



WEIDA

山东威达精工

SHANDONG WEIDA PRECISION INTELLIGENT MACHINERY CO., LTD.

产品领先 品牌驱动 全球经营

PRODUCT LEADERSHIP BRAND DRIVEN GLOBAL OPERATION

SHANDONG WEIDA PRECISION
INTELLIGENT MACHINERY CO., LTD.

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Weida Website



Tiktok International



Tiktok China



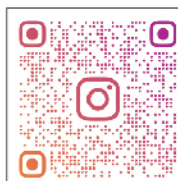
Youtube



LinkedIn



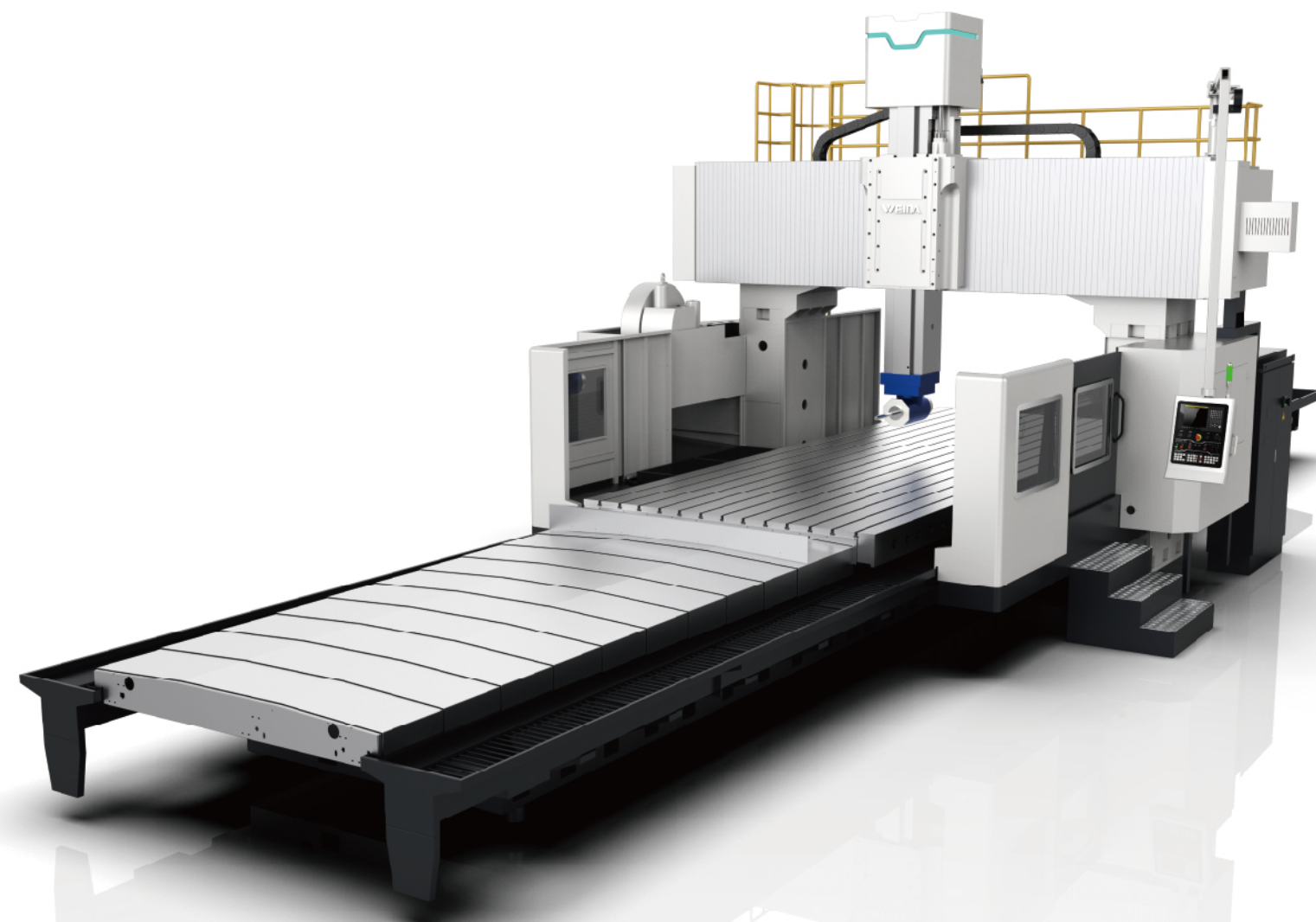
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GANTRY TYPE MACHINING CENTER

2025

30 强 机床工具 TOP 30 MACHINE TOOL

使命 THE MISSION

CREATE VALUE FOR CUSTOMERS
AND DEVELOP WITH THEM

愿景 THE VISION

WE ARE COMMITTED TO
BECOME AN INTERNATIONAL
RESPECTED MACHINE TOOL
MANUFACTURER



真诚合作

SINCERE
COOPERATION



共同发展

MUTUAL
DEVELOPMENT



Company Profile

Situated in the scenic hometown of Mo-tse — Tengzhou city, Shandong Province, Shandong Weida Precision Intelligent Machinery Co., Ltd. is a large-scale joint-stock enterprise with the right of Import&Export. It covers an area of 500,000 m², the building zone is about 350,000 m², and the total assets is more than RMB1 billion, there are 365 engineers, the main processing equipments are imported from Germany Waldrich Corburg guide grinder, Heckert, Heller and DMG horizontal machining center, Japan Okuma, New Japan SNK gantry type five-face boring and milling center, 132 sets of testing and debugging equipment. The company has set up a scientific research achievement transformation base in cooperation with Shandong University, cooperated with Huazhong University of Science and Technology in industry-university research, which composed of Technology research and Development Center, Information Data Processing Center, Product Inspection & Testing Center and Metrology room. In 2022, setting up a horizontal CNC machine tool engineering research center in Shandong Province.



Business Fields

In recent years, through the combination of absorbing advanced technology from abroad, cooperating with scientific research institutes and self-development and design, the main products have developed to 10 series: Automatic production line, Bridge type five-axis gantry machining center series, Gantry type/Vertical/Horizontal machining center series, CNC milling machine series, Horizontal boring and milling machine series, Radial drilling machine series, CNC lathe machine series, Milling/Drilling machine series, altogether more than 90 specifications. With stable capability & reliable quality, the products are widely sold both in home and abroad market, covering more than 70 countries and regions, especially Europe & America market.



Professional Certifications

WEIDA company pursues the quality strategy of creating famous brand and excellent reputation. It has obtained ISO9001:2015 Standard Quality System Certification, ISO14001:2015 Environmental Management System Certification, ISO45001:2018 Occupational Health And Safety Management System Certification from CQC accreditation body; EU "CE" certification; National High-tech Enterprise; Shandong Province "Specialized and Special New" Enterprise; In 2022, we passed the certification of two integration management system.

From 2011 to 2021, we were multiply honored as one of the "Top 10 Export Enterprises in China Machine Tool Industry"; In 2014, the company undertook the Science and Technology Major Special Project of "National High-grade CNC Machine Tools and Basic Manufacturing Equipment"; The XH2130 CNC Gantry Boring and Milling Center and DMC1300 Gantry Machining Center independently designed and developed by WEIDA won the "National Chunyan Award"; it was awarded as one of the Top 30 Enterprises in China Machine Tool Industry for three consecutive years in 2015, 2016 and 2017.



品质&精度

QUALITY ACCURACY

THE RELENTLESS PURSUIT OF QUALITY AND PRECISION IS THE CHARACTERISTICS OF WEIDA AND ITS STAFF

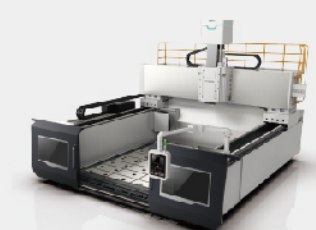


产品展示目录

PRODUCT CATALOGUE



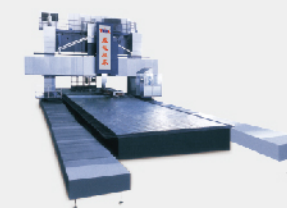
05-06



桥式龙门加工中心系列

Bridge type gantry machining center series

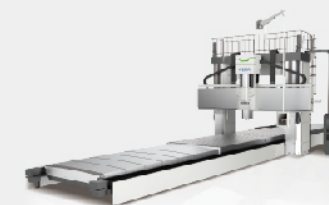
07-08



动梁动柱龙门加工中心系列

Moving beam and column gantry machining center series

09-14



动梁定柱龙门加工中心系列

Moving beam fixed column gantry machining center series

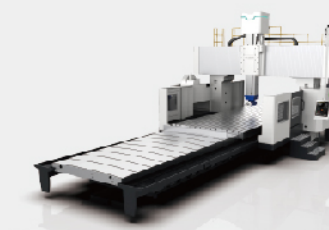
15-18



定梁动柱龙门加工中心系列

Fixed beam moving column gantry machining center series

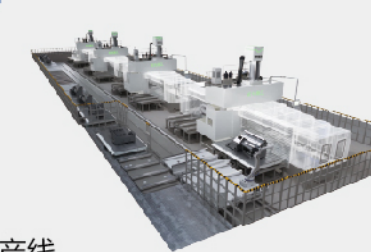
19-28



动工作台龙门加工中心系列

Moving table gantry machining center series

29-30



龙门加工中心柔性产线

Flexible production line with gantry machining center

性能特点 PERFORMANCE

- Suitable for various machining fields such as automobile mold, aerospace, printing, packaging, textile, military industry, etc.
- The floor area of the bridge- type gantry structure is about 56% of the traditional machine which is with table moving.
- Fixed table with double load capacity, and the machining characteristics of the machine tool are not affected by the quality of the workpiece.
- The X-axis of the cross beam is designed with a double column and center of gravity drive structure to improve the stability of machining.
- X, Y axis adopt heavy-duty linear rolling guide way, Z axis square ram box guideway structure.
- The cross beam adopts the combination of vertical orthogonal linear guide and box guide way
- X-axis synchronous dual drive with full closed-loop control to improve accuracy and reliability.
- Three-axis with independent lubrication oil recovery system.
- Balancing cylinders are arranged symmetrically on both sides of the ram, and the Z- axis has a fast response speed.
- The spindle adopts WEIDA two-speed gear box with high output torque.

