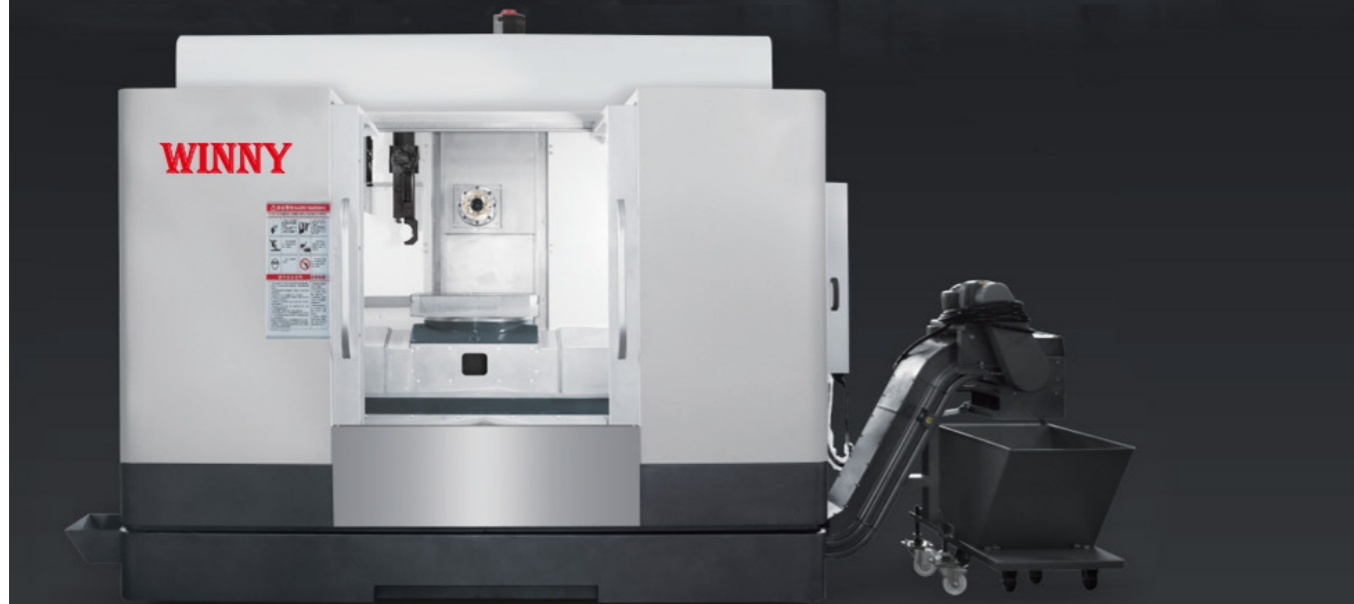
HM Column moving series



HW table moving structure



- BT50 tool shank spindle
- 24/30 tool ATC
- Heavy duty linear guide ways for all axes
- Centralized lubrication system
- Rigid tapping
- Pitch error Compensation Laser calibration

