

CNC

EQUIPMENT CATALOGUE

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

GROUP PROFILE



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

- 1 CNC EQUIPMENT
- 2 VALVE PLANT
- 3 INDUSTRIAL MATERIALS
- 4 OIL EQUIPMENT
- 5 NEWAY COMMERCIAL CENTER



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

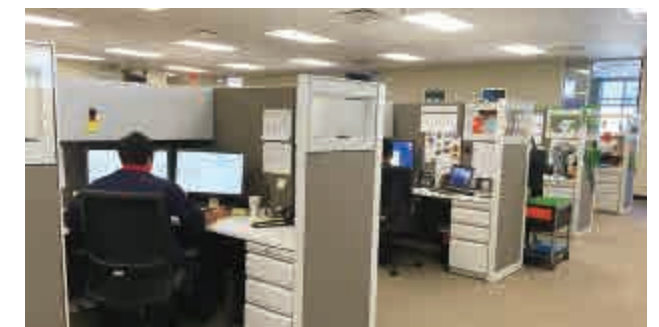


Neway Machine Tools Research Institute

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.

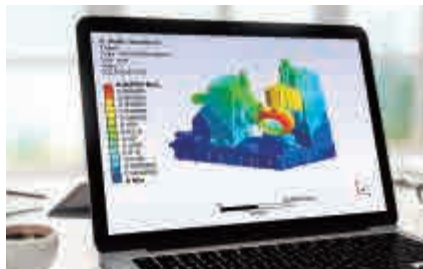
International Cooperative Support System ICSS

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.

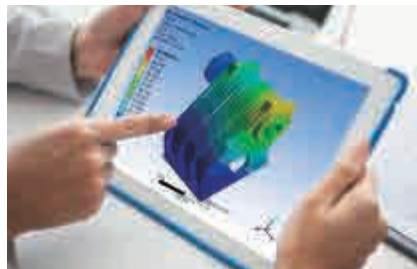


Research and Development Design Tools

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.



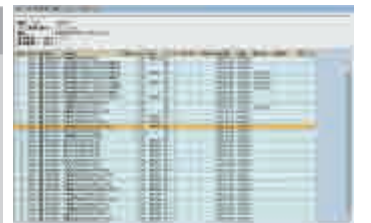
PLM system

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

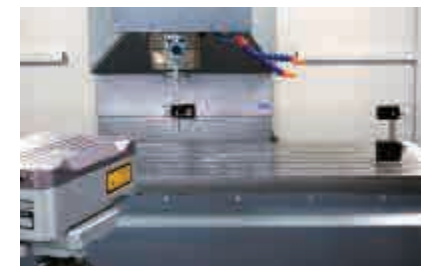
Neway continuously pursues advanced R&D technology and strict quality control, utilizing an English Renishaw laser interferometer, German Schenk dynamic spindle balancing instrument, German Mahr roundness measuring equipment, profile measuring device and roughness measuring equipment. We use Swedish 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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CNC LATHE

VERTICAL MACHINE CENTER

HORIZONTAL MACHINE CENTER

GANTRY/PORTAL MILLING CENTER

SPECIAL PURPOSE MACHINE

CNC BORING AND MILLING MACHINE

AUTOMATIC PRODUCTION LINE

OPTIONS

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** Neway 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	NL161H/L	NL201HA/L	NL251HA/L	NL253HA	NL322HA	NL324HA/L	NL402HA	NL404HA	NL635L
Max swing on bed	mm	Φ500	Φ450	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650	Φ650
Max swing	mm	Φ300	Φ300	Φ370	Φ370	Φ400	Φ400	Φ480	Φ480	Φ450
Max cutting dia	mm	Φ210	Φ220	Φ360	Φ360	Φ430	Φ430	Φ510	Φ510	Φ630
Max cutting length	mm	320	420/355	410/345	810	565	1000	565	1000	1500
Travel X/Z	mm	125/350	135/430	240/430	240/830	240/600	240/1100	280/600	280/1100	350/1600
Rapid	m/min	30/30	24/30	24/30	24/30	24/30	24/30	24/30	24/30	16/18
Motor power	kW	5.5/7.5	7.5/11	7.5/11	7.5/11	11/15	11/15	11/15	11/15	15/18.5
Spindle max	r/min	6000	6000	5000	5000	4000	4000	4000	4000	2000
Spindle nose type	ISO	A2-5	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-8
Spindle bore dia	mm	Φ56	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65	Φ65	Φ87
Hydro chuck	inch	6	6	8	8	8	8	10	10	12
No. of tools		8	8	8	8	8	8	8	8	8
Circular tool shank	mm	20 × 20	25 × 25	25 × 25	25 × 25	25 × 25	25 × 25	25 × 25	25 × 25	32 × 25
Max boring tool shank	mm	Φ32	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ50
Quill dia	mm	~/Servo tailstock	~/Servo tailstock	~/Servo tailstock	Φ100	Φ100	Φ100/Servo tailstock	Φ100	Φ100	Φ130
Quill travel	mm	~/tailstock trip 300	~/tailstock trip 400	~/tailstock trip 400	100	100	100/tailstock trip 1000	100	100	100
Bore taper	Mose	~/Live center 4#	~/Live center 4#	~/Live center 5#	5#	5#	5#	5#	5#	5#
Positioning accuracy (X/Z)	mm	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	0.005/0.008
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]	rear way
Net weight	kg	3000	3900/3600	4000/3700	4500	4800	5500	5000	5700	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** Neway one-piece whole body rigid spindle box offers low noise, high precision and long using life.

