

NEWAY CNC EQUIPMENT

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* The content of the catalogue is subject to change without notice.

01

Neway Group Headquarters

After more than 20 years of arduous struggle by Neway people, Neway Group has developed into a world famous machinery manufacturer, including 4 major divisions: CNC equipment, Petroleum equipment, Industrial materials and Industrial Valves, and owns two listed companies, Neway Shares (stock code: 603699) and Neway CNC (stock code: 688697). Using the advanced ERP management system, our company has set up the global management structure with multiple factories, multiple business divisions, and multiple industrial chains.

At present, Neway Group has invested in China to establish 10 individual proprietorships and joint ventures including Neway CNC equipment; more than 5000 employees totally. We built 8 wholly-owned or joint ventures in the United States, Europe, the Middle East, South America and other places, and has set up numerous product and spare parts warehouses according to customer needs; Neway Group has set up direct sales companies or offices in China major domestic cities and major overseas industrial countries, and also established strategic partnerships with more than 100 overseas agents and distributors.

Neway Group is an independent and innovative enterprise group, which implements global marketing, research and development, manufacturing and talent strategy management. The Group has set up two provincial R&D centers for machines and valves in China, with more than 600 R&D engineers, 300 senior R&D engineers and many senior talents who enjoy special government allowance.

Neway Group will continue to take Suzhou as the main R&D and manufacturing base in the future. The ambition of Neway is to become a global machinery manufacturer and an outstanding brand in the machinery field not only in China but in the world.

1997

Founded in

2

Listed companies

5

R & D centers

4

Foundry bases

10

Overseas branches

15⁺

Factories

90

Covered countries

8,000,000,000

RMB Annual capacity

600,000

Annual output of Industrial valves

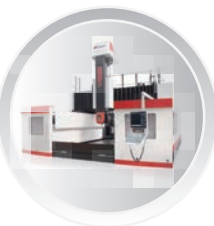
4500⁺

Annual output of CNC machines

5000⁺

Employees.....

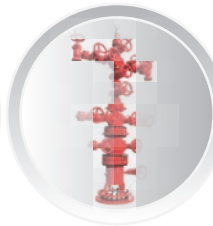
Four business divisions



CNC equipment



Industrial Valves

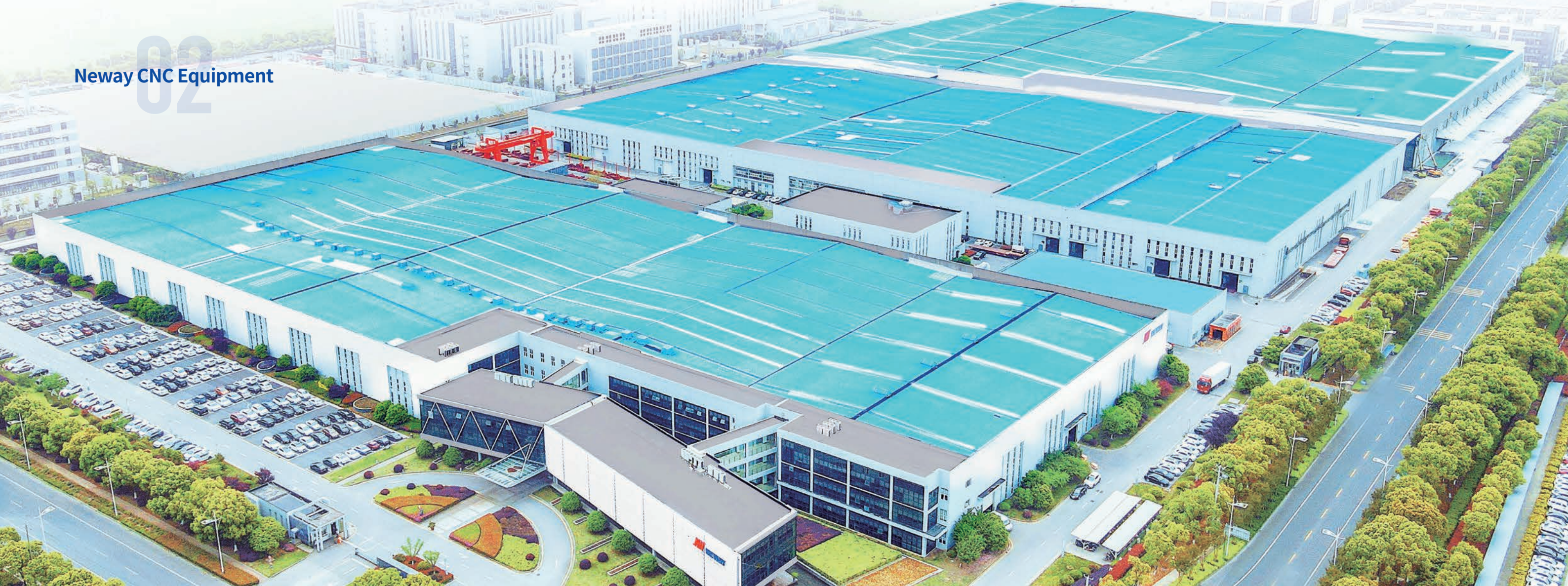


petroleum equipment



Industrial materials





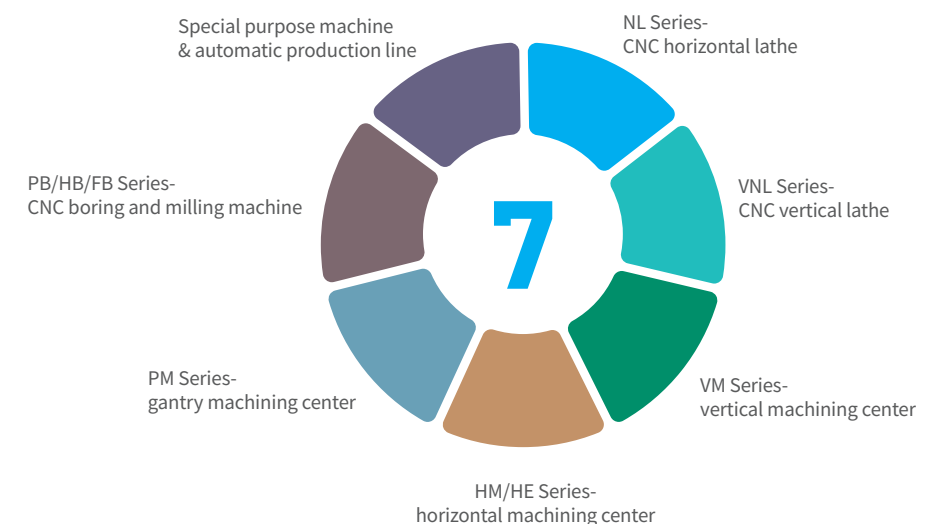
Neway CNC Equipment (Suzhou) Co., LTD. (stock code: 688697) is located in Suzhou High-tech Zone, covering an area of 200,000 square meters, and is committed to the research and development, production and sales of medium and high class CNC machines. Our company attaches great importance to R&D investment and technological innovation, and has established a R&D team composed of more than 160 technical personnel, with rich experience and strong R & D capacity, to ensure our company continuous innovative motivation.

Relying on its strong technical strength, our company has participated in a number of national and Jiangsu province' s major scientific research projects. Among them, our company has undertaken a total of 7 R&D projects of the national science and technology major project "high-end CNC machines and basic manufacturing equipment", and also, some of the products have been rated as "national key new products", "China's top 100 industrial machines", "Jiangsu famous brand products" and other honorary titles.

NEWAY CNC will continue to be guided by the development trend of intelligent manufacturing, driven by independent research and development and technological innovation, actively deploy new energy, civil aviation, electronic communication, shipping, mold and other industries, vigorously promote the high-end products with composite functions, expand the intelligent production line business, and strive to provide users with excellent solutions and high-quality products for metal cutting.

- 1 Phase I plant: 47,000 square meters
Main product: CNC horizontal lathe, CNC vertical lathe
- 2 Phase II plant: 47,500 square meters
Main product: gantry machining center
- 3 Phase III plant: 47,500 square meters
Main product: vertical machining center, horizontal machining center, CNC boring and milling machine

7 series, 200+ models,
to achieve wide coverage of metal cutting field



03 Technology & Research and development

Neway CNC Core Technology Advantages

- Precision control and retention
- Complex parts machining
- High-speed movement
- Independent R & D of functional components
- Failure analysis and resolution
- Convenient operation

Neway Machine Design and Research Institute

Neway Machine Design & Research Institute has more than 200 experienced R&D engineers, many senior engineers who enjoy special government allowance and have published many influential technical papers in famous machine tool publications. At present, the institute has set up nine R&D departments: CNC horizontal lathe R&D department, CNC vertical lathe R&D department, vertical machining center R&D department, horizontal machining center R&D department, double column machining center R&D department, CNC milling and boring machine R&D department, electrical R&D department, comprehensive research department and application engineering department. All products are input into PLM system and SAP system after 3D optimization design and finite element analysis. We provide customers with excellent performance of production and machining equipments through strategic cooperation with internationally renowned machine tools enterprises and key parts manufacturers.



Overseas R&D Center

The Overseas R&D Center cooperates with Suzhou Neway Machine Tool Design and Research Institute to undertake the cutting-edge application technology research of Neway CNC equipment products, providing technical guarantee for the special needs of customers in different regions and industries around the world.



Design Tools of Research and Development

Neway R&D engineers use finite element and multi-body dynamics simulation technology to carry out mechanical modeling of the machine tool structure, and analyze the static and dynamic performance, vibration characteristics, and thermal characteristics of the model to provide accurate data basis for new product design and every structural change, and ensure product quality at the source.

Using advanced optimization analysis algorithms such as topology optimization, shape optimization, size parameter optimization, and reliability design, the machine tool structure and various performance parameters are further optimized to achieve better performance of the designed product.



- Finite element analysis
- Temperature analysis
- Intelligent remote diagnosis



- Dynamic analysis
- Frequency spectrum analysis
- Vibration test during cutting

Technological Innovation

The powerful Neway technology team can't be apart from the excellent technical innovation system in Neway CNC. We sponsored technical brochure "NEWAY TECH" which is published periodically and offers a platform for the technical people to exchange point of views. Encourage engineers and technicians from the design department, R&D department, process department, and manufacturing department to submit articles, and strive to improve the company's overall technical strength and create a good scientific research atmosphere by publishing special articles and carrying out excellent paper selection activities, so as to cultivate more technical elites and strengthen Neway's technical team.



R&D Management Platform

Neway introduced the well-known PLM system —SIEMENS Teamcenter as a product life cycle management platform with the internal needs of continuous improvement of product management. Product management is standardized and streamlined through the advanced information management platform, so that the data can be efficiently transferred in the demand, research and development, production, inspection and other links, so as to realize the effective accumulation and transmission of product knowledge.

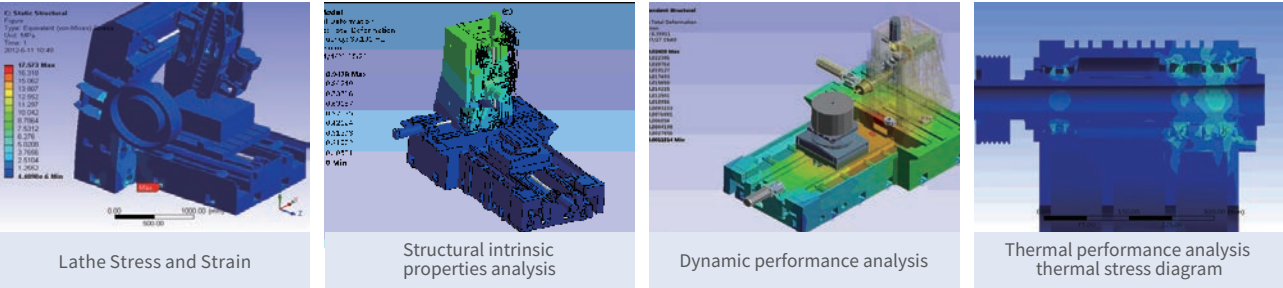
Product Design Management Platform

- Accumulation and transmission of design knowledge
- Innovative design of products
- Customized design, quick response to customer needs
- Parallel process improves design effectiveness
- Efficient management of R&D projects



R&D Software

Using a series of advanced R&D softwares, such as Pro / Engineer and others to finish 3 D modeling, static analysis, dynamic analysis, mode analysis and thermodynamic analysis and structural optimization in the design stage, greatly improving the rigidity, thermal stability and precision retention of all machines.



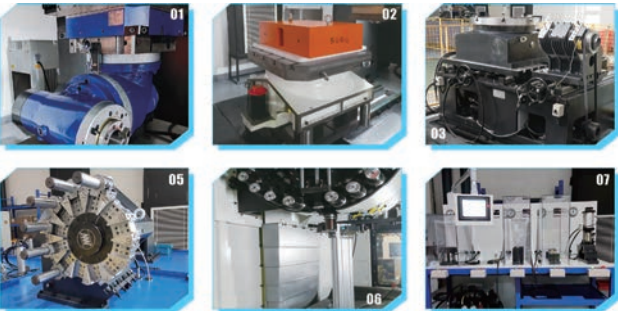
04 Test Center

Independent R&D of core functional components

Neway CNC Equipment invests tens of millions of research and development funds every year to independently develop the core functional components of the machine tool (gantry machining center milling head, HM rotary table, facing head, servo turret, spindle box, electric spindle, etc.), so as to continuously improve the performance of the machine tool.



Functional Components Test



Complete Machine Performance Test





Factory Management

Neway adopts advanced ERP and CAM manufacturing resource management system to realize synchronous monitoring and manage-ment of the whole manufacturing process, and implements intelligent warehouse management system to manage factories and warehouses efficiently and orderly, and respond to production needs quickly and accurately.



Manufacturing workshop



World Class Machining Equipments

Neway is committed to provide users with excellent performance of CNC machines, has introduced dozens of world famous machining equipments: Spain ZAYER five-face double column machining center, Italy FAVRETTO guideway grinding machine, Germany STARRAGHECK-ERT horizontal machining center, Switzerland SIP high precision boring and milling center, Switzerland KELLEN-BERGER high precision CNC universal grinding machine, etc. The use of these equipments provides a reliable guarantee for the precision of the key parts of the machine.



Zayer gantry milling center-Spain(25m)



Zayer gantry milling center-Spain(10m)



SIP high precision boring & milling center-Swiss



SIP high precision boring & milling center-Swiss



Favretto guideway grinding machine-Italy



Starragheckert horizontal milling center-Germany



Kellenberger grinding machine-Swiss



Spain DANOBAT universal grinding machine

360°

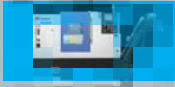
Neway offers complete CNC machining solution.

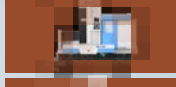
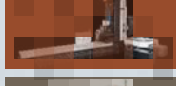
Neway CNC has 7 categories of more than 200 models. of CNC machines. We creates a 360-degree solution with the goal of improving customer satisfaction, providing processing equipment for thousands of customers, and gradually develop towards automated processing and intelligent manufacturing, providing customers with complete set of cutting technology solutions.

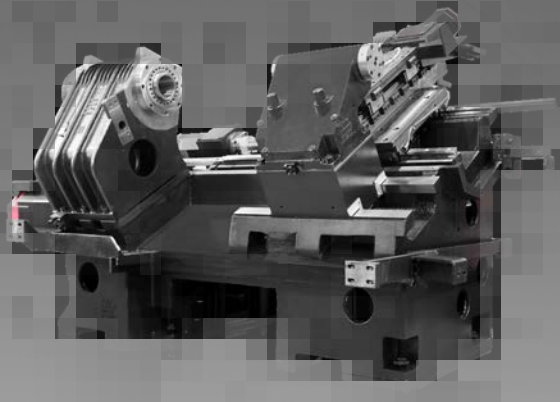
- 1 CNC machines
Full series medium and high class metal cutting machines
- 2 Processing plan
Provide complete processing solution according to customer's requirements
- 3 Automated production line
Realize “lights out” production
- 4 Intelligent digitally managed and monitored factory
IOT internet of things allows for real-time cloud-based monitoring of assets.
- 5 Remote machine diagnosis
Diagnose and troubleshoot by remote control.



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NL series-
Linear guideway Slant bed CNC lathe



NL series-
High performance Slant bed CNC lathe



NL series-
Built-in motor spindle CNC horizontal lathe



Item	Unit	NL161	NL251	NL252	NL253	NL403	NL405
Max. swing over bed	mm	Φ500	Φ550	Φ550	Φ550	Φ660	Φ660
Max. swing over saddle	mm	Φ300	Φ330	Φ370	Φ370	Φ480	Φ480
Max. turning diameter	mm	Φ320	Φ360	Φ360	Φ360	Φ500	Φ500
Max. turning length	mm	320	330	550	810	770	1250
Travel X/Z	mm	180/350	240/330	240/550	240/830	280/800	280/1280
Rapid travel speed X/Z	m/min	30/30	30/30	24/30	24/30	24/30	24/30
Spindle motor power	kW	5.5/7.5	7.5/11	7.5/11	7.5/11	15/18.5	15/18.5
Max. spindle speed	r/min	6000	5000	5000	5000	3500	3500
Spindle nose	ISO	A2-5	A2-6	A2-6	A2-6	A2-8	A2-8
Spindle bore	mm	Φ56	Φ56	Φ56	Φ56	Φ86	Φ86
Hydraulic chuck	inch	6	hollow8"[solid 8"/solid (hollow)10"]			solid 10" [hollow 10"/solid (hollow)12"]	
Tool position	-	8	8	8	8	12	12
Turning tool shank size	mm	25×25	25×25	25×25	25×25	25×25	25×25
Boring tool holder dia.	mm	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40
Tailstock quill dia.	mm	-	-	Φ75	Φ100	Φ100	Φ100
Tailstock quill travel	mm	-	-	80	100	100	100
Tailstock quill taper	Mose	-	-	4#(Live center)	5#(Live center)	5#(Live center)	5#(Live center)
Positioning accuracy(X/Z)	mm	0.006	0.006	0.006	0.006	0.008	0.008
Repeatability accuracy(X/Z)	mm	0.004	0.004	0.004	0.004	0.004	0.004
CNC system	-	NEWAY FANUC [SIEMENS]					
Auto chip conveyor	-	rear way	Automatic right chip conveyor [Automatic rear chip conveyor]		Automatic right chip conveyor [Automatic rear chip conveyor/Automatic left chip conveyor]		Automatic right chip conveyor [Automatic rear chip conveyor]
Machine weight	kg	2600	3200	3800	4200	4100	4600

[]Option

Item	Unit	NL251P	NL252P	NL253P
Max. swing over bed	mm	Φ550	Φ550	Φ550
Max. swing over saddle	mm	Φ330	Φ370	Φ370
Max. turning diameter	mm	Φ320	Φ320	Φ320
Max. turning length	mm	330	550	810
Travel X/Z	mm	240/330	240/550	240/830
Rapid travel speed X/Z	m/min	30/36	30/36	30/36
Spindle motor power	kW	11/15	11/15	11/15
Max. spindle speed	r/min	5000	4000	4000
Spindle nose	ISO	A2-6	A2-6	A2-6
Spindle bore	mm	Φ56	Φ76	Φ76
Hydraulic chuck	inch	8	8	8
Tool position	-	12	12	12
Turning tool shank size	mm	25×25	25×25	25×25
Boring tool holder diameter	mm	Φ40	Φ40	Φ40
Tailstock quill diameter	mm	-	Φ75	Φ100
Tailstock quill travel	mm	-	80	100
Tailstock quill taper	Mose	-	Live center 4#	
Positioning accuracy(X/Z)	mm	0.006	0.006	0.006
Repeatability accuracy(X/Z)	mm	0.004	0.004	0.004
CNC system	-	NEWAY FANUC [SIEMENS]		
Auto chip conveyor	-	side way [rear way]		
Machine weight	kg	3200	3800	4200