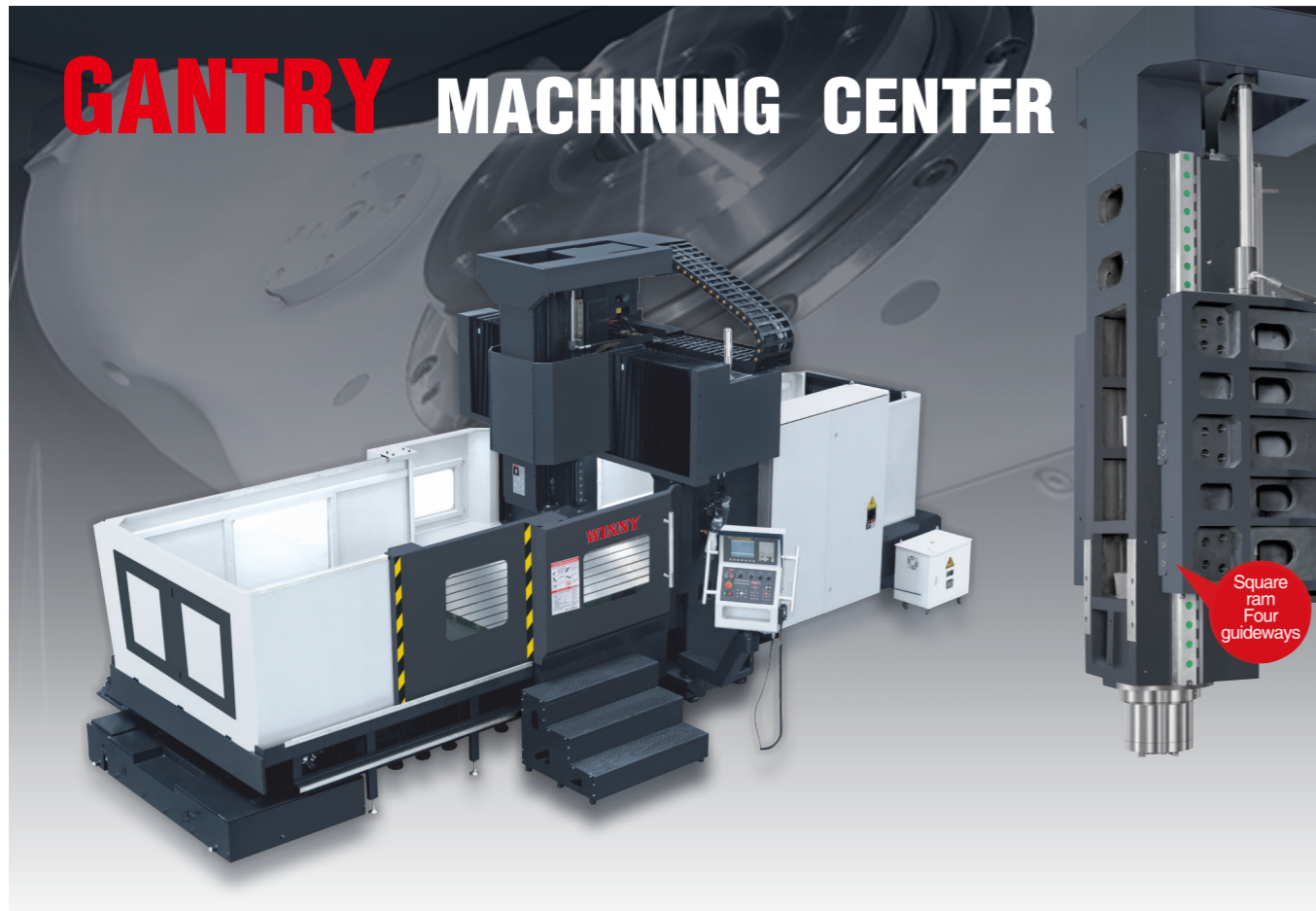


HM/HW horizontal machining center

Both column moving and table moving are available, casting is ribbed for rigidity, thermally stress relieved to prevent deformation, the rigid one-piece casting is designed to yield excellent static and dynamic performance.

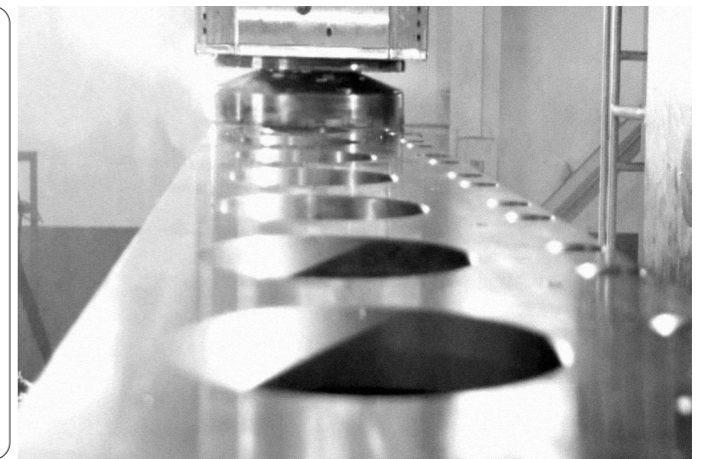
Equipped with a high rigid, high speed spindle, designed for a wide range of applications, maintenance friendliness, optimum job loading height, easy access to the spindle, ease of chip removal.

