

CNC

EQUIPMENT CATALOGUE

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GROUP HEADQUARTER



CNC EQUIPMENT



Industrial Valves

Oil Equipment

Industrial Materials

Neway International Group Inc. (NIG) continues to develop into a World Class machinery supplier worldwide with experience and support of 4 primary divisions - CNC machines, Petroleum equipment, Industrial materials and Industrial Valves. For 20 years Neway Employees have strived to improve. With the help of advanced ERP management system and barcode management technology, the company sets up Enterprise level management structures controlling global sub-companies and factories with multi-product chains.

NIG comprises ten companies in China (staff 5000); 6 sole-capital or joint-capital enterprises in the US, Europe, Middle East and South America, product and spare parts warehouses, sales offices in essential cities in China and leading industrial countries and has established strategic partnerships with more than 100 overseas agencies and distributors.

NIG is an independent creative enterprise practicing global management over marketing, research & development, manufacture and human resources all over the globe. The group has two development centers in China, one for valves and the other for CNC machine tools with 800 staff including 150 experienced senior research and development engineers. Some senior engineers receive the regular government subsidy.

Neway targets becoming a dominant global machinery manufacturer or perhaps even the leading company in the world of machinery. Quality must be #1

Welcome to Neway CNC

Neway CNC has invested over 150 million dollars capital and is situated in Suzhou High Tech Development District. Equipped with modernized workshops with constant temperature assembly shops, precise inspection, precise machining, heat treatment, painting and logistics on a 200000 square meter footprint.

Neway imported from Europe World Class "Mother Machines," including a top quality portal pentahedron coordination boring machine, high precision horizontal miller, universal miller, guideway miller for machine tools; a coordination profile tester, a laser interferer, a dynamic spindle balancer and a spindle temperature raise test platform, etc. as just a few of the milling and inspection machines that inspect and process castings and spindles for the highest quality end product available.

Managed with the help of SAP system designed to ensure the production of quality products for customers with zero defects. Everything is measured and twice.

Factory area: 200,000 square meters
Investment: USD 150 million

Products:

- CNC horizontal lathe
- Gantry/portal milling center
- Automatic production line
- CNC vertical lathe
- CNC boring and milling machine
- Vertical machine center
- Special purpose machine
- Horizontal milling center

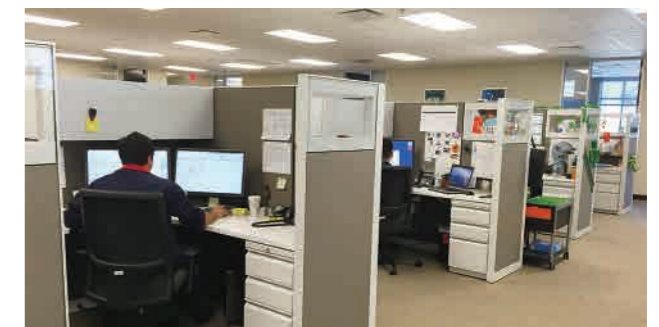


Neway Machine Tools Research Institute

Neway machine tools research institute began supported by not quite 100 first class national R&D engineers but within recent years, the number has risen to 150. Numerous engineers enjoy special government subsidy to research and publish important essays in national and international publications. The institute consists of 7 R&D departments: 4 mechanical, one electrical, 1 documentary and one application engineering. All parts are designed in 3D format and optimized by FEA Finite Element Analysis before entering into SAP system and PLM system. Neway cooperates strategically with key part suppliers and vendors to offer customers the highest quality products capable of high-performance machining all based on proper attention to critical details.

International Cooperative Support System ICSS

NEWAY CNC shares international researchers from different countries. From Headquarters in the USA, Asia-South Korea, China -Taiwan and Europe-Italy; These international teams continuously supply advanced technical instruction of the newest CNC technologies to China. R&D team. This gives us broad vision We use this constant learning to continuously improve our products and develop new products.

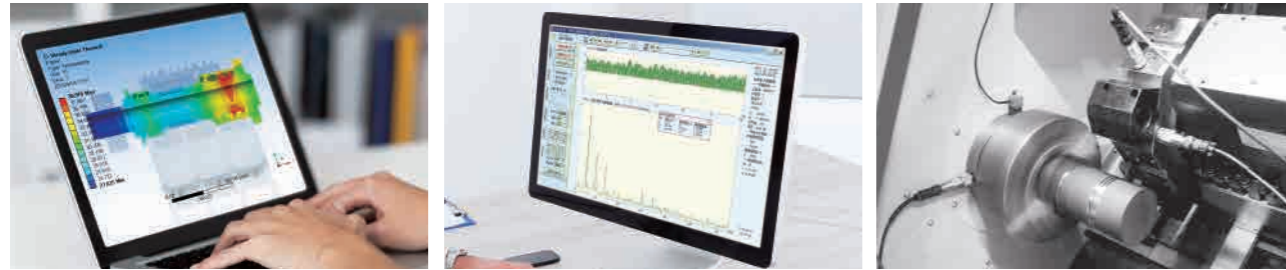


Research and Development Design Tools

R&D designers make full use of Finite Element Analysis method and simulation technology of multibody dynamics theory in machine structure construction. When analyzing the dynamic and static properties and vibration characteristics of the structure; care is even taken to measure heating features of the pattern. The resulting metrics allow optimized machine structure. Couple this to performance designs with topology, geometry, dimensional and reliability optimization possible.



- Finite element analysis
- Temperature analysis
- Intelligent remote diagnosis



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

Leading the Charge in Development of a Neway Tech team

The powerful Neway technology team can't be apart from the creative system. We sponsored technical brochure "NEWAY TECH" which is published periodically and offers a forum for the technical people to exchange point of views. Technicians and engineers from design, research, and its development, process, and manufacture are encouraged to share their experiences. The best essays are awarded; technical skills developed; nice atmosphere created, and more experienced engineers interested to be trained to join Neway tech team.

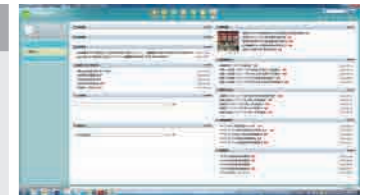


Digital Factory Operations Management

Neway manages its factories and warehouses with ERP, bar code and CAM enterprise resource system to meet the requirement of the lofty manufacturing goals. (OEE) Overall Equipment Efficiency is managed digitally and tracked to insure proper care is taken to maintain all machine calibrations and preventative maintenances insure longer asset life and real time operations timeliness and capacity gauging.

OA office system

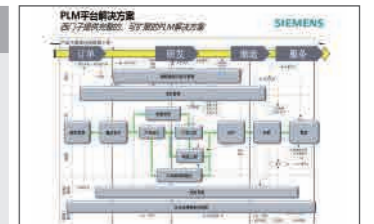
Neway promotes digital office automation. Everyday applications and approvals are able to access conveniently with tremendous efficiency. The system is updated and simplified periodically for easier and practical use.



PLM system

To improve overall life cycle product management, Neway imported the world top PLM - SIEMENS Team Center to manage product lifecycle.

Utilizing an advanced information management platform, Neway improved overall product standardization and efficient accumulation and transmission of the product knowledge among R&D, manufacturing and inspection fields. Better communication for a better process and a better future product.



ERP system

Neway imported the world's leading SAP system. It enables synchronized engineering and precise manufacturing. Enterprise The full supply chain, financial resource distribution and human resource adjusting is well optimized and managed.



Storage Barcode Management system

Neway Barcode Storage Management control system is based on barcode technology. The application of the technology sets up a target query of management information and solves problems related to location, quantity, experience sales stock/overstock storage and shipment management.



Neway Supplier Management

Neway maintains ongoing supplier training and management system guidelines; the company developed metrics and management expected or preferred suppliers; Each guidance to suppliers is meant to reinforce quality control and to enhance and ensure quality consciousness throughout our entire supplier affiliate network.



CRM Service Management System

Neway is the first company to utilize mobile internet technology in service. Our response time is greatly shortened, and satisfaction greatly increased. Information management is realized via the connection between CRM system and cell phone so that each service unit information is traced with ensured service quality. This allows for technicians to have the data regarding your machine available through the CRM.



Temperature Controlled Assembling Room

The workshop is equipped with Trane Geothermal Source Heat Pump system ensuring the workshop with 20°C ventilating air. All parts of the machine are installed at the same temperature with good precision without thermal growth or shrinkage issues when precision aligning and scraping surfaces. This ensures a precision build and improves machining qualities of the finished product.



• NL assembly



• HM assembly



• VM assembly



• PM assembly

World Class Mother Machines

Neway produces World Class CNC machines on quite frankly some of the World's top machine tools from a variety of countries. Swiss SIP boring and milling center, Swiss Kellenberger grinding machine. Italian FAVRETTO guideway miller, German STARRAG HECKERT horizontal working center, and Spanish ZAYER portal type milling machine.



• SIP boring center - Swiss



• Kellenberger grinding machine - Swiss



• Zayer milling center - Spain



• Favretto guideway grinder - Italy



• Starragheckert horizontal milling center - Germany



• Zayer milling center - Spain

Inspection and Calibration Measures

Neway continuously pursues advanced R&D technology and strict quality control, utilizing an English Renishaw laser interferometer, German Schenk dynamic spindle balancing instrument, German Mahr roundness measuring equipment, profile measuring device and roughness measuring equipment. We use Swedish Hexagon three-coordinate measuring device, Japanese Yoshida sonic belt tension measuring device as well as even a universal tool microscope. We use an HL sclerometer, main-shaft temperature rises test bench, a leaning pendulum instrument, an infrared radiation thermometer, along with rotational speed meters, sound level meter, laser distance measuring instrument, flatness tester, HRC sclerometer, dynamic meter and other inspection and testing equipment. We strictly supervise the quality of each process to constantly improve the performance our machines deliver when cutting for customers in their shops.



• Sweden Hexagon coordinate tester



• Germany Mahr profile detector



• British Renishaw laser interferer



• British Renishaw ballbar tester



• Germany Schenker dynamic balance tester



• Universal tool micrometer



• Collimation converter



• Germany Mahr roundness tester

360°


























Neway offers a Complete Lineup of tools and Accessories.

Neway CNC Equipment produces machines in 7 categories with 200 models; sets up 360 degree solutions for the aim of fulfill customers. The factory offers made-to-order(drawing /material) products. Its future target is to develop into automatic processing and intelligent manufacturer.

- 1 **CNC machines full series**
Quality metal cutting machines
- 2 **Processing plan**
Tell us what you need, and we' ll do the rest
- 3 **Automated production line**
Increased throughput during or after hours utilizing "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**
Neway electronic professionals can diagnose and troubleshoot parameter settings and alarm faults by remote control and correct them without having to travel.

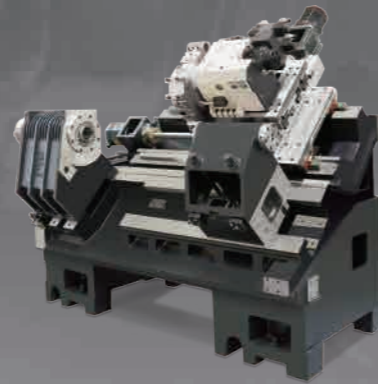


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NL series- High speed CNC slant bed lathe with linear guideway

- 01 Top level componentry, equipped with high level servo motors provide great quality and high precision with high speed spindles for faster cut times and high speed turning.
- 02 Integrated 45° slant bed design offers high rigidity and excellent chip control and elimination. Both the X/Z axis lead screws are preload design, this design reduces the influence on the precision from thermal growth. They are oil seal equipped on the two sides of the lead screw to protect the lead screw bearing with improved lubrication. Direct Servo motor drives the high speed, silent ball screw. X/Z axis linear ways offer good dynamic characteristics, stable machining precision, fast rapids travel speed and high machining efficiency.



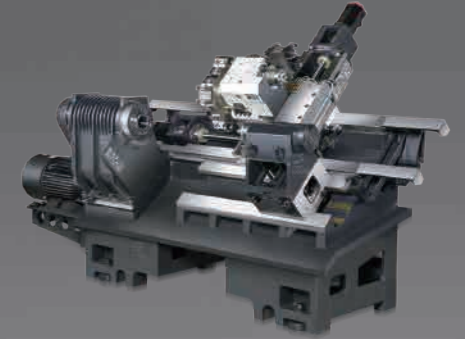
- 03 Tailstock design is a rectangular box way. It provides good loading rigidity, and two levels structures. There is fine adjustment instrument between the top and bottom level to realize the easy fine tuning on the tail stock quill on the rotating center. Equipped with a standard live center the tailstock quill is driven by hydraulic pressure.
- 04 Newway produced high rigidity spindle box and head stock design affords lower noise, high precision and longer tool life.
- 05 Automated loading and unloading, bar feeder, parts catcher, big bore hydraulic chucks, programmable tailstock, tool setter, hydraulic steady rest and many other optional upgrades to customize your perfect configuration to optimize your unique situation.