[]Option

Item	Unit	NL161V
Max. swing over bed	mm	Φ500
Max. swing over saddle	mm	Φ300
Max. turning diameter	mm	Φ320
Max. turning length	mm	320
Travel X/Z	mm	180/350
Rapid travel speed X/Z	m/min	30/30
Spindle motor power	kW	11.6/14.4
Max. spindle speed	r/min	6000
Spindle nose	ISO	A2-5
Spindle bore	mm	Φ56
Hydraulic chuck	inch	6
Tool position	-	8
Turning tool shank size	mm	25×25
Boring tool holder diameter	mm	Φ40
Tailstock quill diameter	mm	-
Tailstock quill travel	mm	-
Tailstock quill taper	Mose	-
Positioning accuracy(X/Z)	mm	0.006
Repeatability accuracy(X/Z)	mm	0.004
CNC system	-	SIEMENS
Auto chip conveyor	-	rear way
Machine weight	kg	2600

[]Option

NL series-
Box guideway Slant bed CNC lathe



Item	Unit	NL502	NL504	NL634	NL634Z	NL635	NL635Z	NL636	NL636Z	NL638	NL638Z
Max. swing over bed	mm	Φ660	Φ660	Φ770	Φ770	Φ770	Φ770	Φ770	Φ770	Φ770	Φ770
Max. swing over saddle	mm	Φ480	Φ480	Φ640	Φ640	Φ640	Φ640	Φ640	Φ640	Φ640	Φ640
Max. turning diameter	mm	Φ500	Φ500	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630
Max. turning length	mm	570	1070	1000	1000	1500	1500	2000	2000	3000	3000
Travel X/Z	mm	280/600	280/1100	350/1100	350/1100	350/1100	350/1100	350/2100	350/2100	350/3100	350/3100
Rapid travel speed X/Z	m/min	16/20	16/20	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16
Spindle motor power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26
Max. spindle speed	r/min	3500	3500	2000	1000	2000	1000	2000	1000	2000	1000
Spindle nose	ISO	A2-8	A2-8	A2-8	A2-11	A2-8	A2-11	A2-11	A2-11	A2-11	A2-11
Spindle bore	mm	Φ86	Φ86	Φ92	Φ106	Φ92	Φ106	Φ106	Φ106	Φ106	Φ106
Hydraulic chuck	inch	10	10	12	15	12	15	12	15	12	15
Tool position	-	12	12	12	12	12	12	12	12	12	12
Turning tool shank size	mm	25×25	25×25	32×32	32×32	32×32	32×32	32×32	32×32	32×32	32×32
Boring tool holder diameter	mm	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50
Tailstock quill diameter	mm	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130
Tailstock quill travel	mm	100	100	120	120	120	120	120	120	120	120
Tailstock quill taper	Mose	Live center 5#	Live center 5#	5#	5#	5#	5#	5#	5#	5#	5#
Positioning accuracy(X/Z)	mm	0.01/0.01	0.01/0.011	0.01/0.011	0.01/0.011	0.01/0.014	0.01/0.014	0.01/0.021	0.01/0.021	0.01/0.031	0.01/0.031
Repeatability accuracy(X/Z)	mm	0.005/0.007	0.005/0.007	0.006/0.008	0.006/0.008	0.006/0.008	0.006/0.008	0.007/0.018	0.007/0.018	0.007/0.022	0.007/0.022
CNC system	-	NEWAY FANUC [SIEMENS]									
Auto chip conveyor	-	side way[rear way]									
Machine weight	kg	4000	4500	7000	7100	7500	7600	8200	8300	9300	9400

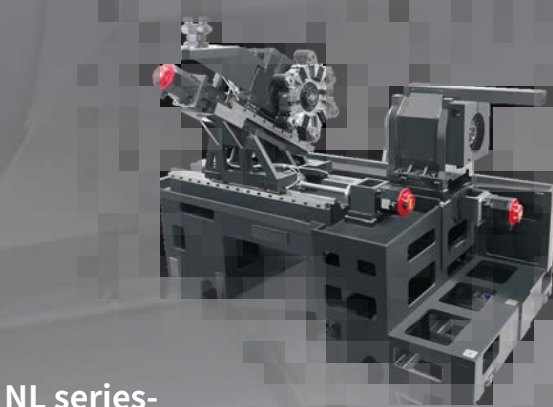
[] Option

NL series-
Multi-axis horizontal turning center



Item	Unit	NLT322SY	NL301Y	NL302Y	NL403Y	NL405Y	NL634Y	NL635Y	NL636Y	NL638Y
Max. swing dia.	mm	Φ314	Φ620	Φ620	Φ660	Φ660	Φ770	Φ770	Φ770	Φ770
Max. turning dia.	mm	Φ314	Φ300	Φ300	Φ400	Φ400	Φ560	Φ560	Φ560	Φ560
Max. working length	mm	550	300	550	700	1180	860	1360	1860	2860
Spindle	Max. spindle speed	rpm	4500	6000	6000	3500	3500	2000	2000	2000
	Motor power	kW	Built-in motor 22/25	11/15	11/15	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
	Spindle nose type	ISO	A2-6	A2-6	A2-6	A2-8	A2-8	A2-8	A2-8	A2-11
	Spindle bore diameter	mm	Φ66	Φ56	Φ56	Φ86	Φ86	Φ92	Φ92	Φ106
	Max. bar capacity	mm	Φ51	Φ44	Φ44	Φ74	Φ74	Φ77	Φ89	Φ89
	Hydraulic chuck	inch	8	6	6	6	10	12	12	12
Sub -Spindle	Max. spindle speed	rpm	4500	-	-	-	-	-	-	-
	Motor power	kW	Built-in motor 22/25	-	-	-	-	-	-	-
	Spindle nose type	ISO	A2-6	-	-	-	-	-	-	-
	Spindle bore diameter	mm	Φ66	-	-	-	-	-	-	-
	Travel	mm	650	-	-	-	-	-	-	-
	Rapid travel speed	m/min	40	-	-	-	-	-	-	-
Hydraulic chuck	inch	8	-	-	-	-	-	-	-	-
	Travel X1/X2/Z1/Z2	mm	200/200/650/650	210/400 (X/Z)	210/600 (X/Z)	280/800 (X/Z)	280/1280 (X/Z)	350/960 (X/Z)	350/1460 (X/Z)	350/1960 (X/Z)
Travel Y	mm	100(±50)	105(±52.5)	105(±52.5)	105(±52.5)	105(±52.5)	120 (±60)	120 (±60)	120 (±60)	120 (±60)
Rapid travel speed X1/X2/Z1/Z2	m/min	30/30/40/40	30/30 (X/Z)	30/30/10(X/Z1/Z2)	24/30(X/Z)	24/30(X/Z)	12/16(X/Z)	12/16(X/Z)	12/16(X/Z)	12/10(X/Z)
Rapid travel speed Y	m/min	15	10	10	10	10	10	10	10	10
Number of turret	Set	2	1	1	1	1	1	1	1	1
Number of tools	Pc	12×2 (BMT65)	12(BMT55)	12(BMT55)	12(BMT55)	12(BMT55)	12 (BMT65)	12 (BMT65)	12 (BMT65)	12 (BMT65)
Size of square tool shank	mm	□25	□25	□25	□25	□25	□25	□25	□25	□25
Size of circular tool shank	mm	Φ40	Φ32	Φ32	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40
Max. speed of C axis	rpm	5000	4000	4000	4000	4000	4000	4000	4000	4000
Max. boring capacity	mm	Φ16×0.2	Φ14×0.16	Φ14×0.16	Φ14×0.15	Φ14×0.15	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ16×0.2
Max. threading capacity	mm	M14×2/M20×1.5	M10×1.5/M24×1	M10×1.5/M24×1	M10×1.5/M24×1	M10×1.5/M24×1	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5
Max. slot boring capacity	mm	Φ20×12×40	Φ16×12×40	Φ16×12×40	Φ16×12×40	Φ16×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40
Positioning accuracy (X1/X2/Z1/Z2/Y)	mm	0.008	0.008	0.008	0.008(X/Z)0.01(Y)	0.008(X/Z)0.01(Y)	0.01(X)0.01(Z)0.01(Y)	0.01(X)0.014(Z)0.01(Y)	0.01(X)0.020(Z)0.01(Y)	0.01(X)0.031(Z)0.01(Y)
Positioning accuracy (C1/C2)	sec	51	51	51	51	51	51	51	51	51
Repeatability accuracy (X1/X2/Z1/Z2/Y)	mm	0.005	0.005	0.005	0.004(X/Z)0.05(Y)	0.004(X/Z)0.05(Y)	0.006(X)0.008(Z)0.006(Y)	0.006(X)0.008(Z)0.006(Y)	0.007(X)0.018(Z)0.006(Y)	0.007(X)0.022(Z)0.006(Y)
Repeatability accuracy (C1/C2)	sec	20	20	20	20	20	20	20	20	20
CNC system	-	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC	NEWAY FANUC
Auto chip conveyor	-	side way / rear way								
Machine weight	kg	8500	3800	4200	4200	4700	7100	7600	8300	9500

[] Option



NL series-
High precision Slant bed CNC lathe

NL series-
Gang tooling type Slant bed CNC lathe



HL series-
Heavy cutting Slant bed CNC lathe

NL series-
Horizontal turning and milling center

Item	Unit	NL161M	NL251M	NL252M	NL253M	NL403M	NL405M	NL634M	NL635M	NL636M	NL638M
Max. swing over bed	mm	Φ500	Φ550	Φ550	Φ550	Φ660	Φ660	Φ770	Φ770	Φ770	Φ770
Max. swing over saddle	mm	Φ300	Φ330	Φ370	Φ370	Φ480	Φ480	Φ640	Φ640	Φ640	Φ640
Max. turning diameter	mm	Φ240	Φ290	Φ290	Φ290	Φ400	Φ400	Φ560	Φ560	Φ560	Φ560
Max. turning length	mm	320	260	480	725	700	1180	1000	1500	2000	3000
Max. bar capacity	mm	Φ45	Φ44	Φ44	Φ44	Φ74	Φ74	Φ77	Φ77	Φ106	Φ106
Spindle motor power	kW	5.5/7.5	11/15	11/15	11/15	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	6000	5000	5000	5000	3500	3500	2000	2000	2000	2000
Spindle nose	ISO	A2-5	A2-6	A2-6	A2-6	A2-8	A2-8	A2-8	A2-8	A2-11	A2-11
Spindle bore	mm	Φ56	Φ56	Φ56	Φ56	Φ86	Φ86	Φ92	Φ92	Φ106	Φ106
Hydraulic chuck	inch	6	hollow8"[solid 8"/solid (hollow)10"]				solid10"[hollow10"/solid (hollow)12"]		solid12"[hollow12"]		
Tailstock quill diameter	mm	-	-	Φ75	Φ100	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130
Tailstock quill travel	mm	-	-	80	100	100	100	120	120	120	120
Tailstock quill taper	Mose	-	-	4#(Live center)	5#(Live center)	5#(Live center)	5#(Live center)	5#	5#	5#	5#
Travel X/Z	mm	180/350	180/330	180/550	180/830	280/800	280/1280	350/1100	350/1600	350/2100	350/3100
Rapid travel speed X/Z	m/min	30/30	24/30	24/30	24/30	24/30	24/30	12/16	12/16	12/16	12/10
Tool position	mm	12 (VDI 20)	BMT55	BMT55	BMT55	12(BMT55)	12(BMT55)	12(BMT55)	12(BMT55)	12(BMT55)	12(BMT55)
Max. living tool speed	rpm	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Turning tool shank size	mm	16×16	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25
Max. boring tool holder	mm	Φ16	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40
Max. drilling capacity	mm	Φ12×0.14	Φ14×0.15	Φ14×0.15	Φ14×0.15	Φ14×0.16	Φ14×0.16	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ16×0.2
Max. tapping capacity	mm	M8×1.5/M14×1	M10×1.5/M24×1	M10×1.5/M24×1	M10×1.5/M24×1	M10×1.5/M24×1	M10×1.5/M24×1	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5
Max. milling capacity	mm	Φ12×8×45	Φ16×12×40	Φ16×12×40	Φ16×12×40	Φ16×12×40	Φ16×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40
positioning accuracy (X/Z/C)	mm	0.006/0.006/51"	0.006/0.006/51"	0.008/0.008/51"	0.008/0.008/51"	0.008/0.008/51"	0.008/0.008/51"	0.010/0.011/51"	0.010/0.014/51"	0.010/0.020/51"	0.010/0.031/51"
Repeatability accuracy (X/Z/C)	mm	0.004/0.004/20"	0.004/0.004/20"	0.004/0.004/20"	0.004/0.004/20"	0.004/0.004/20"	0.004/0.004/20"	0.006/0.008/20"	0.006/0.008/20"	0.007/0.018/20"	0.007/0.022/20"
CNC system	-	NEWAY FANUC [SIEMENS]									
Auto chip conveyer	-	side way [rear way]	side way [rear way]		side way [rear way]		side way				
Machine weight	Kg	2600	3200	3800	4200	4100	4600	7000	7500	8200	9300

[] Option

Item	Unit	NLH202LV	HL805H	Item	Unit	NL161G
Max. over bed	mm	Φ550	Φ850	Max. swing over bed	mm	Φ520
Max. turning diameter	mm	Φ300	Φ800	Max. swing over saddle	mm	Φ110
Max. turning length	mm	560	1500	Max. turning diameter	mm	-
Travel X/Z	mm	190/580	425/1600	Max. turning length	mm	300
Rapid travel speed X/Z	m/min	30/30	-	Travel X/Z	mm	400/350
Spindle motor power	kW	11/15	△22/30 (Y18.5/30)	Rapid travel speed X/Z	m/min	24/24
Max. spindle speed	r/min	4600	1250	Spindle motor power	kW	5.5/7.5
Spindle nose	ISO	A2-6	A2-11	Max. spindle speed	r/min	5000
Spindle bore	mm	Φ61	Φ160	Spindle nose	ISO	A2-5
Hydraulic chuck	inch	8	hollow15"[solid15"/solid (hollow)18"]	Spindle bore	mm	Φ46
Tool position	-	12	12	Hydraulic chuck	inch	hollow8"[solid 8"/solid (hollow)10"]
Turning tool shank size	mm	25×25	32×25	Tool position	-	1~4
Boring tool holder diameter	mm	Φ40	Φ50	Turning tool shank size	mm	20×20
Tailstock quill diameter	mm	servo tailstock	Φ160	Boring tool holder diameter	mm	Φ25
Tailstock quill travel	mm	520	180	Tailstock quill diameter	mm	-
Tailstock quill taper	Mose	Live center 5#	5#	Tailstock quill travel	mm	-
Positioning accuracy (X/Z)	mm	0.008	0.01/0.016	Tailstock quill taper	Mose	-
Repeatability accuracy (X/Z)	mm	0.004	0.006/0.008	Positioning accuracy (X/Z)	mm	0.006
CNC system	-	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]	Repeatability accuracy (X/Z)	mm	0.004
Auto chip conveyor	-	side way [rear way]	side way	CNC system	-	GSK988TA
Machine weight	kg	3700	15000	Auto chip conveyor	-	side way[rear way]
				Machine weight	kg	2350

[] Option

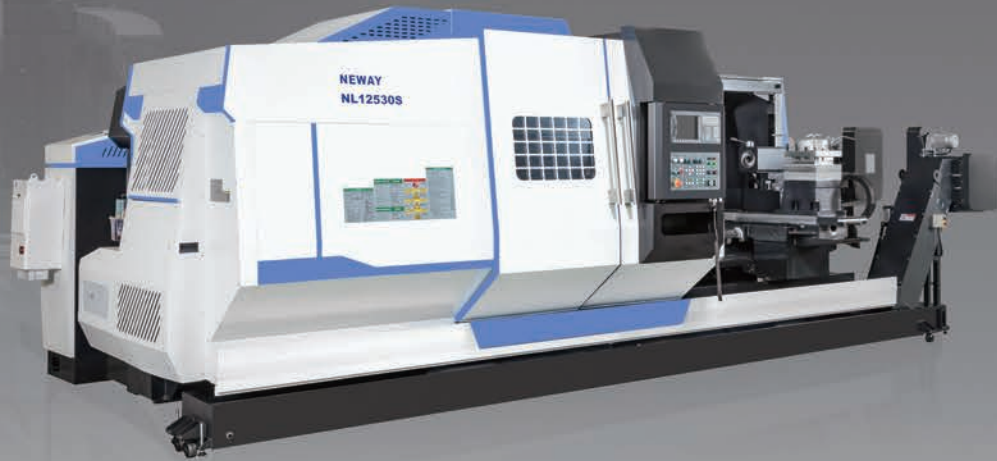
[] Option

[] Option

NL series-
Large size CNC horizontal lathe



NL series-
Heavy duty CNC horizontal lathe



Item	Unit	NL8515SL	NL8530SL	NL10015SL	NL10030SL	NL8515S	NL8530S	NL8550S	NL10015S/H	NL10030S/H	NL10050S/H
Max. swing over bed	mm	Φ850	Φ850	Φ1000	Φ1000	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max. swing over saddle	mm	Φ510	Φ510	Φ680	Φ680	Φ500	Φ500	Φ500	Φ700	Φ700	Φ700
Max. turning diameter	mm	Φ800	Φ800	Φ1000	Φ1000	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max. turning length	mm	1500	3000	1500	3000	1500	3000	5000	1500	3000	5000
Max. workpiece weight	kg	4000	4000	4000	4000	6000	6000	6000	6000	6000	6000
Spindle motor power	kW	18.5/22	18.5/22	18.5/22	18.5/22	15/18.5	15/18.5	15/18.5	22/25	22/25	22/25
Max. spindle speed	rpm	800	800	800	800	630	630	630	500	500	500
Spindle nose	ISO	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11/A2-15	A2-11/A2-15	A2-11/A2-15
Spindle bore	mm	Φ100	Φ100	Φ100	Φ100	Φ100	Φ100	Φ100	Φ100/Φ130	Φ100/Φ130	Φ100/Φ130
Spindle torque	N.m	3533	3533	3533	3533	4343	4343	4343	6370	6370	6370
Manual 4 jaw chuck	mm	Φ500	Φ500	Φ800	Φ800	Φ800	Φ800	Φ800	Φ1000	Φ1000	Φ1000
Tool position	-	4	4	4	4	4	4	4	4	4	4
Turning tool shank size	mm	32×32	32×32	32×32	32×32	32×32	32×32	32×32	50×50	50×50	50×50
Tailstock quill diameter	mm	Φ125	Φ125	Φ125	Φ125	Φ160	Φ160	Φ160	Φ160	Φ160	Φ160
Tailstock quill travel	mm	250	250	250	250	300	300	300	300	300	300
Tailstock quill taper	Mose	6#	6#	6#	6#	6#	6#	6#	6#	6#	6#
Positioning accuracy (X/Z)	mm	0.012/0.020	0.012/0.035	0.012/0.020	0.012/0.035	0.012/0.020	0.012/0.035	0.012/0.050	0.012/0.020	0.012/0.035	0.012/0.050
Repeatability accuracy (X/Z)	mm	0.007/0.013	0.007/0.020	0.007/0.013	0.007/0.020	0.007/0.013	0.007/0.020	0.007/0.020	0.007/0.013	0.007/0.020	0.007/0.020
CNC system	-	SIEMENS[NEWAY FANUC][wide number]				SIEMENS [NEWAY FANUC]					
Auto chip conveyer	-	Rear chip tray				Double chip collecting plate					
Machine weight	kg	6300	7500	6800	8000	11000	13000	16000	12500	14500	17500