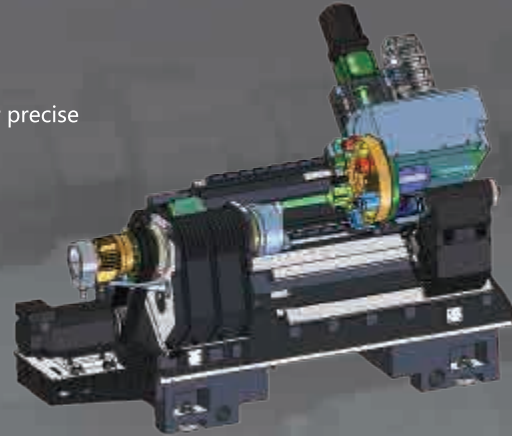


Item	Unit	NL502SC	NL504SC	NL634SC	NL634SCZ	NL635SC	NL635SCZ	NL636SC	NL636SCZ
Max swing on bed	mm	Φ600	Φ600	Φ650	Φ650	Φ650	Φ650	Φ650	Φ650
Max swing	mm	Φ450	Φ450	Φ410	Φ410	Φ410	Φ410	Φ450	Φ450
Max cutting dia	mm	Φ500	Φ500	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630
Max cutting length	mm	500	1000	1000	1000	1500	1500	2000	2000
Travel X/Z	mm	295/600	295/1100	330/1100	330/1100	330/1600	330/1600	350/2100	350/2100
Rapid	m/min	12/16	12/16	8/12	8/12	8/12	8/12	8/12	8/12
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
Spindle max	r/min	3000	3000	2000	1000	2000	1000	2000	1000
Spindle nose type	ISO	A2-6	A2-6	A2-8	A2-11	A2-8	A2-11	A2-8	A2-11
Spindle bore dia	mm	Φ65	Φ65	Φ87	Φ106	Φ87	Φ106	Φ102	Φ106
Hydro chuck	inch	10	10	12	15	12	15	12	15
No. of tools		8	8	8	8	8	8	8	8
Circular tool shank	mm	25 × 25	25 × 25	32 × 25	32 × 25	32 × 25	32 × 25	32 × 25	32 × 25
Max boring tool shank	mm	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50
Quill dia	mm	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130
Quill travel	mm	100	100	100	100	100	100	100	100
Bore taper	Mose	5#	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
Net weight	kg	4300	4800	7500	7600	8000	8100	10000	10100

[] 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.



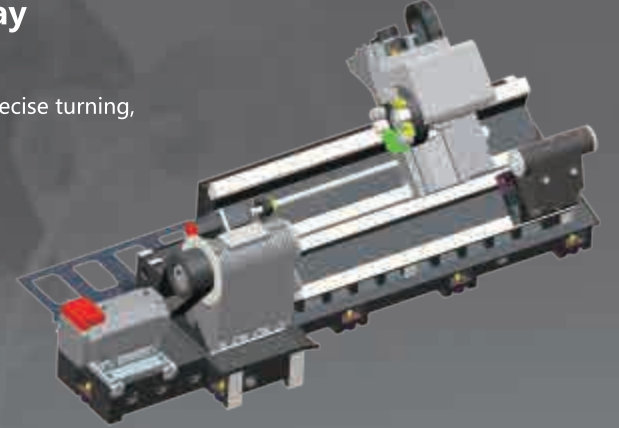
- 03 X/Z axis lead screw are preload structure, which can reduce the influence on the precision from the thermal growth. X/Z axis linear way with good dynamic characteristics, stable machining precision, high travel speed and high machining efficiency.