配置 CONFIGURATION

STANDARD

- FANUC 0i - MF Plus CNC controller
- Spindle temperature control water cooler
- X-axis synchronous dual drive with full closed-loop linear scale
- Double screw type and transverse chain type chip conveyor
- Three-axis with Germany precision planetary reducer

OPTION

- Siemens 828D CNC controller
- Automatic tool measuring system and automatic workpiece measuring system.
- 2Mpa, 5Mpa, 7Mpa CTS
- 24pcs,32pcs,60pcs tool magazine
- Automatic exchange milling head with head magazine, automatic 5° indexing, tooth disc positioning, indexing accuracy ±3°
- Built-in electric spindle unit

Main specifications	Unit	GMC2025b	GMC2232b	GMC2732b	GMC3242b	GMC4252b	GMC42120b
X-axis travel	mm	2500	3200	3200	4200	5200	12200
Y-axis travel	mm	2000	2200	2700	3200	4200	4200
Z-axis travel	mm	1000	1000	1250	1250	1250	1250
Distance from spindle nose to table surface	mm	250-1250	300-1300	300-1550	300-1550	400-1650	400-1650
Distance between two columns	mm	2800	2800	3300	3800	4800	4800
Worktable size	mm	2500X2000	3000X2000	3000X2500	4000X3000	5000X4000	12000X4000
Max.Load of worktable	kg	25000	30000	38000	60000	100000	240000
T-slot (Width-No.-Distance)	mm	28-9-220	28-9-220	28-11-220	28-13-220	36-3-1000 (width) / 36-8-600 (length)	36-3-1000 (width) / 36-8-600 (length)
Spindle taper	--	HSK-A100	BT50	BT50	BT50	BT50	BT50
Max. spindle speed	rpm	15000	3000	3000	3000	3000	3000
Main motor power	kW	18.5/30	22/26	30/37	30/37	30/37	30/37
Spindle torque	N.m	161/216	716/846	1274/1572	1274/1572	1274/1572	1274/1572
Rapid feed speed(X/Y/Z)	mm/min	15000/15000/15000	15000/15000/10000	12000/12000/8000	10000/10000/8000	10000/10000/8000	10000/10000/8000
Cutting feed speed(X/Y/Z)	mm/min	1-12000/1-12000/1-12000	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.015/0.012/0.010	0.018/0.016/0.018	0.018/0.018/0.020	0.023/0.020/0.020	0.028/0.025/0.020	0.065/0.025/0.020
Repeat positioning accuracy(X/Y/Z)	mm	0.012/0.010/0.008	0.014/0.012/0.012	0.014/0.014/0.013	0.016/0.015/0.013	0.020/0.018/0.013	0.055/0.018/0.013
Total power capacity	kVA	70	70	80	80	80	95
Machine weight	kg	32000	48000	52000	62000	80000	142000
Overall dimensions	mm	6200X5200X4800	6350X5350X5500	6350X5850X6120	7550X6450X6120	8500X7800X6120	18800X7800X6120

BRIDGE TYPE HIGH-SPEED GANTRY MACHINING CENTER



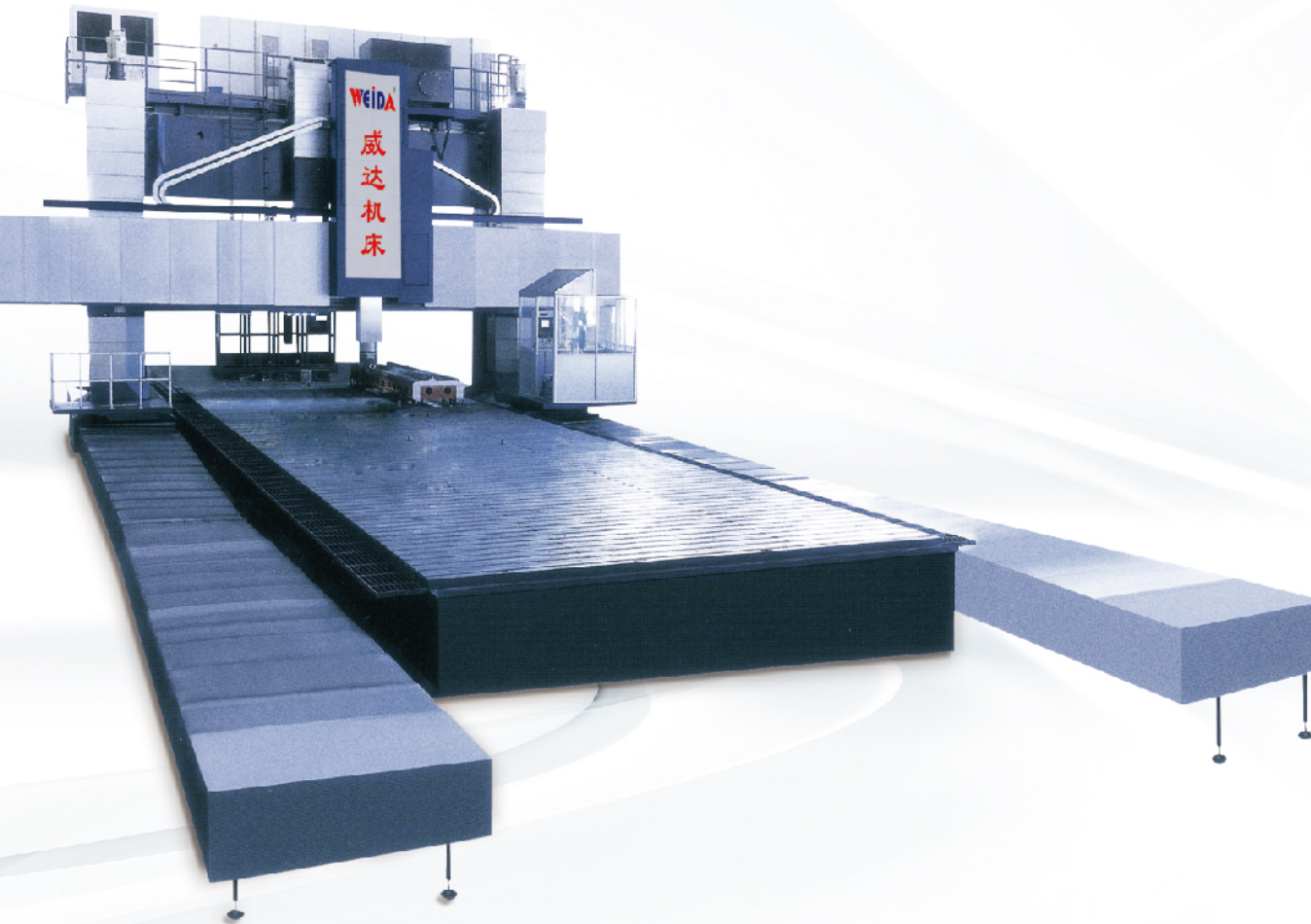
GMC 2232b / GMC 2732b / GMC 3242b

GMC 4252b / GMC 42120b

GMC4252b

BRIDGE TYPE HIGH-SPEED GANTRY MACHINING CENTER

MOVING COLUMN AND BEAM FIVE FACE GANTRY MACHINING CENTER



GMC 40100mm

GMC 40160

GMC40160

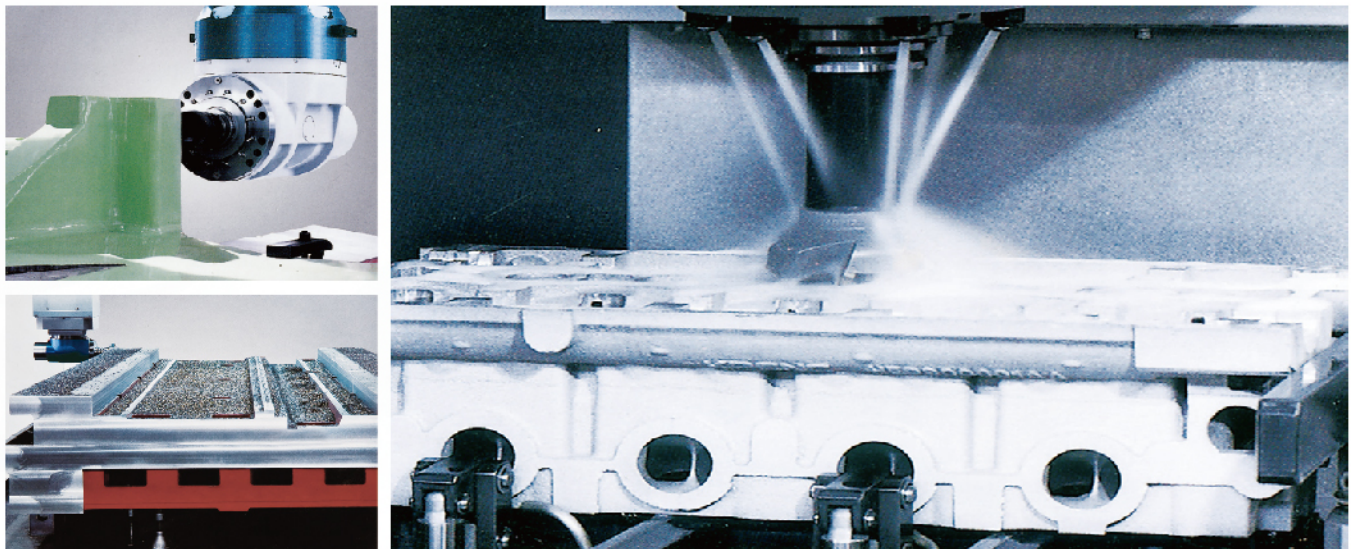
MOVING COLUMN AND BEAM FIVE FACE GANTRY MACHINING CENTER

性能特点 PERFORMANCE

- The basic parts of the machine tool are made of high-quality high-strength castings with a gantry frame structure. The whole machine has good rigidity, shock resistance and precision retention
- Drilling, expanding, reaming, tapping and other processes to realize five-sided processing.
- Especially suitable for processing box parts and miscellaneous parts in industries such as automobiles, aerospace, metallurgy and mining, machine tool manufacturing, etc.