[]Option

Item	Unit	NL12515S/H	NL12530S/H	NL12550S/H	NL16030S	NL16060S	NL20050S	NL20060S
Max. swing over bed	mm	Φ1250	Φ1250	Φ1250	Φ1600	Φ1600	Φ2200	Φ2200
Max. swing over saddle	mm	Φ950	Φ950	Φ950	Φ1300	Φ1300	Φ1600	Φ1600
Max. turning diameter	mm	Φ1250	Φ1250	Φ1250	Φ1300	Φ1300	Φ1600	Φ1600
Max. turning length	mm	1500	3000	5000	3000	6000	5000	6000
Max. workpiece weight	kg	6000	6000	6000	20000	20000	20000	20000
Spindle motor power	kW	22/25	22/25	22/25	55 (continuous)	55 (continuous)	55 (continuous)	55 (continuous)
Max. spindle speed	rpm	500	500	500	450	450	450	450
Spindle nose	ISO	A2-11/A2-15	A2-11/A2-15	A2-11/A2-15	A2-20	A2-20	A2-20	A2-20
Spindle bore	mm	Φ100/Φ130	Φ100/Φ130	Φ100/Φ130	Φ130	Φ130	Φ130	Φ130
Spindle torque	N.m	6370	6370	6370	22000	22000	22000	22000
Manual 4 jaw chuck	mm	Φ1000	Φ1000	Φ1000	Φ1400	Φ1400	Φ1800	Φ1800
Tool position	-	4	4	4	4	4	4	4
Turning tool shank size	mm	50×50	50×50	50×50	40×40	40×40	40×40	40×40
Tailstock quill diameter	mm	Φ160	Φ160	Φ160	Φ320	Φ320	Φ320	Φ320
Tailstock quill travel	mm	300	300	300	250	250	250	250
Tailstock quill taper	Mose	6#	6#	6#	100(Metric)	100(Metric)	100(Metric)	100(Metric)
Positioning accuracy (X/Z)	mm	0.012/0.020	0.012/0.035	0.012/0.050	0.050/0.080	0.050/0.080	0.050/0.080	0.050/0.080
Repeatability accuracy (X/Z)	mm	0.007/0.013	0.007/0.020	0.007/0.020	0.02/0.035	0.02/0.035	0.02/0.035	0.02/0.035
CNC system	-	SIEMENS [NEWAY FANUC]			SIEMENS			
Chip removal system	-	Double chip collecting plate			Rear auto chip conveyer			
Machine weight	kg	14500	16500	19500	35000	420000	45000	48000

[]Option



VNL series-
CNC vertical lathe



VNL series-
CNC vertical lathe



Item	Unit	VNL40S/H	VNL40SY/HY	VNL60S/H	VNL80S/H	VNL100S/H	VNL125S/H	VNL125SK/HK	VNL160S/H	VNL160SK/HK
Max. swing over bed	mm	Φ620	Φ620	Φ800	Φ930	Φ1000	Φ1500	Φ1500	Φ1800	Φ1800
Max. turning dia.	mm	Φ600	Φ600	Φ780	Φ850	Φ1000	Φ1250	Φ1250	Φ1600	Φ1600
Max. cutting height	mm	460	400	610	770	800	1000	1000	1600	1600
Max. workpiece weight	kg	-	-	-	-	-	5000	5000	8000	8000
Travel X/Z	mm	350/500	350/440/70 (X/Z/Y)	420/620	480/780	520/880	840/620	800/620	1040/800	1000/800
Rapid travel speed X/Z	m/min	20/20	20/20/15 (X/Z/Y)	16/16(SA) 20/20(HA)	16/16(SA) 20/20(HA)	12/12	12/12	10/10(SK) 12/10(HK)	12/12	10/10(SK) 12/10(HK)
Spindle motor power	kW	22/30(S) 15/18.5(H)	15/18.5	22/30(S) 18.5/22(H)	22/30	24/30(S) 18.5/22(H)	30(continuous)	30(continuous)	37 (continuous)	37 (continuous)
Worktable diameter	mm	12" (hydraulic chuck)	12" (hydraulic chuck)	15" (hydraulic chuck)	18" (hydraulic chuck)	21" (hydraulic chuck)	Φ1000	Φ1000	Φ1250	Φ1250
Max. worktable speed	r/min	2500	2500	1500/2000	1500/2000	1500	500	500	400	400
Max. worktable torque	N.m	573/544	573/544	716/913	1345	2083/3650	9000	9000	14000	14000
Tool position	-	8(horizontal) [6(vertical)]	8(horizontal)	12(horizontal) [6(vertical)]	8(horizontal) [6(vertical)]		4(vertical)	8(tool magazine)	4 (vertical)	12(Tool magazine)
Turning tool shank	mm	25×25	25×25	32×32	32×32	32×32	32×32	32×32	32×32	32×32
Driving type	-		hydraulic	hydraulic[electrical]			electrical	electrical	electrica	electrica
Positioning accuracy(X/Z)	mm	0.006/0.008	0.006/0.008/0.008 (X/Z/Y)	0.008/0.012	0.008/0.012	0.012/0.015	0.020/0.020	0.020/0.020	0.020/0.020	0.020/0.020
Repeatability accuracy(X/Z)	mm	0.005/0.005	0.005/0.005/0.005 (X/Z/Y)	0.006/0.008	0.006/0.008	0.0075/0.010	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015
CNC system	-	NEWAY FANUC [SIEMENS]								
Auto chip conveyor	-	rear way[side way]					rear way		side way	side way
Machine weight	kg	6500	6200	8000	9500	12000	16000	17000	25000	26000

[] Option

Item	Unit	VNL160SFK/DFK	VNL180SK/HK	VNL250S/D	VNL250SK/DK	VNL250SF/DF	VNL250SFK/DFK	VNL400S/D	VNL400SF/HF
Max. swing over bed	mm	Φ1800	Φ1800	Φ2750	Φ2750	Φ2750	Φ2750	Φ4000	Φ4000
Max. turning diameter	mm	Φ1600	Φ1600	Φ2500	Φ2500	Φ2500	Φ2500	Φ4000	Φ4000
Max. cutting height	mm	800	1800	2000/2500	2000/2500	1000	1000	2000/2500/3150	1000
Max. workpiece weight	kg	8000	8000	16000	16000	16000	16000	40000	40000
Travel X/Z	mm	980/800	1050/1000	1820/1400	1420/1400	1820/1400	1420/1400	2265/1400	2265/1000
Rapid travel speed X/Z	m/min	10/10(SK) 12/10(HK)	10/10(SK) 12/10(HK)	9/9	9/9	9/9	9/9	6/6	6/6
Spindle motor power	kW	37 (continuous)		55 (continuous)	55 (continuous)	55 (continuous)	55 (continuous)	75 (continuous)	75 (continuous)
Worktable diameter	mm	Φ1250	Φ1600	Φ2250/Φ2500	Φ2250/Φ2500	Φ2250/Φ2500	Φ2250/Φ2500	Φ3600	Φ3600
Max. worktable speed	r/min	260	260	120	120	160	160	63	63
Max. worktable torque	N.m	17000	19000	40000	40000	40000	40000	125000	125000
Tool position	-	12(Tool magazine)		1	12 (Tool magazine)	1	12 (Tool magazine)	1	1
Turning tool shank	mm	32×32	32×32	40×40	40×40	40×40	40×40	40×40	40×40
Driving type	-	electrica	electrica	-	electrica	electrica	electrica	-	-
Positioning accuracy(X/Z)	mm	0.020/0.020	0.020/0.020	0.030/0.030	0.030/0.030	0.030/0.030	0.030/0.030	0.030/0.030	0.030/0.030
Repeatability accuracy(X/Z)	mm	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015
CNC system	-	NEWAY FANUC [SIEMENS]							
Auto chip conveyor	-	side way	side way	[side way]	[side way]	[side way]	[side way]	side way	side way
Machine weight	kg	29000	30000	44000/48000	45000/49000	32000/35000	33000/36000	66000/70000	51000/550000

[] Option



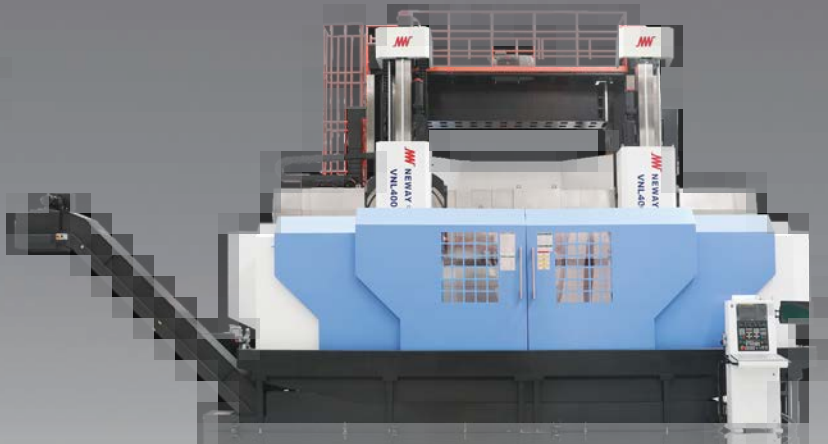
VNL series-
CNC vertical lathe



VNL series-
CNC vertical turning center



VNL series-
CNC vertical turning center



Item	Unit	VNL400SK/DFK	VNL400SK/DK	VNL500S/H	VNL500SK/HK
Max. swing over bed	mm	Φ4000	Φ4000	Φ5000	Φ5000
Max. turning dia.	mm	Φ4000	Φ4000	Φ5000	Φ5000
Max. cutting height	mm	1000	2000/2500/3150	2000/2500/3150	2000/2500/3150
Max. workpiece weight	kg	40000	40000	50000	50000
Travel X/Z	mm	2265/1000	2175/1400	2765/1400	2675/1400
Rapid travel speed X/Z	m/min	6/6	6/6	6/6	6/6
Spindle motor power	kW	75 (continuous)	75 (continuous)	75 (continuous)	75 (continuous)
Worktable diameter	mm	Φ3600	Φ3600	Φ4500	Φ4500
Max. worktable speed	r/min	63	63	50	50
Max. worktable torque	N.m	125000	125000	160000	160000
Tool position	-	12 (Tool magazine)	12 (Tool magazine)	1	12 (Tool magazine)
Turning tool shank	mm	40×40	40×40	50×50	40×40
Driving type	-	-	-	-	-
Positioning accuracy(X/Z)	mm	0.030/0.030	0.030/0.030	0.030/0.030	0.030/0.030
Repeatability accuracy(X/Z)	mm	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015
CNC system	-	NEWAY FANUC [SIEMENS]			
Auto chip conveyer	-	[side way]	side way	[side way]	[side way]
Machine weight	kg	52000/56000	67000/71000	76000/80000	77000/81000

[] Option

Item	Unit	VNL40M	VNL60M
Max. swing dia. (shaft/disk)	mm	Φ320/Φ620	Φ550/Φ780
Max. turning dia.	mm	Φ620	Φ800
Max. workpiece weight	mm	400	550
Travel X	mm	350	420
Travel Z	mm	500	620
Spindle nose	-	A2-8	A2-11
Spindle speed	r/min	50~2500	50~2000
Spindle motor power	kW	15/18.5	18.5/22
Max. spindle torque	N.m	544	913
hydraulic chuck	inch	12	15
Rapid travel speed X/Z	m/min	20/20	20/20
Cutting feed speed	mm/min	1~2000	1~2000
No. of tools	-	12(horizontal)	12(horizontal)
Living tool rotation speed	r/min	4000	4000
Driving	-	servo	servo
Living turret type	mm	BMT65	BMT65
Turning tool shank size	mm	25×25	25×25
Boring tool holder dia.	mm	Φ40	Φ40
Max. drilling capacity	-	Φ16×0.2	Φ16×0.2
Max. tapping capacity	-	M14×2.0/M20×1.5	
Max. milling capacity	-	Φ20×12×40	Φ20×12×40
Positioning accuracy (X/Z)	mm	0.008/0.012	0.008/0.012
Repeatability accuracy(X/Z)	mm	0.006/0.008	0.006/0.008
Power capacity	kVA	35	40
Coolant tank volume	L	240	280
Dimension	mm	1730×3260×3130	1900×3600×3400
Machine weight	kg	6500	8000

[] Option

Item	Unit	VNL80M	VNL125M	VNL160M	VNL250M	VNL400DM	VNL500DM
Max. swing over bed	mm	Φ1000	Φ1250	Φ1800	Φ2750	Φ4000	Φ5000
Max. turning dia.	mm	Φ800	Φ1500	Φ1600	Φ2500	Φ4000	Φ5000
Max. cutting height	mm	600	1000	1200	2000/2500	2000/2500/3150	2000/2500/3150
Max. workpiece weight	kg	2000	5000	8000	16000	40000	50000
Worktable diameter	mm	Φ630	Φ1250	Φ1600	Φ2250/Φ2500	Φ3600	Φ4500
Max. worktable speed	low rpm	20~150	1~350	1~65	0.020~30	0.020~16	0.050~16
	high rpm	150~600	150~600	66~260	30~120	16~63	16~50
Live tool speed	low rpm	1~2400	1~600	1~600	1~600	1~600	1~600
	high rpm	1~2400	1~600	1~600	600~2400	600~2400	600~2400
Max. worktable torque	N.m	4580	9000	19000	40000	100000	160000
No. of tools (ATC)	Pc	12	16	16	16	16	12
Type of tools	mm	BT50	BT50	BT50	BT50	BT50	BT50
Ram size	mm	200×200	220×220	250×250	250×250	250×250	250×250
Max. tool size	mm	280W×150T×380L					
Max. tool weight	kg	35	50	50	50	50	50
Max. tool load	kg	360	640	640	640	640	560
Tool change time (T to T)	Sec	45	45	45	45	45	45
Rapid travel speed X	m/min	10	12	12	9	6	6
Rapid travel speed Z	m/min	10	10	10	9	6	6
Cutting feed rate	mm/min	1~2000	1~2000	1~2000	1~2000	1~1000	1~1000
Travel X	mm	-50~635	-100~780	-100~950	-20~1400	-20~2175	-20~2675
Travel Z	mm	600	620	900	1400	1400	1400
Travel of beam	mm	/	600	750	1250	1250	1250
Spindle motor power	kW	15×2	15×2	37/45	37×2	37×2	37×2
CNC system	-	NEWAY FANUC[SIEMENS]					
Dimension (LxW)	mm	4000×3350	5450×4100	5790×4470	9700×6500	12000×9000	13500×9700
Height	mm	4500	5100	5300	7500	7500	7600
Machine weight	kg	12000	21000	27000	48000	73000	87000

[] Option



VM series-
High efficiency vertical machining center



VM series-
High efficiency vertical machining center



Item	Unit	VM740SA/HA	VM1050S/H	VM1150 S/H	VM1155S/H	VM1160S/H	VM1260S/H
Worktable size	mm	750×420	1000×520	1100×520	1100×550	1100×600	1200×600
Max. worktable load	kg	350	650	750	700	750	800
Axis travel X/Y/Z	mm	650/420/500	850/520/560	1000/520/560	1000/600/560	1000/600/560	1100/600/600
Spindle terminal to worktable	mm	120~620	150~710	150~710	120~680	150~710	140~740
Spindle center to column guideway	mm	485	580	590	580	660	650
Axis rapid travel speed X/Y/Z	m/min	40/40/30	36/36/36	36/36/30	36/36/30	36/36/30	36/36/30
Spindle motor power	kW	5.5/7.5	7.5/11 [11/15]	7.5/11 [11/15]	7.5/11 [11/15]	7.5/11 [11/15]	11/15
Max. spindle speed	rpm	10000(belt)	8000(belt)	8000(belt)	8000(belt)	8000(belt)	8000(belt)
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40 [7:24 taper NO.50]
Number of tools(disc type)	Pc	20	24	24	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.7	1.8	1.8	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ30	Φ40	Φ40	Φ40	Φ40	Φ45
Tapping (normalized carbon steel)	mm	M16	M20	M20	M20	M20	M24
Milling (normalized carbon steel)	cm³/min	150	200	200	200	200	250
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005
CNC system	-	NEWAY FANUC [SIEMENS、Mitsubish]					
Auto chip conveyer	-	[side way (rear)]	[side way]	[side way]	[side way]	[side way]	side way
Machine weight	kg	3800	5600	6500	5800	6800	7200

[]Option

Item	Unit	VM1270S/H	VM1370S/H	VM1580S/H	VM1780S/H	VM1880S/H
Worktable size	mm	1200×700	1400×700	1500×800	1700×800	1800×800
Max. worktable load	kg	800	1100	1250	1500	1750
Axis travel X/Y/Z	mm	1100/700/600	1300/700/700	1350/800/700	1500/800/700	1700/850/700
Spindle terminal to worktable	mm	140~740	120~820	140~840	150~840	140~840
Spindle center to column guideway	mm	770	773	868	868	900
Axis rapid travel speed X/Y/Z	m/min	30/30/24	24/24/20 (S) 30/30/24 (H)	24/24/20 (S) 30/30/24 (H)	24/24/20 (S) 30/30/24 (H)	24/24/20
Spindle motor power	kW	11/15	11/15	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	8000(皮帶)	8000(belt)	6000(belt)	6000(belt)	6000(belt)
Spindle taper	-	7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
Number of tools(disc type)	Pc	24	24	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ110/350/15	Φ110/350/15	Φ110/350/15
Tool change time T-T	s	1.8	1.8	2.5	2.5	2.5
Drilling (normalized carbon steel)	mm	Φ45	Φ45	Φ50	Φ50	Φ50
Tapping (normalized carbon steel)	mm	M24	M24	M30	M30	M30
Milling (normalized carbon steel)	cm³/min	250	250	300	300	300
Positioning accuracy (X/Y/Z)	mm	0.008	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010
Repeatability accuracy (X/Y/Z)	mm	0.005	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006
CNC system	-	NEWAY FANUC [SIEMENS、Mitsubish]				
Auto chip conveyer	-	side way	side way	side way	side way	side way
Machine weight	kg	8000	9500	11000	13000	14200