Item	Unit	NL161T	NL251T	NL253T	NL322T	NL324T	NL402T	NL404T
Max swing on bed	mm	Φ500	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650
Max swing	mm	Φ300	Φ370	Φ370	Φ400	Φ400	Φ480	Φ480
Max cutting dia	mm	Φ120	Φ250	Φ250	Φ320	Φ320	Φ400	Φ400
Max cutting length	mm	300	350	750	500	1000	500	1000
Max. bar capacity	mm	Φ44	Φ44	Φ44	Φ51	Φ51	Φ51	Φ51
Motor power	kW	5.5/7.5	7.5/11	7.5/11	11/15	11/15	11/15	11/15
Spindle max	rpm	6000	5000	5000	4000	4000	3000	3000
Spindle nose type	ISO	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6
Spindle bore dia	mm	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65	Φ65
Spindle tape		6#	6#	6#	metric80	metric80	metric80	metric80
Hydraulic chuck	inch	6	8	8	10	10	10	10
Quill dia	mm	—	—	Φ100	Φ100	Φ100	Φ100	Φ100
Quill travel	mm	—	—	100	100	100	100	100
Bore taper	Mose	—	—	Live center 5#	Live center 5#	Live center 5#	Live center 5#	Live center 5#
Travel X/Z	mm	125/350	240/430	240/830	235/530	235/1080	275/530	275/1080
Rapid travel speed X/Z	m/min	30/30	24/30	24/30	20/24	20/24	20/24	20/24
Tool position	mm	12	12	12	12	12	12	12
Living tool speed	rpm	5000	5000	5000	5000	5000	5000	5000
Turning tool	mm	16 × 16	20 × 20	20 × 20	25 × 25	25 × 25	25 × 25	25 × 25
Boring tool max diameter	mm	Φ16	Φ25	Φ25	Φ32	Φ32	Φ32	Φ32
Max drilling	mm	Φ10 × 0.1	Φ14 × 0.15	Φ14 × 0.15	Φ16 × 0.2	Φ16 × 0.2	Φ16 × 0.2	Φ16 × 0.2
Max tapping	mm	M8 × 1.25/M16 × 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	mm	Φ12 × 8 × 32	Φ20 × 10 × 40	Φ20 × 10 × 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 controller		NEWAY FANUC [SIEMENS]						
Auto chip conveyer		rear way	sideway [rear way]	sideway [rear way]	sideway [rear way]	sideway [rear way]	sideway [rear way]	sideway [rear way]
Net weight	Kg	3000	4000	4500	4800	5500	5000	5700

[] option

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.



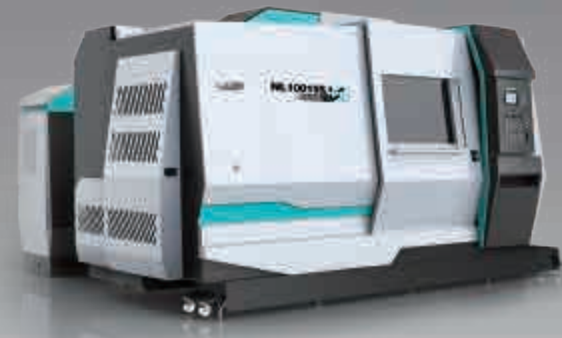
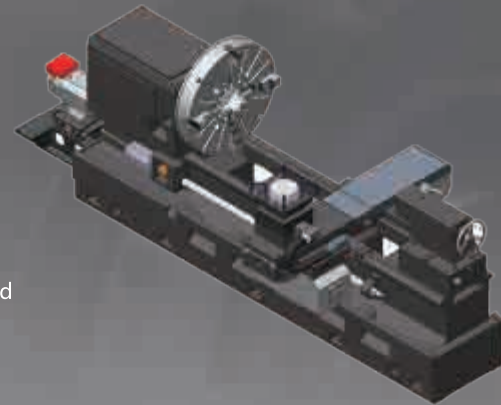
- 03 X/Z axis lead screw are preload structure, which can reduce the influence on the precision from the thermal growth. X/Z axis with box way, heat treatment of HRC48 hardness on the surface of guide way. The span is large offering, good rigidity, good anti-vibration, stable machining precision.