配置 CONFIGURATION

- | STANDARD | OPTION |
|---|--|
| - Siemens one controller | - 40pcs chain type tool magazine |
| - Gearbox full gear transmission | - Auto chip removal system |
| - Z-axis hydraulic balance | - Z,Y axis full closed loop linear scale |
| - X,W axis full closed loop linear scale | - Various automatic milling heads system |
| - Spindle constant temperature cooling system | |



Main specifications	Unit	GMC40100mm	GMC40160
X-axis travel	mm	10600	16600
Y-axis travel	mm	5500	5500
Z-axis travel	mm	1250	1250
W-axis travel	mm	2250	2250
Distance between two columns	mm	5100	5100
Worktable size	mm	10000X4000	16000X4000
Max. load of worktable	T / m ²	15	15
T-slot (Width)	mm	36	36
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	2000	2000
Main motor power	kW	37/51	37/51
Spindle torque	N.m	2300/3170	2300/3170
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/8000/2000	10000/10000/8000/2000
Cutting feed speed(X/Y/Z)	mm/min	1-6000/1-6000/1-6000/1-2000	1-6000/1-6000/1-6000/1-2000
Positioning accuracy(X/Y/Z)	mm	0.055/0.035/0.020	(0.011/1000)/0.035/0.020
Repeat positioning accuracy(X/Y/Z)	mm	0.038/0.028/0.013	(0.008/1000)/0.028/0.013
Total power capacity	kVA	180	180
Machine weight	kg	170000	240000
Overall dimensions	mm	19000X11000X9000	25000X11000X9000

性能特点 PERFORMANCE

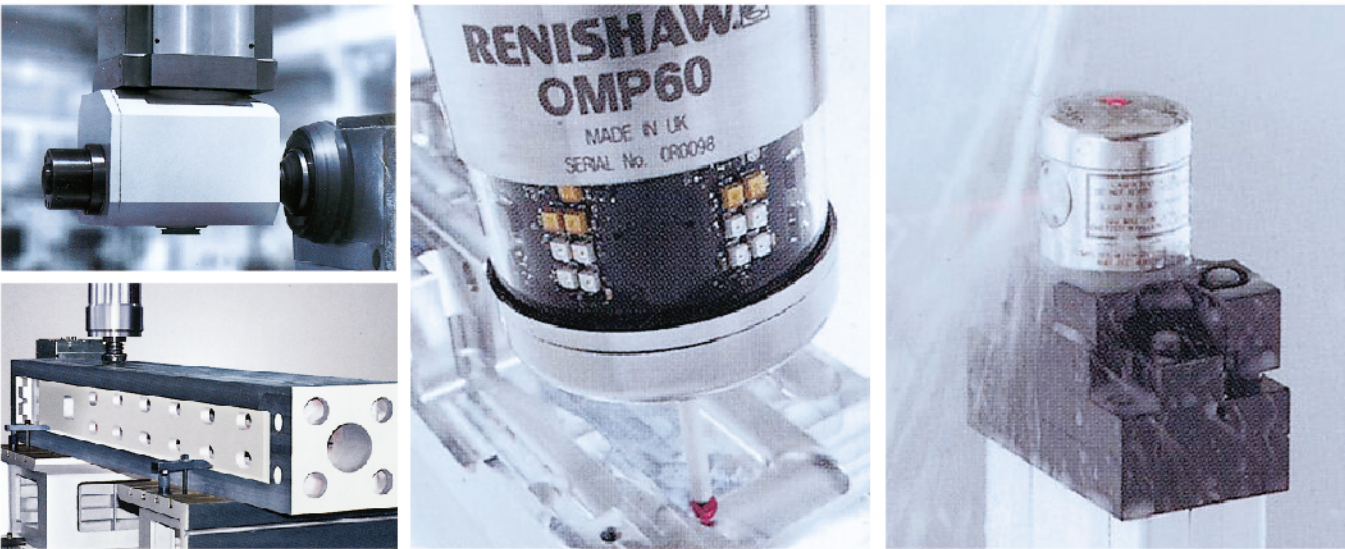
- Machine adopts a square double-column gantry structure. The lower part of column is closely connected with the bed, and the upper part is closely connected with the top beam and the connecting beam to form a closed gantry frame. The bed, column and beam have large cross-sections, large bearing capacity, good rigidity, and high precision retention, it can resist heavy cutting and keep high precision for a long time. The inside span of the gantry is large, W and Z axis travel are long, the passability is good, machining range is wide.
- The machine can be equipped with kinds of auto or manual milling head, five-side processing of parts can be finished automatically in one-time clamping, greatly improve working efficiency and save costs.

配置 CONFIGURATION

- STANDARD

 - Fanuc 31i CNC controller
 - Germany ZF gear box
 - W axis, Z axis hydraulic balance system
 - Automatic chip removal device
- OPTION

 - Siemens one CNC controller
 - Vertical and horizontal servo tool magazine(40T/60T)
 - Full closed linear scale
 - Various automatic milling heads



Main specifications	Unit	GMC3080	GMC30100
X-axis travel	mm	8500	10500
Y-axis travel	mm	5300	5300
Z-axis travel	mm	1200	1200
W-axis travel	mm	2250	2250
Distance from spindle nose to table surface	mm	3600	3600
Worktable size	mm	8000X3000	10000X3000
Max. load of worktable	kg	35000	45000
T-slot (Width-No.-Distance)	mm	36-32-250	36-40-250
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	3000	3000
Main motor power	kW	45/55	45/55
Spindle torque	N.m	2000/2500	2000/2500
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/10000/12000	10000/10000/10000/12000
Cutting feed speed(X/Y/Z)	mm/min	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.045/0.032/0.018	0.055/0.032/0.018
Repeat positioning accuracy(X/Y/Z)	mm	0.035/0.022/0.012	0.045/0.022/0.012
Total power capacity	kVA	90	90
Machine weight	kg	205000	255000
Overall dimensions	mm	26000X10000X9300	28500X10000X9300

MOVING BEAM FIVE FACE GANTRY MACHINING CENTER



GMC 3080

GMC 30100

GMC30100

MOVING BEAM FIVE FACE GANTRY MACHINING CENTER

主要结构特点

MAIN STRUCTURAL FEATURES

- This machine series is with solid double-column structure of fixed gantry frame, moving table and vertical lifting of crossbeam. The lower part of the column closely connects with the bed and the upper part lines with composite beams, which can ensure high precision and high rigidity.
 - The columns and beams are rectangular cross-section with structurally optimised design and reasonable reinforcement for good rigidity, which could withstand heavy cutting but keep high precision in long term.
 - The main parts such as bed, table, column and beam are all made of integrated whole casting structure, Sufficient quantities and thickness of metre rib and reinforcement plate are scattered inside machine bed and column to ensure machine rigidity.
 - All parts are with heat and aging treatment, With second tempering to remove internal stress after rough machining, it can ensure the stability of the machine accuracy and durability.
-
- X-axis guideway adopts ultra-wide roller linear guideway structure, Y/Z/W-axis all adopt rectangular sliding guideway structure.
 - X/Y/Z/W axes are driven by ball screws, X/Y/Z-axis rapid traverse speed can reach 20/20/15m/min.
 - Z-axis adopts double-driven hollow screw structure, high-torque motor directly drives the screw, rapid response; at the same time, the screw is forced to be with coolant, which can effectively suppressing the screw thermal extension and ensure the stability of precision.
-
- It adopts 450mmx450mm square ram structure, with long guideway surface and flexible up and down movement, which can fully withstand the strong cutting of transverse spindle.
 - The main drive adopts two-speed precision high-speed gearbox and direct-connected spindle design, which can run at 6000r/min for a long time.
-
- The Y-axis slide guide is fitted with a device that balances the weight of the saddle ram and the amount of forward tilt, taking into account high rigidity and speed.
-
- Beam lifting (W-axis) is with strong clamping mechanism: beam lifting to the most reasonable machining position and ram extends the shortest, can ensure the rigidity, accuracy and stability, there is six clamping devices on the back of the beam, which adopts lever-type strong clamping structure, to ensure all strong cutting working.

配置

CONFIGURATION

STANDARD

- FANUC Oi MF (1) CNC controller
- Main drive 6000 rpm high speed 2-speed gearbox
- BT50-8000rpm high speed spindle
- Spindle and gearbox constant temperature cooling system
- W axis linear scale
- Double screw & horizontal chain type chip conveyor
- Half protection

OPTION

- Siemens 828D controller
- Fully automatic exchangeable head
- 45° fully automatic universal head
- Tool cooling
- 40pcs/60pcs vertical and horizontal exchange tool magazine
- 40 pcs/60pcs chain tool magazine
- X/Y/Z axis linear scale
- Tool setter, probe
- Double chain type chip conveyor
- Full protection

MOVING BEAM FIXED COLUMN GANTRY MACHINING CENTER



WMC- II 38×100

MOVING BEAM FIXED COLUMN GANTRY MACHINING CENTER



45° fully automatic universal head



Fully automatic interchangeable right angle head

		WMC- II 28				WMC- II 33				WMC- II 38				
Model		28 × 40	28 × 50	28 × 60	28 × 80	33 × 50	33 × 60	33 × 80	33 × 100	38 × 50	38 × 60	38 × 80	38 × 100	38 × 120
Amount of movement														
X-axis travel	mm	4200	5500	6500	8500	5500	6500	8500	10500	5500	6500	8500	10500	12500
Y-axis travel	mm	3450				3950				4450				
Z-axis travel	mm	1000												
W-axis travel	mm	1000				1250				1250				
Distance between two columns	mm	2850				3350				3850				
Distance between table surface and the end face of the spindle	mm	0~1850				0~2100				0~2100				
Worktable														
Wide	mm	2000				2500				3000				
Long	mm	4000	5000	6000	8000	5000	6000	8000	10000	5000	6000	8000	10000	12000
Max. table load	kg	12000	15000	18000	24000	19000	23000	30000	38000	23000	27000	36000	45000	54000
T-slot (Width-Distance-No)	mm	28-200-9				28-200 (180) -13				28-200-15				
Spindle														
Spindle taper		BT50												
Spindle speed	r/min	6000												
Feed speed														
Rapid feed speed	m/min	X:20、Y:20、Z:15												
Cutting feed speed	mm/min	1-10000												
Beam lifting speed	m/min	3												
Machine size														
Length	mm	10390	13000	15000	20000	13000	15000	20000	24000	14000	16000	20000	24000	28000
Width	mm	7200				7700				8200				
Height	mm	7100				7350				7500				
Machine weighgt	kg	50000	55000	60000	70000	65000	70000	80000	90000	75000	90000	105000	120000	135000

性能特点 PERFORMANCE

- It is the preferred processing equipment for engineering machinery, rolling stock, mining equipment, turbines, ships, military, nuclear power, large-scale environmental protection equipment and other industrial sectors.
- The gantry-moving CNC gantry machine belongs to the typical tool-moving machine tool, which has the advantages of fixed quality of moving parts, relatively unlimited weight of the workpiece, small footprint, etc., and it is the mainstream structural form of large-scale machine tools.
- Combined with a variety of cannons and accessories, it can expand the machining range and improve the machining efficiency, realising multi-face and multi-process machining.
- It can realise the alternating machining of multiple working stations, and at the same time, it can also realise the synchronous and efficient machining of oversized workpieces, and achieve the arbitrary switching of multiple machining modes.