Item	Unit	NL161E/L	NL201E/L	NL201HG	NL251HA/L	NL253HA	NL322HA/L	NL324HA/L	NL402HA	NL404HA	NL635L
Max. swing over bed	mm	Φ500	Φ450	Φ590	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650	Φ650
Max. swing over saddle	mm	Φ300	Φ290 (E) Φ240 (L)	Φ200	Φ370	Φ370	Φ400	Φ400	Φ480	Φ480	Φ450
Max. turning diameter	mm	Φ320	Φ350	Φ200	Φ360	Φ360	Φ430	Φ430	Φ510	Φ510	Φ630
Max. turning length	mm	320	420 (E) 355 (L)	350	410 (E) 415 (L)	810	565 (E) 500 (L)	1000	565	1000	1500
Travel X/Z	mm	180/350	200/430 (E) 200/360 (L)	470/350	240/430 (E) 240/455 (L)	240/830	240/600	240/1100	280/600	280/1100	350/1600
Rapid traverse X/Z	m/min	30/30	24/30	30/30	24/30	24/30	24/30	24/30	24/30	24/30	16/18
Spindle motor power	kW	5.5/7.5	7.5/11	7.5/11	7.5/11	7.5/11	11/15	11/15	11/15	11/15	15/18.5
Max. spindle speed	r/min	6000	6000	6000	5000	5000	4000	4000	4000	4000	2000
Spindle nose	ISO	A2-5	A2-5	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-8
Spindle bore	mm	Φ56	Φ56	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65	Φ65	Φ87
Hydraulic chuck	inch	6	6	6	8	8	8	8	10	10	12
Tool position	-	8	8	1-6 Gang Tooling Type	8	8	8	8	8	8	8
Turning tool shank size	mm	20×20	25×25	20×20	25×25	25×25	25×25	25×25	25×25	25×25	32×25
Boring tool holder diameter	mm	Φ32	Φ40	Φ32	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ50
Tailstock quill diameter	mm	Servo tailstock	Servo tailstock	-	Servo tailstock	Φ100	Φ100	Φ100 (E) Servo tailstock (L)	Φ100	Φ100	Φ130
Tailstock quill travel	mm	tailstock trip 250	tailstock trip 400	-	tailstock trip 380	100	100	100 (E) tailstock trip 900 (L)	100	100	100
Tailstock quill taper	Mose	Live center 4#	Live center 4#	-	Live center 5#	Live center 5#	Live center 5#	Live center 5#	Live center 5#	Live center 5#	Live center 5#
Positioning accuracy (X/Z)	mm	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.01	0.01	0.01/0.014
Repeatability accuracy (X/Z)	mm	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005/0.008
CNC system	-	NEWAY FANUC [SIEMENS]									
Auto chip conveyor	-	rear way	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	rear way
Machine weight	kg	2600	3400	3000	3500	4200	4200	4400	4400	4600	8000

[] option

NL series- Heavy duty CNC slant bed lathe with box guideway

- 01 Integrated 45° slant bed offers high rigidity. Heavy turning capabilities and convenient chip management with chain type conveyors.
- 02 X/Z axis lead screw are preload structure, which can reduce the influence on the precision from the thermal growth. There are improved oil seals equipped on the two sides of the lead screw to protect the lead screw bearing. Servo motor drives the high speed, silent ball screw directly. X/Z axis with box way, heat treatment of HRC48 hardness on the surface of guide way, in addition the guide way span is big with good rigidity, good anti-vibration, stable machining precision.



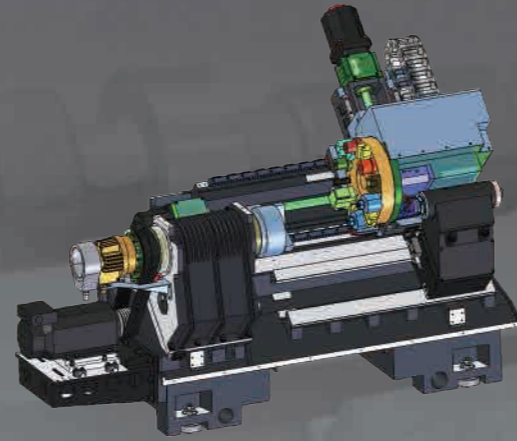
- 03 Tailstock applies rectangular box way, with good loading rigidity, and two level structures. There is a fine adjustment instrument between the top and lower level to realize the easy fine tuning on the tail stock quill on the rotating center. Standard equipped with the live center structure, the tailstock quill is driven by hydraulic pressure.
- 04 Newway one-piece whole body rigid spindle box offers low noise, high precision and long using life.

Item	Unit	NL502SC	NL504SC	NL634SC	NL634SCZ	NL635SC	NL635SCZ	NL636SC	NL636SCZ
Max. swing over bed	mm	Φ600	Φ600	Φ650	Φ650	Φ650	Φ650	Φ650	Φ650
Max. swing over saddle	mm	Φ450	Φ450	Φ410	Φ410	Φ410	Φ410	Φ450	Φ450
Max. turning diameter	mm	Φ500	Φ500	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630
Max. turning length	mm	500	1000	1000	1000	1500	1500	2000	2000
Travel X/Z	mm	295/600	295/1100	330/1100	330/1100	330/1600	330/1600	350/2100	350/2100
Rapid traverse X/Z	m/min	12/16	12/16	8/12	8/12	8/12	8/12	8/12	8/12
Spindle motor power	kW	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	r/min	3000	3000	2000	1000	2000	1000	2000	1000
Spindle nose	ISO	A2-6	A2-6	A2-8	A2-11	A2-8	A2-11	A2-8	A2-11
Spindle bore	mm	Φ65	Φ65	Φ87	Φ106	Φ87	Φ106	Φ102	Φ106
Hydraulic chuck	inch	10	10	12	15	12	15	12	15
Tool position	-	8	8	8	8	8	8	8	8
Turning tool shank size	mm	25×25	25×25	32×25	32×25	32×25	32×25	32×25	32×25
Boring tool holder diameter	mm	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50
Tailstock quill diameter	mm	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130
Tailstock quill travel	mm	100	100	100	100	100	100	100	100
Tailstock quill taper	Mose	Live center 5#	Live center 5#	5#	5#	5#	5#	5#	5#
Positioning accuracy (X/Z)	mm	0.010/0.012	0.010/0.012	0.012/0.014	0.012/0.014	0.012/0.014	0.012/0.014	0.016/0.040	0.016/0.040
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	0.007/0.020	0.007/0.020
CNC system	-	NEWAY FANUC [SIEMENS]							
Auto chip conveyor	-	side way [rear way]	side way [rear way]	side way	side way	side way	side way	side way	side way
Machine weight	kg	4300	4800	7500	7600	8000	8100	10000	11000

[] option

NL series- Slant bed turning center with linear guideway

- 01 Equipped with C axis orientation and 12 position live tooling turret for precise turning, milling, drilling, reaming, tapping on various parts.
- 02 Integrated 45° slant bed with high rigidity for deeper cutting and convenient chip removal.



- 03 X/Z axis lead screw are preload structure, which can reduce the influence on the precision from the thermal growth. X/Z axis linear way with good dynamic characteristics, stable machining precision, high travel speed and high machining efficiency.

NL series- Slant bed turning center with box guideway

- 01 Equipped with C axis and 12 position live tooling turret for precise turning, milling, drilling, reaming, tapping on various parts.
- 02 Integrated 45° slant bed with high rigidity and convenient chip elimination.
- 03 X/Z axis lead screw are preload structure, which can reduce the influence on the precision from the thermal growth. X/Z axis with box way, heat treatment of HRC48 hardness on the surface of guide way. The span is large offering, good rigidity, good anti-vibration, stable machining precision.



NL series- multi-horizontal turning center

- 01 Double high speed built-in spindles with high accuracy C axis function.
- 02 Double 12 tool positions turrets with BMT65 living tools and the Y axis function adopted in the top turret.
- 03 Well organized structure and high rigidity casting enabling the machine to complete complex job by one clamping.



Item	Unit	NL161T	NL251T	NL253T	NL322T	NL324T	NL402T	NL404T
Max. swing over bed	mm	Φ500	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650
Max. swing over saddle	mm	Φ300	Φ370	Φ370	Φ400	Φ400	Φ480	Φ480
Max. turning diameter	mm	Φ240	Φ350 [Φ290]	Φ350 [Φ290]	Φ320	Φ320	Φ400	Φ400
Max. turning length	mm	320	395 [325]	795 [725]	500 [475]	1000 [955]	500 [460]	1000 [940]
Max. bar capacity	mm	Φ45	Φ45	Φ45	Φ51	Φ51	Φ51	Φ51
Spindle motor power	kW	5.5/7.5	7.5/11	7.5/11	11/15	11/15	11/15	11/15
Max. spindle speed	rpm	6000	5000	5000	4000	4000	4000	4000
Spindle nose	ISO	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6
Spindle bore	mm	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65	Φ65
Spindle taper	-	Mose 6#	Mose 6#	Mose 6#	Metric 80	Metric 80	Metric 80	Metric 80
Hydraulic chuck	inch	6	8	8	8	8	10	10
Tailstock quill diameter	mm	-	-	Φ100	Φ100	Φ100	Φ100	Φ100
Tailstock quill travel	mm	-	-	100	100	100	100	100
Tailstock quill taper	Mose	-	-	Live Center 5#	Live Center 5#	Live Center 5#	Live Center 5#	Live Center 5#
Travel X/Z	mm	180/350	240/430	240/830	235/530	235/1050	275/530	275/1050
Rapid travel speed X/Z	m/min	30/30	24/30	24/30	24/30	24/30	24/30	24/30
Tool position	mm	12 (VDI 20)	12(VDI 30)[BMT55]	12(VDI 30)[BMT55]	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]
Max. living tool speed	rpm	5000	5000 [6000]	5000 [6000]	5000 [6000]	5000[6000]	5000[6000]	5000[6000]
Turning tool	mm	16×16	20×20 [25×25]	20×20 [25×25]	25×25	25×25	25×25	25×25
Max. boring tool holder	mm	Φ16	Φ25 [Φ32]	Φ25 [Φ32]	Φ32	Φ32	Φ32	Φ32
Max. drilling capacity	mm	Φ12×0.14	Φ14×0.15[Φ16×0.2]	Φ14×0.15[Φ16×0.2]	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 [M14×2/M20×1.5]	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	M14×2/M20×1.5
Max. milling capacity	mm	Φ12×8×45	Φ20×10×40 [Φ20×12×40]	Φ20×10×40 [Φ20×12×40]	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"	0.006/0.006/51"	0.008/0.008/51"	0.008/0.008/51"	0.01/0.01/51"	0.01/0.01/51"
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"	0.004/0.004/20"
CNC system	-	NEWAY FANUC [SIEMENS]						
Auto chip conveyor		rear way	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]	side way [rear way]
Machine weight	Kg	2600	3500	4200	4200	4400	4400	4600

[] option

Item	Unit	NL502T	NL504T	NL634T	NL635T	NL636T
Max. swing over bed	mm	Φ600	Φ600	Φ650	Φ650	Φ650
Max. swing over saddle	mm	Φ450	Φ450	Φ410	Φ410	Φ450
Max. turning diameter	mm	Φ430	Φ430	Φ540 [Φ630]	Φ540 [Φ630]	Φ540 [Φ630]
Max. turning length	mm	500	1000	1000	1500	2000
Max. bar capacity	mm	Φ51	Φ51	Φ89	Φ89	Φ89
Spindle motor power	kW	11/15	11/15	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	3000	3000	2000	2000	2000
Spindle nose	ISO	A2-6	A2-6	A2-8	A2-8	A2-8
Spindle bore	mm	Φ65	Φ65	Φ102	Φ102	Φ102
Spindle taper	-	Metric 80	Metric 80	Metric 120	Metric 120	Metric 120
Hydraulic chuck	inch	10	10	12	12	12
Tailstock quill diameter	mm	Φ100	Φ100	Φ130	Φ130	Φ130
Tailstock quill travel	mm	100	100	100	100	100
Tailstock quill taper	Mose	Live Center 5#	Live Center 5#	5#	5#	5#
Travel X/Z	mm	295/550	295/1050	355/1100	355/1600	355/2100
Rapid travel speed X/Z	m/min	12/16	12/16	8/12	8/12	8/12
Tool position	mm	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]	12(VDI 40)[BMT55]
Max. living tool speed	rpm	5000[6000]	5000[6000]	5000[6000]	5000[6000]	5000[6000]
Turning tool	mm	25×25	25×25	25×25	25×25	25×25
Max. boring tool holder	mm	Φ32	Φ32	Φ40[Φ32]	Φ40[Φ32]	Φ40[Φ32]
Max. drilling capacity	mm	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ16×0.2
Max. tapping capacity	mm	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5	M14×2/M20×1.5
Max. milling capacity	mm	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40
Positioning accuracy (X/Z/C)	mm	0.010/0.012/51"	0.010/0.012/51"	0.012/0.016/51"	0.012/0.016/51"	0.016/0.040/51"
Repeatability accuracy (X/Z/C)	mm	0.005/0.007/20"	0.005/0.007/20"	0.006/0.008/20"	0.006/0.008/20"	0.007/0.020/20"
CNC system	-	NEWAY FANUC [SIEMENS]				
Auto chip conveyor		side way [rear way]	side way [rear way]	side way	side way	side way
Machine weight	Kg	4300	4800	7500	8100	10000

[] option

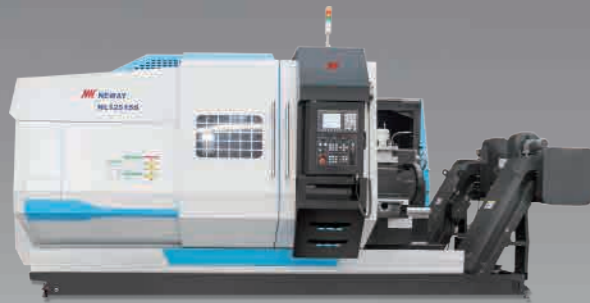
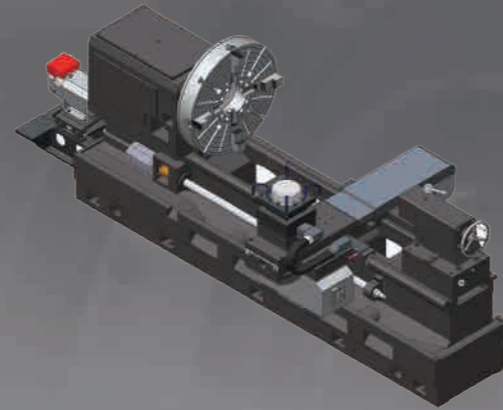
Item	Unit	NL301Y	NL322M
Max. Swing dia.	mm	Φ620	Φ314
Max. working dia.	mm	Φ300	Φ314
Max. working length	mm	300	550
Spindle	max spindle speed	rpm	6000
	motor power	kW	11/15
	spindle terminal type	ISO	A2-6
	spindle bore dia	mm	Φ56
	max allowable bar dia	mm	Φ46
sub-Spindle	hydro chuck	inch	6
	max spindle speed	rpm	-
	motor power	kW	-
	spindle terminal type	ISO	-
	spindle bore dia	mm	-
Automatic Production Line	travel	mm	650
	rapid traverse	m/min	40
	rapid traverse	m/min	8
	hydro chuck	inch	-
	Travel X1/X2/Z1/Z2	mm	210/400 (X/Z)
Travel Y	mm	105(±52.5)	100(±50)
Rapid traverse X1/X2/Z1/Z2	m/min	30/30 (X/Z)	30/30/40/40
Rapid traverse Y	m/min	10	15
No. of turret	-	1	2
Number of tools	-	12(BMT55)	12×2 (BMT65)
Size of square tool shank	mm	□25	□25
Size of circular tool shank	mm	Φ32	Φ40
Dia. of live tool shank	mm	ER25	Φ20/ER32
Max speed of C axis	rpm	5000	5000
Max boring capacity	mm	Φ16×0.2	Φ16×0.2
Max threading capacity	mm	M14×2/M20×1.5	M14×2/M20×1.5
Max slot boring capacity	mm	Φ20×12×40	Φ20×12×40
Positioning accuracy(X1/X2/Z1/Z2/Y)	mm	0.01	0.01
Positioning accuracy(C1/C2)	sec	51	51"
Repeatability accuracy(X1/X2/Z1/Z2/Y)	mm	0.005	0.005
Repeatability accuracy(C1/C2)	sec	20	20"
CNC system	-	NEWAY FANUC	FANUC 0i-TF(1)
Auto chip conveyor	-	side/rear way	side/rear way
Machine weight	kg	3800	8500