Item	Unit	NL502T	NL504T	NL634T	NL635T	NL636T
Max swing on bed	mm	Φ600	Φ600	Φ650	Φ650	Φ650
Max swing	mm	Φ450	Φ450	Φ410	Φ410	Φ410
Max cutting dia	mm	Φ410	Φ410	Φ540	Φ540	Φ540
Max cutting length	mm	500	1000	1000	1500	2000
Max. bar capacity	mm	Φ51	Φ51	Φ74	Φ74	Φ89
Motor power	kW	11/15	11/15	15/18.5	15/18.5	22/30
Spindle max	rpm	3000	3000	2000	2000	2000
Spindle nose type	ISO	A2-6	A2-6	A2-8	A2-8	A2-11
Spindle bore dia	mm	Φ65	Φ65	Φ87	Φ87	Φ102
Spindle tape		metric80	metric80	metric80	metric100	metric120
Hydraulic chuck	inch	10	10	12	12	12
Quill dia	mm	Φ100	Φ100	Φ130	Φ130	Φ130
Quill travel	mm	100	100	100	100	100
Bore taper	Mose	Live center 5#	Live center 5#	Fixed center 5#	Fixed center 5#	Fixed center 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	12	12	12	12
Living tool speed	rpm	5000	5000	5000	5000	5000
Turning tool	mm	25 × 25	25 × 25	25 × 25	25 × 25	25 × 25
Boring tool max diameter	mm	Φ32	Φ32	Φ40	Φ40	Φ40
Max drilling	mm	Φ16 × 0.2	Φ16 × 0.2	Φ16 × 0.2	Φ16 × 0.2	Φ16 × 0.2
Max tapping	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	mm	Φ20 × 12 × 40	Φ20 × 12 × 40	Φ20 × 12 × 40	Φ20 × 12 × 40	Φ20 × 12 × 40
Positioning accuracy (X/Z/C)	mm	0.012/0.014/51"	0.012/0.016/51"	0.012/0.016/51"	0.012/0.016/51"	0.016/0.040/51"
Repeatability accuracy (X/Z/C)	mm	0.006/0.007/20"	0.006/0.008/20"	0.006/0.008/20"	0.006/0.008/20"	0.007/0.0020/20"
CNC controller		NEWAY FANUC [SIEMENS]				
Auto chip conveyer		sideway [rear way]	sideway [rear way]	sideway	sideway	sideway
Net weight	Kg	4300	4500	7500	8100	10000

[] option

NL series CNC large size horizontal lathe

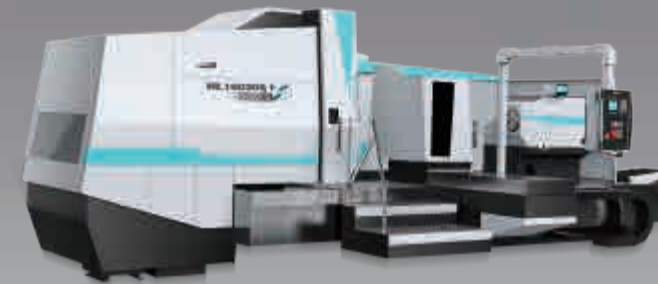
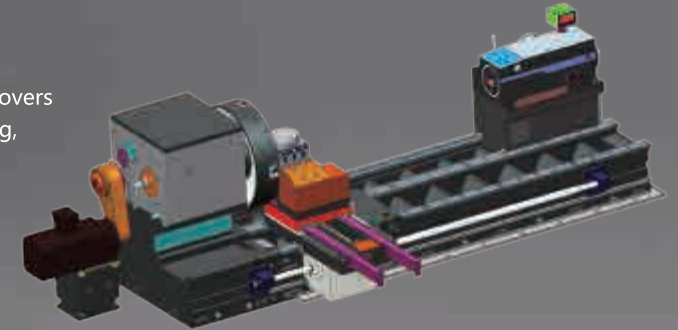
- 01** Higher spindle speed 630/500rpm, bigger cutting diameter 850/1000mm, bigger tool size 32/50mm, huge support loading weight 6 tons, higher travel speed X & Z axis 6 and 8m/min.
- 02** Flat bed with frame semi-enclosed structure, double 45°slant bed and double chip collection plate for good chip 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	NL10030S	NL10050S
Max swing on bed	mm	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max swing	mm	Φ500	Φ500	Φ500	Φ700	Φ700	Φ700
Max cutting dia	mm	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
max cutting length	mm	1500	3000	5000	1500	3000	5000
Max workpiece weight	kg	6000	6000	6000	6000	6000	6000
Motor power	kW	15/18.5	15/18.5	15/18.5	22/25	22/25	22/25
Spindle speed	rpm	630	630	630	500	500	500
Spindle nose type	ISO	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
Spindle bore dia	mm	Φ100	Φ100	Φ100	Φ100	Φ100	Φ100
Torque	N · m	4343	4343	4343	6370	6370	6370
Manual 4 jaw chuck	mm	Φ800	Φ800	Φ800	Φ1000	Φ1000	Φ1000
Position		4	4	4	4	4	4
Turning tool	mm	32 × 32	32 × 32	32 × 32	50 × 50	50 × 50	50 × 50
Quill dia	mm	Φ160	Φ160	Φ160	Φ160	Φ160	Φ160
Quill travel	mm	300	300	300	300	300	300
Quill bore taper	Mose	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
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
CNC system		NEWAY FANUC [SIEMENS]					
Auto chip conveyor		Double chip collecting plate					
Net weight	kg	11000	13000	16000	12500	14500	17500