配置 CONFIGURATION

- STANDARD

 - Fanuc 0i-MF PLUS CNC controller
 - Spindle gear box
 - X-axis double reading head light linear scales
 - Step type chip conveyor+Elevating chain and flight conveyor
- OPTION

 - Siemens 828D CNC Controller
 - Coolant through spindle
 - Germany ZF gear box/Italy BF gear box
 - Automatic right angle milling head

Main specifications	Unit	GMC40250fmd		GMC40500fmd	
X-axis travel	mm	X ₁ 20000	X ₂ 20000	X ₁ 45000	X ₂ 45000
Y-axis travel	mm	Y ₁ 5500	Y ₂ 5500	Y ₁ 5500	Y ₂ 5500
Z-axis travel	mm	Z ₁ 1500	Z ₂ 1500	Z ₁ 1500	Z ₂ 1500
Distance from spindle nose to table surface	mm	250-1750		250-1750	
Effective passing width of gantry	mm	5100		5100	
Max. distance between two gantries	mm	25600		50600	
Worktable size	mm	25000 × 4000		50000 × 4000	
Max. distance between two gantries	T/m ²	15		15	
T-Slot	mm	36		36	
Spindle taper	--	BT50		BT50	
Max. spindle speed	rpm	3000		3000	
Main motor power	kW	37/45		37/45	
Torque of spindle	N.m	1570/1915		1570/1915	
Ram cross section	mm	500 × 500		500 × 500	
Rapid feed speed (X/Y/Z)	mm/min	8000/8000/8000		8000/8000/8000	
Cutting feed speed (X/Y/Z)	mm/min	1-6000/1-6000/1-6000		1-6000/1-6000/1-6000	
Positioning accuracy (X/Y/Z)	mm	(0.011/1000) /0.0.5/0.022		(0.011/1000) /0.0.5/0.022	
Repeat positioning accuracy (X/Y/Z)	mm	(0.008/1000) /0.0.5/0.022		(0.008/1000) /0.0.5/0.022	
Total power capacity	kVA	200		200	
Machine weight	kg	240000		450000	
Overall dimensions	mm	35000 × 9200 × 7200		65000 × 9200 × 7200	

FIXED BEAM MOVING COLUMN GANTRY MACHINING CENTER



GMC40500fmd

FIXED BEAM MOVING COLUMN GANTRY MACHINING CENTER

性能特点 PERFORMANCE

- It is the preferred processing equipment for construction machinery, rolling stock, mining equipment, turbines, ships, military, nuclear power, large environmental protection equipment and other industrial sectors.
- The moving column type CNC gantry milling machine is a typical tool-moving machine , with the advantages of fixed mass of moving parts, relatively unlimited workpiece weight and small footprint, which is the main stream structure form of large machine tools.
- Equipped with kinds of milling heads to extend the machining range and increase the machining efficiency, enabling multi-surface and multi-process machining.

配置 CONFIGURATION

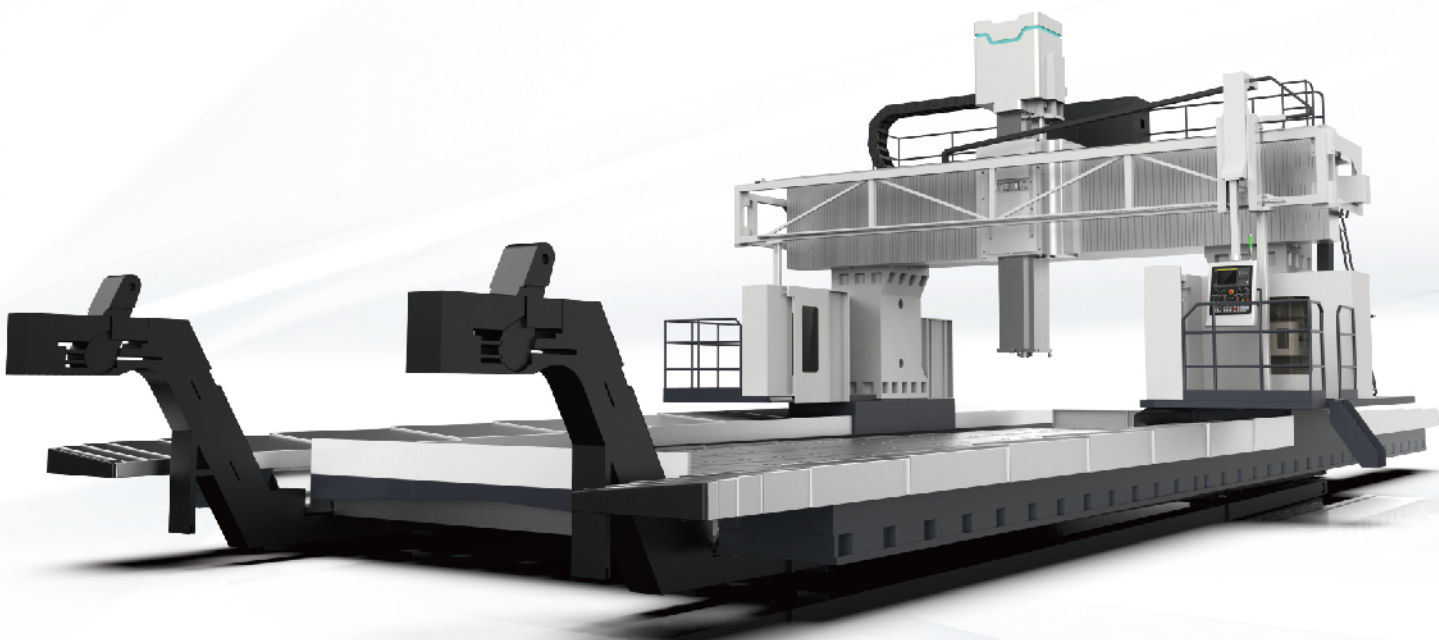
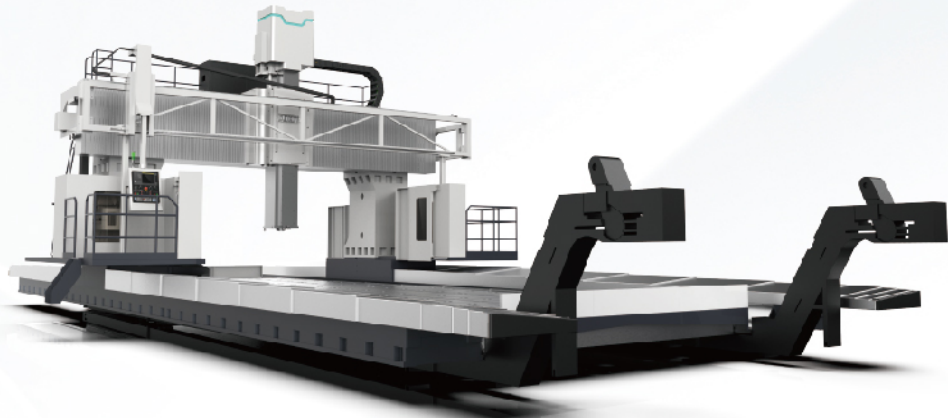
- STANDARD

 - Fanuc 0i-MF PLUS CNC controller
 - Spindle gear box
 - X-axis with linear scale
 - Double chain plate chip conveyor
- OPTION

 - Siemens 828D CNC controller
 - Coolant through spindle
 - Germany ZF gear box/Italy BF gear box
 - Automatic right angle milling head

Main specifications	Unit	GMC30100fm	GMC40100fm	GMC40140fm
X-axis travel	mm	10600	10600	14600
Y-axis travel	mm	4500	5500	5500
Z-axis travel	mm	1500	1500	1500
Distance from spindle nose to table surface	mm	250-1750	250-1750	250-1750
Distance between two columns	mm	4100	5100	5100
Worktable size	mm	10000X3000	10000X4000	14000X4000
Max. load of worktable	T/m²	15	15	15
T-slot (Width-No.-Distance)	mm	28	36	36
Spindle taper	--	BT50	BT50	BT50
Max. spindle speed	rpm	3000	3000	3000
Main motor power	kW	30/37	30/37	30/37
Spindle torque	N.m	1270/1560	1270/1560	1270/1560
Ram cross section	mm	500X500	500X500	500X500
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/8000	10000/10000/8000	10000/10000/8000
Cutting feed speed(X/Y/Z)	mm/min	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.055/0.032/0.022	0.055/0.035/0.022	(0.011/1000)/0.035/0.022
Repeat positioning accuracy(X/Y/Z)	mm	0.038/0.022/0.015	0.038/0.028/0.015	(0.008/1000)/0.028/0.015
Total power capacity	kVA	120	120	120
Machine weight	kg	110000	130000	150000
Overall dimensions	mm	19000X8200X7200	19000X9200X7200	23000X9200X7200