[] option

CNC Lathe
Vertical Machine Center
Horizontal Machine Center
Gantry Machine Center
Special Purpose Machine
CNC Boring and Milling Machine
Automatic Production Line
Options

NL series- CNC large size horizontal lathe

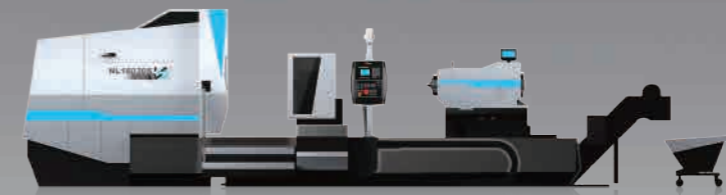
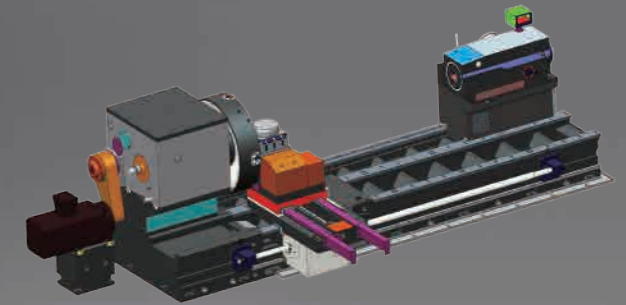
- 01 Higher spindle speed 630/500rpm, bigger cutting diameter 850/1000mm, bigger tool size 32/50mm, huge support loading weight 6 tons, higher travel speed X & Z axis 6 and 8m/min.
- 02 Flat bed with frame semi-enclosed structure, double 45° slant bed and double chip collection plate for good chip conveying.



- 03 Machine bed with three guide way structure "flat-mountain-flat" the main cutting force is always located in the guide way plane, with high rigidity, high precision and without cutting vibration.
- 04 Spindle with three support ways, optimized span design; applies hydraulic cylinder to control and realize smooth table and spindle speed shifts.

NL series- CNC heavy duty horizontal lathe

- 01 Flat bed with integrated telescopic stainless-steel way covers for good water-proof and dust-proof protection offering, high rigidity, high precision and reasonable footprint.
- 02 Integrated inlaid steel box way of "flat-flat-mountain" structure, finished by high frequency quenching and grinding. The box guide way is equipped with the composite to avoid stick slip.



- 03 X axis applies a ball screw and high precision bearing support. Z axis applies a high precision small gear that eliminates gap structure by the gear box and high precision gradient scale to realize high position and repeatability accuracy.

Item	Unit	NL8515S	NL8530S	NL8550S	NL10015S/H	NL10030S/H	NL10050S/H	NL12515S/H
Max. swing over bed	mm	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000	Φ1250
Max. swing over saddle	mm	Φ500	Φ500	Φ500	Φ700	Φ700	Φ700	Φ950
Max. turning diameter	mm	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000	Φ1250
Max. turning length	mm	1500	3000	5000	1500	3000	5000	1500
Max workpiece weight	kg	6000	6000	6000	6000	6000	6000	6000
Spindle motor power	kW	15/18.5	15/18.5	15/18.5	22/25	22/25	22/25	22/25
Max. spindle speed	rpm	630	630	630	500	500	500	500
Spindle nose	ISO	A2-11	A2-11	A2-11	A2-11/A2-15	A2-11/A2-15	A2-11/A2-15	A2-11/A2-15
Spindle bore	mm	Φ100	Φ100	Φ100	Φ100/Φ130	Φ100/Φ130	Φ100/Φ130	Φ100/Φ130
Spindle torque	N.m	4343	4343	4343	6370	6370	6370	6370
Manual 4 jaw chuck	mm	Φ800	Φ800	Φ800	Φ1000	Φ1000	Φ1000	Φ1000
Tool position	-	4	4	4	4	4	4	4
Turning tool shank size	mm	32×32	32×32	32×32	50×50	50×50	50×50	50×50
Tailstock quill diameter	mm	Φ160	Φ160	Φ160	Φ160	Φ160	Φ160	Φ160
Tailstock quill travel	mm	300	300	300	300	300	300	300
Tailstock quill taper	Mose	6#	6#	6#	6#	6#	6#	6#
Positioning accuracy(X/Z)	mm	0.012/0.020	0.012/0.035	0.012/0.050	0.012/0.020	0.012/0.035	0.012/0.050	0.012/0.020
Repeatability accuracy(X/Z)	mm	0.007/0.013	0.007/0.020	0.007/0.020	0.007/0.013	0.007/0.020	0.007/0.020	0.007/0.013
CNC system	-	SIEMENS [NEWAY FANUC]						
Auto chip conveyor	-	Double chip collecting plate						
Machine weight	kg	11000	13000	16000	12500	14500	17500	14500

[]option

Item	Unit	NL12530S/H	NL12550S/H	NL16030S	NL16060S	NL20050S	NL20060S
Max. swing over bed	mm	Φ1250	Φ1250	Φ1600	Φ1600	Φ2200	Φ2200
Max. swing over saddle	mm	Φ950	Φ950	Φ1300	Φ1300	Φ1800	Φ1800
Max. turning diameter	mm	Φ1250	Φ1250	Φ1300	Φ1300	Φ1600	Φ1600
Max. turning length	mm	3000	5000	3000	6000	5000	6000
Max workpiece weight	kg	6000	6000	20000	20000	20000	20000
Spindle motor power	kW	22/25	22/25	55(continuous)	55(continuous)	55(continuous)	55(continuous)
Max. spindle speed	rpm	500	500	450	450	450	450
Spindle nose	ISO	A2-11/A2-15	A2-11/A2-15	A2-20	A2-20	A2-20	A2-20
Spindle bore	mm	Φ100/Φ130	Φ100/Φ130	Φ130	Φ130	Φ130	Φ130
Spindle torque	N.m	6370	6370	22000	22000	22000	22000
Manual 4 jaw chuck	mm	Φ1000	Φ1000	Φ1400	Φ1400	Φ1800	Φ1800
Tool position	-	4	4	4	4	4	4
Turning tool shank size	mm	50×50	50×50	40×40	40×40	40×40	40×40
Tailstock quill diameter	mm	Φ160	Φ160	Φ320	Φ320	Φ320	Φ320
Tailstock quill travel	mm	300	300	250	250	250	250
Tailstock quill taper	Mose	6#	6#	100(metric)	100(metric)	100(metric)	100(metric)
Positioning accuracy(X/Z)	mm	0.012/0.035	0.012/0.050	0.05/0.08	0.05/0.08	0.05/0.08	0.05/0.08
Repeatability accuracy(X/Z)	mm	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			
Auto chip conveyor	-	Double chip collecting plate		Rear auto chip conveyor			
Machine weight	kg	16500	19500	35000	42000	45000	48000

[]option

VNL series- CNC vertical lathe

- 01 Equipped with auto chip conveyor, hydraulic chuck clamping. Whole machine structure is designed by FEA for high stability, high dynamic rigidity and repeatability. To achieve deeper cuts in difficult materials Neway is the right choice.
- 02 Integrated box type bed seat, high strength reinforcement ribs help to achieve the machines high rigidity and good anti-vibration.



- 03 Spindle is supported with high accuracy double row cylindrical roller bearings in front and thrust angular contact bearings compliments backside support with high accuracy double row cylindrical roller bearings for great control of various cutting forces both axial and radial.



Item	Unit	VNL50S	VNL65S	VNL80S	VNL80SK	VNL125S	VNL125SK	VNL160S	VNL160SK	VNL250S	VNL250SK
Max. swing over bed	mm	Φ800	Φ900	Φ1000	Φ1000	Φ1500	Φ1500	Φ1800	Φ1800	Φ2750	Φ2750
Max. turning diameter	mm	Φ550	Φ650	Φ800	Φ800	Φ1250	Φ1250	Φ1600	Φ1600	Φ2500	Φ2500
Max cutting height	mm	600	700	800	600	1000	1000	1600	1600	2000	2000
Max load weight	kg	-	-	-	-	5000	5000	8000	8000	16000	16000
Travel X/Z	mm	520/600	520/750	520/840	700/600	800/620	800/620	1040/800	1050/800	1820/1400	1420/1400
Rapid travel speed X/Z	m/min	12/12(S) 12/20(H)	12/12	12/12	10/10	12/12	10/10	12/12	10/10	9/9	9/9
Spindle motor power	kW	18.5/22	18.5/22	18.5/22	18.5/22	30(continuous)	30(continuous)	37(continuous)	37(continuous)	55(continuous)	55(continuous)
Worktable diameter	mm	15" (hydraulic chuck)	18" (hydraulic chuck)	21" (hydraulic chuck)	21" (hydraulic chuck)	Φ1000	Φ1000	Φ1250	Φ1250	Φ2250	Φ2250
Max. worktable speed	r/min	1500/2000	1500	1250	1250	500	500	400	400	120	120
Max. worktable torque	N.m	-	2000	2920	2920	6000	6000	14000	14000	40000	40000
Tool position	-	12(horizontal) [6(vertical)]	12(horizontal) [6(vertical)]	12(horizontal) [6(vertical)]	8(Tool magazine)	4(vertical)	8(Tool magazine)	4 (vertical)	12(Tool magazine)	1	12(Tool magazine)
Turning tool shank	mm	32×32	32×32	32×32	32×32	32×32	32×32	32×32	32×32	40×40	40×40
Driving	-	hydraulic [electrical]	hydraulic [electrical]	hydraulic [electrical]	electrical	electrical	electrical	electrical	electrical	/	/
Positioning accuracy(X/Z)	mm	0.008/0.012	0.008/0.012	0.012/0.015	0.015/0.015	0.02/0.02	0.02/0.02	0.02/0.02	0.02/0.02	0.03/0.03	0.03/0.03
Repositioning accuracy(X/Z)	mm	0.006/0.008	0.006/0.008	0.007/0.010	0.010/0.010	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	-	rear way [sideway]	rear way [sideway]	rear way [sideway]	side way	side way	side way	side way	side way	optional	optional
Machine weight	kg	10000	11000	12000	14000	16000	17000	25000	26000	42000	42000

[]option

VNL series- CNC vertical turning center

- 01 Mechatronics design, compact structure, reasonable layout and beautiful appearance with reliable performance, good dynamic rigidity and stable operation.
- 02 High-precision double-row roller bearing and angular contact ball bearing for spindle. The encoder and the spindle locking device cooperate to realize the C axis function.



- 03 Equipped with 12 position living turret to complete drilling, milling, tapping and other composite machining besides turning. Also improving the part processing accuracy.
- 04 It adopts high-precision ball screw drive and linear guideway to make machine positioning accuracy and repeat positioning accuracy higher, with good motion precision and dynamic performance.
- 05 FANUC oi-TF or SIEMENS CNC system and AC vertical and horizontal servo system are used for reliable performance.

Item	Unit	VNL50T	VNL65T
Max swing dia.	mm	Φ800	Φ900
Max cutting dia	mm	Φ550	Φ760
Max cutting height	mm	500	700
Max load weight	kg	/	/
Max travel X/Z	mm	520/620	520/750
Rapid traverse X/Z	m/min	12/20	12/12
Motor power	kW	18.5/22	18.5/22
Worktable dia	inch/mm	15" (hydro chuck)	18" (hydro chuck)
Max worktable speed	r/min	2000	2000
Max worktable torque	N · m	730	800
No. of tools	-	12(horizontal)	12(horizontal)
Circular tool shank	mm	32×32	32×32
Max boring capacity	mm	Φ18×0.2	Φ18×0.2
Max threading capacity	mm	M16×2 / M27×1.5	M16×2/M27×1.5
Max slot boring capacity	mm	Φ20×22×35	Φ20×22×35
Driving	-	servo motor	servo motor
Positioning (X/Z)	mm	0.008/0.012	0.008/0.012
Repositioning (X/Z)	mm	0.006/0.008	0.006/0.008
CNC system	-	NEWAY FANUC[SIEMENS]	
Chip conveyor	-	rear way [side way]	rear way [side way]
Machine weight	kg	10000	11000

[]option

Item	Unit	VNL160T
Max swing dia.	mm	Φ1800
Max cutting dia	mm	Φ1600
Max cutting height	mm	1200
Max load weight	kg	8000
Worktable dia	mm	Φ1600
Max worktable speed	low rpm high rpm	1~65 66~260
Live tool speed	low rpm high rpm	1~1200 1200~2400
Max worktable torque	Nm	19000
No. of tools(ATC)	Pc	16
Type of tools	mm	BT50
Sliding column section	mm	250×250
Max. tool size	-	280W×150T×380L
Max. tool weight	kg	50
Max. tool load	kg	360
Tool change time(T to T)	Sec	45
Rapid feed X	m/min	12
Rapid feed Z	m/min	10
Cutting feedrate	mm/min	1~2000
Travel X	mm	-100~+950
Travel Z	mm	800
Travel of beam	mm	750
Spindle motor power	kW	37/45
CNC system	-	NEWAY FANUC[SIEMENS]
Dimension(depth x width)	mm	5400×4400
Height	mm	5300
Weight	kg	27000

[]option

CNC Lathe
Vertical Machine Center
Horizontal Machine Center
Gantry Machine Center
Special Purpose Machine
CNC Boring and Milling Machine
Automatic Production Line
Options

VM series- CNC traveling table vertical machining center with linear guideway

- 01 Integrated cast iron, design for high rigidity, lower distance from worktable to ground is 900/1000/1100mm. The machine is super heavy weight to guarantee the whole rigidity.
- 02 Three axis span X/Y/Z 265-350mm/440-620mm/275-420mm, which is much bigger than the similar models from other factories.