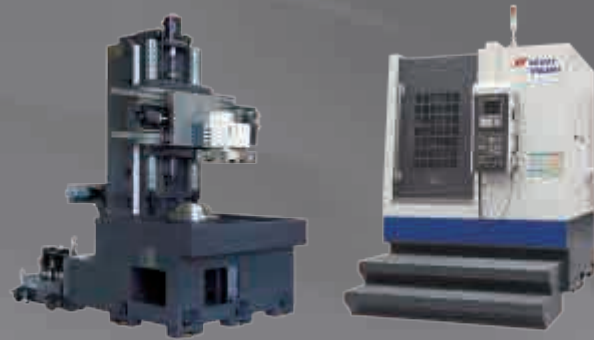
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Item	Unit	NL12515S	NL12530S	NL12550S	NL16030S	NL16060S	NL20050S	NL20060S
Max swing on bed	mm	Φ1250	Φ1250	Φ1250	Φ1600	Φ1600	Φ2200	Φ2200
Max swing	mm	Φ950	Φ950	Φ950	Φ1300	Φ1300	Φ1800	Φ1800
Max cutting dia	mm	Φ1250	Φ1250	Φ1250	Φ1600	Φ1600	Φ1900	Φ1900
Max cutting length	mm	1500	3000	5000	3000	6000	5000	6000
Max workpiece weight	kg	6000	6000	6000	20000	20000	20000	20000
Motor power	kW	22/25	22/25	22/25	55 (continuous)	55 (continuous)	55 (continuous)	55 (continuous)
Spindle speed	rpm	500	500	500	450	450	450	450
Spindle nose type	ISO	A2-11	A2-11	A2-11	A2-20	A2-20	A2-20	A2-20
Spindle bore dia	mm	Φ100	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130
Torque	N · m	6370	6370	6370	22000	22000	22000	22000
Manual 4 jaw chuck	mm	Φ1000	Φ1000	Φ1000	Φ1400	Φ1400	Φ1800	Φ1800
Position		4	4	4	4	4	4	4
Turning tool	mm	50 × 50	50 × 50	50 × 50	40 × 40	40 × 40	40 × 40	40 × 40
Quill dia	mm	Φ160	Φ160	Φ160	Φ320	Φ320	Φ320	Φ320
Quill travel	mm	300	300	300	250	250	250	250
Quill bore 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	0.05/0.08	0.05/0.08	0.05/0.08	0.05/0.08
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		NEWAY FANUC [SIEMENS]			SIEMENS			
Auto chip conveyor		Double chip collecting plate			Rear auto chip conveyer			
Net weight	kg	14500	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.

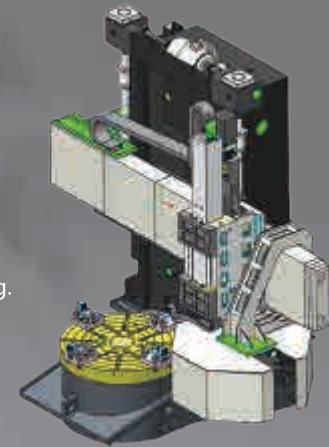


Item	Unit	VNL50S	VNL65S	VNL80S	VNL80SK
Max swing on bed	mm	Φ 800	Φ 900	Φ 1000	Φ 1000
Max cutting dia	mm	Φ 550	Φ 650	Φ 800	Φ 800
Max cutting height	mm	600	700	800	600
Max load weight	kg	—	—	—	—
Travel X/Z	mm	520/600	520/750	520/840	700/600
Rapid travel speed X/Z	m/min	12/12(S) 12/20(H)	12/12	12/12	10/10
Spindle motor power	kW	18.5/22	18.5/22	18.5/22	18.5/22
Worktable diameter	mm	15 " (hydraulic chuck)	18"(hydraulic chuck)	21"(hydraulic chuck)	21"(hydraulic chuck)
Max. worktable speed	r/min	1500/2000	1500	1250	1250
Max. worktable torque	N.m	—	2000	2920	2920
Tool position		12 (horizontal) [6 (vertical)]	12 (horizontal) [6 (vertical)]	12 (horizontal) [6 (vertical)]	8(Tool magazine)
Turning tool shank	mm	32 × 32	32 × 32	32 × 32	32 × 32
Driving		hydraulic [electrical]	hydraulic [electrical]	hydraulic [electrical]	electrical
Positioning accuracy (X/Z)	mm	0.008/0.012	0.008/0.012	0.012/0.015	0.015/0.015
Repositioning accuracy (X/Z)	mm	0.006/0.008	0.006/0.008	0.007/0.010	0.010/0.010
CNC controller		NEWAY FANUC [SIEMENS]			
Chip conveyor		rearway[sideway]	rearway[sideway]	rearway[sideway]	sideway
Weight	kg	10000	11000	12000	14000

[] option

VNL series CNC vertical lathe

- 01** Offers a ZF gear box and high precision gear transmission system to fully realize higher spindle speed and great rigidity.
- 02** Columns are specially designed with thermal symmetric integrated structure to improve anti-vibration; graded positioning of beam located on the both sides of column to realize high rigidity when beam is moving.