FIXED BEAM MOVING COLUMN GANTRY MACHINING CENTER



GMC 30100fm

GMC 40100fm / GMC 40140fm

GMC40140fm

FIXED BEAM MOVING COLUMN GANTRY MACHINING CENTER

性能特点

PERFORMANCE

- Applicable to various mechanical processing fields such as automobile, ship, printing, packaging, textile, military, mold and so on
- Heavy-duty linear guide ways on X, Y, Z axis square ram box guide way
- High-precision rack and pinion transmission on X axis, double motors and double planetary reducers for electrical backlash elimination
- Balancing cylinders are arranged symmetrically on both sides of the ram for fast Z-axis response.
- Three axes independent lubricant recovery system
- The cross beam adopts the composite guide rail form of orthogonal linear guide rail combined with a hard rail

配置

CONFIGURATION

STANDARD

- Fanuc Oi-MF PLUS CNC controller
- WEIDA gear box
- Automatic milling head, indexing 5degree, positioning of tooth plate, indexing accuracy +/-3"
- Head magazine
- Three axis Germany precision planetary reducer
- Arm type tool magazine

OPTION

- Siemens 828D CNC controller
- Chain type vertical and horizontal exchange tool magazine
- 2Mpa, 5Mpa, 7Mpa CTS
- Automatic tool measuring system and workpiece measuring system
- ①right-angle milling head ②Universal milling head ③Extended milling head ④ Narrow right angle extension milling head

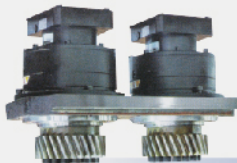


Automatic exchange extension head



Compact structure, automatic head exchange, reducing machining assistance time and improving machining efficiency

Column rotating head magazine

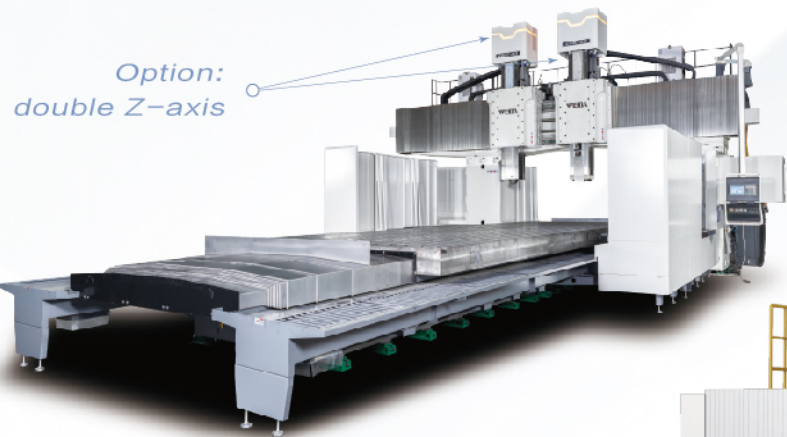


High precision double motor backlash elimination transmission mechanism

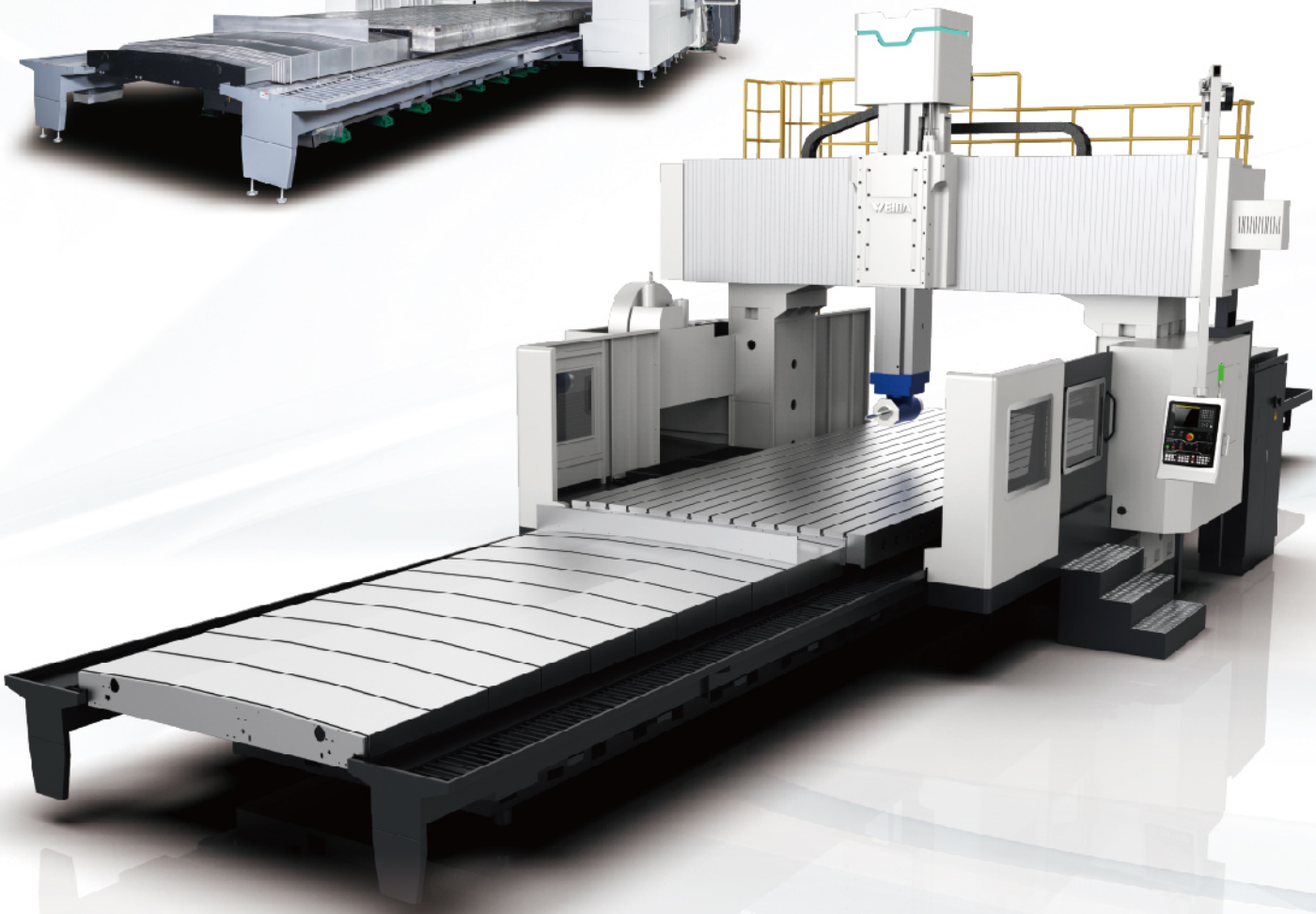
Double motor gap elimination drive mechanism

Main specifications	Unit	GMC3060u	GMC3080u	GMC30100u
X-axis travel	mm	6500	8500	10500
Y-axis travel	mm	4200	4200	4200
Z-axis travel	mm	1250	1250	1250
Distance from spindle nose to table surface	mm	250-1500	250-1500	250-1500
Distance between two columns	mm	3800	3800	3800
Worktable size	mm	6000X3000	8000X3000	10000X3000
Max. load of worktable	kg	25000	35000	45000
T-slot (Width-No.-Distance)	mm	28-15-200	28-15-200	28-15-200
Spindle taper	--	BT50	BT50	BT50
Max. spindle speed	rpm	3000	3000	3000
Main motor power	kW	30/37	30/37	30/37
Spindle torque	N.m	1270/1560	1270/1560	1270/1560
Ram cross section	mm	450X450	450X450	450X450
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/10000	10000/10000/10000	10000/10000/10000
Cutting feed speed(X/Y/Z)	mm/min	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000	1-6000/1-6000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.035/0.032/0.020	0.045/0.032/0.020	0.055/0.032/0.020
Repeat positioning accuracy(X/Y/Z)	mm	0.025/0.022/0.013	0.035/0.022/0.013	0.038/0.022/0.013
Total power capacity	kVA	60	60	60
Machine weight	kg	75000	90000	105000
Overall dimensions	mm	16000X6900X6700	20000X6900X6700	24000X6900X6700

MOVING TABLE FIVE FACE GANTRY MACHINING CENTER



Option:
double Z-axis



GMC 3060u / GMC 3080u

GMC 30100u

GMC3080u

MOVING TABLE FIVE FACE GANTRY MACHINING CENTER

性能特点

PERFORMANCE

- Suitable for large workpiece's precision machining of aerospace, automotive, textile machinery, molds, packaging machinery, mining equipment etc. It can automatically complete multi-process complex processing of milling, drilling, boring, tapping etc.
- The basic parts of the machine are made of high-quality high-strength castings and gantry frame structure. The whole machine has good rigidity, shock resistance and precision retention.
- Fixed beam structure, the cross beam adopts the composite guide rail form of orthogonal linear guide rail combined with a hard rail, with good rigidity
- Heavy load linear guide way on X,Y axis, Z axis square ram box guide way to ensure the rigidity of Z feed and the retention of high precision feed.
- Taiwan famous brand high speed unit(6000rpm), which can choose spindle speed 3000,4000,6000rpm.