- 03 The three axes lead screws apply preload structure to guarantee the machining precision and stability. The three-axis linear guideway (ball type and roller type) improves the machining rigidity, repeatability and stability.

Item	Unit	VM740H	VM740HL	VM950H	VM950HL	VM1050H	VM1150H	VM1150HL
Worktable size	mm	750×420	750×420	950×520	950×520	1000×520	1100×520	1100×520
Max worktable load	kg	350	350	600	500	650	750	600
Axis travel X/Y/Z	mm	650/420/500	650/420/500	850/520/560	850/520/560	850/520/560	1000/520/560	1000/520/560
Spindle terminal to worktable	mm	120~620	120~620	150~710	120~680	150~710	150~710	120~680
Spindle center to column guideway	mm	485	485	590	575	580	590	575
Axis rapid travel X/Y/Z	m/min	40/40/30	48/48/48	30/30/24 [36/36/30]	40/40/30	36/36/36	30/30/24 [36/36/30]	40/40/30
Spindle motor power	kW	5.5/7.5 [7.5/11]	5.5/7.5 [7.5/11]	7.5/11 [11/15]	7.5/11	7.5/11 [11/15]	7.5/11 [11/15]	7.5/11
Max. spindle speed	rpm	10000(belt) [12000(direct connection)]	12000(direct connection) [15000(direct connection)]	8000(belt) [10000(belt)] [12000(direct connection)]	12000(direct connection) [15000(direct connection)]	8000(belt) [10000(belt)] [12000(direct connection)]	8000(belt) [10000(belt)] [12000(direct connection)]	12000(direct connection) [15000(direct connection)]
Spindle taper	-	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40
Number of tools(disc type)	Pc	20	20	24	24	24	24	24
Tool shank	-	MAS403 BT40	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	Φ78/300/8	Φ78/300/8	Φ78/300/8	Φ78/300/8	Φ78/300/8
Tool change time T-T	s	1.7	1.7	1.8	1.8	1.8	1.8	1.8
Drilling (normalized mild steel)	mm	Φ30	Φ30	Φ40	Φ40	Φ40	Φ40	Φ40
Tapping (normalized mild steel)	mm	M16	M16	M20	M20	M20	M20	M20
Milling (normalized mild steel)	cm ³ /min	150	150	200	200	200	200	200
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Repositioning accuracy (X/Y/Z)	mm	0.005	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 (rear)]	side way	[side way (rear)]	side way	side way	[side way (rear)]
Machine Weight	kg	4000	4000	5600	5000	5800	6600	6000

[]option

VM series- CNC traveling table vertical machining center with linear guideway

- 04 ATC with rapid tool change and rapid clamping & unclamping system helps to improve the tool change efficiency by 20%. With a one button reset function for more convenient problem solving of e stop recovery.
- 05 The model VM13 and bigger models have four guide ways on the Y axis. Larger loading capacity, high rigidity also.



- 06 Options three axis with box way with high rigidity (R series),high speed electrical spindle for mold industry (V series), high cutting torque with gear box (Z series),three axis grating scale, CTS, spindle oil chiller, 4th axis, 5th axis and so on.



Item	Unit	VM1160H	VM1260H	VM1360H	VM1370H	VM1580H	VM1780H	VM1880H
Worktable size	mm	1100×600	1200×600	1350×600	1400×700	1500×800	1700×800	1800×800
Max worktable load	kg	750	800	1000	1100	1250	1500	1750
Axis travel X/Y/Z	mm	1000/600/560	1050/600/600	1200/600/600	1300/700/700	1350/800/680	1500/800/680	1700/850/700
Spindle terminal to worktable	mm	150~710	140~740	150~750	120~820	150~830	150~830	140~840
Spindle center to column guideway	mm	659	649	665	773	868	868	900
Axis rapid travel X/Y/Z	m/min	30/30/24 [36/36/30]	30/30/24 [36/36/30]	36/36/24	30/30/24(H)	30/30/24	30/30/24	24/24/20
Spindle motor power	kW	7.5/11[11/15]	11/15	11/15	11/15	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	8000(belt) [10000(belt)] [12000(direct connection)]	8000(belt) [10000(belt)] [12000(direct connection)]	8000	8000	6000	6000	6000
Spindle taper	-	7:24taper NO.40	7:24taper NO.40 [7:24taper NO.50]	7:24taper NO.40 [7:24taper NO.50]	7:24taper NO.40 [7:24taper NO.50]	7:24taper NO.50	7:24taper NO.50	7:24taper NO.50
Number of tools(disc type)	Pc	24	24	24	24	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ78/300/8	Φ80/300/8	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	1.8	1.8	2	2	2
Drilling (normalized mild steel)	mm	Φ40	Φ45	Φ45	Φ45	Φ50	Φ50	Φ50
Tapping (normalized mild steel)	mm	M20	M24	M24	M24	M30	M30	M30
Milling (normalized mild steel)	cm ³ /min	200	250	250	250	300	300	300
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010
Repositioning accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	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	side way	side way
Machine Weight	kg	7000	7500	9000	9500	11000	13000	15000

[]option

VM series- 5G industry-specific CNC vertical machining center

- This series of machine tools is specifically designed for the efficient machining of die-cast aluminum parts for the 5G industry;
- The spindle uses a high-speed direct drive structure with higher vibration control performance, smoother machining, higher surface quality, and reduced manual polishing and dressing time;
- The machine tool is designed with high acceleration, and the advantage of multi-hole machining efficiency is more obvious.
- Large-span bed and column structure design, the machine is more stable when working at high acceleration and deceleration.



VM series- vertical machining centers with rotary table & traveling column

VM840T / VM960T

- Hydraulic double rotary worktables are equipped on the machine bed divide the machine area and loading area to improve efficiency and save space greatly.
- Integrated machine bed with reinforce ribs, advanced moving column design to realize high performance and increased stability.



Traveling column vertical machining center

VM2560C

- Fixed worktable various special parts, such as bigger parts, special shape parts and the parts with abnormal center, etc.; avoid interference between the special workpiece and the machine other parts; easy for operator loading and unloading parts.



Gantry type vertical machining center VM12100B

- Gantry type VMC with integrated column to guarantee big loading capacity, high machining precision, high rigidity and high reliability;
- High speed spindle unit with max. torque 110Nm, cycled coolant to improve spindle bearing life and avoid the influence on the spindle machining from thermal deformation;
- Preloaded lead screw and linear guide ways on three axis reduce feed vibration and improve machining precision.



VM series 5 axis vertical machining center

VM650F

- Gantry type structure with high rigidity, integrated cast iron of machine bed and column, small distance from spindle center to Z axis, reduce spindle box overturn moment, improves machine precision and stability;
- X, Y, Z, B, C five axis interpolation for complex parts machining, such as impeller, blade, mold and spatial cam;
- High level SIEMENS840DsI CNC controller to realize stable machining and various machining requirements from customers.

Item	VM640VG	VM740VG	VM1050VG	VM1260VG
Worktable size	650×400	750×420	1000×520	1200×600
Max worktable load	250	350	650	800
Axis travel X/Y/Z	510/400/350	650/420/500	850/520/560	1100/650/600
Spindle terminal to worktable	150~500	120~620	150~710	140~740
Spindle center to column guideway	458	485	580	690
Axis rapid travel X/Y/Z	60/60/60	48/48/48	40/40/36	36/36/30
Spindle motor power	3.7/5.5	5.5/7.5[7.5/11]	7.5/11[11/15]	11/15
Max. spindle speed	20000	12000(direct connection) [15000(built-In Type)]		
Spindle taper	7:24taper NO.30	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40
Number of tools(disc type)	16	20	24	24
Tool shank	BT30	BT40	BBT40	BBT40
Max. tool dia./length/weight	Φ100/250/3	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	1.6	1.6	1.6	1.6
Drilling (normalized mild steel)	Φ16	Φ30	Φ40	Φ45
Tapping (normalized mild steel)	M10	M16	M20	M24
Milling (normalized mild steel)	60	150	200	250
Positioning accuracy (X/Y/Z)	0.008	0.008	0.008	0.008
Repositioning accuracy (X/Y/Z)	0.005	0.005	0.005	0.005
CNC system	NEWAY FANUC [SIEMENS]			
Auto chip conveyor	side way (rear)	side way (rear)	side way	side way
Machine weight	3000	4000	6000	7600

[] 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 X/Y/Z	m/min	30/30/24
Spindle motor power	kW	15/18.5
Max. spindle speed	rpm	5000
Spindle taper	-	7:24taper 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 mild steel)	mm	Φ60
Tapping (normalized mild steel)	mm	M36
Milling (normalized mild steel)	cm ³ /min	350
Positioning accuracy (X/Y/Z)	mm	0.010/0.010/0.008
Repositioning accuracy (X/Y/Z)	mm	0.006/0.006/0.005
CNC system	-	NEWAY FANUC[SIEMENS]
Auto chip conveyor	-	side way (rear)
Machine Weight	kg	15000

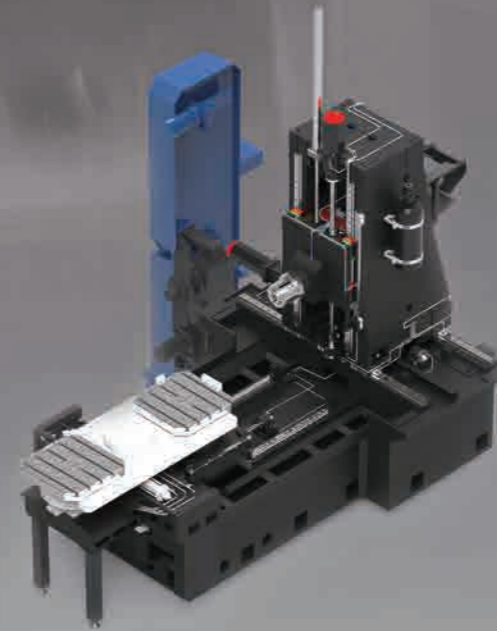
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Item	Unit	VM450F	VM650F
Worktable size	mm	φ450	φ650
Max worktable load	kg	200	300
Axis travel X/Y/Z	mm	450/400/400	650/550/500
B/C axis rotating degree	°	±110°/360°	±110°/360°
Spindle terminal to worktable	mm	140~540	150~650
Axis rapid travel X/Y/Z	m/min	48/48/40	48/48/40
Spindle motor power	kW	10.6	15.5
Max. spindle speed	rpm	15000	18000
Spindle taper	-	7:24taper 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 mild steel)	mm	Φ30	Φ40
Tapping (normalized mild steel)	mm	M16	M20
Milling (normalized mild steel)	cm ³ /min	150	200
Positioning accuracy (X/Y/Z)	mm/sec	0.006/10"	0.006/10"
Repositioning accuracy (X/Y/Z)	mm/sec	0.004/5"	0.004/5"
CNC system	-	SIEMENS 840D sl	
Auto chip conveyor	-	side way	side way
Machine Weight	kg	8000	12000

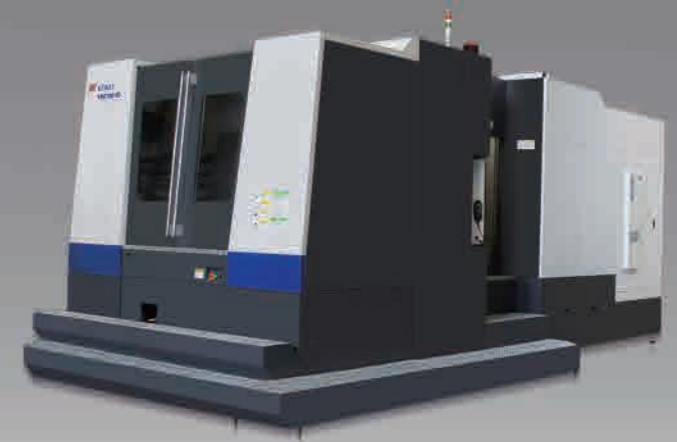
Item	Unit	VM840T	VM960T	VM2560C
Worktable size	mm	800×440×2	960×600×2	2500×600
Max worktable load	kg	2-350	2-500	3000
Worktable type	-	Two position hydraulic indexing worktable	Two position hydraulic indexing worktable	Fix worktable
Axis travel X/Y/Z	mm	700/420/560	900/460/620	2100/600/600
Spindle terminal to worktable	mm	200~760	230~850	180~780
Worktable type	m/min	30/30/20	30/30/20	30/30/24
Spindle motor power	kW	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	6000	6000	8000
Spindle taper	-	7:24taper NO.40	7:24taper NO.40	7:24taper NO.40
Number of tools(disc type)	Pc	24(disc type)	24(disc type)	32(chain type)
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ75/300/8
Tool change time T-T	s	1.8	1.8	1.8
Drilling (normalized mild steel)	mm	Φ50	Φ50	Φ50
Tapping (normalized mild steel)	mm	M27	M27	M27
Milling (normalized mild steel)	cm ³ /min	300	300	300
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.020/0.015/0.012
Repositioning accuracy (X/Y/Z)	mm	0.005	0.005	0.010/0.008/0.006
CNC system	-	NEWAY FANUC		
Auto chip conveyor	-	side way	side way	side way
Machine Weight	kg	11000	15000	14000

HM series- Horizontal machining center V type

- 01 Integrated machine bed structure offering a high efficiency T shape structure. It exhibits big reinforcement rib, and excellent vibration reduction.
- 02 Double wall thermal symmetrical structure design.
- 03 German ZF gear box and high rigid spindle system.
- 04 Automatic Pallet Changer APC applies direct rotation for exchanging, more reliable exchanging, at higher speeds.
- 05 Chip conveyor keeps Chips free drop down, chips are removed outside by the chip conveyor; Bed, column, spindle box applies a thermal symmetrical structure design, the whole machine exhibit great thermal stability performance.
- 06 Optional BT40 and HSK high speed mechanical spindle or electrical spindle, synchronous 4th axis 0.001degree worktable, three axis grating scale, CTS, U axis facing head, 40 tools to 90 tools chain type tool magazine and so on.