SPECIFICATION	UNIT	HM-630	HM-800	HM-1000	HW-630	HW-800
Table size	mm	630x700	800x800	1000x1000	630x630	800x800
Number of indexing position	-	1°x360(0.001°)	1°x360(0.001°)	1°x360(0.001°)	1°x360(0.001°)	1°x360(0.001°)
Table drive ratio	-	1:180	1:180	1:180	1:180	1:180
Max load on table	kg	1200	2000	2500	1500	2500
Spindle center to table	mm	120~870	120~1120	120~1120	50~850	-250~700
Table center to spindle face	mm	130~1030	200~1200	200~1200	0~700	220~1020
Max workpiece swing dia	mm	Ø900	Ø1830	Ø1830	Ø850	Ø1100
Longitudinal travel (X axis)	mm	1050	1600	1600	1100	1500
Headstock travel (Y axis)	mm	750	1000	1000	800	950
Cross travel (Z axis)	mm	900	1000	1000	700	800
Max spindle speed	Rpm	6000	6000	6000	6000	6000
Spindle nose	-	BT50/Ø190	BT50/Ø190	BT50/Ø190	BT50/Ø190	BT50/Ø190
Cutting feed	m/min	10~6000	10~6000	10~6000	10~10000	10~10000
Rapid travel for X Y Z	Mm/min	24000	24000	24000	24000	24000
Spindle power (30 MIN/CONT)	Kw	15/18.5	18.5/22	18.5/22	15/18.5	18.5/22
Positioning accuracy as per JIS	mm	±0.015	±0.015	±0.015	±0.015	±0.015
Repeatability as per JIS	mm	±0.01	±0.01	±0.01	±0.01	±0.01
Number of tools	-	24/30	24/30	24/30	24/30	24/30
CNC Controller	-	FANUC Oi-MF plus	FANUC Oi-MF plus	FANUC Oi-MF plus	FANUC Oi-MF plus	FANUC Oi-MF plus
Pneumatic supply	Kg/m ²	6	6	6	6	6
Power supply	Kva	50/60	50/60	50/60	50/60	50/60
Machine weight	kg	13000	18000	21000	9000	13000
Overall machine dimension(LxWxH)	mm	4670x 3200 x 3600	4700x 4100 x 3950	4760x 4250 x 4020	4080x 3700 x 3400	4080x 3700 x 3400

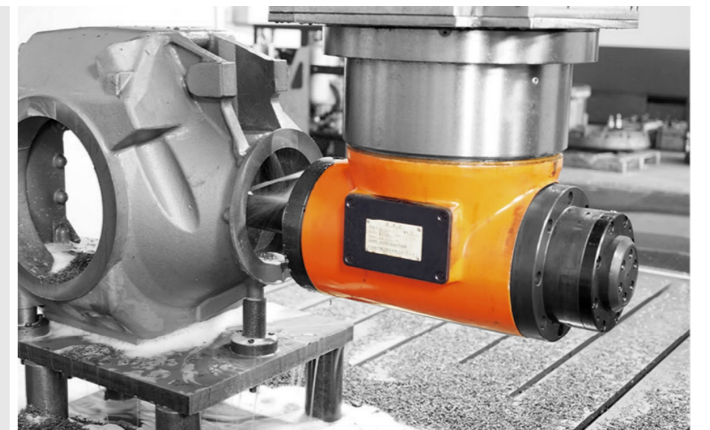


ATC IS AVAILABLE FOR OPTIONAL

NO OF TOOLS:
24/32/40/60/120



- Heavy duty roller guideways for X, Z axis.
- Square ram structure, four roller guideways for Z axis
- Pre-tension ball screw support, High precision, heavy duty
- Nitrogen Balancing system for precise Z AXIS positioning
- Stationary column ensures long-term accuracy and rigidity
- Variety of milling heads to meet various machining demand