配置

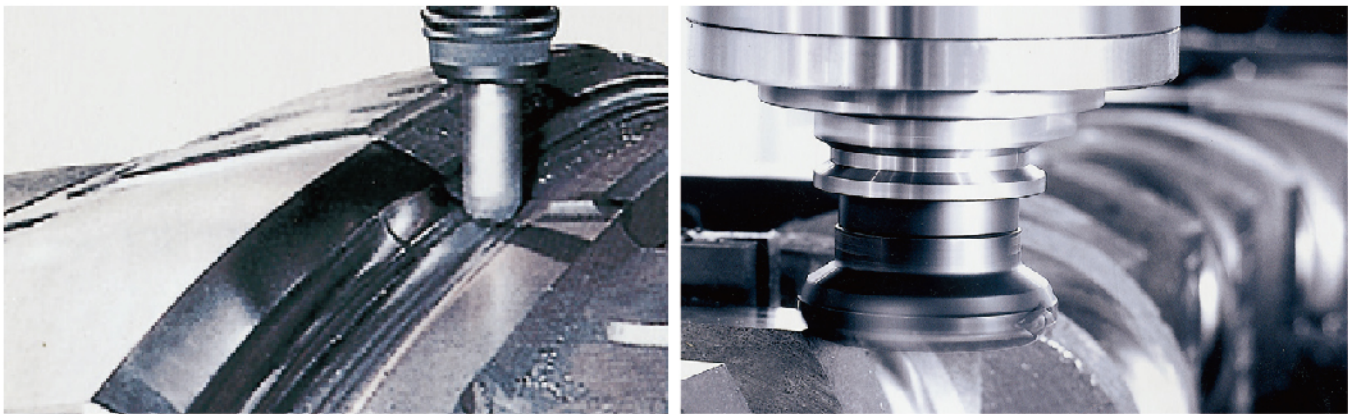
CONFIGURATION

STANDARD

- Fanuc 0i-MF PLUS CNC controller
- Spindle gear box
- Automatic lubrication system
- 24 pcs arm type tool magazine

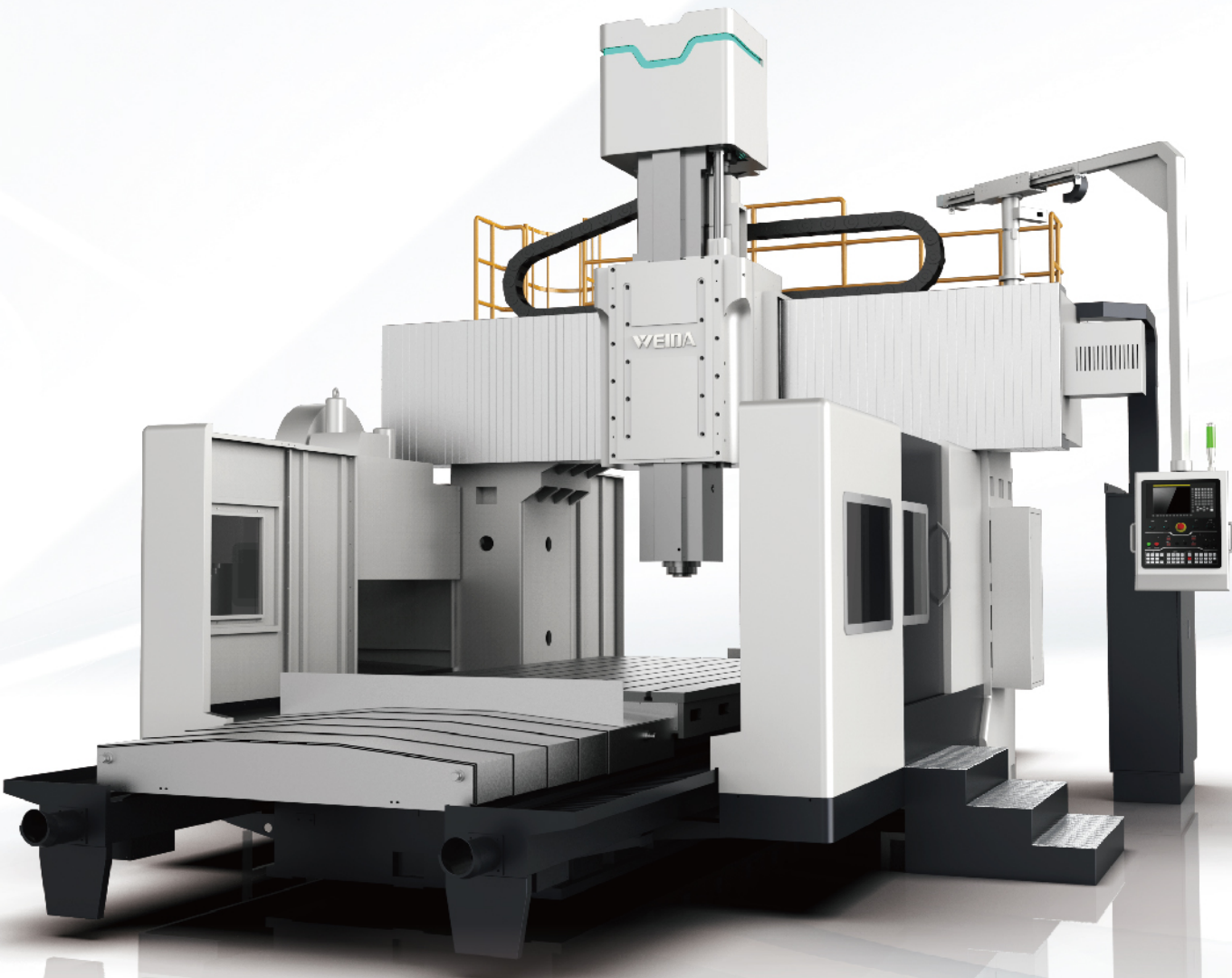
OPTION

- Siemens 828D CNC controller
- Germany ZF gear box/Italy BF gear box
- Heidenhain or Fagor linear scale
- 32/40pcs chain type tool magazine
- WEIDA or Taiwan auto right angle milling head
- Combined vertical and horizontal chip removal system



Main specifications	Unit	GMP2540	GMC2540	GMC2560	GMC2580
X-axis travel	mm	4200	4200	6500	8500
Y-axis travel	mm	3700	3700	3700	3700
Z-axis travel	mm	1000	1250	1250	1250
Distance from spindle nose to table surface	mm	250-1250	210-1460	210-1460	210-1460
Distance between two columns	mm	3300	3300	3300	3300
Worktable size	mm	4000X2500	4000X2500	6000X2500	8000X2500
Max. load of worktable	kg	15000	18000	26000	34000
T-slot (Width-No.-Distance)	mm	28-13-200+28-2-180	28-11-200+28-2-180	28-11-200+28-2-180	28-11-200+28-2-180
Spindle taper	--	BT50	BT50	BT50	BT50
Max. spindle speed	rpm	3000	3000	3000	3000
Main motor power	kW	22/26	30/37	30/37	30/37
Spindle torque	N.m	718/849	1275/1572	1275/1572	1275/1572
Ram cross section	mm	410X410	450X450	450X450	450X450
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/10000	10000/10000/10000	10000/10000/10000	8000/10000/10000
Cutting feed speed(X/Y/Z)	mm/min	1-8000/1-8000/1-8000	1-8000/1-8000/1-8000	1-8000/1-8000/1-8000	1-6000/1-8000/1-8000
Positioning accuracy(X/Y/Z)	mm	0.025/0.025/0.018	0.025/0.025/0.020	0.035/0.025/0.020	0.045/0.025/0.020
Repeat positioning accuracy(X/Y/Z)	mm	0.016/0.016/0.012	0.016/0.016/0.013	0.025/0.016/0.013	0.035/0.016/0.013
Total power capacity	kVA	50	55	55	60
Machine weight	kg	45000	55000	65000	80000
Overall dimensions	mm	10390X6300X5650	12000X6300X6600	16000X6300X6600	20000X6300X6600

MOVING TABLE GANTRY MACHINING CENTER



GMC 2540 / GMC 2560

GMC 2580

GMC2560

MOVING TABLE GANTRY MACHINING CENTER

Main specifications	Unit	GMC2040P	GMC2040	GMC2060
X-axis travel	mm	4200	4200	6500
Y-axis travel	mm	3200	3400	3400
Z-axis travel	mm	1000	1250	1250
Distance from spindle nose to table surface	mm	250-1250	250-1500	250-1500
Distance between two columns	mm	2800	3000	3000
Worktable size	mm	4000X2000	4000X2000	6000X2000
Max. load of worktable	kg	12000	15000	22000
T-slot (Width-No.-Distance)	mm	28-9-200	28-9-200	28-9-220
Spindle taper	--	BT50	BT50	BT50
Max. spindle speed	rpm	3000	3000	3000
Main motor power	kW	15/18.5	22/26	22/26
Spindle torque	N.m	730/970	718/849	718/849
Ram cross section	mm	410X410	450X450	450X450
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/8000	12000/12000/10000	10000/12000/10000
Cutting feed speed(X/Y/Z)	mm/min	1-6000/1-6000/1-6000	1-8000/1-10000/1-8000	1-8000/1-10000/1-8000
Positioning accuracy(X/Y/Z)	mm	0.025/0.020/0.018	0.025/0.020/0.022	0.035/0.020/0.022
Repeat positioning accuracy(X/Y/Z)	mm	0.016/0.013/0.012	0.016/0.013/0.013	0.025/0.013/0.013
Total power capacity	kVA	50	50	50
Machine weight	kg	42000	45000	55000
Overall dimensions	mm	10390X5600X5600	10390X6200X6450	14900X6200X6450

性能特点 PERFORMANCE

- The machine is fixed gantry frame and moving table structure, with good rigidity, strong vibration absorption, wide processing range and good stability. The machine has various functions such as milling, boring, drilling, tapping, etc. It is suitable for new energy, automobile, ship, printing, packaging, textile, military industry etc.
- Extra wide bed with direct casting of chip slots on both sides of the bed
- Heavy-duty linear guide ways on X,Y axis Z axis square ram box guide way
- High-speed precision spindle unit from Taiwan, equipped with precision gearbox, high output torque
- Various manual/automatic milling heads available

配置 CONFIGURATION

- STANDARD

 - Fanuc 0i-MF PLUS CNC controller
 - Spindle gear box
 - Automatic lubrication system
 - 24 pcs arm type tool magazine
- OPTION

 - Siemens 828D CNC controller
 - Germany ZF gear box/Italy BF gear box
 - Heidenhain or Fagor linear scale
 - 32/40pcs chain type tool magazine
 - WEIDA or Taiwan auto right angle milling head
 - Combined Longitudinal and Transverse Chip Removal System