[]Option



VM series-
High speed vertical machining center



VM series-
Built-in motor spindle vertical machining center



Item	Unit	VM640D	VM740SL/HL	VM950SL/HL	VM1050SL/HL	VM1155SL/HL	VM1270SL/HL
Worktable size	mm	650×400	750×420	950×520	1000×520	1100×550	1200×700
Max. worktable load	kg	250	350	500	550	600	800
Axis travel X/Y/Z	mm	510/400/350	650/420/500	850/520/560	850/520/560	1000/550/560	1000/700/600
Spindle terminal to worktable	mm	150~500	120~620	120~680	120~680	120~680	140~740
Spindle center to column guideway	mm	458	485	575	580	580	770
Axis rapid travel speed X/Y/Z	m/min	60/60/60	48/48/48	40/40/30	48/48/48	48/48/48	36/36/30
Spindle motor power	kW	3.7/5.5	5.5/7.5	7.5/11	7.5/11	7.5/11	11/15
Max. spindle speed	rpm	20000 (direct connection)	12000(direct connection) [15000(direct connection)]				
Spindle taper	-	7:24 taper NO.30	7:24 taper NO.40				
Spindle temperature	-	Oil cooler	Oil cooler	Oil cooler	Oil cooler	Oil cooler	Oil cooler
Number of tools(disc type)	Pc	16(front location/servo)	20	24	24	24	24
Tool shank	-	MAS403 BT30	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	Φ100/250/3	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.6	1.7	1.8	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ16	Φ30	Φ40	Φ40	Φ40	Φ40
Tapping (normalized carbon steel)	mm	M10	M16	M20	M20	M20	M20
Milling (normalized carbon steel)	cm³/min	60	150	200	200	200	200
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005
CNC system	-	NEWAY FANUC [SIEMENS, Mitsubishi]					
Auto chip conveyor	-	[side way (rear)]			side way	[side way]	[side way]
Machine weight	kg	3000	3800	5000	5600	6000	8000

[] Option

Item	Unit	VM1050V	VM1155V	VM1160V	VM1580V	VM1780V
Worktable size	mm	1000×520	1100×550	1100×600	1500×800	1700×800
Max. worktable load	kg	550	600	750	1250	1500
Axis travel X/Y/Z	mm	850/520/560	1000/550/560	1000/600/560	1350/800/700	1500/800/700
Spindle terminal to worktable	mm	180~740	120~680	150~710	140~840	140~840
Spindle center to column guideway	mm	580	580	659	868	868
Axis rapid travel speed X/Y/Z	m/min	40/40/30	40/40/36	36/36/30	30/30/24	30/30/24
Spindle motor power	kW	18.5/22	16	15/18.5	18.5/26	18.5/26
Max. spindle speed	rpm	15000(built-in)[18000(built-in)][24000(built-in)]				
Spindle taper	-	7:24 taper NO.40 [1:10 taper HSK A63]				
Spindle temperature control	-	Oil cooler [water cooler]				
Number of tools(disc type)	Pc	24	24	24	24	24
Tool shank	-	MAS403 BBT40 [HSK A63]				
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.8	1.8	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ20	Φ20	Φ20	Φ25	Φ25
Tapping (normalized carbon steel)	mm	M12	M12	M12	M16	M16
Milling (normalized carbon steel)	cm³/min	80	80	80	120	120
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.012/0.010/0.010	0.012/0.010/0.010
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.008/0.006/0.006	0.008/0.006/0.006
CNC system	-	NEWAY FANUC [SIEMENS]				
Auto chip conveyor	-	[side way]	side way	side way	side way	side way
Machine weight	kg	5600	5800	6800	11000	13000

[] Option



VD series-
High precision vertical machining center

VM series-
Industry specific vertical machining center



VM series-
Industry specific vertical machining center



Item	Unit	VD650L
Worktable size	mm	650x500
Max. worktable load	kg	300
Axis travel X/Y/Z	mm	600/500/300
Spindle terminal to worktable	mm	150~450
Spindle center to column guideway	mm	-
Axis rapid travel speed X/Y/Z	m/min	60/60/60
Spindle motor power	kW	8.5
Max. spindle speed	rpm	30000
Spindle taper	-	HSK E40
Spindle temperature	-	-
Number of tools(disc type)	Pc	16
Tool shank	-	HSK E40
Max. tool dia./length/weight	mm/mm/kg	Φ65/200/4
Tool change time T-T	s	2.5
Drilling (normalized carbon steel)	mm	Φ16
Tapping (normalized carbon steel)	mm	M10
Milling (normalized carbon steel)	cm³/min	60
Positioning accuracy (X/Y/Z)	mm	0.003
Repeatability accuracy (X/Y/Z)	mm	0.002
CNC system	-	NEWAY FANUC [SIEMENS]
Auto chip conveyer	-	rear way
Machine weight	kg	5500

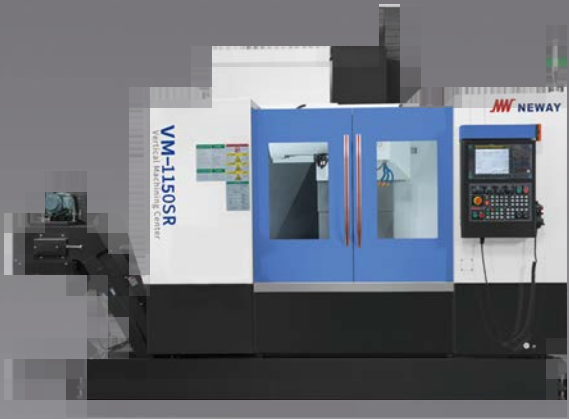
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Item	Unit	VM740VG	VM1050VG	VM1260VG
Worktable size	mm	750×420	1000×520	1200×600
Max. worktable load	kg	350	650	800
Axis travel X/Y/Z	mm	650/420/500	850/520/560	1100/650/600
Spindle terminal to worktable	mm	120~620	150~710	140~740
Spindle center to column guideway	mm	485	580	690
Axis rapid travel speed X/Y/Z	m/min	48/48/48	40/40/36	36/36/30
Spindle motor power	kW	5.5/7.5	7.5/11[11/15]	11/15
Max. spindle speed	rpm	12000(direct connection) [15000(direct connection)]	12000(direct connection) [15000(Built-In)]	
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.40	
Number of tools(disc type)	Pc	20 (Cam type quick change ATC)	24 (servo magazine tool)	
Tool shank	-	BBT40	BBT40	BBT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.6	1.6	1.6
Drilling (normalized carbon steel)	mm	Φ30	Φ40	Φ45
Tapping (normalized carbon steel)	mm	M16	M20	M24
Milling (normalized carbon steel)	cm³/min	150	200	250
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005
CNC system	-	NEWAY FANUC [SIEMENS]		
Auto chip conveyer	-	side chip conveyer	Double spiral chip conveyer + side chip conveyer	
Machine weight	kg	3800	5600	7200

[]Option

Item	Unit	VM2550XC	VM2575XC	VM4550XC	VM4550XC (with swing milling head)
Worktable size	mm	2700×550	2700×700	4500×550	4500×500
Max. worktable load	kg	800/m	800/m	800/m	800/m
Axis travel X/Y/Z	mm	2500/500/520	2000/750/750	4500/500/520	4500/500/600 B axis(swing milling head)
Spindle terminal to worktable	mm	250~770	500~1250	250~770	120~720
Spindle center to column guideway	mm	660	945	660	714
Axis rapid travel speed X/Y/Z	m/min	60/30/30	25/25/25	50/30/30	50/30/30
Spindle motor power	kW	7.5/11	15/18.5	7.5/11	15/18.5
Max. spindle speed	rpm	12000 (direct connection)	12000 (Built-In)	12000 (direct connection)	14000(Built-In)
Spindle taper	-	7:24 taper NO.40			
Number of tools(disc type)	Pc	20	24	20	16
Tool shank	-	BT40	BBT40	BT40	BBT40
Max. tool dia./length/weight	mm/mm/kg	Φ75/300/8	Φ75/300/8	Φ75/300/8	Φ75/300/8
Tool change time T-T	s	1.8	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ30	Φ20	Φ30	Φ25
Tapping (normalized carbon steel)	mm	M16	M12	M16	M14
Milling (normalized carbon steel)	cm³/min	150	80	150	100
Positioning accuracy (X/Y/Z)	mm	0.045/0.022/0.025	0.042/0.025/0.025	0.080/0.022/0.025	0.080/0.022/0.025
Repeatability accuracy (X/Y/Z)	mm	0.030/0.012/0.015	0.020/0.015/0.015	0.050/0.012/0.015	0.050/0.012/0.015
CNC system	-	NEWAY FANUC [SIEMENS]			
Auto chip conveyer	-	side way			
Machine weight	kg	8500	1100	12000	12000

[]Option



VM series-
Heavy cutting vertical machining center



VM series-
5 axis vertical machining center



VM series-
Portal vertical machining center

Item	Unit	VM1150SR/HR	VM1360SR/HR	VM1360RZ	VM1780SR/HR	VM1780RZ
Worktable size	mm	1100×520	1350×600	1350×600	1700×800	1700×800
Max. worktable load	kg	750	1000	1000	1500	1500
Axis travel X/Y/Z	mm	1000/520/560	1200/600/600	1200/600/600	1500/800/680	1500/800/680
Spindle terminal to worktable	mm	150~710	150~750	120~720	150~830	150~830
Spindle center to column guideway	mm	590	665	665	868	880
Axis rapid travel speed X/Y/Z	m/min	20/20/18	20/20/18	20/20/18	18/18/15	18/18/15
Spindle motor power	kW	7.5/11	11/15	11/15	15/18.5	15/18.5
Max. spindle speed	rpm	8000	8000	6000(gear drive)	6000	6000(gear drive)
Spindle taper	-	7:24 taper NO.40		7:24 taper NO.50		
Spindle temperature control	-	Oil cooler [water cooler]				
Number of tools(disc type)	Pc	24	24	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ110/350/15	Φ110/350/15	Φ110/350/15
Tool change time T-T	s	1.8	1.8	2.5	2.5	2.5
Drilling (normalized carbon steel)	mm	Φ40	Φ45	Φ65	Φ50	Φ80
Tapping (normalized carbon steel)	mm	M20	M24	M40	M30	M50
Milling (normalized carbon steel)	cm³/min	200	250	360	300	420
Positioning accuracy (X/Y/Z)	mm	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010	0.015/0.012/0.012	0.015/0.012/0.012
Repeatability accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.010/0.010/0.010	0.010/0.010/0.010
CNC system	-	NEWAY FANUC [SIEMENS, Mitsubishi]				
Auto chip conveyer	-	side way	side way	side way	side way	side way
Machine weight	kg	7000	9000	9000	13000	13300

[] Option

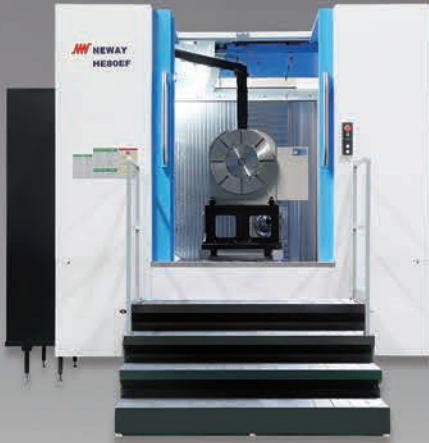
Item	Unit	VM450F	VM650F
Worktable size	mm	Φ450	Φ650
Max. worktable load	kg	200	300
Axis travel X/Y/Z	mm	450/400/400	650/550/500
B/C axis rotating degree	°	±110°/360°	±110°/360°
Spindle terminal to worktable	mm	140~540	175~675
Axis rapid travel speed X/Y/Z	m/min	48/48/40	48/48/40
Spindle motor power	kW	10.6	15.5
Max. spindle speed	rpm	15000	18000
Spindle taper	-	7:24 taper NO.40	HSK A63
Number of tools(disc type)	Pc	30	30
Tool shank	-	MAS403 BT40	HSK A63
Max. tool dia./length/weight	mm/mm/kg	Φ76/300/8	Φ76/300/8
Tool change time T-T	s	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ30	Φ40
Tapping (normalized carbon steel)	mm	M16	M20
Milling (normalized carbon steel)	cm³/min	150	200
Positioning accuracy (X/Y/Z)	mm/sec	0.006/10"	0.006/10"
Repeatability accuracy (X/Y/Z)	mm/sec	0.004/5"	0.004/5"
CNC system	-	SIEMENS 840D sl	
Auto chip conveyer	-	side way	side way
Machine weight	kg	8000	12000

[] Option

Item	Unit	VM12100B
Worktable size	mm	1200x1000
Max. worktable load	kg	2000
Axis travel X/Y/Z	mm	1200/1200/600
Spindle terminal to worktable	mm	200~800 [400~1000][600~1200]
Spindle center to column guideway	mm	426
Axis rapid travel speed X/Y/Z	m/min	30/30/24
Spindle motor power	kW	15/18.5
Max. spindle speed	rpm	5000
Spindle taper	-	7:24 taper NO.50
Number of tools(disc type)	Pc	24
Tool shank	-	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ110/350/15
Tool change time T-T	s	2.5
Drilling (normalized carbon steel)	mm	Φ60
Tapping (normalized carbon steel)	mm	M36
Milling (normalized carbon steel)	cm³/min	350
Positioning accuracy (X/Y/Z)	mm	0.010/0.010/0.008
Repeatability accuracy (X/Y/Z)	mm	0.006/0.006/0.005
CNC system	-	NEWAY FANUC [SIEMENS]
Auto chip conveyer	-	[side way (rear)]
Machine weight	kg	15000



HE Series-
High speed horizontal machining center



HM Series-
Heavy cutting horizontal machining center



Item	Unit	HE50S	HE50D	HE50DA	HE63S	HE63D	HE80S	HE80D	HE80EV	HE80EF
Worktable size	mm	500×500	2-500×500	2-500×500	630×630	630×630	800×800	8800×800	800×800	800×800
Max. worktable load	kg	500	500	500	1200	1200	1500	1500	2500	2500 (B) /600(C)
Worktable indexing	-	1°×360[0.001°×360000]				1°×360[0.001°×360000]			0.001°×360000	
Worktable exchanging time	s	/	12	12	/	16	/	16	/	/
Worktable exchanging drive	-	/	motor	motor	/	hydraulic	/	hydraulic	/	/
Worktable max. rotate speed	r/min	16		16	16		16		20	20(B)/20(C)
Max. part diameter / height	mm	Φ800/1000		Φ800/1000	Φ1050/1300		Φ1250/1300		Φ1600/1800	Φ1500 (C)
Axis travel X/Y/Z	mm	730/730/800		750/750/800	1050/900/1000		1250/900/1100		1350/1300/1200	
Spindle terminal to worktable	mm	70~870		25~825	140~1140	100~1100	140~1240	100~1200	160~1360	160~1360 (B)
Spindle center to worktable surface	mm	100~830		50~800	120~1020		120~1020	80~980	50~1350	
Axis rapid travel speed X/Y/Z	m/min	60		40	60		60		60	
Spindle motor power	kW	15/18.5		15/18.5	18.5/30		22/35		26/45	
Max. spindle speed	rpm	12000		6000	4500		4500		8000	
Spindle torque	N.m	104/128		143/236	649/1050		770/1226		305/623	
Spindle taper	-	7:24 taper NO.40		7:24 taper NO.50	7:24 taper NO.50		7:24 taper NO.50		7:24 taper NO.50	
Number of tool	Pc	40(disc type)		24(disc type)	40		40		40	
Tool shank	-	MAS403 BT40		MAS403 BT50	MAS403 BT50		MAS403 BT50		MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	Φ85/500/8		Φ125/500/25	Φ125/530/25		Φ125/530/25		Φ125/600/25	
Max. tool size (empty neighbor)	mm	Φ170		Φ250	Φ250		Φ250		Φ250	
Tool change time T-T	s	1.5		3	2.8s (≤25kg) /2.4s (≤15kg)		2.8s (≤25kg) /2.4s (≤15kg)		2.8s (≤25kg) /2.4s (≤15kg)	
Drilling (normalized carbon steel)	mm	Φ50		Φ50	Φ55		Φ55		Φ55	
Tapping (normalized carbon steel)	mm	M36		M36	M45		M45		M45	
Milling (normalized carbon steel)	cm³/min	300		300	600		600		600	
Positioning accuracy X/Y/Z	mm	0.010		0.01	0.010		0.010		0.010	
Repeatability accuracy X/Y/Z	mm	0.006		0.006	0.006		0.006		0.006	
Positioning accuracy (B)	"	15		6	6		6		10	
Repeatability accuracy (B)	"	6		2	2		2		4	
CNC system	-	NEWAY FANUC [SIEMENS]								
Auto chip conveyor	-	Z axis with double helix + rear chain chip conveyor								
Machine weight	kg	11000	12000	12000	18000	20000	18000	21000	18000	19000

[]Option

Item	Unit	HE65EF
Worktable size	mm	650×650
Max. worktable load	kg	1000
Worktable indexing	-	0.001°
Worktable exchanging time	s	/
Worktable exchanging drive	-	/
Worktable max. rotate speed	r/min	30
Max. part diameter / height	mm	Φ1500×925
Axis travel X/Y/Z	mm	1350/1200/700
Spindle terminal to worktable	mm	0~700
Spindle center to worktable surface	mm	-275~925
Axis rapid travel speed X/Y/Z	m/min	60
Spindle motor power	kW	26/45
Max. spindle speed	rpm	10000
Spindle torque	N.m	305/623
Spindle taper	-	7:24 taper NO.50
Number of tool	Pc	40
Tool shank	-	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ125/530/25
Max. tool size (empty neighbor)	mm	Φ250
Tool change time T-T	s	3
Drilling (normalized carbon steel)	mm	Φ55
Tapping (normalized carbon steel)	mm	M45
Milling (normalized carbon steel)	cm³/min	600
Positioning accuracy X/Y/Z	mm	0.01
Repeatability accuracy X/Y/Z	mm	0.006
Positioning accuracy (B)	"	8
Repeatability accuracy (B)	"	4
CNC system	-	NEWAY FANUC [SIEMENS]
Auto chip conveyor	-	Z axis with double helix rear chain chip conveyor
Machine weight	kg	21000

Item	Unit	HM50TD	HM50TSA	HM63TEA
		(BT50)	(BT50)	(BT50)
Worktable size	mm	2-500×500	500×500	630×630
Max. worktable load	kg	500	800	1000
Worktable indexing	-	1°×360[0.001°×360000]		
Worktable exchanging time	s	12	/	/
Worktable exchanging drive	-	hydraulic	/	/
Worktable max. rotate speed	r/min	10	10	10
Max. part diameter / height	mm	Φ630/700	Φ1000/800	Φ1200/1000
Axis travel X/Y/Z	mm	750/600/650	850/750/750	1000/800/800
Spindle terminal to worktable	mm	50~700	50~800	50~850
Spindle center to worktable surface	mm	100~700	0~750	0~800
Axis rapid travel speed X/Y/Z	m/min	30/20/30 [30/24/30]	30/20/30 [30/24/30]	30/20/30 [30/24/30]
Spindle motor power	kW	15/18.5 [11/15]	15/18.5 [11/15]	15/18.5 [11/15]
Max. spindle speed	rpm	6000	6000	6000
Spindle torque	N.m	143/236 [140/191]	143/236 [140/191]	
Spindle taper	-	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
Number of tool	Pc	24 (disc type)	24 (disc type)	30 (disc type)
Tool shank	-	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ110/350/20	Φ110/350/20	Φ125/500/25
Max. tool size (empty neighbor)	mm	Φ250	Φ250	Φ250
Tool change time T-T	s	3.8	3.8	3.8
Drilling (normalized carbon steel)	mm	Φ35	Φ35	Φ35
Tapping (normalized carbon steel)	mm	M24	M24	M24
Milling (normalized carbon steel)	cm³/min	250	250	250
Positioning accuracy X/Y/Z	mm	0.010	0.010	0.010
Repeatability accuracy X/Y/Z	mm	0.006	0.06	0.06
Positioning accuracy (B)	"	6	6	6
Repeatability accuracy (B)	"	2	2	2
CNC system	-	NEWAY FANUC [SIEMENS]		
Auto chip conveyor	-	X axis double helix + sideways chain type chip conveyer	Z axis double helix + X axis double chain type chip conveyer + sideways chain type chip conveyer	
Machine weight	kg	13000	12000	12000