OPTION AVAILABLE FOR



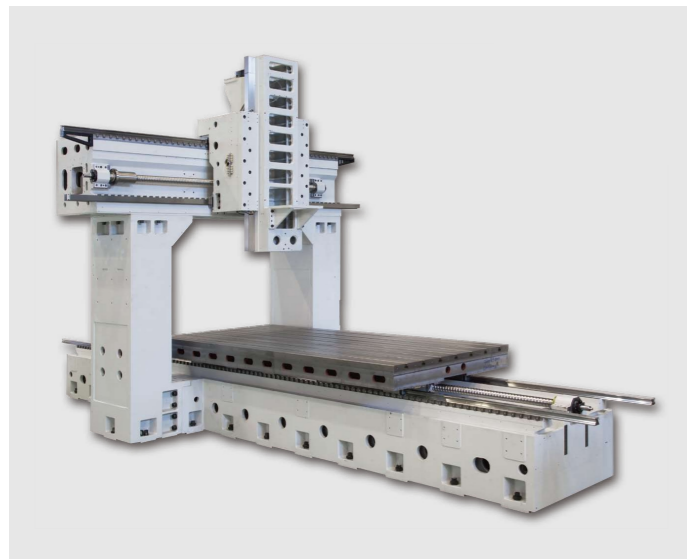
High torque gear reducer



Angular milling head



Two axes milling head



SPECIFICATION	UNIT	GMC-1613	GMC-2216	GMC-2518	GMC-3018	GMC-3022	GMC-4022	GMC-4028	GMC-6542
Axes Travel Stroke									
Stroke for X	mm	1650	2200	2600	3000	3200	4200	4000	6500
Stroke for Y	mm	1350	1600	1800	1800	2200	2200	2800	4200
Stroke for Z	mm	650	800	700	850	1000	1000	1000	1250
Dist. From spindle face to table top	mm	150-800	150-950	150-850	200-1050	200-1200	200-1200	200-1200	250-1500
Work Table									
Distance between columns	mm	1350	1650	1850	1850	2200	2200	2800	4200
Dist. From table to columns	mm	1000	1150	1250	1250	1380	1380	1385	1600
Table size	mm	1600x1100	2200x1300	2600x1600	3000x1600	3200x1800	4000x1800	4000x2100	6000x360
Max. table load	Kg	3500	4000	5000	6000	9000	10000	11000	25000
T-slot WxDxN	mm	22x180x6	22x180x7	22x180x9	22x180x9	22x180x10	22x180x10	22x180x12	22x250x13
Spindle and accuracy									
Spindle motor power	Kg	15/18.5	15/18.5	15/18.5	15/18.5	18.5/22	18.5/22	18.5/22	22/26
Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000/4000
Spindle nose taper	-	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Positioning accuracy	mm	±0.015	±0.015	±0.015	±0.015	±0.15	±0.15	±0.15	±0.15
Repeatability	mm	±0.008	±0.008	±0.008	±0.008	±0.012	±0.012	±0.012	±0.012
Balancing system for Z axis	-	Nitrogen balancing	Nitrogen balancing	Nitrogen balancing	Nitrogen balancing	Nitrogen balancing	Nitrogen balancing	Nitrogen balancing	Nitrogen balancing
Rapid and guideways									
Rapid travel for XY/ Z	m/min	18/18/18	18/18/18	18/18/18	12/15/15	12/15/15	12/15/15	12/12/12	8/10/10
Cutting feed	mm/min	10000	10000	10000	8000	8000	8000	8000	5000
Type of guideway XY	--	Roller type	Roller type	Roller type	Roller type	Roller type	Roller type	Roller type	Roller type
Type of guideway Z	--	Roller type	Roller type	Roller type/box type	Roller type/box type	Roller type/box type	Roller type/box type	Roller type/box type	Roller type/box type
Others									
Power supply	Kva	40	45	45	45	50	50	55	60
Pneumatic supply	Kg/m ²	6	6	6	6	6	6	6	6
Machine weight	KG	13000	18000	20000	23000	28500	33000	38000	90000
Machine Hight	mm	3600	4480	3870	3870	4800	4800	4850	5850
Machine length and width	mm	4800x4000	6500x3650	6500x3650	8000x4050	8500x4600	10500x4600	10500x5200	18000x7000