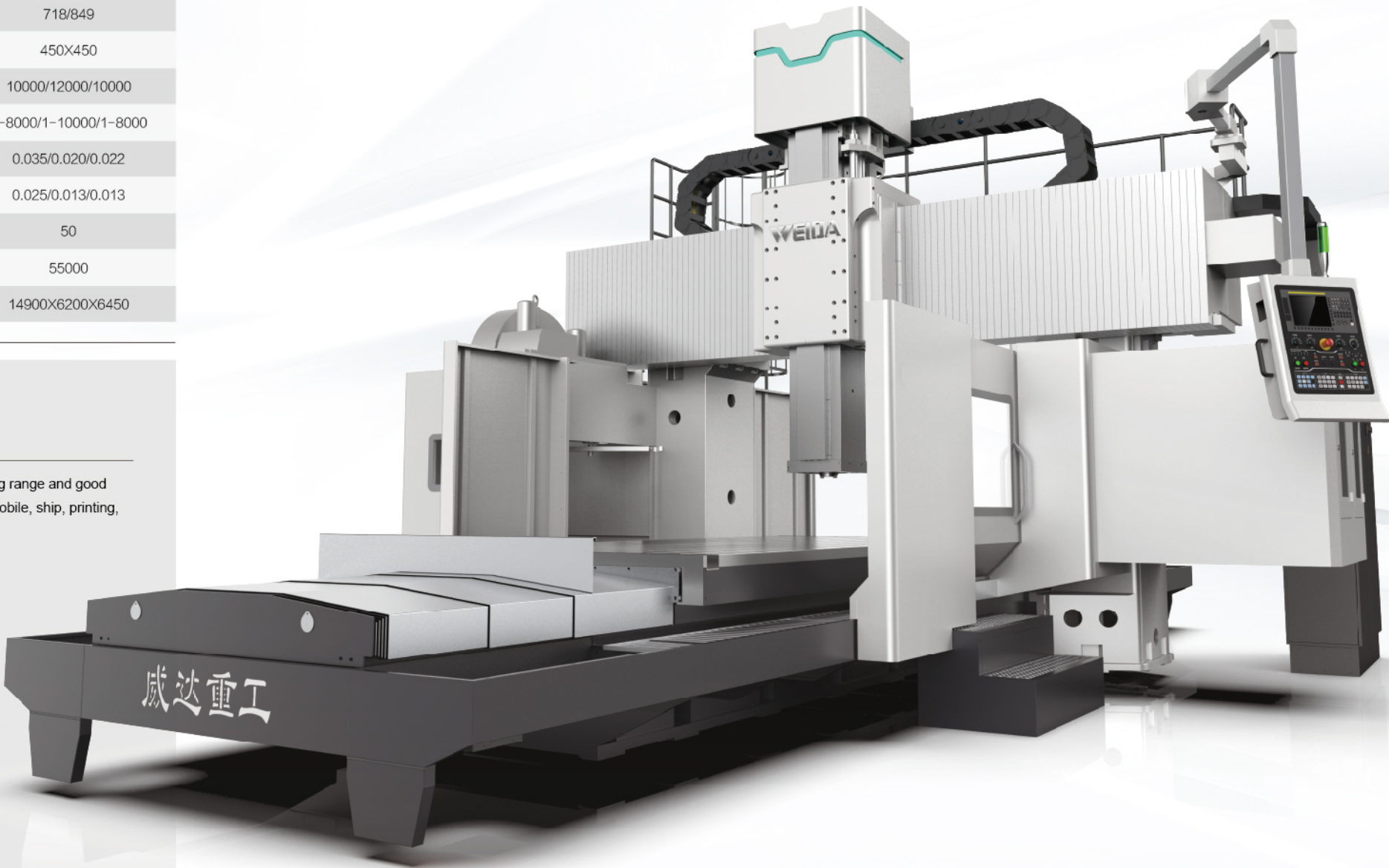
MOVING TABLE GANTRY MACHINING CENTER

GMC2040

MOVING TABLE GANTRY MACHINING CENTER

GMC 2040 / GMC 2040p

GMC 2060



Main specifications	Unit	GMC1520	GMC1530	GMC1830
X-axis travel	mm	2200	3200	3200
Y-axis travel	mm	2000	2000	2600
Z-axis travel	mm	800	800	1000
Distance from spindle nose to table surface	mm	165-965	165-965	250-1250
Distance between two columns	mm	1900	1900	2200
Worktable size	mm	2000X1500	3000X1500	3000X1800
Max. load of worktable	kg	6000	8000	8000
T-slot (Width-No.-Distance)	mm	28-9-160	28-9-160	28-11-160
Spindle taper	--	BT50	BT50	BT50
Max. spindle speed	rpm	3000	3000	3000
Main motor power	kW	15/18.5	15/18.5	15/18.5
Spindle torque	N.m	730/900	730/900	730/900
Ram cross section	mm	400X400	400X400	410X410
Rapid feed speed(X/Y/Z)	mm/min	12000/15000/8000	12000/15000/8000	12000/10000/8000
Cutting feed speed(X/Y/Z)	mm/min	1-10000/1-10000/1-6000	1-10000/1-10000/1-6000	1-10000/1-8000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.016/0.016/0.015	0.020/0.016/0.015	0.020/0.020/0.018
Repeat positioning accuracy(X/Y/Z)	mm	0.012/0.012/0.010	0.015/0.012/0.010	0.015/0.013/0.012
Total power capacity	kVA	30	30	30
Machine weight	kg	23000	25000	32000
Overall dimensions	mm	7400X4900X4850	8400X4900X4850	8400X5800X5650

性能特点 PERFORMANCE

- The machine is a fixed gantry frame and moving table structure, with good rigidity, strong vibration absorption, wide processing range and good stability. The machine has various functions such as milling, boring, drilling, tapping, etc. It is suitable for new energy, automobile, ship, printing, packaging, textile, military industry etc.
- Extra wide bed with direct casting of chip slots on both sides of the bed
- Heavy-duty linear guide ways on X,Y axis Z axis square ram box guide way
- High-speed precision spindle unit from Taiwan, equipped with precision gearbox, high output torque
- Various manual/automatic milling heads available.

配置 CONFIGURATION

- STANDARD

 - Fanuc 0i-MF Plus CNC controller
 - Automatic lubrication system
 - 24 pcs arm type tool magazine
 - Double screw type chip conveyor
- OPTION

 - Siemens 828D, GSK25I, HNC818, KND2000 CNC controller
 - 32pcs chain type tool magazine
 - WEIDA or Taiwan auto right angle milling head
 - Germany ZF gear box/Italy BF gear box

MOVING TABLE GANTRY MACHINING CENTER

GMC1830

MOVING TABLE GANTRY MACHINING CENTER

GMC 1520 / GMC 1530

GMC 1830



性能特点 PERFORMANCE

- Suitable for large workpiece's precision machining of aerospace, automotive, textile machinery, molds, packaging machinery, mining equipment etc. It can automatically complete multi-process complex processing of milling, drilling, boring, tapping etc.
- Fixed beam structure, vertical orthogonal linear guide beam, integrated gantry frame with good rigidity.
- Heavy duty linear guide ways on X,Y axis, which have High load capacity, high precision,Z-axis is a six-sided hard rail structure, ensuring rigidity of Z-axis feed and high-precision feed retention
- Taiwan famous brand high speed spindle unit (6000rpm), max. speed 4000rpm, suitable for heavy cutting with low speed.
- The basic parts of the machine are made of high-quality high-strength castings and gantry frame structure. The whole machine has good rigidity, shock resistance and precision retention.
- Balancing cylinders are arranged symmetrically on both sides of the ram for fast Z-axis response.

配置 CONFIGURATION

- STANDARD

 - Fanuc 0i-MF Plus CNC controller
 - Taiwan 24 pcs arm type tool magazine
 - Double screw type chip conveyor
- OPTION

 - Siemens 828D GSK 25i, HNC818, KND2000 MF3i CNC controller
 - Germany ZF gear box/Italy BF gear box
 - WEIDA manual right angle milling head

Main specifications	Unit	GMC0916	GMC1120
X-axis travel	mm	1800	2200
Y-axis travel	mm	1400	1700
Z-axis travel	mm	800	800
Distance from spindle nose to table surface	mm	150-950	150-950
Distance between two columns	mm	1300	1600
Worktable size	mm	1600X900	2000X1100
Max. load of worktable	kg	3000	3500
T-slot (Width-No.-Distance)	mm	22-5-180	22-7-160
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	4000	4000
Main motor power	KW	15/18.5	15/18.5
Spindle torque	N.m	257/318	257/318
Rapid feed speed(X/Y/Z)	mm/min	15000/20000/12000	15000/20000/12000
Cutting feed speed(X/Y/Z)	mm/min	1-10000/1-10000/1-8000	1-10000/1-10000/1-8000
Positioning accuracy(X/Y/Z)	mm	0.016/0.014/0.015	0.016/0.014/0.015
Repeat positioning accuracy(X/Y/Z)	mm	0.012/0.011/0.010	0.012/0.011/0.010
Total power capacity	kVA	30	30
Machine weight	kg	13000	18000
Overall dimensions	mm	6200X3900X4580	7450X4200X4580