HM series- Horizontal machining center V type



Item	Unit	HM50VS		HM50VD		HM63VS	HM63VD	HE50D
		(BT40)	(BT50)	(BT40)	(BT50)			
Worktable size	mm	500×500		2-500×500		630×630	2-630×630	2-500×500
Max worktable load	kg	500		500		1200		500
Worktable indexing	-			1°×360[0.001°×360000]				
Worktable exchanging time	s	/		10		/	20	10
Worktable exchanging drive	-	/		hydraulic		/	hydraulic	hydraulic
Worktable max. speed	r/min	10		10		10		30
Max. part diameter / height	mm	Φ800×800		Φ800×800		Φ1000×1000		Φ800×800
Axis travel X/Y/Z	mm	900/750/800		900×750×800		1000×850×850		730×730×800
Spindle terminal to worktable	mm	140-940	100-900	140-940	100-900	180-1030		70-870
Spindle center to worktable surface	mm	65~815		50~800		120~970		100-830
Axis rapid travel X/Y/Z	m/min	50		50		36		60
Spindle motor power	kW	11/15		11/15		22/26		15/18.5
Max. spindle speed	rpm	10000	6000	10000	6000	4500		12000rpm
Spindle torque	N.m	70/95.4	140/191	70/95.4	140/191	770/910		104/128
Spindle taper	-	7:24taper NO.40	7:24taper NO.50	7:24taper NO.40	7:24taper NO.50	7:24taper NO.50		7:24taper NO.40
Number of tools(disc type)	Pc	32		40		40(chain type)		40(disc type)
Tool shank	-	MAS403BT40	MAS403BT50	MAS403 BT40	MAS403 BT50	MAS403 BT50		MAS403BT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/350/8	Φ125/450/25	Φ80/350/8	Φ125/450/25	Φ125/500/25		Φ85/500/8
Max. tool size (empty neighbor)	mm	Φ120		Φ250		Φ250		Φ170
Tool change time T-T	s	2.31	3.45	2.31	3.45	3.45		1.3
Drilling (normalized mild steel)	mm	Φ30		Φ35		Φ55		Φ30
Tapping (normalized mild steel)	mm	M20		M24		M45		M20
Milling (normalized mild steel)	cm³/min	200		250		600		200
Positioning accuracy (X/Y/Z)	mm	0.010		0.010		0.010		0.01
Repositioning accuracy X/Y/Z	mm	0.006		0.006		0.006		0.006
Positioning accuracy (B)	"	6		6		6		15
Repositioning accuracy (B)	"	2		2		2		6
CNC system	-	NEWAY FANUC [SIEMENS]						
Auto chip conveyer	-	center chain		center chain		Z axis with double helix + rear chain chip conveyer		
Machine weight	kg	16000		18000		22000	24000	12000

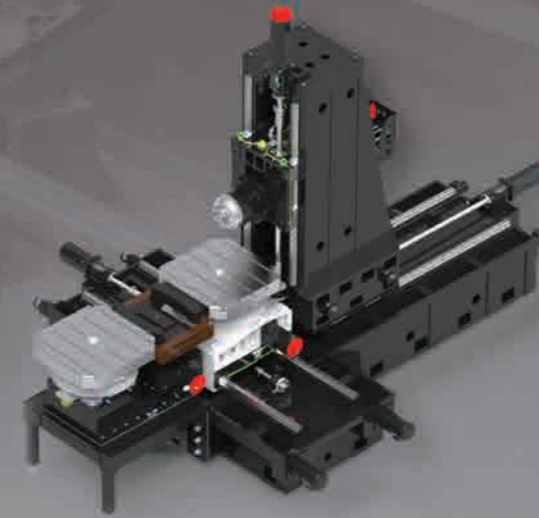
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Item	Unit	HE63D	HM80VE	HM80VD	HM100VS	HM100VD
Worktable size	mm	2-630×630	800×800	2-800×800	1000×1000	2-1000×1000
Max worktable load	kg	1000	1600		2000	
Worktable indexing	-	1°×360[0.001°×360000]				
Worktable exchanging time	S	16	/	25	/	25
Worktable exchanging drive	-	hydraulic	/	Servo motor	/	Servo motor
Worktable max. speed	r/min	16	10		10	
Max. part diameter / height	mm	Φ1000×1000	Φ1200×1100	Φ1200×1200	Φ1300×1300	
Axis travel X/Y/Z	mm	1000×850×850	1050×900×900	1250×1000×1100	1400×1020×1050	
Spindle terminal to worktable	mm	75~925	140-1040	200~1300	250~1300	
Spindle center to worktable surface	mm	0~850	100~1000	120~1120	120~1140	80~1100
Axis rapid travel X/Y/Z	m/min	50	36	30	30	
Spindle motor power	kW	15/18.5	22/26	22/26	22/26	
Max. spindle speed	rpm	6000	4500		4500	
Spindle torque	N.m	381/471	770/910	770/910	770/910	
Spindle taper	-	7:24taper NO.50	7:24taper NO.50		7:24taper NO.50	
Number of tools(disc type)	Pc	40(chain type)	40(chain type)		40(chain type)	
Tool shank	-	MAS403 BT50	MAS403 BT50		MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	Φ125/500/25	Φ125/500/25	Φ125/500/35	Φ125/500/35	
Max. tool size (empty neighbor)	mm	Φ250	Φ250		Φ250	
Tool change time T-T	s	2.96	3.45	5.5	5.5	
Drilling (normalized mild steel)	mm	Φ50		Φ55	Φ60	
Tapping (normalized mild steel)	mm	M36		M45	M48	
Milling (normalized mild steel)	cm³/min	300		600	900	
Positioning accuracy (X/Y/Z)	mm	0.010		0.010	0.010	
Repositioning accuracy X/Y/Z	mm	0.006		0.006	0.006	
Positioning accuracy (B)	"	6		6	6	
Repositioning accuracy (B)	"	2		2	2	
CNC system	-	NEWAY FANUC [SIEMENS]				
Auto chip conveyer	-	center chain	Z axis with double helix + rear chain chip conveyer			
Machine weight	kg	19000	23000	26000	24000	27000

[] option

HM series- Horizontal machining center T type

- 01 Integrated machine bed structure, T type bed layout, column moving structure, big span of the guide way, ergonomic design offers high rigidity and applies spindle unit with roller bearings (except for HM50TS/TD) with a high efficiency ZF gear box transmission, standard with coolant system, complex auto chip conveyor with chain and helical auger type chip control, air conditioned electrical cabinet, spindle oil chiller and more.
- 02 Three-axis with full roller type linear way, high precision ball screw, three axes with thermal preload structure that guards against thermal growth.
- 03 Options: BT40 and HSK high speed mechanical spindle or electrical spindle, synchronous 4th axis 0.001 degree worktable, three axis gradient scale, CTS, U axis facing head, 40 tools to 90 tools chain type tool magazine and so on.



HM series- Horizontal machining center T type



Item	Unit	HM50TS		HM50TD		HM63TS	HM63TD
		(BT40)	(BT50)	(BT40)	(BT50)		
Worktable size	mm	500×500		2-500×500		630×630	2-630×630
Max worktable load	kg	600		500		1200	
Worktable indexing	-	1° × 360[0.001° × 360000]					
Worktable exchanging time	S	/		12		/	20
Worktable exchanging drive	-	/		hydraulic		/	servo motor
Worktable max. speed	r/min	10		10		10	
Max. part diameter / height	mm	630×700		630×700		1000×1000	
Axis travel X/Y/Z	mm	750×650×650		750×600×650		1000×850×900	
Spindle terminal to worktable	mm	150~800	50~700	150~800	50~700	200~1100	
Spindle center to worktable surface	mm	120~770		100~700		100~950	0~850
Axis rapid travel X/Y/Z	m/min	30/24/30		30/24/30		30	
Motor power	kW	11/15		11/15		18.5/22	
Max. spindle speed	rpm	8000	6000	8000	6000	4500	
Spindle torque	N.m	140/191		140/191		647/770	
Spindle taper	-	7:24taper NO.40	7:24taper NO.50	7:24taper NO.40	7:24taper NO.50	7:24taper NO.50	
Number of tools (disc type)	Pc	30(disc type)	24(disc type)	30(disc type)	24(disc type)	40(disc type)	
Tool shank	-	MAS403 BT40	MAS403 BT50	MAS403 BT40	MAS403 BT50	MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	φ80/350/8	φ110/350/20	φ80/350/8	φ110/350/20	φ125/400/25	
Max. tool size (empty neighbor)	mm	φ150	φ250	φ150	φ250	φ250	
Tool change time T-T	s	2.33	3.8	2.33	3.8	4.75	
Drilling (normalized mild steel)	mm	φ30	φ35	φ30	φ35	φ55	
Tapping (normalized mild steel)	mm	M20	M24	M20	M24	M45	
Milling (normalized mild steel)	cm ³ /min	200	250	200	250	600	
Positioning accuracy (X/Y/Z)	mm	0.010		0.010		0.010	
Repositioning accuracy X/Y/Z	mm	0.006		0.006		0.006	
Positioning accuracy (B)	"	6		6		6	
Repositioning accuracy (B)	"	2		2		2	
CNC system	-	NEWAY FANUC [SIEMENS]					
Auto chip conveyor	-	Z axis double helix + sideway chain type chip conveyor					
Machine Weight	kg	12000		13000		18000	21000

[]option

HM80TS	HM80TD	HM100TS	HM100TD	HM100TL	HM125TS	HM125TD	HM125TBS	HM125TBD
800×800	2-800×800	1000×1000	2-1000×1000	1000×1000	1250×1250	2-1250×1250	1250×1250	2-1250×1250
1600		2000		3500	4000		4000	
1° × 360[0.001° × 360000]								
/	25	/	25	/	/	90	/	90
/	servo motor	/	servo motor	/	/	hydraulic	/	hydraulic
10	10		5.5		5.5		5.5	
1200×1200	1300×1300		1800×1800		2000×2000	2000×1800	2000×2000	2000×1800
1400×1050×1050	1600×1100×1100		2100×1300×1300		2200×1500×1500		2200×1500×1500×500(w)	
250~1300	250~1350		300~1600		300~1800		300~1800	
120~1170	0~1050	120~1220	0~1100	120~1420	120~1620		120~1620	
24	24		20		20		20/20/20/5	
22/26	22/26		22/26		22/26		22/26	
4500	4500		4500		4500		3500	
770/910	770/910		1155/1365		1155/1365		1155/1365	
7:24taper NO.50	7:24taper NO.50		7:24taper NO.50		7:24taper NO.50		7:24taper NO.50	
40(chain type)	40(chain type)		60(chain type)		60(chain type)		60(chain type)	
MAS403 BT50	MAS403 BT50		MAS403 BT50		MAS403 BT50		MAS403 BT50	
φ125/400/25	φ125/400/25		φ125/600/35		φ125/600/35		φ125/600/35	
φ250	φ250		φ250		φ250		φ250	
4.75	4.75		7.5		7.5		7.5	
φ55	φ60		φ70		φ70		φ70	
M45	M48		M50		M50		M50	
600	900		1000		1000		1000	
0.010	0.010		0.015		0.015		0.015	
0.006	0.006		0.010		0.010		0.010	
6	6		6		6		6	
2	2		2		2		2	
NEWAY FANUC [SIEMENS]								
Z axis double helix + X axis double chain type chip conveyor (note: HM125TBS/TBD boring tool diameter φ110)								
20000	23000	21000	24000	34000	35000	35000	35000	38000

[]option

PM series- High speed portal machining center PM12 and PM15

- 01 Full one-piece piece cast iron bed to guarantee high rigidity, high-precision and high stability.
- 02 Top quality spindle equipped with ZF gear box realizes high torque, high-speed and low noise.
- 03 Full roof protection cover, 24 tool ATC, automatic chip conveyor, air-conditioned electrical cabinet to guarantee machining stability and performance. X/Y/Z axis equipped with heavy load roller linear ways to realize smaller friction, bigger loads, improved anti-vibration and high precision.



PM series- High speed portal machining center PM18 & PM20 & PM25 (PM2530&PM2540)

- 01 Full enclosure maintains chips and features a large cross section ram structure. The height of cross beam is larger than 1M to achieve high rigidity, high stability, and increased resistance to deflection and or deformation.
- 02 Large diameter lead screws with double nuts and preload structures couple with auxiliary support of the same ball screws. Large robust roller type linear guideways guarantee machine super high accuracy, rigidity and stability.
- 03 Spindle motor is mounted on the top position of ram, which effectively reduces the thermal deformation induced from the motor over-heating, realizing a highly stable precise result.
- 04 When equipped with a ZF gear box, whether high speed, big torque, both offer a stable transmission, high reliability without noise and a Z axis nitrogen balance cylinder achieves smooth dynamic reaction and high-speed movement with safe redundant support.