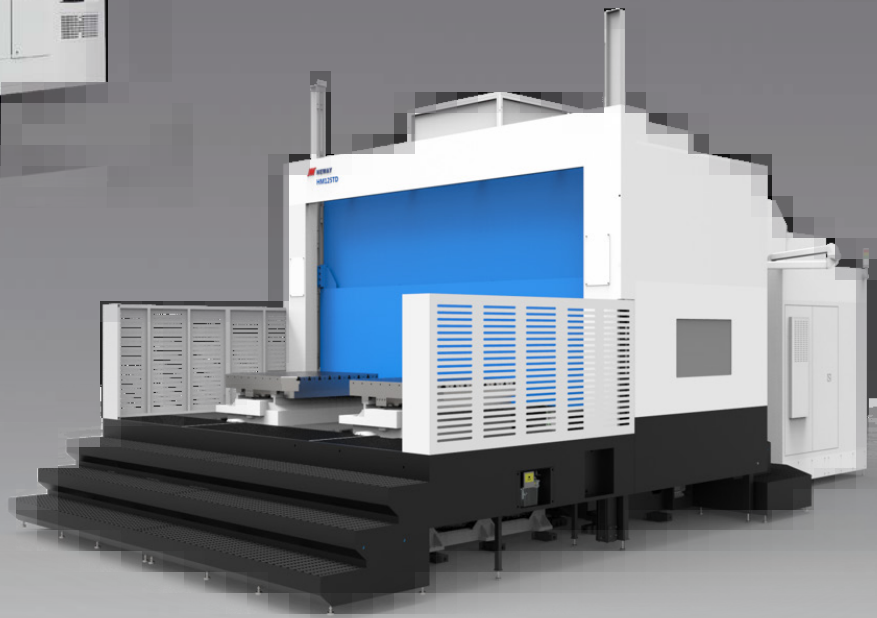
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HM Series-
Heavy cutting horizontal machining center



HM Series-
Heavy cutting horizontal machining center

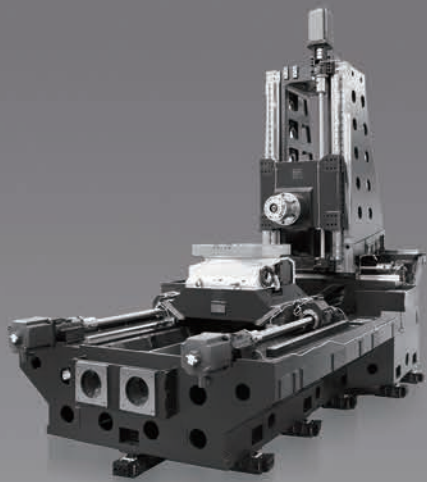


Item	Unit	HM63TS	HM63TD	HM6380TD	HM80TS	HM80TD	HM8080TD
Worktable size	mm	630×630	2-630×630	2-630×800	800×800	2-800×800	2-800×800
Max. worktable load	kg	1200		1200	1600		1600
Worktable indexing	-	1°×360[0.001°×360000]					
Worktable exchanging time	s	/	20	55	/	25	55
Worktable exchanging drive	-	/	hydraulic	hydraulic	/	Servo motor	hydraulic
Worktable max. rotate speed	r/min	10		10	10		10
Max. part diameter / height	mm	φ1000/1000		φ1000/1000	φ1300/1300		φ1750/1300
Axis travel X/Y/Z	mm	1000/850/900		1000/850/900	1400/1050/1050		1400/1050/1050
Spindle terminal to worktable	mm	200~1100		200~1100	250~1300		250~1300
Spindle center to worktable surface	mm	80~930	80~930	0~850	120~1170	0~1050	0~1050
Axis rapid travel speed X/Y/Z	m/min	20 [30]		20 [30]	16 [24]		16 [24]
Spindle motor power	kW	15/18.5 [18.5/22]		15/18.5 [18.5/22]	15/18.5 [22/26]		15/18.5 [22/26]
Max. spindle speed	rpm	4500		4500	4500		4500
Spindle torque	N.m	786/1050 [647/770]		786/1050 [647/770]	786/1050 [770/910]		786/1050 [770/910]
Spindle taper	-	7:24 taper NO.50		7:24 taper NO.50	7:24 taper NO.50		7:24 taper NO.50
Number of tool	Pc	40 (chain type)		40 (chain type)	40 (chain type)		40 (chain type)
Tool shank	-	MAS403 BT50		MAS403 BT50	MAS403 BT50		MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	φ125/400/25		φ125/500/25	φ125/400/25		φ125/400/25
Max. tool size (empty neighbor)	mm	φ250		φ250	φ250		φ250
Tool change time T-T	s	4.75		4.75	4.75		4.75
Drilling (normalized carbon steel)	mm	φ55		φ55	φ55		φ55
Tapping (normalized carbon steel)	mm	M45		M45	M45		M45
Milling (normalized carbon steel)	cm³/min	600		600	600		600
Positioning accuracy (X/Y/Z)	mm	0.010		0.010	0.010		0.010
Repeatability accuracy X/Y/Z	mm	0.006		0.006	0.006		0.006
Positioning accuracy (B)	"	6		6	6		6
Repeatability accuracy (B)	"	2		2	2		2
CNC system	-	NEWAY FANUC [SIEMENS]					
Auto chip conveyor	-	Z axis double helix + X axis double chain type chip conveyor + sideway chain type chip conveyer					
Machine weight	kg	18000	21000	21000	20000	23000	23000

[] Option

Item	Unit	HM100TS	HM100TD	HM100TL	HM125TS	HM125TD	HM125TBS	HM125TBD
Worktable size	mm	1000×1000	2-1000×1000	1000×1000	1250×1250	2-1250×1250	1250×1250	2-1250×1250
Max. worktable load	kg	2000		3000	4000		4000	
Worktable indexing	-	1°×360[0.001°×360000]						
Worktable exchanging time	s	/	25	/	/	90	/	90
Worktable exchanging drive	-	/	Servo motor	/	/	hydraulic	/	hydraulic
Worktable max. rotate speed	r/min	10		10	5.5		5.5	
Max. part diameter / height	mm	φ1300/1300		φ2000/2000	φ2000/2000	φ2000/1800	φ2000/2000	φ2000/1800
Axis travel X/Y/Z	mm	1600/1100/1100		2100/1300/1300	2200/1500/1500		2200/1500/1500/500 (w)	
Spindle terminal to worktable	mm	250~1350		300~1600	300~1800		300~1800	
Spindle center to worktable surface	mm	120~1220	0~1100	120~1420	120~1620		120~1620	
Axis rapid travel speed X/Y/Z	m/min	16 [24]		20	20		20/20/20/5	
Spindle motor power	kW	15/18.5 [22/26]		22/26	22/26		22/26	
Max. spindle speed	rpm	4500		4500	4500		3500	
Spindle torque	N.m	786/1050 [770/910]		1155/1365	1155/1365		1155/1365	
Spindle taper	-	7:24 taper NO.50		7:24 taper NO.50	7:24 taper NO.50		7:24 taper NO.50	
Number of tool	Pc	40 (chain type)		60 (chain type)	60 (chain type)		60 (chain type)	
Tool shank	-	MAS403 BT50		MAS403 BT50	MAS403 BT50		MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	φ125/400/25		φ125/600/35	φ125/600/35		φ125/600/35	
Max. tool size (empty neighbor)	mm	φ250		φ250	φ250		φ250	
Tool change time T-T	s	4.75		7.5	7.5		7.5	
Drilling (normalized carbon steel)	mm	φ60		φ70	φ70		φ70	
Tapping (normalized carbon steel)	mm	M48		M50	M50		M50	
Milling (normalized carbon steel)	cm³/min	900		1000	1000		1000	
Positioning accuracy (X/Y/Z)	mm	0.010		0.015	0.015		0.015	
Repeatability accuracy X/Y/Z	mm	0.006		0.010	0.010		0.010	
Positioning accuracy (B)	"	6		6	6		6	
Repeatability accuracy (B)	"	2		2	2		2	
CNC system	-	NEWAY FANUC [SIEMENS]						
Auto chip conveyor	-	Z axis double helix + X axis double chain type chip (Remark: HM125TBS/TBD boring bar diameter φ110)						
Machine weight	kg	21000	24000	34000	35000	38000	35000	38000

[] Option



HE Series-
High efficiency horizontal machining center



HM Series-
Swing head 5-axis horizontal machining center



HP Series-
High-speed cradle
5-axis horizontal machining center

Item	Unit	HE63SZ	HE63SV	HE100AZ	HE100AV	HE50FZ	HE50FV
Worktable size	mm	630×630	630×630	1000×500	1000×500	500×500	500×500
Max. worktable load	kg	1200	1200	800	800	400	400
Worktable indexing	-	0.001°×360000	0.001°×360000	0.001°×360000	0.001°×360000	0.001°×360000	0.001°×360000
Worktable exchanging time	s	/	/	/	/	/	/
Worktable exchanging drive	-	/	/	/	/	/	/
Worktable max. rotate speed	r/min	30	30	12	12	30(Baxis)/12(Aaxis)	30(Baxis)/12(Aaxis)
Max. part diameter / height	mm	Φ900/1000	Φ900/1000	Φ900/600	Φ900/600	Φ800/600	Φ800/600
Axis travel X/Y/Z	mm	1000/890/1000	1000/890/1000	1000/890/970	1000/890/970	1000/890/970	1000/890/970
A-axis rotation range	°	/	/	±360	±360	±120	±120
B-axis rotation range	°	±360	±360	/	/	±360	±360
Spindle terminal to worktable	mm	120~1120	120~1120	150~1120	150~1120	150~1120	150~1120
Spindle center to worktable surface	mm	100~990	100~990	-37~853	-37~853	-37~853	-37~853
Axis rapid travel speed X/Y/Z	m/min	60	60	60	60	60	60
Spindle motor power	kW	22/26	50/65[50/70]	22/26	50/65 [50/70]	22/26	50/65 [50/70]
Max. spindle speed	rpm	6000	8000[10000]	6000	8000 [10000]	6000	8000 [10000]
Spindle torque	N.m	770/910	405/526[400/560]	770/910	405/526 [400/560]	770/910	405/526 [400/560]
Spindle taper	-	HSK-A100	HSK-A100	HSK-A100	HSK-A100	HSK-A100	HSK-A100
Number of tools(disc type)	Pc	40 (chain type)	40 (chain type)	40 (chain type)	40 (chain type)	40 (chain type)	40 (chain type)
Tool shank	-	HSK-A100	HSK-A100	HSK-A100	HSK-A100	HSK-A100	HSK-A100
Max. tool dia./length/weight	mm/mm/kg	Φ125/450/25	Φ125/450/25	Φ125/450/25	Φ125/450/25	Φ125/450/25	Φ125/450/25
Max. tool size (empty neighbor)	mm	Φ250	Φ250	Φ250	Φ250	Φ250	Φ250
Tool change time T-T	s	2.25(Knife weight<25kg)/ 1.6(Knife weight<10kg)					
Drilling (normalized carbon steel)	mm	Φ55	Φ55	Φ55	Φ55	Φ55	Φ55
Tapping (normalized carbon steel)	mm	M45	M45	M45	M45	M45	M45
Milling (normalized carbon steel)	cm³/min	600	600	600	600	600	600
Positioning accuracy (X/Y/Z)	mm	0.01	0.01	0.01	0.01	0.01	0.01
Repeatability accuracy X/Y/Z)	mm	0.006	0.006	0.006	0.006	0.006	0.006
Positioning accuracy (B)	"	8	8	8	8	8	8
Repeatability accuracy (B)	"	5	5	5	5	5	5
CNC system	-	NEWAY FANUC [SIEMENS]					
Auto chip conveyer	-	Central double screw chip removal					
Machine weight	kg	21000	21000	22000	22000	23000	23000

[]Option

Item	Unit	HM80TF	HM100TLU	HM125TU	HP80F
Worktable size	mm	Φ800	1000×1000	1250×1250	[Φ800]
Max. worktable load	kg	700	2000	4000	1000
Worktable indexing	-	0.001°×360000	0.001°×360000	0.001°×360000	0.001°×360000
Worktable exchanging time	S	/	/	/	/
Worktable exchanging drive	-	/	/	/	/
Worktable max. rotate speed	r/min	/	10	8	25(A)/40(B)
Max. part diameter / height	mm	Φ800/750	Φ2000/2000	Φ2000/2000	Φ1850×1840
Axis travel X/Y/Z	mm	1200/1100/1100	2100/1300/1300	2200/1500/1500	1500/1325/660
A-axis rotation range	°	-30~+110	±105	±105	-120~+120
B-axis rotation range	°	±360	±360	±360	360°
Spindle terminal to worktable(horizontal)	mm	150~1250	-280~1020	-280~1220	-
Spindle center to worktable surface(horizontal)	mm	-350~+750	120~1420	120~1620	-
Spindle terminal to worktable surface (vertical)		210~1310	-160~1140	-160~1340	-
Spindle center to worktable(vertical)		-410~+690	0~1300	0~1500	-
Axis rapid travel speed X/Y/Z	m/min	20	20	20	120
Spindle motor power	kW	22/30	56/70	56/70	40/60
Max. spindle speed	rpm	12000	15000	15000	10000
Spindle torque	N.m	161/216	89/111	89/111	119/180
Spindle taper	-	HSK-A100	HSK-A63	HSK-A63	HSK-A100
Number of tools(disc type)	Pc	40 (链式)	60chain type)	60 (chain type)	40
Tool shank	-	HSK-A100	HSK-A63	HSK-A63	HSK-A100
Max. tool dia./length/weight	mm/mm/kg	Φ125mm/400mm/25kg	Φ75mm/400mm/8kg	Φ75mm/400mm/8kg	Φ110/500/30
Max. tool size (empty neighbor)	mm	Φ250	Φ150	Φ150	Φ125
Tool change time T-T	s	4.75	10	10	3
Drilling (normalized carbon steel)	mm	Φ30	Φ30	Φ30	Φ55
Tapping (normalized carbon steel)	mm	M20	M20	M20	M45
Milling (normalized carbon steel)	cm3/min	200	200	200	600
Positioning accuracy (X/Y/Z)	mm	0.015	0.015	0.015	0.008
Repeatability accuracy X/Y/Z)	mm	0.01	0.01	0.01	0.005
Positioning accuracy (B)	"	10	10	10	10
Repeatability accuracy (B)	"	5	5	5	5
CNC system	-	NEWAY SIEMENS	NEWAY SIEMENS	NEWAY SIEMENS	SIEMENS
Auto chip conveyer	-	Z axis double helix + X axis double chain type chip conveyer			Scraper chip removal rear row
Machine weight	kg	21000	34000	35000	28000

[]Option

PM Series-
High speed gantry machining center



Item	Unit	PM1220HA	PM1230HA	PM1530HA	PM1830HA	PM1840HA
Worktable width	mm	1200		1500	1800	
Worktable length	mm	2000	3000	3000	3000	4000
Table load	kg	3500	5500	7000	10000	12000
Worktable travel (X axis)	mm	2200	3200	3200	3200	4200
Carriage travel (Y axis)	mm	1500 [1700]		1900	2700	
Ram travel (Z axis)	mm	800		800	800 [1000]	
Spindle terminal to worktable	mm	200~1000		200~1000	200~1000 [200~1200]	
Column span	mm	1400 [1600]		1800	2300	
Tool shank size	-	BT50		BT50	BT50	
Spindle speed	r/min	40~6000		40~6000	40~6000	
Max. output torque	N.m	788/1295		788/1295	525/647 [770/910]	
Spindle motor power	kW	15/18.5		15/18.5	15/18.5 [22/26]	
Ram section	mm	400×320		400×320	400×400	
X/Y/Z axis rapid travel speed	m/min	24/24/15	15/24/15	12/24/15	20/18/15	15/18/15
Tool position	-	24 [32/40/60]		24 [32/40/60]	[24/32/40/60]	
Max. tool diameter/length/weight	mm/mm/kg	Φ110/350/18		Φ110/350/18	Φ110/350/18	
Max. tool diameter (empty neighbor)	mm	Φ200		Φ200	Φ200	
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.015/0.010	0.015/0.010	0.018/0.010	0.020/0.012
Y axis positioning /repeatability accuracy	mm	0.012/0.008		0.014/0.009	0.015/0.010	
Z axis positioning /repeatability accuracy	mm	0.008/0.006		0.008/0.006	0.015/0.010	
CNC system	-	NEWAY FANUC [SIEMENS]				
Machine weight	kg	19000	23000	25000	30000	35000

[]Option

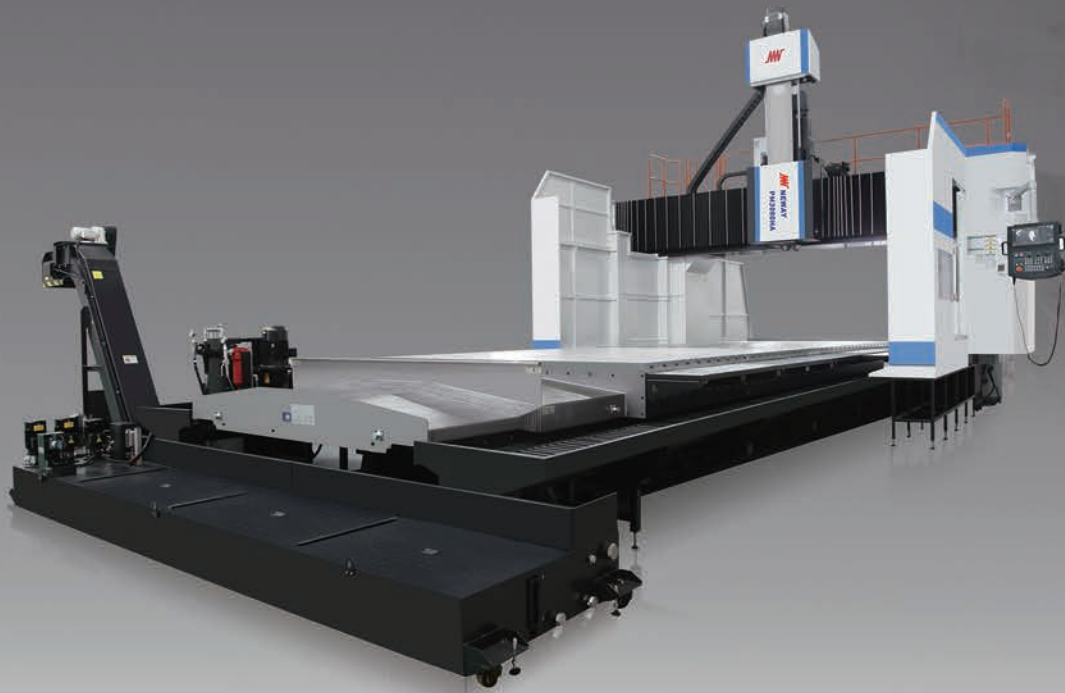
PM Series-
High speed gantry machining center