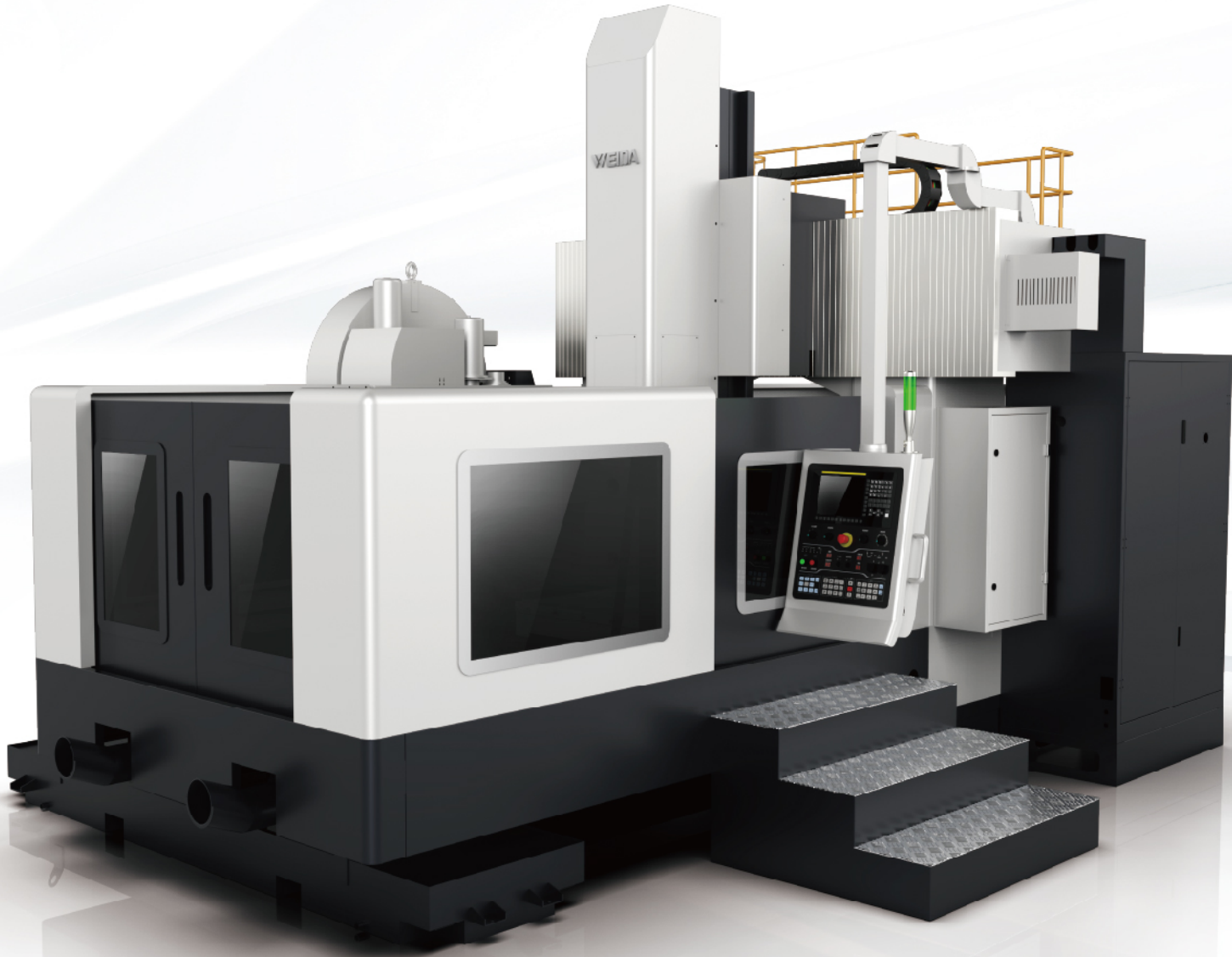
MOVING TABLE GANTRY MACHINING CENTER

GMC1120

MOVING TABLE GANTRY MACHINING CENTER

GMC 0916

GMC 1120

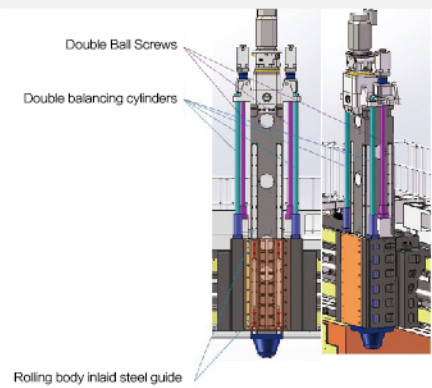


性能特点 PERFORMANCE

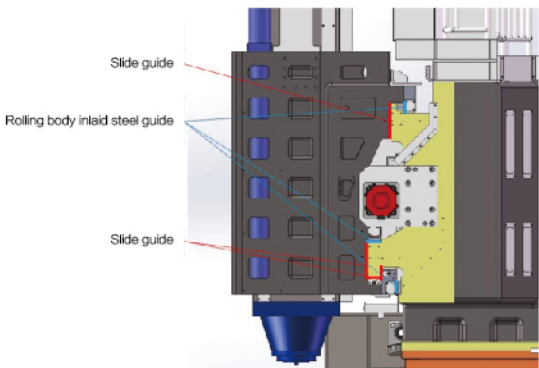
- X-axis adopts hydrostatic guideway, Y/Z-axis adopts rolling body with steel guideway.
- Three-axis precision ball screw drive, Z-axis double screw drive
- Three axes are equipped with precision travelling speed reducers and fully closed-loop scale measurement.
- Three-axis independent lubricant recovery system
- Symmetrical arrangement of balancing cylinders on both sides of ram, fast response speed of Z-axis
- The main drive is equipped with a two-speed gear transmission mechanism, with high output torque.
- Applicable to automotive, marine, printing, packaging, textile, military, mould and other various mechanical processing fields

配置 CONFIGURATION

- Standard with Fanuc 0i-MF Plus controller
- Standard with precision planetary gearboxes and fully closed-loop scales
- Standard with two-speed gear shift structure
- Option with Siemens 828D CNC system, HNC-848Di CNC system
- Milling head: 1.Right angle milling head 2.Universal milling head 3. Extension milling head 4.Narrow right angle milling head, etc. Option with 60T, 80T chain type vertical and horizontal conversion tool magazine
- Option with multi-station rotary autochange attachment milling head magazine
- Option with pallet changing system for multi-station change produce
- Option with 2Mpa, 5Mpa, 7Mpa high pressure coolant through spindle system
- Option with automatic tool measuring systems, automatic workpiece measuring system



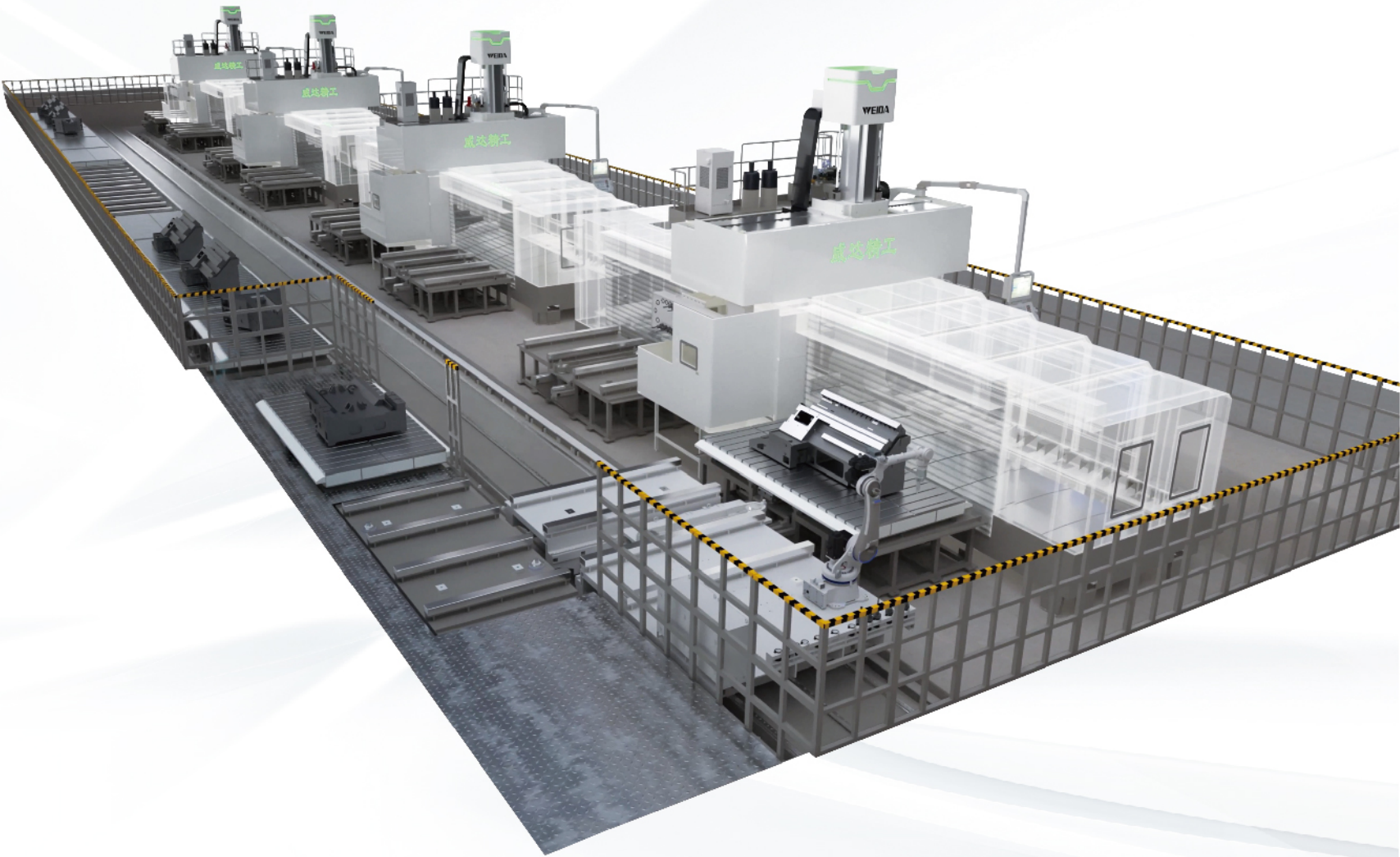
Z-axis rolling body with steel guideway and double screw drive



Y-axis rolling body with steel guideway

Main specifications	Unit	GMC3050A
X-axis travel	mm	5000 (exchange table+1000)
Y-axis travel	mm	5300
Z-axis travel	mm	1300
Distance from spindle nose to table surface	mm	200-1500
Distance between two columns	mm	3800
Worktable size	mm	5000 × 3000
Max. load of worktable	kg	20000
T-slot (Width-No.-Distance)	mm	28-15-200
Spindle taper	--	BT/JT50
Max. spindle speed	rpm	2000
Main motor power	kW	51/76.5
Spindle torque	N.m	1865/2365
Ram cross section	mm	500 × 500
Rapid feed speed (X/Y/Z)	mm/min	15000/15000/10000
Cutting feed speed (X/Y/Z)	mm/min	1-6000
Positioning accuracy (X/Y/Z)	mm	0.01/2000、0.01/2000、0.008
Pepeat positioning accuracy (X/Y/Z)	mm	0.005/2000、0.004/2000、0.003
Total power capacity	kVA	100
Machine weight	kg	105000
Overall dimensions	mm	19700 × 11200 × 8317

FLEXIBLE PRODUCTION LINE WITH GANTRY MACHINING CENTER



FLEXIBLE PRODUCTION LINE WITH GANTRY MACHINING CENTER

The production line includes four processing units, each with the specifications of a GMC3050A gantry machining center. The basic structure is as follows: the worktable moves longitudinally along the hydrostatic guideway on the bed to achieve X-axis feed; the saddle moves transversely along the composite guideway of steel-inserted rolling and sliding on the crossbeam to achieve Y-axis feed; the square ram moves vertically along the roller block on the steel-inserted guideway to achieve Z-axis feed. Under the control of the CNC system, three-axis linkage can be realized.