Item	Unit	PM1220HA	PM1230HA	PM1240HA	PM1520HA	PM1530HA
Worktable width	mm	1200			1500	
Worktable length	mm	2000	3000	4000	2000	3000
Table load	kg	3500	5500	7000	6000	7000
Worktable travel (X axis)	mm	2200	3200	4200	2200	3200
Carriage travel (Y axis)	mm	1500 [1700]			1900	
Ram travel (Z axis)	mm	800			800	
Spindle terminal to worktable	mm	200~1000			200~1000	
Column span	mm	1400 [1600]			1800	
Tool shank size	-	BT50			BT50	
Spindle speed	r/min	40~6000			40~6000	
Max. output torque	N.m	788/1295			788/1295	
Spindle motor power	kW	15/18.5			15/18.5	
Ram section	mm	400×320			400×320	
X/Y/Z axis rapid travel	m/min	24/24/15	15/24/15	15/24/15	15/24/15	12/24/15
Tool position	-	24 [32/40/60]			24 [32/40/60]	
Max. tool dia./length/weight	mm/mm/kg	Φ110/350/15			Φ110/350/15	
Max. tool diameter (empty neighbor)	mm	Φ200			Φ200	
X axis positioning accuracy	mm	0.012/0.008	0.017/0.012	0.022/0.016	0.012/0.008	0.017/0.012
Y axis positioning accuracy	mm	0.012/0.008			0.014/0.009	
Z axis positioning accuracy	mm	0.012/0.008			0.014/0.009	
CNC system	-	NEWAY FANUC [SIEMENS]			NEWAY FANUC [SIEMENS]	
Machine Weight	kg	19000	23000	26000	21000	25000

[]option

Item	Unit	PM1830HA	PM1840HA	PM2030HA	PM2040HA	PM2060HA	PM2080HA	PM2530HA	PM2540HA
Worktable width	mm	1800		2000			2500		
Worktable length	mm	3000	4000	3000	4000	6000	8000	3000	4000
Table load	kg	10000	12000	16000	20000	26000	28000	18000	22000
Worktable travel (X axis)	mm	3200	4200	3200	4200	6200	8500	3200	4200
Carriage travel (Y axis)	mm	2700		3200					
Ram travel (Z axis)	mm	800 [1000]	1000 [800] [1250]			1000 [1250]			
Spindle terminal to worktable	mm	200~1000 [200~1200]		200~1200 [200~1000] [250~1500]			200~1200 [250~1500]		
Column span	mm	2300		2800 [3200]					
Tool shank size	-	BT50		BT50					
Spindle speed	r/min	40~6000		40~6000 [Z axis1250: 40~4500]					
Max. output torque	N.m	525/647 [770/910]		770/910					
Spindle motor power	kW	15/18.5 [22/26]		22/26					
Ram section	mm	400×400		400×400 [Z axis1250: 420×420]					
X/Y/Z axis rapid travel	m/min	20/18/15	15/18/15	15/15/12	15/15/12	12/15/12	10/15/10	12/12/12	12/12/12
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 accuracy	mm	0.020/0.012	0.025/0.016	0.020/0.012	0.025/0.016	0.035/0.024	0.045/0.032	0.020/0.012	0.025/0.016
Y axis positioning accuracy	mm	0.016/0.010		0.020/0.012					
Z axis positioning accuracy	mm	0.016/0.010		0.016/0.010 [Z axis1250: 0.020/0.012]					
CNC system	-	NEWAY FANUC [SIEMENS]							
Machine Weight	kg	30000	35000	41000	45000	55000	65000	45000	50000

[]option

PM series- High speed portal machining center PM25 and PM30

- 01 X axis with three guideways, big span (1800mm), super high anti-subversion movement achieve excellent anti-deflection properties for Extra Heavy Duty cutting and Fine Finish Machining.
- 02 X axis with three guideways, big span (1800mm), super high anti-subversion movement achieve excellent anti-deflection properties for Extra Heavy Duty cutting and Fine Finish Machining.
- 03 Cross beam is designed with step configuration, distance from spindle and Y axis guide way surface is closer, effective anti-forward; the top guide way is equipped on the top position of cross beam with increased anti bending resistance.
- 04 Optional BT40 and HSK type high speed mechanical spindle and electrical spindle (L and V series), Big large torque spindle gear box structure mills that need high speed machining and heavy duty alike in the same machine (Z and S series), 5 axis spindle (U series), Three axes gradient scales, CTS or various other auto and manual milling heads are available.
- 05 Automatic tool changers from 24 tools to 60 tools with a chain type tool magazine. Design exhibits high quality seal full protection that extends machine tool life.

PM series- High speed portal machining center PM25 and PM30



Item	Unit	PM2560HA	PM2580HA	PM25100HA
Worktable width	mm		2500	
Worktable length	mm	6000	8000	10000
Table load	kg	30000	35000	40000
Worktable travel (X axis)	mm	6200	8500	10500
Carriage travel (Y axis)	mm	3700		
Ram travel (Z axis)	mm	1000 [1250]		
Spindle terminal to worktable	mm	200~1200 [250~1500]		140~1140 [190~1440]
Column span	mm	3300[3800]		
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	m/min	12/12/12	10/12/12	8/12/12
Tool position	-	[24/32/40/60]		
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15		
Max. tool diameter (empty neighbor)	mm	Φ200		
X axis positioning accuracy	mm	0.035/0.024	0.045/0.032	0.055/0.040
Y axis positioning accuracy	mm	0.025/0.016		
Z axis positioning accuracy	mm	0.016/0.010 [Z axis 1250: 0.020/0.012]		
CNC system	-	NEWAY FANUC [SIEMENS]		
Machine Weight	kg	65000	85000	95000

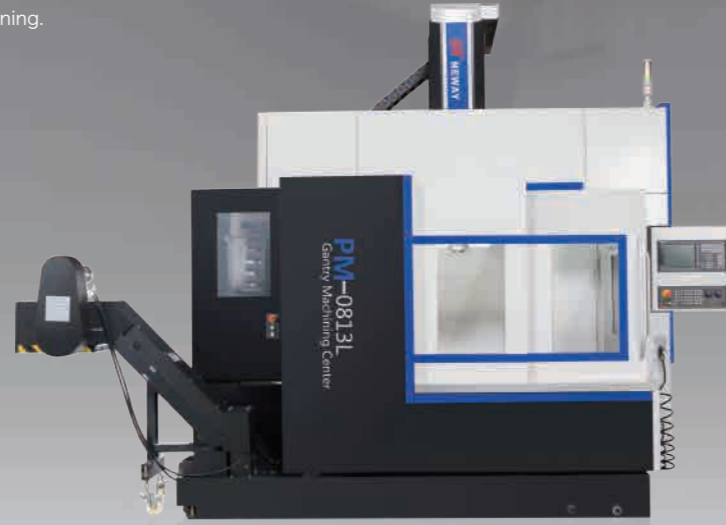
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Item	Unit	PM3040HA	PM3060HA	PM3080HA	PM30100HA
Worktable width	mm	3000			
Worktable length	mm	4000	6000	8000	10000
Table load	kg	25000	35000	40000	45000
Worktable travel (X axis)	mm	4200	6200	8500	10500
Carriage travel (Y axis)	mm	4200[4600]			
Ram travel (Z axis)	mm	1000 [1250]			
Spindle terminal to worktable	mm	200~1200 [250~1500]			140~1140 [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	m/min	12/12/12	12/12/12	10/12/12	8/12/12
Tool position	-	[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ200			
X axis positioning accuracy	mm	0.025/0.016	0.035/0.024	0.045/0.032	0.055/0.040
Y axis positioning accuracy	mm	0.030/0.020			
Z axis positioning accuracy	mm	0.016/0.010 [Z axis 1250: 0.020/0.012]			
CNC system	-	NEWAY FANUC [SIEMENS]			
Machine Weight	kg	55000	70000	90000	100000

[]option

PM series- High speed direct drive spindle portal machining center

- 01 The integrated bed and integral beam column ensure the reliability and stability of the moving parts.
- 02 The Y-axis guideway ladder design keeps the minimum distance between lower guideway to spindle center, combined with the heavy-duty roller slide, effectively reducing the turning moment during machining.
- 03 Features: high speed, high precision, high flexibility, environmental protection, high processing efficiency.



Item	Unit	PM0813L	PM1320L	PM1325L	PM1330L	PM1520L	PM1525L	PM1530L
Worktable width	mm	1300			1500			
Worktable length	mm	900	2100	2600	3100	2100	2600	3100
Table load	kg	1500	3500	6000	8000	6000	8000	10000
Worktable travel (X axis)	mm	800	2200	2700	3200	2200	2700	3200
Carriage travel (Y axis)	mm	1300			1500			
Ram travel (Z axis)	mm	700			700			
Spindle terminal to worktable	mm	150-850			150-850			
Column span	mm	1400			1600			
Tool shank size	-	BT40			BT40			
Spindle speed	-	15000			15000			
Max. output torque	r/min	34/46			34/46			
Spindle motor power	N.m	11.7/15.8			11.7/15.8			
Ram section	kW	350×350			350×350			
X/Y/Z axis rapid trave	m/min	24/24/24	18/24/24			18/24/24		
Tool position	-	[24/32]			[24/32]			
Max. tool diam./length/weight	mm/mm/kg	φ80/250/8			φ80/250/8			
X axis (positioning/repeatability)	mm	0.012/0.008	0.016/0.010	0.018/0.010	0.020/0.012	0.016/0.010	0.018/0.010	0.020/0.012
Y axis (positioning/repeatability)	mm	0.016/0.010			0.016/0.010			
Z axis (positioning/repeatability)	mm	0.016/0.010			0.016/0.010			
CNC system	kg	SIEMENS 828D [NEWAY FANUC]						
Machine weight	-	12000	18000	20000	22000	20000	22000	25000

[]option

PM series- High speed direct drive spindle portal machining center

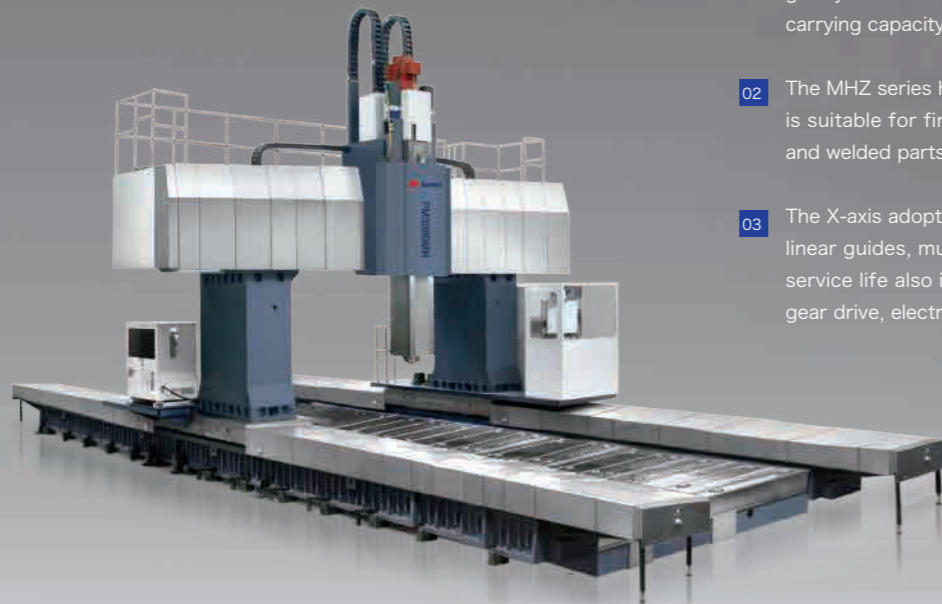
- 04 The castings of machine are high-quality gray iron materials, the motor bases and bearing seats are high-quality ductile iron. Good rigidity, strong shock absorption, suitable for high speed and high precision machining.
- 05 High speed direct connection spindle, switching between windings, taking into account high speed and high torque.



Item	Unit	PM1830L	PM1840L	PM2030L	PM2040L	PM2060L
Worktable width	mm	1800		2000		
Worktable length	mm	3000	4000	3000	4000	6000
Table load	kg	10000	12000	16000	20000	26000
Worktable travel (X axis)	mm	3200	4200	3200	4200	6200
Carriage travel (Y axis)	mm	2700		3200[2700]		
Ram travel (Z axis)	mm	800[1000]		1000		
Spindle terminal to worktable	mm	130~930 [130~1130]		130~1130		
Column span	mm	2300		2800[2300]		
Tool shank size	-	BT50 [BT40]		BT50 [BT40]		
Spindle speed	r/min	100~12000 [BT40:15000]		100~10000 [BT40:15000]		
Max. output torque	N.m	95/118[140/165]		140/165 [BT40:95/118]		
Spindle motor power	kW	15/18.5[22/26]		22/26 [BT40:15/18.5]		
Ram section	mm	450×400		450×400		
X/Y/Z axis rapid trave	m/min	20/18/20	15/18/20	15/15/15	15/15/15	12/15/15
Tool position	-	[24/32/40/60]		[24/32/40/60]		
Max. tool diam./length/weight	mm/mm/kg	φ105/350/15		φ105/350/15		
Max. tool diameter (empty neighbor)	mm	φ200		φ200		
X axis (positioning/repeatability)	mm	0.020/0.012	0.025/0.016	0.020/0.012	0.025/0.016	0.035/0.024
Y axis (positioning/repeatability)	mm	0.016/0.010		0.020/0.012		
Z axis (positioning/repeatability)	mm	0.016/0.010		0.016/0.010		
CNC system	-	NEWAY FANUC [SIEMENS]				
Machine weight	kg	25000	28000	35000	40000	50000

[]option

PM series- Movable column gantry machining center



- 01 MHZ series 420×420 square ram (gear transmission), gantry frame movement, fixed worktable with super load carrying capacity.
- 02 The MHZ series has a maximum torque of 1320Nm and is suitable for finishing and roughing of large castings and welded parts.
- 03 The X-axis adopts imported heavy-duty 55 series roller linear guides, multi-slider support, large load and long service life also imported high-precision rack, double gear drive, electrical backlash, guarantee accuracy

Item	Unit	PM3080MHC	PM30100MHC	PM30120MHC	PM30140MHC	PM30160MHC	PM3080MH	PM30100MH	PM30120MH	
Worktable width	mm	3000					3000			
Worktable length	mm	8000	10000	12000	14000	16000	8000	10000	12000	
Table load	kg/m ²	15000					15000			
Worktable travel (X axis)	mm	8500	10500	12500	14500	16500	8500+500 (change head)	10500+500 (change head)	12500+500 (change head)	
Carriage travel (Y axis)	mm	4600					4500 (including change head)			
Ram travel (Z axis)	mm	1250[1500]					1500			
Spindle terminal to worktable	mm	250-1500[300-1800]					500~2000			
Column span	mm	4200					4200			
Tool shank size	-	BT50					BT50			
Spindle speed	r/min	40-2500					20~2000			
Max. output torque	N.m	1993/2458					2600/4125			
Spindle motor power	kW	30/37					51/81			
Ram section	mm	450×450					500×500			
X/Y/Z axis rapid travel	m/min	10/10/10					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 accuracy	mm	0.050/0.030	0.055/0.034	0.060/0.038	0.065/0.042	0.070/0.046	0.050/0.030	0.055/0.034	0.055/0.038	
Y axis positioning accuracy	mm	0.030/0.020					0.035/0.025			
Z axis positioning accuracy	mm	0.020/0.012[0.025/0.015]					0.025/0.015			
CNC system	-	NEWAY FAUNC [SIEMENS 828D]					SIEMENS [FANUC]			
Machine weight	kg	90000	100000	110000	120000	130000	120000	140000	155000	

[]option

PM series- Movable column gantry machining center



- 04 The beam has a large cross section and the ribs and walls are thick enough. Scientific reinforcement and compensation processing to guarantee Y-axis high linear accuracy.
- 05 Imported heavy duty spindle unit; Germany ZF gearbox; German Mayr coupling; automatic constant temperature oil cooling system let the spindle has small temperature rise and thermal deformation.