Item	Unit	PM2030HA	PM2040HA	PM2060HA	PM2080HA	PM2540HA	PM2560HA	PM2580HA	PM25100HA
Worktable width	mm	2000				2500			
Worktable length	mm	3000	4000	6000	8000	4000	6000	8000	10000
Table load	kg	16000	20000	26000	28000	22000	30000	35000	40000
Worktable travel (X axis)	mm	3200	4200	6200	8500	4200	6200	8500	10500
Carriage travel (Y axis)	mm	3200				3200	3700[4200]		
Ram travel (Z axis)	mm	1000 [800] [1250]				1000 [1250]			
Spindle terminal to worktable	mm	200~1200 [200~1000] [250~1500]				200~1200 [250~1500]			140~1140 [190~1440]
Column span	mm	2800 [3200]				2800 [3200]	3300 [3800]		
Tool shank size	-	BT50				BT50			
Spindle speed	r/min	40~6000 [Z axis 1250:40~4500]				40~6000 [Z axis 1250:40~4500]			
Max. output torque	N.m	770/910				770/910			
Spindle motor power	kW	22/26				22/26			
Ram section	mm	400×400 [Z axis 1250:420×420]				400×400 [Z axis 1250:420×420]			
X/Y/Z axis rapid travel speed	m/min	15/15/12	15/15/12	12/15/12	10/15/10	12/12/12	12/12/12	10/12/12	8/12/12
Tool position	-	[24/32/40/60]				[24/32/40/60]			
Max. tool diameter/length/weight	mm/mm/kg	Φ110/350/18				Φ110/350/18			
Max. tool diameter (empty neighbor)	mm	Φ200				Φ200			
X axis positioning /repeatability accuracy	mm	0.018/0.010	0.020/0.012	0.028/0.018	0.032/0.020	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.018/0.012				0.024/0.016			
Z axis positioning /repeatability accuracy	mm	0.015/0.010[Z axis 1250:0.018/0.012]				0.015/0.010[Z axis 1250:0.018/0.012]			
CNC system	-	NEWAY FANUC [SIEMENS]							
Machine weight	kg	41000	45000	55000	65000	50000	65000	85000	95000

[]Option

PM Series-
High speed gantry machining center



Item	Unit	PM3040HA	PM3060HA	PM3080HA	PM30100HA
Worktable width	mm	3000			
Worktable length	mm	4000	6000	8000	10000
Table load	kg	25000	35000	40000	45000
Worktable travel (X axis)	mm	4200	6200	8500	10500
Carriage travel (Y axis)	mm	4200[4600]			
Ram travel (Z axis)	mm	1250			
Spindle terminal to worktable	mm	250~1500			190~1440
Column span	mm	3800[4200]			
Tool shank size	-	BT50			
Spindle speed	r/min	40~6000[Z axis 1250:40~4500]			
Max. output torque	N.m	770/910			
Spindle motor power	kW	22/26			
Ram section	mm	400×400 [Z axis 1250:420×420]			
X/Y/Z axis rapid travel speed	m/min	12/12/12	12/12/12	10/12/12	8/12/12
Tool position	-	[24/32/40/60]			
Max. tool diameter/length/weight	mm/mm/kg	Φ110/350/18			
Max. tool diameter (empty neighbor)	mm	Φ200			
X axis positioning /repeatability accuracy	mm	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.028/0.018			
Z axis positioning /repeatability accuracy	mm	0.018/0.012			
CNC system	-	NEWAY FANUC [SIEMENS]			
Machine weight	kg	55000	70000	90000	100000

[]Option

PM Series-
High speed gantry machining center



Item	Unit	PM1320HC	PM1330HC	PM1525HC	PM1530HC	PM2030HC	PM2040HC	PM2060HC	PM2560HC
Worktable width	mm	1300	1300	1500	1500	2000			2500
Worktable length	mm	2100	3100	2600	3100	3000	4000	6000	6000
Table load	kg	3500	8000	8000	8000	14000	18000	24000	28000
Worktable travel (X axis)	mm	2200	3200	2700	3200	3200	4200	6200	6500
Carriage travel (Y axis)	mm	1500	1500	1700	1700	2700			3200
Ram travel (Z axis)	mm	800				1000[1250]			
Spindle terminal to worktable	mm	200~1000	200~1000	200~1000	200~1000	250~1250[300~1550]			
Column span	mm	1600	1600	1800	1800	2800			3300
Tool shank size	-	BT50				BT50			
Spindle speed	r/min	40~8000				40~6000			
Max. output torque	N.m	352/470				770/910			
Spindle motor power	kW	15/18.5				22/26			
Ram section	mm	400×395				400×400			
X/Y/Z axis rapid travel speed	m/min	24/24/15	15/24/15	15/24/15	12/24/15	15/20/15	15/20/15	12/20/15	12/15/15
Tool position	-	[24/32/40]				[24/32/40/60]			
Max. tool diameter/length/weight	mm/mm/kg	Φ110/350/18				Φ110/350/18			
Max. tool diameter (empty neighbor)	mm	Φ200				Φ200			
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.015/0.010	0.012/0.008	0.015/0.010	0.018/0.012	0.020/0.012	0.028/0.018	0.028/0.018
Y axis positioning /repeatability accuracy	mm	0.012/0.008				0.018/0.012			0.024/0.016
Z axis positioning /repeatability accuracy	mm	0.008/0.006				0.015/0.010			
CNC system	-	NEWAY FANUC [SIEMENS]							
Machine weight	kg	16500	18500	18500	20500	34000	38000	46000	55000

[]Option

PM Series-
High speed direct drive spindle gantry machining center



Item	Unit	PM1830L	PM1320L	PM1330L	PM1525L	PM2030L	PM2040L	PM2060L
Worktable width	mm	1300			1500	2000		
Worktable length	mm	900	2100	3100	2600	3000	4000	6000
Table load	kg	1500	3500	8000	8000	14000	20000	24000
Worktable travel (X axis)	mm	800	2200	3200	2700	3200	4200	6200
Carriage travel (Y axis)	mm	1300	1500		1700	2700		
Ram travel (Z axis)	mm	700			700	1000		
Spindle terminal to worktable	mm	350~1050			350~1050	180~1180		
Column span	mm	1400	1600		1800	2800		
Tool shank size	-	BT40			BT40	BT50		
Spindle speed	r/min	15000			15000	100~10000		
Max. output torque	N.m	34/46			34/46	140/165		
Spindle motor power	kW	11.7/15.8			11.7/15.8	22/26		
Ram section	mm	350×350			350×350	450×400		
X/Y/Z axis rapid travel speed	m/min	24/24/24	18/24/24		18/24/24	15/15/15	15/15/15	12/15/15
Tool position	-	[24/32]			[24/32]	[24/32/40/60]		
Max. tool diameter/length/weight	mm/mm/kg	φ80/250/8			φ80/250/8	φ105/350/15		
Max. tool diameter (empty neighbor)	mm	φ150			φ150	φ200		
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.012/0.008	0.015/0.010	0.012/0.008	0.018/0.010	0.020/0.012	0.028/0.018
Y axis positioning /repeatability accuracy	mm	0.012/0.008			0.012/0.008	0.018/0.012		
Z axis positioning /repeatability accuracy	mm	0.008/0.006			0.008/0.006	0.010/0.008		
CNC system	-	SIEMENS 828D [NEWAY FANUC]				NEWAY FANUC [SIEMENS]		
Machine weight	kg	12000	16000	18000	18000	33000	37000	45000

[]Option

PM Series-
Electrical spindle gantry machining center



Item	Unit	PM1320V	PM1330V	PM1525V	PM1530V	PM2030V	PM2040V	PM2060V	PM2060V
Worktable width	mm	1300		1500	1500	2000			2500
Worktable length	mm	2100	3100	2600	3100	3000	4000	6000	6000
Table load	kg	3500	8000	8000	8000	14000	20000	26000	28000
Worktable travel (X axis)	mm	2200	3200	2700	3200	3200	4200	6200	6500
Carriage travel (Y axis)	mm	1500		1700	1700	2700			3200
Ram travel (Z axis)	mm	800	800		800	1000[1250]			
Spindle terminal to worktable	mm	285~1085		285~1085	285~1085	180~1180[230~1480]			
Column span	mm	1600		1800	1800	2800			3300
Tool shank size	-	HSK-A63		HSK-A63	HSK-A63	BT50			
Spindle speed	r/min	100~18000		100~18000	100~18000	100~10000			
Max. output torque	N.m	51.7/107		51.7/107	51.7/107	305/623			
Spindle motor power	kW	13/18.5		13/18.5	13/18.5	26/45			
Ram section	mm	400×320		400×320	400×320	450×450			
X/Y/Z axis rapid travel speed	m/min	24/24/15	15/24/15	15/24/15	12/24/15	15/15/15	15/15/15	12/15/15	12/15/15
Tool position	-	[24/32/40/60]		[24/32/40/60]	[24/32/40/60]	24/32/40/60]			
Max. tool diameter/length/weight	mm/mm/kg	Φ80/300/8		Φ80/300/8	Φ80/300/8	Φ110/350/18			
Max. tool diameter (empty neighbor)	mm	Φ150		Φ150	Φ150	Φ200			
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.015/0.010	0.012/0.008	0.015/0.010	0.018/0.010	0.020/0.012	0.028/0.018	0.028/0.018
Y axis positioning /repeatability accuracy	mm	0.012/0.008		0.012/0.008	0.012/0.008	0.018/0.012			0.024/0.016
Z axis positioning /repeatability accuracy	mm	0.008/0.006		0.008/0.006	0.008/0.006	0.010/0.008[Z axis1250:0.015/0.010]			
CNC system	-	NEWAY FANUC[SIEMENS]				NEWAY FANUC			
Machine weight	kg	16500	18500	18500	20500	33000	37000	45000	55000

[]Option

PM Series-
High speed 5 axis gantry machining center



PMB Series-
High speed 5 axis bridge type gantry machining center



Item	Unit	PM1830U	PM2030U	PM2040U	PM2060U	PM2560U	PM3060U
Worktable width	mm	1800	2000			2500	3000
Worktable length	mm	3000	3000	4000	6000	6000	6000
Table load	kg	10000	16000	20000	26000	30000	35000
Worktable travel (X axis)	mm	3200	3200	4200	6200	6500	6500
Carriage travel (Y axis)	mm	2700	3200			3700	4200
Ram travel (Z axis)	mm	1000	1000[1250]			1000[1250]	1000[1250]
Spindle terminal to worktable	mm	250-1250	250~1250[300~1550]			250~1250[300~1550]	150~1150[200-1450]
Column span	mm	2300	2800			3300	3800
Tool shank size	-	HSK-A63					
Spindle speed	r/min	24000					
Max. output torque	N.m	60/73					
Spindle motor power	kW	37/46					
A/C axis indexing degree	°	±105/±360					
A/C axis positioning accuracy	degree/second	±5/±3					
X/Y/Z axis rapid travel speed	m/min	15/15/15	15/20/20	15/20/20	15/20/20	12/12/12	10/12/12
Tool position	-	[24/32/40/60]					
Max. tool diameter/length/weight	mm/mm/kg	φ80/400/8	φ80/400/8				
Max. tool diameter (empty neighbor)	mm	φ150	φ150				
X axis positioning /repeatability accuracy	mm	0.018/0.011	0.018/0.010	0.020/0.012	0.025/0.016	0.025/0.016	0.025/0.016
Y axis positioning /repeatability accuracy	mm	0.016/0.010	0.017/0.010			0.020/0.012	0.022/0.014
Z axis positioning /repeatability accuracy	mm	0.010/0.008	0.010/0.008 [1000]			0.010/0.008 [1000]	0.010/0.008 [1000]
CNC system	-	SIEMENS [HEIDENHAIN]					
Machine weight	kg	31000	40000	45000	55000	65000	70000

[]Option

Item	Unit	PMB2030U	PMB2040U	PMB2060U	PMB2540U	PMB2560U	PMB3060U	PMB3080U	PMB2040LU	
Worktable width	mm	2000			2500		3000		2000	
Worktable length	mm	3000	4000	6000	4000	6000	6000	8000	4000	
Table load	kg/m ²	5000			5000		5000		5000	
Worktable travel (X axis)	mm	3000	4000	6000	4000	6000	6000	8000	4000	
Carriage travel (Y axis)	mm	2300			2800		3300		2500	
Ram travel (Z axis)	mm	1000[1250][1500]							1000	
Spindle terminal to worktable	mm	300~1300[400~1650][150~1650]							200-1200	
Column span	mm	3200			3700		4200		3450	
Tool shank size	-	HSK-A63			HSK-A63		HSK-A63		HSK-A63	
Spindle speed	r/min	24000			24000		24000		24000	
Max. output torque	N.m	60/73			60/73		60/73		60/73	
Spindle motor power	kW	37/46			37/46		37/46		37/46	
A/C axis indexing degree	°	±105/±360			±105/±360		±105/±360		105/±360	
A/C axis positioning accuracy	degree/second	±5/±3			±5/±3		±5/±3		±5/±3	
X/Y/Z axis rapid travel speed	m/min	40/30/25			40/30/25		40/30/25		60/60/30	
Tool position	-	[24/30/60]			[24/30/60]		[24/30/60]		30	
Max. tool diameter/length/weight	mm/mm/kg	φ95/350/8			φ95/350/8		φ95/350/8		φ95/350/8	
Max. tool diameter (empty neighbor)	mm	φ130			φ130		φ130		φ130	
X axis positioning /repeatability accuracy	mm	0.018/0.010	0.020/0.012	0.030/0.020	0.020/0.012	0.030/0.020	0.030/0.020	0.035/0.025	0.012/0.003	
Y axis positioning /repeatability accuracy	mm	0.016/0.010			0.020/0.012		0.025/0.016		0.005/0.003	
Z axis positioning /repeatability accuracy	mm	0.010/0.008 [1000]			0.010/0.008 [1000]		0.010/0.008 [1000]		0.005/0.003	
CNC system	-				SIEMENS [HEIDENHAIN]					HEIDENHAIN TNC640
Machine weight	kg	50000	60000	70000	70000	90000	100000	130000	40000	

[]Option

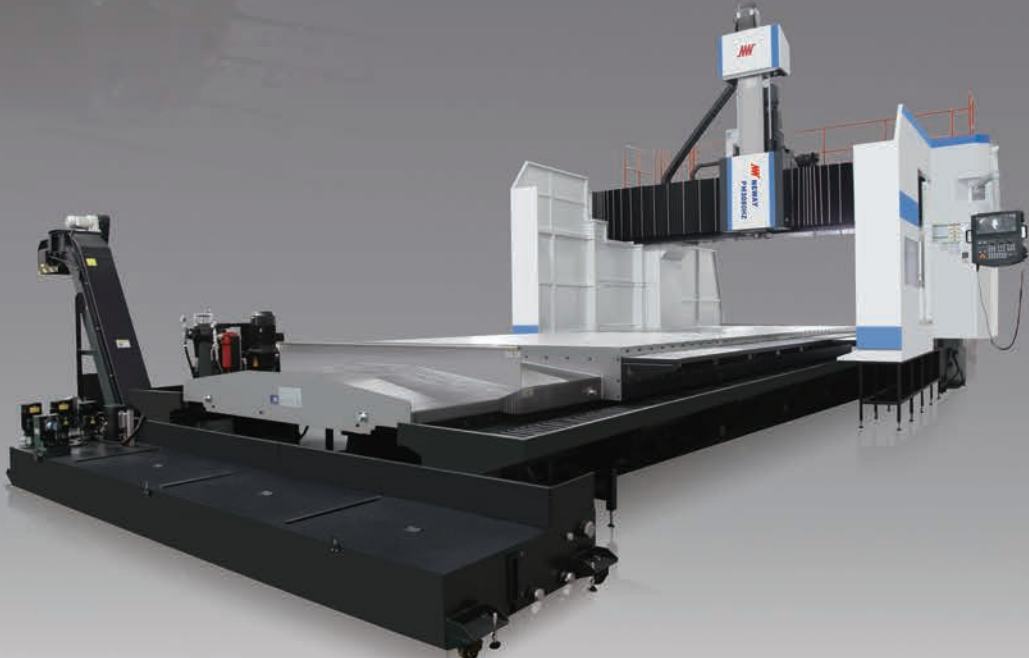
PM Series-
Heavy cutting gantry machining center



Item	Unit	PM2030HZ	PM2040HZ	PM2060HZ	PM2080HZ	PM2540HZ	PM2560HZ	PM2580HZ
Worktable width	mm	2000				2500		
Worktable length	mm	3000	4000	6000	8000	4000	6000	8000
Table load	kg	16000	20000	26000	28000	22000	30000	35000
Worktable travel (X axis)	mm	3200	4200	6200	8500	4200	6200	8500
Carriage travel (Y axis)	mm	3200				3200	3700[4200]	
Ram travel (Z axis)	mm	1000 [1250]				1000 [1250]		
Spindle terminal to worktable	mm	200~1200 [250~1500]				200~1200 [250~1500]		
Column span	mm	2800 [3200]				2800 [3200]	3300 [3800]	
Tool shank size	-	BT50				BT50		
Spindle speed	r/min	40~3500				40~3500		
Max. output torque	N.m	1120/1320				1120/1320		
Spindle motor power	kW	22/26				22/26		
Cutting feed speed range	mm	420×420				420×420		
X/Y/Z axis rapid travel speed	m/min	15/15/10	15/15/10	12/15/10	10/15/10	12/12/10	12/12/10	10/12/10
Tool position	-	[24/32/40/60]				[24/32/40/60]		
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15				Φ105/350/15		
Max. tool diameter (empty neighbor)	mm	Φ200				Φ200		
X axis positioning /repeatability accuracy	mm	0.018/0.012	0.020/0.012	0.028/0.018	0.030/0.020	0.020/0.012	0.028/0.018	0.032/0.020
Y axis positioning /repeatability accuracy	mm	0.018/0.012				0.024/0.016		
Z axis positioning /repeatability accuracy	mm	0.015/0.010[Z axis 1250:0.01/0.012]				0.015/0.020[Z axis 1250:0.018/0.012]		
CNC system	-	NEWAY FANUC[SIEMENS]						
Machine weight	kg	41000	45000	55000	65000	52000	67000	87000