- 03** Beam is equipped with the two motors and two lifting boxes to drive the double ball screw by the couplings to realize the rapid feeding and no backlash accurate positioning of a World Class turning machine.



Item	Unit	VNL125S	VNL125SK	VNL160S	VNL160SK	VNL250S	VNL250SK
Max swing on bed	mm	Φ 1500	Φ 1500	Φ 1800	Φ 1800	Φ 2750	Φ 2750
Max cutting dia	mm	Φ 1250	Φ 1250	Φ 1600	Φ 1600	Φ 2500	Φ 2500
Max cutting height	mm	1000	1000	1600	1600	2000	2000
Max load weight	kg	5000	5000	8000	8000	16000	16000
Travel X/Z	mm	800/620	800/620	1040/800	1050/800	1820/1400	1420/1400
Rapid travel speed X/Z	m/min	12/12	10/10	12/12	10/10	9/9	9/9
Spindle motor power	kW	30(continuous)	30 (continuous)	37 (continuous)	37 (continuous)	55 (continuous)	55 (continuous)
Worktable diameter	mm	Φ 1000	Φ 1000	Φ 1250	Φ 1250	Φ 2250	Φ 2250
Max. worktable speed	r/min	500	500	400	400	120	120
Max. worktable torque	N.m	6000	6000	14000	14000	40000	40000
Tool position		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	40 × 40	40 × 40
Driving		electrical	electrical	electrical	electrical	N/A	electrical
Positioning accuracy (X/Z)	mm	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	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015
CNC controller		SIEMENS [NEWAY FANUC]					
Chip conveyor		sideway	Sideway	Sideway	Sideway	Optional	Optional
Weight	kg	16000	17000	25000	26000	42000	42000

[] option

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.

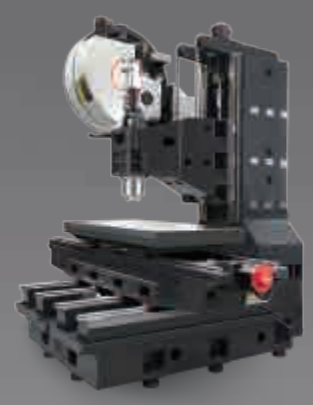


VM series CNC traveling table vertical machining center with linear guideway

- 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	VM740H	VM740HL	VM950H	VM950HL	VM1150H	VM1150HL
Worktable size	mm	750 × 420	750 × 420	950 × 520	950 × 520	1100 × 520	1100 × 520
Max worktable load	kg	350	350	600	500	750	600
Axis travel X/Y/Z	mm	650/420/500	650/420/500	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	120 ~ 680
Spindle center to column guideway	mm	470	470	590	575	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	30/30/24 [36/36/30]	40/40/30
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
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)]	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
Number of tools (disc type)	Pc	20	20	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	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
Drilling (normalized mild steel)	mm	φ30	φ30	φ40	φ40	φ40	φ40
Tapping (normalized mild steel)	mm	M16	M16	M20	M20	M20	M20
Milling (normalized mild steel)	cm ³ /min	150	150	200	200	200	200
Positioning accuracy (X/Y/Z)	mm	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
CNC controller		NEWAY FANUC [SIEMENS、Mitsubish]					
Auto chip conveyer		[Sideway (rear)]	[Sideway (rear)]	Sideway	[Sideway (rear)]	Sideway	[Sideway (rear)]
Weight	kg	4000	4000	6000	5000	7000	6000

[] option

Item	Unit	VM1160H	VM1260H	VM1360H	VM1580H	VM1780H	VM1880H
Worktable size	mm	1100 × 600	1200 × 600	1350 × 600	1500 × 800	1700 × 800	1800 × 800
Max worktable load	kg	750	800	1000	1250	1500	1750
Axis travel X/Y/Z	mm	1000/600/560	1050/600/600	1200/600/600	1350/800/680	1500/800/680	1700/850/700
Spindle terminal to worktable	mm	150 ~ 710	140 ~ 740	150 ~ 750	150 ~ 830	150 ~ 830	140 ~ 840
Spindle center to column guideway	mm	659	649	665	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 (H) 24/24/20 (S)	30/30/24 (H) 24/24/20 (S)	30/30/24 (H) 24/24/20 (S)	24/24/20
Motor power	kW	7.5/11 [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	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.50	7:24taper NO.50	7:24taper NO.50
Number of tools (disc type)	Pc	24	24	24	24	24	24
Tool shank		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	φ110/350/15	φ110/350/15	φ110/350/15
Tool change time T-T	s	1.8	1.8	1.8	2	2	2
Drilling (normalized mild steel)	mm	φ40	φ45	φ45	φ50	φ50	φ50
Tapping (normalized mild steel)	mm	M20	M24	M24	M30	M30	M30
Milling (normalized mild steel)	cm ³ /min	200	250	250	300	300	300
Positioning accuracy (X/Y/Z)	mm	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	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006
CNC controller		NEWAY FANUC [SIEMENS、Mitsubish]					
Auto chip conveyer		sideway	sideway	sideway	sideway	sideway	sideway
Weight	kg	7200	7500	9000	11000	13000	15000

[] option

VM series tapping center Gantry type vertical machining center

Tapping center VM640D :

- Direct connection high speed spindle unit with air blow function;
- Front location ATC with 16 tools with rapid tool changing and stable movement;
- Direct connection between axis servo motor and the ball screw to realize low vibration in high feeding and high precision.