Item	Unit	PM3080MHZ	PM30100MHZ	PM30120MHZ	PM30140MHZ	PM30160MHZ
Worktable width	mm	3000				
Worktable length	mm	8000	10000	12000	14000	16000
Table load	Kg/m ²	15000				
T grooves	-	24	30	36	42	48
Worktable travel (X axis)	mm	8500	10500	12500	14500	16500
Carriage travel (Y axis)	mm	4200				
Ram travel (Z axis)	mm	1250				
Spindle terminal to worktable	mm	250-1500				
Column span	mm	4200				
Tool shank size	-	BT50				
Rivet specifications	-	P50T-I (MAS403)				
Spindle speed	r/min	40-3500				
Max. output torque	N.m	1120/1320				
Spindle motor power	kw	22/26				
Cutting feed speed range	mm/min	6/6/6				
X/Y/Z axis rapid travel	m/min	10/10/10				
Tool position	-	24/32/40/60				
Max. tool dia./length/weight	mm/mm/kg	Φ125/350/20				
Max. tool diameter (empty neighbor)	mm	Φ225				
X axis positioning accuracy	mm	0.05/0.030	0.055/0.034	0.060/0.038	0.065/0.042	0.070/0.046
Y axis positioning accuracy	mm	0.03/0.020				
Z axis positioning accuracy	mm	0.02/0.012				
CNC system	-	SIEMENS 828D [NEWAY FAUNC]				
Machine weight	kg	90000	100000	110000	120000	130000

[]option

PM series- Bridge type 5 axis Portal Machining Center

- 01 Full Bridge type structure, both the column and worktable are fixed. The gantry frame moves with high speed, high rigidity, high precision and high flexibility and reach with full contouring capability.
- 02 Heavy Duty 5 axis milling head for complex part machining. X/Y/Z axes have heavy load roller linear way, providing low friction, large load capacity with minimized vibration in high speed, and no stick slip in low speed machining of heavy parts. This also provides high positioning accuracy, with a rigid combination arrangement on the beam guide way.
- 03 Double servo driven motors on the X axis; ball screw driven Y and Z axis through the gear box; double nitrogen balance cylinder on Z axis together provide a very rigid predictable machining platform.
- 04 SIEMENS840Dsl CNC controller guarantee machine control stability and various machining requirements from customers.

PM series- Bridge type 5 axis Portal Machining center



Item	Unit	PMB2040U	PMB2060U
Worktable width	mm	2000	
Worktable length	mm	4000	6000
Table load	ton/m ²	5000	
Worktable travel (X axis)	mm	4000	6000
Carriage travel (Y axis)	mm	2300	
Ram travel (Z axis)	mm	1000[1250]	
Spindle terminal to worktable	mm	300-1300[400-1650]	
Column span	mm	3300	
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	m/min	25/25/25	
Tool position	-	[12/24/32]	
Max. tool dia./length/weight	mm/mm/kg	φ80/350/8	
Max. tool diameter (empty neighbor)	mm	φ150	
X axis positioning /repositioning accuracy	mm	0.020/0.012	0.030/0.020
Y axis positioning /repositioning accuracy	mm	0.016/0.010	
Z axis positioning /repositioning accuracy	mm	0.012/0.008	
CNC system	-	SIEMENS[HEIDENHAIN]	
Machine Weight	kg	60000	70000

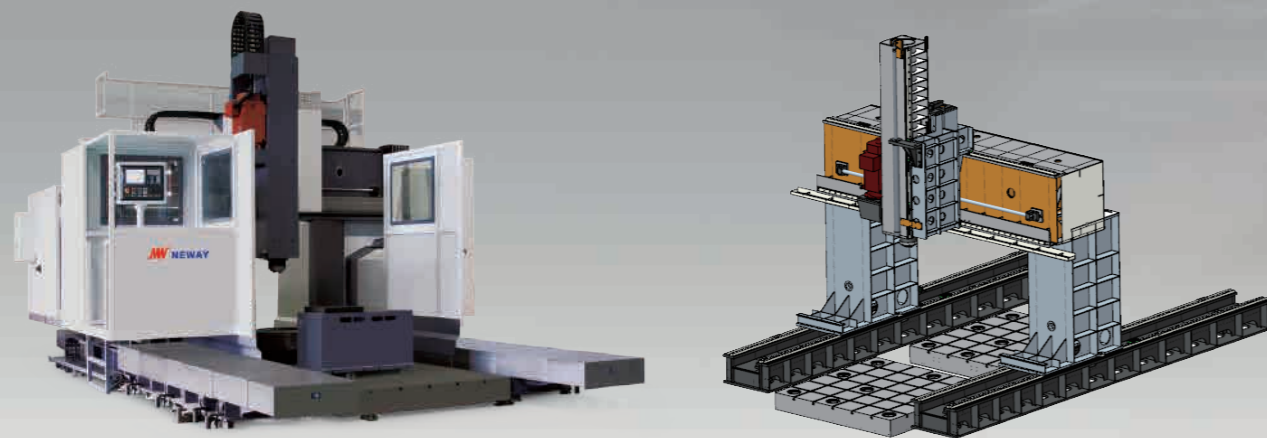
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Item	Unit	PMB2540U	PMB2560U	PMB3060U
Worktable width	mm	2500		
Worktable length	mm	4000	6000	6000
Table load	ton/m ²	5000		
Worktable travel (X axis)	mm	4000	6000	6000
Carriage travel (Y axis)	mm	2800		
Ram travel (Z axis)	mm	1000[1250]		
Spindle terminal to worktable	mm	300-1300[400-1650]		
Column span	mm	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	m/min	25/25/25		
Tool position	-	[12/24/32]		
Max. tool dia./length/weight	mm/mm/kg	φ80/350/8		
Max. tool diameter (empty neighbor)	mm	φ150		
X axis positioning /repositioning accuracy	mm	0.020/0.012	0.030/0.020	0.030/0.020
Y axis positioning /repositioning accuracy	mm	0.020/0.012		
Z axis positioning /repositioning accuracy	mm	0.012/0.008		
CNC system	-	SIEMENS[HEIDENHAIN]		
Machine weight	kg	70000	90000	100000

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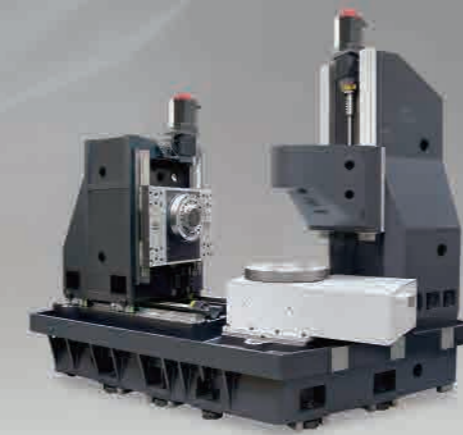
PMD series- CNC gantry drilling machining center

- 01 Gantry Frame drill moves and worktable fixed structure, FEA design and reasonable reinforce ribs to realize high torque and high stability. Square ram structure, high quality spindle with high torque & low noise, 1:2 gear box and spindle oil chiller for low speed constant torque, high speed constant power and high precision and long machine tool life.
- 02 Double worktable and double working table with separating wall board in the middle, dividing the two areas (one for machining, another for loading parts) to improve throughput and machine efficiency.
- 03 Through synchronous belt, the servo motor drives the lead screw nut, and the lead screw doesn't move. This affords lower down motor load with improved machine dynamic motion response.



SMG series- CNC spherical grinding machine

- Conjugate curve principle
- Ball vertical installation
- Modularized design, ball diameter 75-2400 spheroidal grinding
- Overall static and modal analysis ensures static rigidity and dynamic performance
- Easy operation, easy access to work piece and spindle



Patent:
a digital controlled ball grinding machine
Patent number: 200920047912.9

Patent:
a compact and rigid machine bed structure
Patent number: 2011 2 0517142.7



Item	Unit	PM1540D	PM2050D	PM3250D
Worktable size	mm	1500x1500(two)	2150x2150(two)	3200x3200, 3200x1400
Table load	kg/m ²	10000	10000	10000
Worktable travel (X axis)	mm	3700	5000	5000
Carriage travel (Y axis)	mm	1600	3000	3200
Ram travel (Z axis)	mm	1000	1250	1250
Spindle terminal to worktable	mm	500~1500	850~2100	250~1500
Column span	mm	1900	2660	4050
Tool shank size	-	BT50	BT50	BT50
Spindle speed	r/min	20~2500	20~2500	20~2500
Max. output torque	N.m	280/331	280/331	280/331
Spindle motor power	kW	22/26	22/26	22/26
Ram section	mm	480X480	480X480	480X480
X/Y/Z axis rapid travel	m/min	12	8	8
Tool position	-	12	12	12
Max. tool dia./length/weight	mm/mm/kg	φ 200/400/25	φ 200/400/25	φ 200/400/25
Max. tool diameter (empty neighbor)	mm	250	250	250
Positioning accuracy (X/Y/Z)	mm	0.02/1000	0.02/1000	0.08/0.06/0.03
Repositioning accuracy (X/Y/Z)	mm	0.01/1000	0.01/1000	0.05/0.04/0.015
CNC system	-	NEWAY FANUC [SIEMENS]		
Machine Weight	kg	20000	25000	28000

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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"
Motor power	kW	15	15/18.5	28	80
Rated torque	N.m	96	98	267	1910
Max spindle speed	rpm	6000	2700	1500	500
Motor power	kW	3.7	5.5	7.5	55
Rated torque	N.m	24	36	49	709.8
Max spindle speed	rpm	60	30	15	10
Y/Z	mm	200/500	200/500	400/900	800/2000
Y/Z	m/min	18/20	18/20	16/16	6/4
Positioning (Y/Z)	mm	0.008/0.008	0.008/0.008	0.011/0.016	0.020/0.016
Repositioning (Y/Z)	mm	0.004/0.004	0.004/0.004	0.006/0.009	0.012/0.009
Control system	-	SIEMENS [NEWAY FANUC]		SIEMENS	
Machine weight	kg	6000	7500	22000	85000

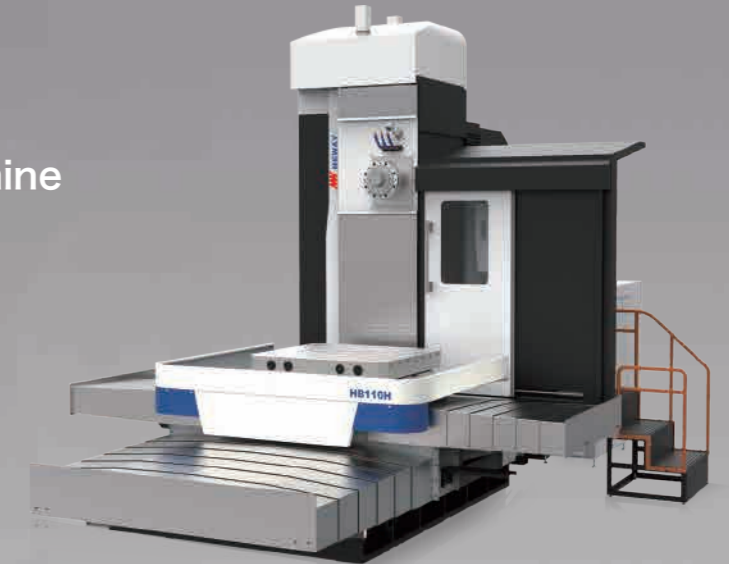
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PB Series- Boring and milling machine

- 01 Double nested form spindle, hollow milling axis and hollow boring axis. Optimized supporter span provides high accuracy and heavy duty rigidity to realize the full spindle cutting loads .
- 02 X/Y/Z axes are a complex guide way of linear roller guide way and box way; guide way surface with composite eliminates sticking to realize heavier cuts with greater precision, smaller frictional coefficients and excellent vibrationabsorption and harmonic minimization.
- 03 Nitrogen balance cylinder moves the spindle box up and down smoothly and safely and accurately.
- 04 Worktable rotary movements on the guide ways realize lower friction, good vibration absorption and high-speed movement stability due to composite lubricity. Rotary axis has high rigidity and high precision double row roller bearing sets and thrust bearings (unloading) improve worktable rigidity and torque.
- 05 X/Y/Z/B axis are equipped with high resolution gradient scales. PB full loop closure machines provide high precision cutting with spindle orientation function it can achieve screw turning.