[]Option

PM Series-
Heavy cutting gantry machining center



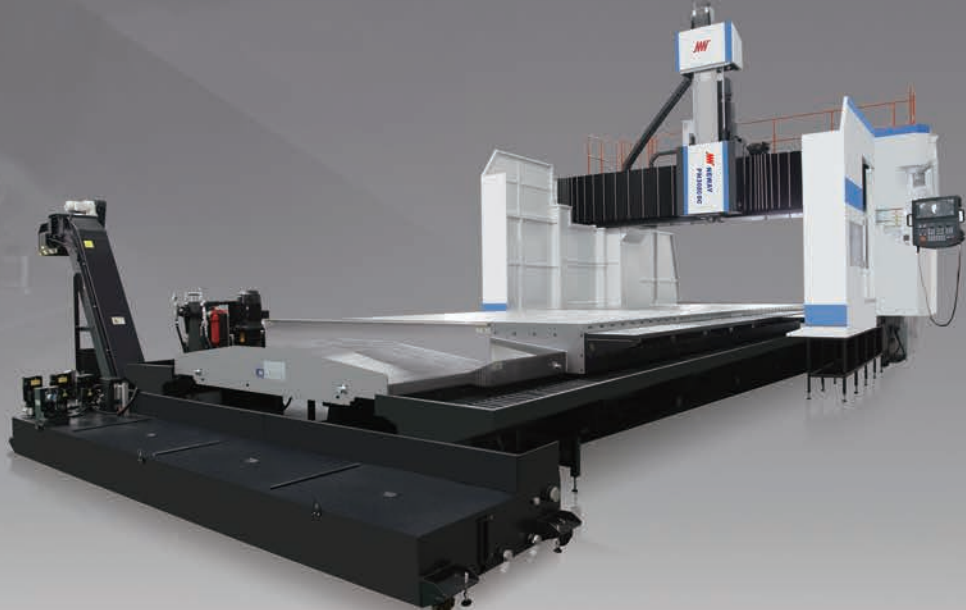
Item	Unit	PM3040HZ	PM3060HZ	PM3080HZ	PM30100HZ	PM30120HZ	PM3560HZ	PM3580HZ	PM35100HZ	PM35120HZ
Worktable width	mm	3000					3500			
Worktable length	mm	4000	6000	8000	10000	12000	6000	8000	10000	12000
Table load	kg	25000	35000	40000	45000	45000	35000	40000	45000	45000
Worktable travel (X axis)	mm	4200	6200	8500	10500	12500	6200	8500	10500	12500
Carriage travel (Y axis)	mm	4200[4600]					4600[5200]			
Ram travel (Z axis)	mm	1250					1250[1500]			
Spindle terminal to worktable	mm	250~1500			190-1440		190-1440[240-1740]			
Column span	mm	3800[4200]					4200 [4600][5200]			
Tool shank size	-	BT50					BT50			
Spindle speed	r/min	40~3500					40~3500			
Max. output torque	N.m	1120/1320					1120/1320			
Spindle motor power	kW	22/26					22/26			
Cutting feed speed range	mm	420×420					420×420			
X/Y/Z axis rapid travel speed	m/min	12/12/10	12/12/10	10/12/10	8/12/10	8/12/10	12/12/10	10/12/10	8/12/10	8/10/10
Tool position	-	[24/32/40/60]					[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15					Φ110/350/18			
Max. tool diameter (empty neighbor)	mm	Φ200					Φ200			
X axis positioning /repeatability accuracy	mm	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024	0.038/0.024	0.028/0.018	0.032/0.020	0.038/0.024	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.028/0.018					0.032/0.020			
Z axis positioning /repeatability accuracy	mm	0.018/0.012					0.018/0.012[Z axis 1500:0.020/0.012]			
CNC system	-	NEWAY FANUC[SIEMENS]					NEWAY FANUC[SIEMENS]			
Machine weight	kg	57000	72000	92000	102000	112000	75000	96000	106000	120000

[]Option

PM Series-
Heavy cutting gantry machining center



PM Series-
Heavy cutting gantry machining center



Item	Unit	PM2560SC	PM2580SC	PM25100SC	PM3040SC	PM3060SC	PM3080SC	PM30100SC	PM30120SC
Worktable width	mm	2500			3000				
Worktable length	mm	6000	8000	10000	4000	6000	8000	10000	12000
Table load	kg	30000	35000	40000	25000	35000	40000	45000	45000
Worktable travel (X axis)	mm	6200	8500	10500	4200	6200	8500	10500	12500
Carriage travel (Y axis)	mm	3700 [4200]			4200 [4600]				
Ram travel (Z axis)	mm	1250 [1500]			1250 [1500]				
Spindle terminal to worktable	mm	250~1500 [300~1800]		190-1440[240-1740]	250~1500 [300~1800]			190~1440[240~1740]	
Column span	mm	3300 [3800]			3800 [4200]				
Tool shank size	-	BT50			BT50				
Spindle speed	r/min	40~2500			40~2500				
Max. output torque	N.m	1993/2458			1993/2458				
Spindle motor power	kW	30/37			30/37				
Cutting feed speed range	mm	450×450			450×450				
X/Y/Z axis rapid travel speed	m/min	12/12/10	10/12/10	8/12/10	12/12/10	12/12/10	10/12/10	8/12/10	8/12/10
Tool position	-	[24/32/40/60]			[24/32/40/60]				
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15			Φ105/350/15				
Max. tool diameter (empty neighbor)	mm	Φ200			Φ200				
X axis positioning /repeatability accuracy	mm	0.028/0.018	0.032/0.020	0.038/0.024	0.020/0.012	0.028/0.018	0.032/0.020	0.028/0.024	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.024/0.016			0.028/0.018				
Z axis positioning /repeatability accuracy	mm	0.018/0.012[Z axis 1500: 0.020/0.012]			0.018/0.012[Z axis 1500: 0.020/0.012]				
CNC system	-	NEWAY FANUC[SIEMENS]							
Machine weight	kg	68000	88000	98000	58000	73000	93000	103000	113000

[]Option

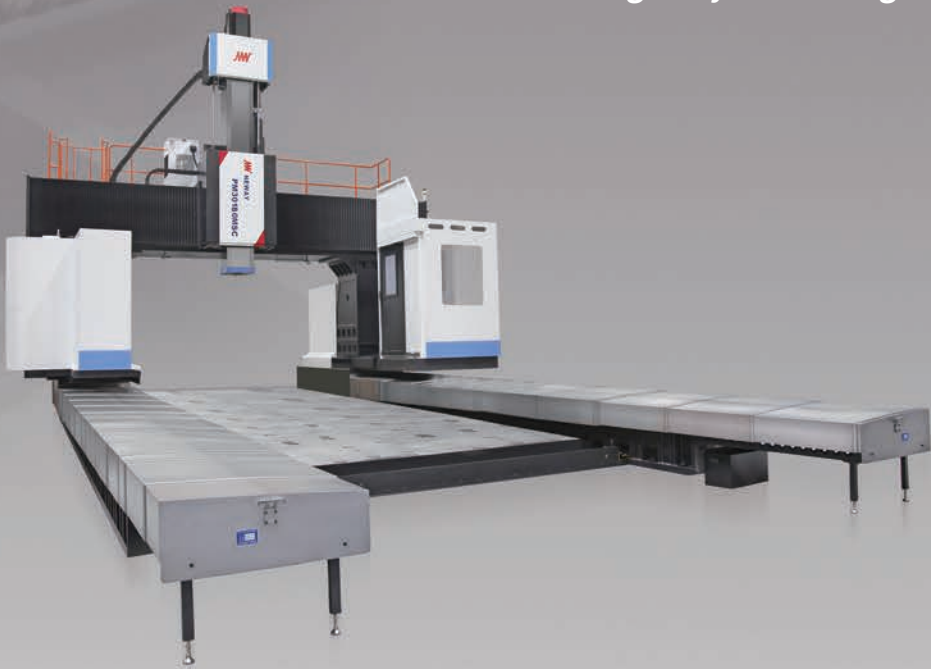
Item	Unit	PM3560SC	PM3580SC	PM35100SC	PM35120SC	PM4060SC	PM4080SC	PM40100SC	PM40120SC
Worktable width	mm	3500				4000			
Worktable length	mm	6000	8000	10000	12000	6000	8000	10000	12000
Table load	kg	35000	40000	45000	45000	35000	40000	45000	45000
Worktable travel (X axis)	mm	6200	8500	10500	12500	6200	8500	10500	12500
Carriage travel (Y axis)	mm	4600 [5200]				5200 [5600]			
Ram travel (Z axis)	mm	1250 [1500]				1250 [1500]			
Spindle terminal to worktable	mm	190-1440[240-1740]				250-1500[300-1800][500-2000]			
Column span	mm	4200 [4600][5200]				5200[5600]			
Tool shank size	-	BT50				BT50			
Spindle speed	r/min	40~2500				40~2500			
Max. output torque	N.m	1993/2458				1993/2458			
Spindle motor power	kW	30/37				30/37			
Cutting feed speed range	mm	450×450				450×450			
X/Y/Z axis rapid travel speed	m/min	12/12/10	10/12/10	8/12/10	8/10/10	10/10/10	10/10/10	8/10/10	8/10/10
Tool position	-	[24/32/40/60]				[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15				Φ105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ200				Φ200			
X axis positioning /repeatability accuracy	mm	0.028/0.018	0.032/0.020	0.038/0.024	0.038/0.024	0.028/0.018	0.032/0.020	0.038/0.024	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.032/0.020				0.038/0.024			
Z axis positioning /repeatability accuracy	mm	0.018/0.012[Z axis 1500:0.020/0.012]				0.018/0.012[Z axis 1500:0.020/0.012]			
CNC system	-	NEWAY FANUC[SIEMENS]							
Machine weight	kg	75000	96000	106000	120000	88000	105000	116000	133000

[]Option

PM Series-
Movable column gantry machining center



PM Series-
Movable column gantry machining center



Item	Unit	PM30100MHZ	PM30120MHZ	PM30140MHZ	PM30160MHZ	PM30180MHZ	PM35100MHZ	PM35120MHZ	PM35140MHZ	PM35160MHZ	PM35180MHZ
Worktable width	mm	3000					3500				
Worktable length	mm	10000	12000	14000	16000	18000	10000	12000	14000	16000	18000
Table load	kg/m ²	15000					15000				
Worktable travel (X axis)	mm	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	18500+750 (chage head)	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	18500+750 (chage head)
Carriage travel (Y axis)	mm	4600					4600				
Ram travel (Z axis)	mm	1250[1500]					1250[1500]				
Spindle terminal to worktable	mm	250~1500[300~1800]					250~1500[300~1800]				
Column span	mm	4200[4600]					4600				
Tool shank size	-	P50T-I (MAS403)					P50T-I (MAS403)				
Spindle speed	r/min	40~3500					40~3500				
Max. output torque	N.m	1120/1320					1120/1320				
Spindle motor power	kw	22/26					22/26				
Cutting feed speed range	mm	420x420[450x450]					420x420[450x450]				
X/Y/Z axis rapid travel speed	m/min	12/12/10					12/12/10				
Tool position	-	[24/32/40/60]					[24/32/40/60]				
Max. tool dia./length/weight	mm/mm/kg	Φ125/350/20					Φ125/350/20				
Max tool diameter (empty neighbor)	mm	Φ225					Φ225				
X axis positioning /repeatability accuracy	mm	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.028	0.045/0.028	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.028	0.045/0.028
Y axis positioning /repeatability accuracy	mm	0.028/0.018					0.028/0.018				
Z axis positioning /repeatability accuracy	mm	0.018/0.012 [0.020/0.012]					0.018/0.012 [0.020/0.012]				
CNC system	-	NEWAY FANUC [SIEMENS 828D]					NEWAY FANUC [SIEMENS 828D]				
Machine weight	kg	95000	105000	115000	125000	135000	100000	110000	120000	130000	140000

[]Option

Item	Unit	PM30100MSC	PM30120MSC	PM30140MSC	PM30160MSC	PM30180MSC	PM35100MSC	PM35120MSC	PM35140MSC	PM35160MSC	PM35180MSC
Worktable width	mm	3000					3500				
Worktable length	mm	10000	12000	14000	16000	18000	10000	12000	14000	16000	18000
Table load	kg/m ²	15000					15000				
Worktable travel (X axis)	mm	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	18500+750 (chage head)	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	18500+750 (chage head)
Carriage travel (Y axis)	mm	4600					4600				
Ram travel (Z axis)	mm	1250[1500]					1250[1500]				
Spindle terminal to worktable	mm	250~1500[300~1800]					250~1500[300~1800]				
Column span	mm	4200[4600]					4600				
Tool shank size	-	P50T-I (MAS403)					P50T-I (MAS403)				
Spindle speed	r/min	40~2500					40~2500				
Max. output torque	N.m	1993/2458					1993/2458				
Spindle motor power	kw	30/37					30/37				
Cutting feed speed range	mm	450×450					450×450				
X/Y/Z axis rapid travel speed	m/min	12/12/10					12/12/10				
Tool position	-	[24/32/40/60]					[24/32/40/60]				
Max. tool dia./length/weight	mm/mm/kg	Φ125/350/20					Φ125/350/20				
Max tool diameter (empty neighbor)	mm	Φ225					Φ225				
X axis positioning /repeatability accuracy	mm	0.038/0.028	0.038/0.024	0.038/0.024	0.045/0.028	0.045/0.028	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.028	0.045/0.028
Y axis positioning /repeatability accuracy	mm	0.028/0.018					0.028/0.018				
Z axis positioning /repeatability accuracy	mm	0.018/0.012[0.020/0.012]					0.018/0.012 [0.020/0.012]				
CNC system	-	NEWAY FANUC [SIEMENS 828D]					NEWAY FANUC [SIEMENS 828D]				
Machine weight	kg	95000	105000	115000	125000	135000	100000	110000	120000	130000	140000

[]Option

PM Series-
Movable column gantry machining center



Item	Unit	PM40100MHZ	PM40120MHZ	PM40140MHZ	PM40160MHZ	PM40180MHZ	PM50100MHZ	PM50120MHZ	PM50140MHZ	PM50160MHZ	PM50180MHZ
Worktable width	mm	4000					5000				
Worktable length	mm	10000	12000	14000	16000	18000	10000	12000	14000	16000	18000
Table load	kg/m ²	15000					15000				
Worktable travel (X axis)	mm	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	18500+750 (chage head)	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	18500+750 (chage head)
Carriage travel (Y axis)	mm	5200[5600]					6800+400 (换刀)				
Ram travel (Z axis)	mm	1500					1500				
Spindle terminal to worktable	mm	500~2000					500~2000				
Column span	mm	5200[5600]					6800				
Tool shank size	-	P50T-I (MAS403)					P50T-I (MAS403)				
Spindle speed	r/min	40~2500					40~2500				
Max. output torque	N.m	1993/2458					1993/2458				
Spindle motor power	kw	30/37					30/37				
Cutting feed speed range	mm	450×450					500×500				
X/Y/Z axis rapid travel speed	m/min	10/10/10					10/10/10				
Tool position	-	[24/32/40/60]					[24/32/40/60]				
Max. tool dia./length/weight	mm/mm/kg	Φ125/350/20					Φ125/350/20				
Max tool diameter (empty neighbor)	mm	Φ225					Φ225				
X axis positioning /repeatability accuracy	mm	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.028	0.045/0.028	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.024	0.045/0.024
Y axis positioning /repeatability accuracy	mm	0.038/0.024					0.038/0.024				
Z axis positioning /repeatability accuracy	mm	0.021/0.014					0.021/0.014				
CNC system	-										
Machine weight	kg	110000	125000	138000	150000	160000	125000	135000	145000	155000	165000

[] Option

PM Series-
Movable column gantry machining center



Item	Unit	PMG3040HA
Worktable width	mm	3000
Worktable length	mm	4000
Table load	kg/m ²	25000
Worktable travel (X axis)	mm	4200
Carriage travel (Y axis)	mm	3200
Ram travel (Z axis)	mm	1000
Spindle terminal to worktable	mm	200~1200
Column span	mm	3300
Tool shank size	-	BT50
Spindle speed	r/min	40~4500
Max. output torque	N.m	770/910
Spindle motor power	kw	22/26
A/C axis indexing degree	mm	450x450
A/C axis positioning accuracy	m/min	2012/12/12
X/Y/Z axis rapid travel speed	-	[24/32/40/60]
Max. tool diameter/length/weight	mm/mm/kg	Φ110/350/18
Max. tool diameter (empty neighbor)	mm	Φ200
X axis positioning /repeatability accuracy	mm	0.016/0.010
Y axis positioning /repeatability accuracy	mm	0.015/0.010
Z axis positioning /repeatability accuracy	mm	0.012/0.008
CNC system	-	NEWAY FANUC [SIEMENS]
Machine weight	kg	55000

Item	Unit	PME2030V	PME2030VD	PME2030U	PME2030UT
Worktable width	mm	2000	2000	2000	2000
Worktable length	mm	3000	3000	3000	3000
Table load	kg/m ²	5000	5000	5000	-
Turntable	mm	-	-	-	630
Turntable load	kg	-	-	-	1500
Travel (X/Y/Z axis)	mm	3000/2000/700	3000/(1380/1380)/700	3000/2000/1000	6200/2000/1000
Spindle terminal to worktable	mm	50-750	50-750	200-1200	-
Spindle terminal to turntable center	mm	-	-	-	-150/850
Column span	mm	2300	2300	2400	2400
Tool shank size	-	HSK-A63	HSK-A63	HSK-A63	HSK-A63
Spindle speed	r/min	18000	18000	18000	18000
Max. output torque	N.m	28.5/33.9	28.5/33.9	35/42	35/42
Spindle motor power	kw	18.5/22	18.5/22	20/23.5	20/23.5
A/C axis indexing degree	mm	-	-	±105/±180	±105/±180
A/C axis positioning accuracy	m/min	-	-	15	15
X/Y/Z axis rapid travel speed	-	60/60/48	60/60/30	60/60/48	60/60/48
Tool position		16 (24)	16 (24)	40	40
Max. tool diameter/length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/400/8	Φ80/400/8
Max. tool diameter (empty neighbor)	mm	Φ150	Φ150	Φ150	Φ150
X axis positioning /repeatability accuracy	mm	0.050/0.030	0.050/0.030	0.050/0.030	0.050/0.030
Y axis positioning /repeatability accuracy	mm	0.035/0.020	0.035/0.020	0.035/0.020	0.035/0.020
Z axis positioning /repeatability accuracy	mm	0.030/0.020	0.030/0.020	0.030/0.020	0.030/0.020
CNC system	-	FANUC 0i-MF (SIEMENS)			SIEMENS 828D
Machine weight	kg	14000	16000	22000	30000

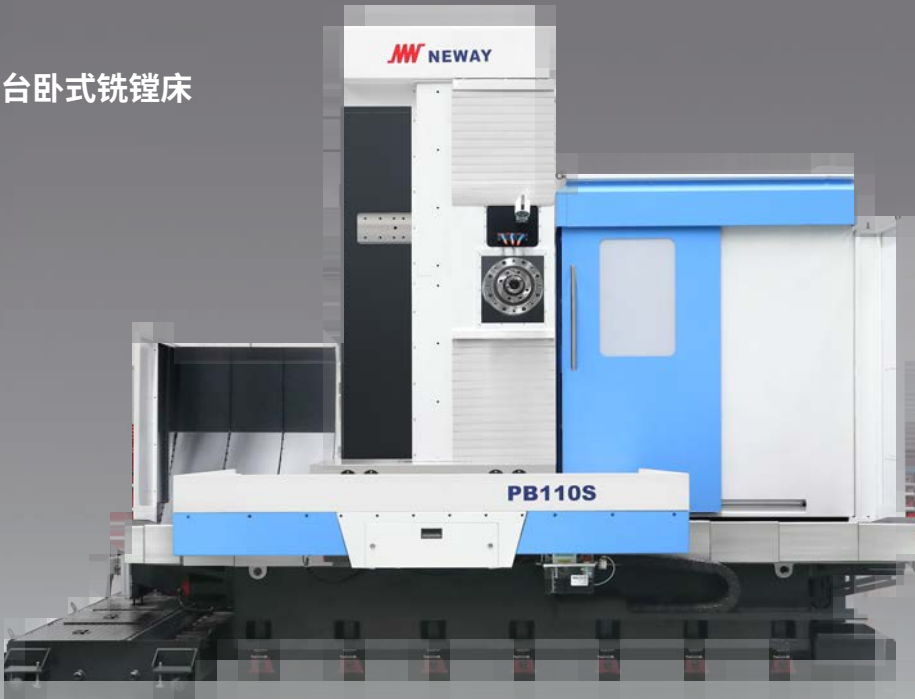
HB Series-
CNC boring and milling machine