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.

Item	Unit	VM640D
Worktable size	mm	650 × 400
Max worktable load	kg	250
Axis travel X/Y/Z	mm	510/400/350
Spindle terminal to worktable	mm	150 ~ 500
Spindle center to column guideway	mm	458
Axis rapid travel X/Y/Z	m/min	60/60/60
Motor power	kW	2.2/3.7
Max. spindle speed	rpm	20000
Spindle taper		Oil cooler
Number of tools (disc type)	pc	16(front location/servo)
Tool shank		MAS403 BT30
Max. tool dia./length/weight	mm/mm/kg	Φ100/250/3
Tool change time T-T	s	1.6
Drilling (normalized mild steel)	mm	Φ16
Tapping (normalized mild steel)	mm	M10
Milling (normalized mild steel)	cm ³ /min	60
Positioning accuracy (X/Y/Z)	mm	0.008
Repositioning accuracy X/Y/Z)	mm	0.005
CNC controller		NEWAY FANUC
Auto chip conveyer		Sideway (rear)
Weight	kg	3000

[] option

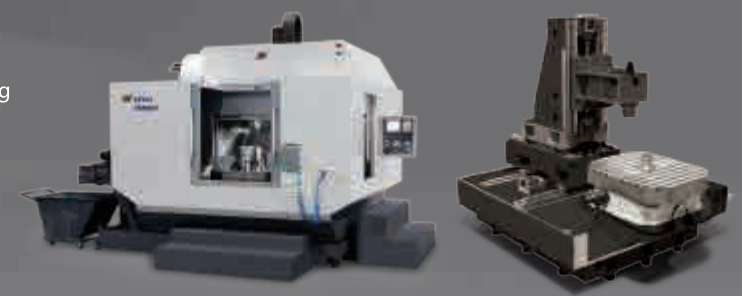
Item	Unit	VM12100B
Worktable size	mm	1200x1000
Max worktable load	kg	2000
Axis travel X/Y/Z	mm	1200/1200/600
Spindle terminal to worktable	mm	200~800 [400~1000] [600~1200]
Spindle center to column guideway	mm	426
Axis rapid travel X/Y/Z	m/min	30/30/24
Motor power	kW	15/18.5
Max. spindle speed	rpm	5000
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 controller		NEWAY FANUC [SIEMENS]
Auto chip conveyer		Sideway (rear)
Weight	kg	15000

[] option

VM series Vertical machining centers w built in twin or single rotary tables

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.



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 SIEMENS840Dsl CNC controller to realize stable machining and various machining requirements from customers.

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
Axis travel X/Y/Z		Two position hydraulic indexing worktable	Two position hydraulic indexing worktable	Fix worktable
Spindle terminal to worktable	mm	700/420/560	900/460/620	2100/600/600
Spindle center to column guideway	mm	200 ~ 760	230 ~ 850	180 ~ 780
Axis rapid travel X/Y/Z	m/min	30/30/20	30/30/20	30/30/24
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 controller		NEWAY FANUC		
Auto chip conveyer		Sideway	Sideway	Sideway
Weight	kg	11000	15000	14000

Item	Unit	VM650F
Worktable size	mm	Φ 650
Max worktable load	kg	300
Axis travel X/Y/Z	mm	650/550/500
B/C axis rotating degree	°	± 110° /360°
Spindle terminal to worktable	mm	150~650
Spindle center to column guideway	mm	451
Axis rapid travel X/Y/Z	m/min	48/48/40
Motor power	kW	20
Max. spindle speed	rpm	15000
Spindle taper		7:24taper NO.40
Number of tools (disc type)	pc	30
Tool shank		MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	Φ76/300/8
Tool change time T-T	s	1.8
Drilling (normalized mild steel)	mm	Φ45
Tapping (normalized mild steel)	mm	M24
Milling (normalized mild steel)	cm ³ /min	250
Positioning accuracy (X/Y/Z)	mm/sec	0.006/10"
Repositioning accuracy X/Y/Z)	mm/sec	0.004/5"
CNC controller		SIEMENS 840D sl
Auto chip conveyer		Sideway
Weight	kg	12000

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.