HB Series- Boring and milling machine



Item	Unit	PB110H	PB130H
Worktable size	mm	1400×1600	1600×1800 [2000×2000] [2000×2500]
Max worktable load	kg	8000	15000 [20000]
T slot width	mm	28	28
Min table indexing	-	0.001°	0.001°
Max worktable speed	r/min	2	2
Worktable travel X	mm	2500	3000 [4000]
Spindle box travel Y	mm	2000	2000 [2500]
Column travel Z	mm	1500	1600
Spindle axial travel W	mm	600	800
Workable travel B	°	360	360
Spindle center line to worktable	mm	0-2000	0-2000
Spindle terminal to center line of worktable	mm	100-2200	100-2400
Rapid 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	Φ110	Φ130
Milling shaft end dia.	mm	Φ221.44	Φ221.44
Spindle taper	-	BT50	BT50
Pull stud size	-	P50T-1	P50T-1
Motor power	kW	18.5/22	22/30
Spindle speed	rpm	10-2500	10-2500
Max milling shaft torque	N.m	2150/2590	/
Max boring shaft tensile	N	15000	25000
Min. setting unit	mm	0.001	0.001
Positioning accuracy X/Y/Z	mm	0.02	0.02
Positioning accuracy W	mm	0.025	0.025
Positioning accuracy B	-	15"	15"
Repositioning accuracy X/Y/Z	mm	0.015	0.015
Repositioning accuracy W	mm	0.02	0.02
Repositioning accuracy B	-	7"	7"
CNC system	-	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]
CNC coordinate axis number	-	5 axis four linkage	5 axis four linkage
Auto chip conveyor	-	Chain plate	Chain plate
Tools (option)	-	[40(chain)]	[40(chain)]
Tool size	-	MAS403 BT50	MAS403 BT50
Max tool dia/length/weight	mm/mm/kg	Φ125/400/25	Φ125/400/25
Max tool diameter (empty neighbor cell)	mm	Φ250	Φ250
Machine power capacity	kVA	80	80
Air source/pressure	-	500L/min 6-8bar	500L/min 6-8bar
Machine weight	kg	32000	40000

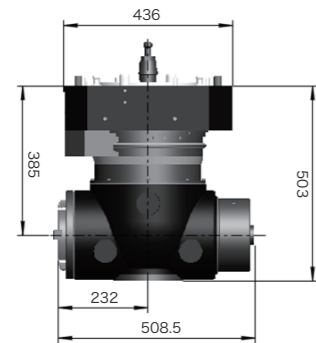
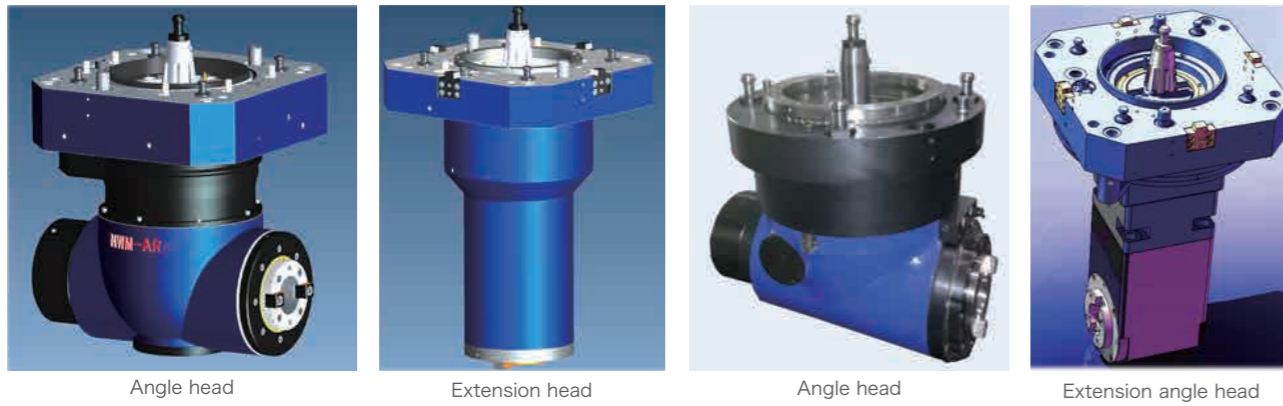
Item	Unit	HB110H	HB110U
Worktable size	mm	1250×1400	1250×1400
Max. worktable load	kg	5000	5000
T slot width	mm	28	28
Min. table indexing	°	0.001	0.001
Max. worktable speed	rpm	2	2
Worktable travel X	mm	1800	1800
Spindle box travel Y	mm	1600	1600
Column travel Z	mm	1400	1400
Spindle axial travel W	mm	600	600
Facing head slider moves radially U	mm	/	200 (±100)
Workable travel B	°	360(any angle)	360(any angle)
Spindle center line to worktable	mm	0~1600	0~1600
Spindle terminal to center line of worktable	mm	-25~1975	-130~1870
Rapid speed X/Y/Z/W/U	m/min	5/5/5/3	5/5/5/3/2.5
Max. cutting feed speed X/Y/Z/W/U	m/min	3/3/3/2	3/3/3/2/1
Boring shaft dia.	mm	Φ110	Φ110
Milling shaft end dia.	mm	Φ221.44	/
Spindle taper	-	BT50	BT50
Pull stud size	-	MAS403 P50T-1	MAS403 P50T-1
Motor power	kW	15/18.5	15/18.5
Spindle speed	rpm	5~3000	5~1500
Max. milling shaft torque	N.m	3000/3651 (30min)	1480/1980(30min)
Max. boring shaft tensile	N	15000	15000
Facing head dia.	mm	/	Φ670
Facing head speed	rpm	/	7-165
Max. Facing head torque	N.m	/	2522/3380(30min)
Max. cutting feed travel B	rpm	1	1
Min. setting unit	mm	0.001	0.001
Positioning accuracy X/Y/Z/W/U	mm	0.02/0.02/0.02/0.02	0.02/0.02/0.02/0.02/0.035
Repositioning accuracy X/Y/Z/W/U	mm	0.015/0.015/0.015/0.015	0.015/0.015/0.015/0.015/0.02
Positioning accuracy B	°	15	15
Repositioning accuracy B	°	7	7
CNC system	-	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]
CNC coordinate axis number	-	5 axis four linkage	6 axis four linkage
Auto chip conveyor(option)	-	[Chain-plate chip remover (two)+ external cold water tank	
Tools (option)	-	[40(chain)]	[40(chain)]
Tool size	-	MAS403 BT50	MAS403 BT50
Max. tool dia/length/weight	mm/mm/kg	Φ125/400/25	Φ125/400/25
Max. tool diameter (empty neighbor cell)	mm	Φ250	Φ250
Machine power capacity	kVA	60	60
Air source/pressure	-	500L/min 6-8bar	500L/min 6-8bar
Machine weight	kg	21000	21300

Neway Offers Special Need Optional Milling Heads

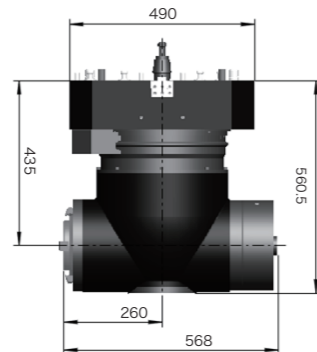
Neway milling head options increase the machining scope and give full play to the overall capabilities, capacities and effectiveness. Neway portal machining centers can be equipped with various milling heads to achieve Full Five Face machining, Deep Drilling, Extended Reach for machining in small spaces, and even machining on Incline Face and other Special Positions.

Neway milling heads apply international advanced transmission technology, good sealing technology, locating and clamping technology; and utilize advanced production metrics and strict Quality Control measurement and build calibration to insure World Class machining results .

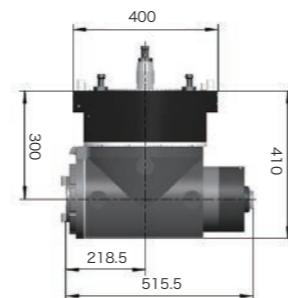
Compact and integrated structure, high automation, full functions, high reliability, which can be used for various portal machining center.



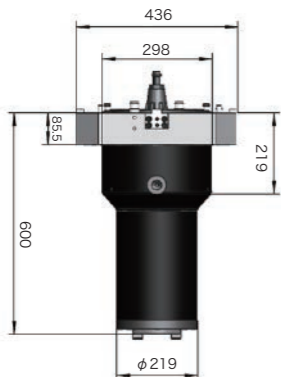
Angle head
NWM-AR5-75
Dimension



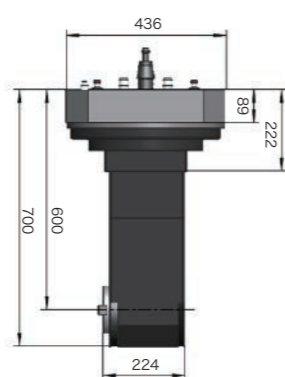
Angle head
NWM-AR5-150
Dimension



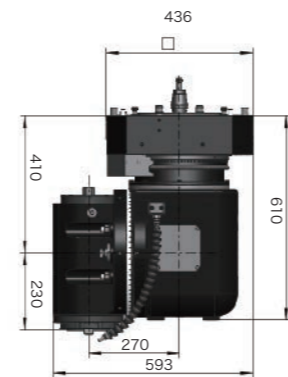
Angle head
NWM-AR5-50
Dimension



Extension head
NWM-AE-75
Dimension



Extension angle head
NWM-AER5-75
Dimension



Semi-auto universal head
NWM-AM1-4-50
Dimension

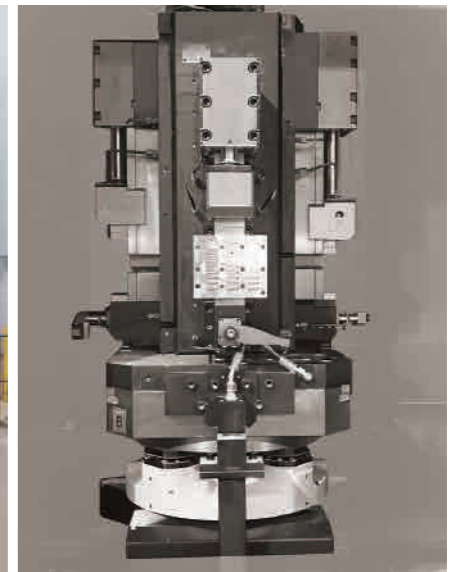
Flexible Manufacturing Solutions and CNC Automatic Production Line

Neway designs and manufactures various automatic production lines (FMS) and flexible manufacturing systems designed to meet customers specific needs. From selecting the most appropriate model to determining how to properly process parts. Neway can select and recommend the proper tools; design fixtures; decides loading and unloading plan; and finalize the overall layout of the automatic production line.

Cylinder Processing Automatic Production Line

Practical example: best choice HM50TD+VM1160H

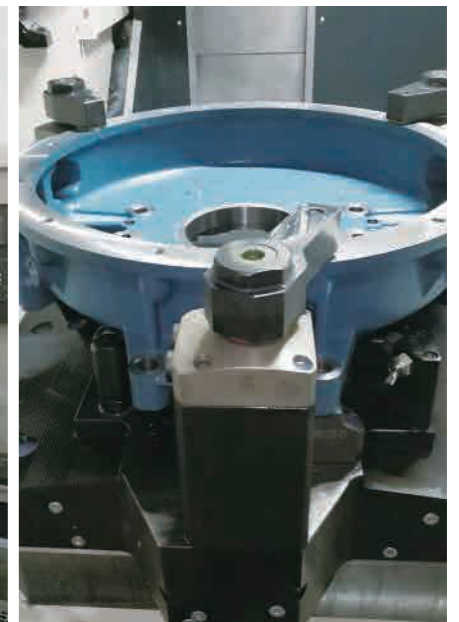
Workpiece: Oil cylinder
Material: Aluminum



Flywheel Shell Processing Automatic Production Line

Practical example: best choice VM1204SA+HM50TS, VM1506H+HM63TS

Workpiece: flywheel
Material: HT250



Small Parts Automatic Production Line

Practical example: best choice NL251H

Workpiece: check valve
Material: stainless steel
Tolerance: 2mm each side



Automatic Production Line Combination

Practical example: best choice VM950SL+NL201HG+NL201H

Workpiece: input shaft
Material: 45# steel



Box Bonnet Automatic Production Line

Practical example: best choice VM950S+VM1150S

Workpiece: automobile engine
Material: HT250



Circle Parts Production Line Combination

Practical example: best choice NL201HA

Workpiece: shell
Material: magnesium alloy



- CNC Lathe
- Vertical Machine Center
- Horizontal Machine Center
- Gantry Machine Center
- Special Purpose Machine
- CNC Boring and Milling Machine
- Automatic Production Line
- Options

Options for CNC turning center



- 01 Parts catcher
- 02 Bar feeder
- 03 Steay rest
- 04 Toll measure system
- 05 Gear box
- 06 Oil-water separator
- 07 Bigger spindle bore
- 08 Oil mist collector
- 09 Servo tail stock
- 10 High pressure coolant
- 11 Grating scale
- 12 Disc spring lock tail stock
- 13 C and Y axis for milling
- 14 Double saddle turning and boring
- 15 Double saddle with living turret
- 16 ATC for CNC vertical lathe
- 17-20 Special tool post for CNC vertical lathe

Options for CNC milling center



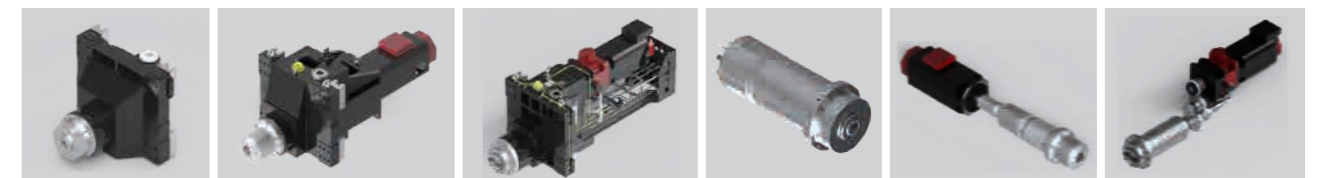
- 01 HEIDENHAIN grating scale
- 02 Facing head
- 03 Water gun
- 04 Coolant through spindle
- 05 Flush Coolant c
- 06 Threaded hole worktable
- 07 Measuring and inspecting
- 08 Tool measure
- 09 Multistage worktable
- 10 60/90/120 tool magazine
- 11 Box guideway
- 12 Oil-water separator
- 13 Electrical spindle for PM
- 14 Air coolant
- 15 5 axis milling head for PM



Rotary table Accessory milling head Tool Measure Gear box Angle head



Spindle oil cooler 4th axis 5th axis High pressure CTS



Special spindle for HM

CNC Lathe
Vertical Machine Center
Horizontal Machine Center
Gantry Machine Center
Special Purpose Machine
CNC Boring and Milling Machine
Automatic Production Line
Options