Item	Unit	HB110S
Worktable size	mm	1250×1250
Max. worktable load	kg	5000
T slot width	mm	28
Min. table indexing	°	0.001
Max. worktable rotate speed (B axis)	rpm	3
Worktable travel (X axis)	mm	1600
Spindle box travel (Y axis)	mm	1200
Column travel (Z axis)	mm	1200
Spindle axial travel (W axis)	mm	600
Worktable indexing (B axis)	°	360
Spindle cnetar line to woktable	mm	0~1200
Spindle terminal to center line of worktable	mm	-25~1775
Rapid travel speed X/Y/Z/W/U	m/min	9/9/9/8
Max. cutting feed speed X/Y/Z/W/U	m/min	8/8/8/6
Boring shaft dia.	mm	Φ110
Milling shaft end dia.	mm	Φ221.44
Spindle taper	-	BT50
Pull stud size	-	MAS403 P50T-1
Motor power	kW	15/18.5
Spindle speed	rpm	10~2500
Max. milling shaft torque	N.m	1214/1497
Max. boring shaft tensile	N	15000
Tool magazine (option)	-	[40(chain)]
Tool shank size	-	MAS403 BT50
Max. tool diameter/length/weight	mm/mm/kg	Φ125/400/25
Max. tool diameter (empty neighbor)	mm	Φ250
Min. setting unit	mm	0.001
Positioning accuracy X/Y/Z/W	mm	0.015/0.015/0.015/0.02
Repeatability accuracy X/Y/Z/W	mm	0.01/0.01/0.01/0.015
Positioning accuracy B	"	8
Repeatability accuracy B	"	5
CNC system	-	NEWAY FANUC [SIEMENS]
CNC coordinate axis number	-	5 axis four linkage
Auto chip conveyer (option)	-	Chain type chip conveyer (two sets) + coolant tank
Machine power capacity	kVA	55
Machine weight	kg	18000

[]Option

PB-S高速线轨系列数控刨台卧式铣镗床



Item	Unit	PB110S	PB130S	PB160S
Worktable size	mm	1250x1400	1800x2000[2000x2500]	2000x2500
Max. worktable load	kg	5000	20000[25000]	25000
T slot width	mm	28	28	28
Min. table indexing	-	0.001°	0.001°	0.001°
Max. worktable rotate speed (B axis)	r/min	2	2	2
Worktable travel (X axis)	mm	2000	3000[4000]	3000[4000]
Spindle box travel (Y axis)	mm	1600	2200[3000]	2200[3000]
Column travel (Z axis)	mm	1400	2000	2000
Spindle axial travel (W axis)	mm	600	800	900
Worktable indexing (B axis)	°	360	360	360
Spindle cnetar line to woktable	mm	100-1700	100-2300	100-2300
Spindle terminal to center line of worktable	mm	-40~1960	-100~2700	-200~2700
Rapid travel speed X/Y/Z/W	m/min	9/9/9/6	10/10/10/8	10/10/10/8
Max. cutting feed speed X/Y/Z/W	m/min	6/6/6/6	6/6/6/6	6/6/6/6
Boring shaft dia.	mm	Φ110	Φ130	Φ160
Milling shaft end dia.	mm	Φ221.44	Φ221.44	Φ260
Spindle taper	-	BT50	BT50	BT50
Pull stud size	-	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I
Motor power	kW	15/18.5	30/37	37/45
Spindle speed	rpm	10~2500	10~2500	10~2000
Max. milling shaft torque	N.m	1205/1487	2388/2945	2943/3579
Max. boring shaft tensile	N	15000	25000	25000
Min. setting unit	mm	0.001	0.001	0.001
Positioning accuracy X/Y/Z/W	mm	0.02/0.02/0.02/0.02	0.02/0.02/0.02/0.02	0.02/0.02/0.02/0.02
Repeatability accuracy X/Y/Z/W	mm	0.01/0.01/0.01/0.015	0.012/0.012/0.012/0.015	0.012/0.012/0.012/0.015
Positioning accuracy B	-	8"	5"	5"
Repeatability accuracy B	-	5"	3"	3"
CNC system	-	NEWAY FANUC [SIEMENS]		
CNC coordinate axis number	-	5 axis four linkage		
Auto chip conveyer (option)	-	Spiral chip extractor+chain plate		
Tool magazine (option)	-	[40(chain)/60(chain)]		
Machine power capacity	kVA	45	80	80
Machine weigh	kg	20000	35000	38000

[]Option

PB-H硬轨系列-数控刨台卧式铣镗床



Item	Unit	PB130H	PB160H
Worktable size	mm	1600×1800[2000x2000][2000x2500]	2000x2000[2000x2500]
Max. worktable load	kg	15000[25000]	15000[25000]
T slot width	mm	28	28
Min. table indexing	-	0.001°	0.001°
Max. worktable rotate speed (B axis)	r/min	2	2
Worktable travel (X axis)	mm	3000[4000]	3000[4000]
Spindle box travel (Y axis)	mm	2000[2500][3000]	2000[2500][3000]
Column travel (Z axis)	mm	1600	1600
Spindle axial travel (W axis)	mm	800	900
Worktable indexing (B axis)	°	360	360
Spindle cnetr line to woktable	mm	0-2000	0~2000
Spindle terminal to center line of worktable	mm	-50~2350	-150~2350
Rapid travel speed X/Y/Z/W	m/min	10/10/10/4	10/10/10/4
Max. cutting feed speed X/Y/Z/W	m/min	6/6/6/2	6/6/6/2
Boring shaft dia.	mm	Φ130	Φ160
Milling shaft end dia.	mm	Φ221.44	Φ260
Spindle taper	-	BT50	BT50
Pull stud size	-	MAS403 P50T-I	MAS403 P50T-I
Motor power	kW	22/30	30/37 [37/45]
Spindle speed	rpm	10~2500	10~2000
Max. milling shaft torque	N.m	2837/3868	2553/3063[3148/3829]
Max. boring shaft tensile	N	25000	25000
Min. setting unit	mm	0.001	0.001
Positioning accuracy X/Y/Z/W	mm	0.025/0.02/0.02/0.02	0.025/0.02/0.02/0.02
Repeatability accuracy X/Y/Z/W	mm	0.017/0.015/0.015/0.015	0.017/0.015/0.015/0.015
Positioning accuracy B	-	8"	8"
Repeatability accuracy B	-	5"	5"
CNC system	-	NEWAY FANUC [SIEMENS]	
CNC coordinate axis number	-	5 axis four linkage	
Auto chip conveyer (option)	-	chain plate	
Tool magazine (option)	-	[40(chain)/60(chain)]	
Machine power capacity	kVA	80	88
Machine weigh	kg	40000	42000

[]Option

PB-U固定平旋盘系列-数控刨台卧式铣镗床



Item	Unit	PB110U	PB130U	PB160U
Worktable size	mm	1250x1400	1600×1800[2000×2000][2000×2500]	2000x2000[2000x2500]
Max. worktable load	kg	5000	15000 [25000]	25000
T slot width	mm	28	28	28
Min. table indexing	-	0.001°	0.001°	0.001°
Max. worktable rotate speed (B axis)	r/min	2	2	2
Worktable travel (X axis)	mm	2000	3000[4000]	3000[4000]
Spindle box travel (Y axis)	mm	1600	2000[2500]	2000[2500][3000]
Column travel (Z axis)	mm	1400	1600	1600
Spindle axial travel (W axis)	mm	600	800	900
Facing head slider radial movement (U axis)	mm	200 (±100)	300 (±150)	300 (±150)
Worktable indexing (B axis)	°	360	360	360
Spindle cnetr line to woktable	mm	60-1660	30~2030	30~2030
Spindle terminal to center line of worktable	mm	-125~1875	-50~2350	-150~2350
Rapid travel speed X/Y/Z/W/U	m/min	9/6/9/6/2	10/10/10/4/2	10/10/10/4/2
Max. cutting feed speed X/Y/Z/W/U	m/min	6/6/6/6/1	6/6/6/2/1	6/6/6/2/1
Boring shaft dia.	mm	Φ110	Φ130	Φ160
Spindle taper	-	BT50	BT50	BT50
Pull stud size	-	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I
Motor power	kW	15/18.5	22/30	30/37
Spindle speed	rpm	5~1500	10~1500	10~1500
Max. milling shaft torque	N.m	1480/1826	2600/3120	2677/3302
Max. boring shaft tensile	N	15000	25000	25000
Facing head dia.	mm	φ670	φ800	φ800
Facing head speed	rpm	7-165	5~150	5~150
Facing head max. torque	N.m	2227	5000	5000
Min. setting unit	mm	0.001	0.001	0.001
Positioning accuracy X/Y/Z/W/U	mm	0.02/0.02/0.02/0.02/0.025	0.025/0.02/0.02/0.025	0.025/0.02/0.02/0.025
Repeatability accuracy X/Y/Z/W/U	mm	0.01/0.01/0.01/0.015/0.018	0.017/0.015/0.015/0.018	0.017/0.015/0.015/0.018
Positioning accuracy B	-	8"	8"	8"
Repeatability accuracy B	-	5"	5"	5"
CNC system	-	NEWAY FANUC [SIEMENS]		
CNC coordinate axis number	-	5 axis four linkage	6 axis four linkage	6 axis four linkage
Auto chip conveyer (option)	-	Spiral chip extractor+chain plate	chain plate	chain plate
Tool magazine (option)	-	[40(chain)/60(chain)]		
Machine power capacity	kVA	45	80	80
Machine weigh	kg	20500	40000	40000

[]Option

CNC horizontal lathe

CNC vertical lathe

Vertical machine center

Horizontal milling center

Gantry milling center

CNC boring and milling machine

Special purpose machine & Automatic production line

PB-R方滑枕系列-数控刨台卧式铣镗床



Item	Unit	PB130R	PB160R
Worktable size	mm	2000x2500[2500×3000]	2500x3000[3000×3000][3000×4000]
Max. worktable load	kg	25000[40000]	40000[60000]
T slot width	mm	28	28
Min. table indexing	-	0.001°	0.001°
Max. worktable rotate speed (B axis)	r/min	1.5	1.25
Worktable travel (X axis)	mm	3000[4000]	3000[4000][5000][6000]
Spindle box travel (Y axis)	mm	2000[3000][4000]	3000[4000]
Column travel (Z axis)	mm	2000	2000
Spindle axial travel (W axis)	mm	1000	1000
Facing head slider radial movement (U axis)	mm	800	800
Spindle cnetr line to woktable	°	360	360
Spindle terminal to center line of worktable	mm	300～2300	300～3300
Max. cutting feed speed X/Y/Z/W/U	m/min	10/10/10/10/10	10/10/10/10/10
Boring shaft dia.	m/min	8/8/8/8/8	8/8/8/8/8
Milling shaft end dia.	mm	Φ130	Φ160
Spindle taper	mm	Φ221.44	Φ260
Square ram cross-sectional dimensions		450×450	450×450
Pull stud size	-	BT50	BT50
Motor power	-	MAS403 P50T-I	MAS403 P50T-I
Spindle speed	kW	31/37	44/51
Max. milling shaft torque	rpm	10～2500[10～3000]	10～2000[10～2500]
Max. boring shaft tensile	N.m	2827/3374	3080/3696
Facing head dia.	N	25000	25000
Min. setting unit	mm	0.001	0.001
Positioning accuracy X/Y/Z/W/U	mm	0.02/0.017/0.014/0.011/0.025	0.025/0.14/0.014/0.011/0.025
Repeatability accuracy X/Y/Z/W/U	mm	0.012/0.009/0.007/0.007/0.018	0.017/0.007/0.007/0.007/0.018
Positioning accuracy B	-	8"	8"
Repeatability accuracy B	-	5"	5"
CNC system	-	SIEMENS[FANUC]	
CNC coordinate axis number	-	6 axis four linkage	
Auto chip conveyer (option)	-	chain plate	
Tool magazine (option)	-	[40(chain)/60(chain)]	
Machine power capacity	kVA	90	103
Machine weigh	kg	55000	65000

FB Series-
CNC floor type boring and milling machine



Item	Unit	FB130HC	FB160HC	FB160HZ	FB160HZ
Column travel X	mm	6000[increase 1000 by 1000]	8000[increase 1000 by 1000]	10000[increase 1000 by 1000]	5000[6000][7000]
Spindle box travel Y	mm	2000[3000][4000]	3000[4000]	4000[5000][6000]	1400
Column travel Z	mm	1000	1000	1400	1200
Spindle axial travel W	mm	800	800	1200	15/10/10/10
Rapid travel speed X/Y/Z/W	m/min	15/10/10/10	15/10/10/10	15/10/10/10	8/8/8/8
Max. cutting feed speed X/Y/Z/W	m/min	8/8/8/8	8/8/8/8	8/8/8/8	φ200
Boring shaft dia.	mm	φ130	φ160	φ160	φ300
Milling shaft end dia.	mm	φ221.44	φ260	φ260	550×550
Ram section	mm	450×450	450×450	550×550	BT60[BT50]
Spindle taper	-	BT50	BT50	BT60[BT50]	MAS403 P60T-I
Pull stud size	-	MAS403 P50T-I	MAS403 P50T-I	MAS403 P60T-I	81/100
Motor power	kW	31/37	44/51	58/70	10~2000
Spindle speed	rpm	10～2500[10～3000]	10～2000[10～2500]	10~2500	4210/5197
Max. milling shaft torque	N.m	2827/3374	3080/3572	3015/3768	45000
Max. boring shaft tensile	N	25000	25000	45000	"3000×4000
Max. worktable load (option)	mm	2000×2500[2500×3000]	2500×3000[3000×3000][3000×4000]	3000×4000	[3500×4000]"
Worktable size	kg	25000[40000]	40000[60000]	60000	60000[80000]
T slot width	mm	28	28	28	28[36]
Min. setting unit		0.001°	0.001°	0.001°	0.001°
Worktable speed	r/min	1.5	1.25	1.5	1.5
Worktable travel V		2000[3000]	2000[3000]	2000[3000]	2000[3000][4000]
Workable travel B		360°	360°	360°	360°
Rapid travel speed V	m/min	10	10	10	10
Rapid travel speed B	rpm	1.5	1.25	1.25	1.25
Positioning accuracy X/Y/Z/W/V	mm	X/Y/Z/V 0.015/1000 W 0.025			
Repeatability accuracy (X/Y/Z/W/V)	mm	X/Y/Z/V 0.012 W 0.02			
Positioning accuracy B	"	8	8	8	8
Repeatability accuracy B	"	5	5	5	5
CNC system	-	SIEMENS[FANUC]			
CNC coordinate axis number	-	6 axis four linkage [Optional rotary table]			
Auto chip conveyer	-	chain plate			
Tool magazine (option)	-	[40(chain)/60(chain)]			
Machine power capacity	kVA	92	105	160	160
Machine weight	kg	55000+18000	62000+26000	95000+38000	100000+38000

[] Option



PME series-
Beam mobile gantry processing center



SMG series-
CNC spherical grinding machine

Item	Unit	PME2030V	PME2030U
Worktable size	mm	2000×3000	2000×3000
Worktable load	kg	5000	5000
Worktable travel (X)	mm	3000	3000
Carriage travel (Y)	mm	2000	2000
Ram travel (Z)	mm	700	700
Spindle terminal to worktable	mm	50~750	200~900
Column span	mm	2300	2300
Tool shank size	-	HSK-A63	HSK-A63
Spindle speed	r/min	40~18000	20000
Max. output torque	N.m	29.4/51.7	35
Spindle motor power	kW	13/18.5	20
Cutting feed speed range	m/min	25	20/20/15
X/Y/Z axis rapid travel speed	m/min	50/50/48	36/36/30

Item	Unit	SMG32H	SMG63HA	SMG100H	SMG240H
Work range O.D	mm	Φ75~320	Φ320~630	Φ630-1100	Φ900-2400
Work range I.D	inch	2"~8"	8"~16"	16"~28"	24"~64"
Grinding wheel spindle motor power	kW	15	15/18.5	28	80
Grinding wheel spindle torque	N.m	96	98	267	1910
Grinding wheel max. spindle speed	rpm	6000	2700	1500	500
Workpiece turn spindle motor power	kW	3.7	5.5	7.5	55
Workpiece turn spindle torque	N.m	24	36	49	709.8
Workpiece turn spindle max. speed	rpm	60	30	15	10
Travel Y/Z	mm	200/500	200/500	400/900	800/2000
Rapid travel speed Y/Z	m/min	18/20	18/20	16/16	6/4
Positioning accuracy (Y/Z)	mm	0.008/0.008		0.011/0.016	0.020/0.016
Repeatability accuracy (Y/Z)	mm	0.004/0.004		0.006/0.009	0.012/0.009
CNC controller	-	SIEMENS [NEWAY FANUC]		SIEMENS	
Machine weight	kg	6000	7500	22000	85000

[]Option

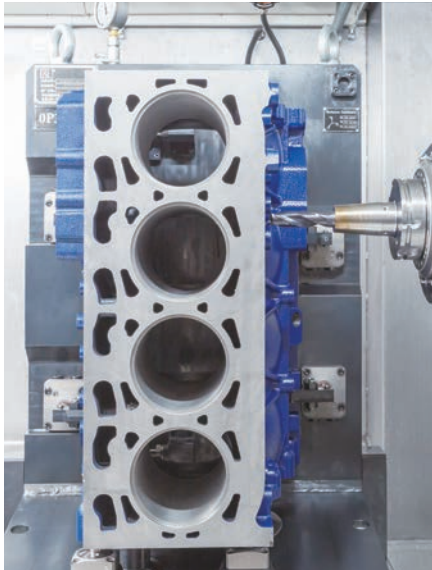
FMS Series-Automatic production line

Automatic line for processing engine box

Machine: HE63S+HE100A

This project is composed by 45 horizontal machining centers with auto loading and unloading system. These machines work for 300 days per year, three shifts and 21.3 hours per day, with an annual output of 200,000 engine boxes. The production line can finish one parts within 96 seconds (including the auto robot loading and unloading time 25 seconds, the probe replacement time, the detection time and all auxiliary time). The processing $C_mK \geq 1.67$.

Workpiece name: Diesel engine box
Workpiece material: HT250

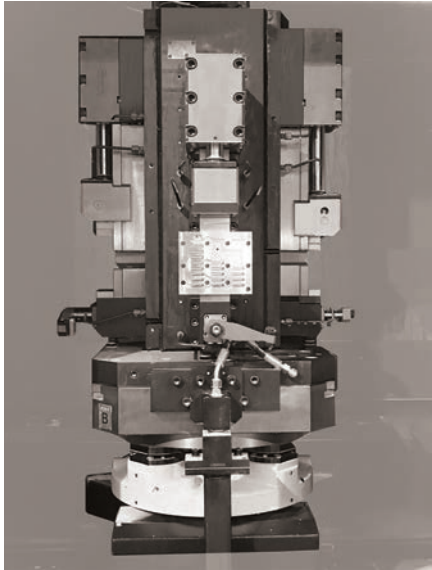


Automatic line for oil processing path valve

Machine: HM50TD+VM1160H

The project changed from the single process, sub-equipment and small batch processing mode to the rhythmic, continuous, flexible, automated, and less labor operation mode. The production cycle was shortened by 67%, the number of products in producing was reduced by 25%, and the labor-cost-saving value was more than 2 million per year, the production capacity was increased by 70%, and the consistency and compliance of products quality are guaranteed.

Workpiece name: oil path valve
Workpiece material: aluminum alloy



Automatic line for processing flywheel shell
Machine: VM1370H+VNL80S+HE63VS

Workpiece name: flywheel housing
Workpiece material: aluminum alloy



Mixed processing automatic line
Machine: VM950SL+NL201HG+NL201H

Workpiece name: input shaft
Workpiece material: 45# steel



Automatic line for processing automobile engine shell
Machine: VM950S+VM1150S

Workpiece name: automobile engine shell
Workpiece material: magnesium alloy



Automatic line for processing generator claw pole
Machine: NL201HA

Workpiece name: generator claw pole
Workpiece material: QD08 forging