Item	Unit	HM50VS		HM50VD		HM63VS	HM63VD
		(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]		1° × 360[0.001° × 360000]		1° × 360[0.001° × 360000]	
Worktable exchanging time	S	/		10		/	20
Worktable exchanging drive		/		hydraulic		/	hydraulic
Worktable max. speed	r/min	10		10		10	
Max. part diameter / height	mm	Φ 800 × 800		Φ 800 × 800		Φ 1000 × 1000	
Axis travel X/Y/Z	mm	900/750/800		900 × 750 × 800		1000 × 850 × 850	
Spindle terminal to worktable	mm	140-940	100-900	140-940	100-900	180-1030	
Spindle center to worktable surface	mm	50 ~ 800		50 ~ 800		120 ~ 970	
Axis rapid travel X/Y/Z	m/min	50		50		36	
Motor power	kW	11/15		11/15		18.5/22	
Max. spindle speed	rpm	10000	6000	10000	6000	4500	
Spindle torque	N.m	70/95.4	140/191	70/95.4	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	32	40	32	40	40chain type)	
Tool shank		MAS403BT40	MAS403BT50	MAS403 BT40	MAS403 BT50	MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	Φ 80/350/8	Φ 125/450/25	Φ 80/350/8	Φ 125/450/25	Φ 125/500/25	
Max. tool size (empty neighbor)	mm	Φ 120	Φ 250	Φ 120	Φ 250	Φ 250	
Tool change time T-T	s	2.31	3.45	2.31	3.45	3.45	
Drilling (normalized mild steel)	mm	Φ 30	Φ 35	Φ 30	Φ 35	Φ 55	
Tapping (normalized mild steel)	mm	M20	M24	M20	M24	M45	
Milling (normalized mild steel)	cm³/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 controller		NEWAY FANUC [SIEMENS]					
Auto chip conveyor		center chain		center chain		Z axis with double helix + rear chain chip conveyor	
Weight	kg	16000		18000		22000	24000

[] option

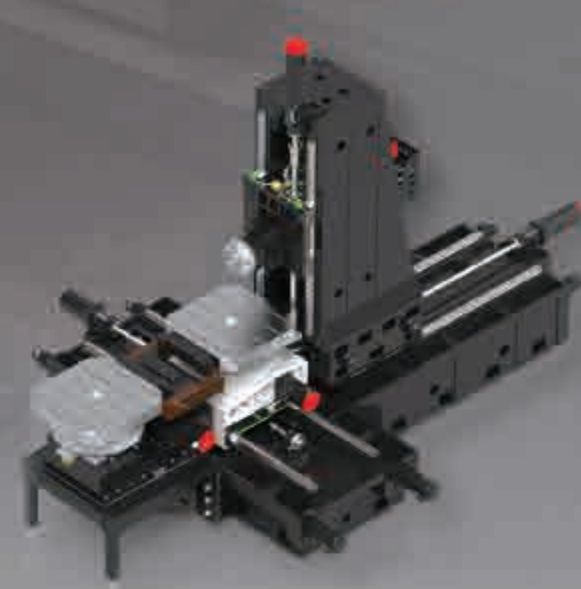
HM series Horizontal machining center V type

Item	Unit	HM80VE	HM80VD	HM100VS	HM100VD
Worktable size	mm	800 × 800	2-800 × 800	1000 × 1000	2-1000 × 1000
Max worktable load	kg	1600		2000	
Worktable indexing		1° × 360[0.001° × 360000]		1° × 360[0.001° × 360000]	
Worktable exchanging time	S	/	25	/	25
Worktable exchanging drive		/	Servo motor	/	Servo motor
Worktable max. speed	r/min	10		10	
Max. part diameter / height	mm	Φ 1300 × 1100	Φ 1200 × 1200	Φ 1300 × 1300	
Axis travel X/Y/Z	mm	1050 × 900 × 900	1250 × 1000 × 1100	1400 × 1020 × 1050	
Spindle terminal to worktable	mm	140-1040	200 ~ 1300	250 ~ 1300	
Spindle center to worktable surface	mm	100 ~ 1000	120 ~ 1120	120 ~ 1140	80 ~ 1100
Axis rapid travel X/Y/Z	m/min	36	30	30	
Motor power	kW	18.5/22	22/26	22/26	
Max. sindle speed	rpm	4500		4500	
Spindle torque	N.m	647/770	770/910	770/910	
Spindle taper		7:24taper NO.50		7:24taper NO.50	
Number of tools (disc type)	Pc	40 (chain type)		40 (chain type)	
Tool shank		MAS403 BT50		MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	Φ 125/500/25	Φ 125/500/35	Φ 125/500/35	
Max. tool size (emmpy neighbor)	mm	Φ 250		Φ 250	
Tool change time T-T	s	3.45	5.5	5.5	
Drilling (normalized mild steel)	mm	Φ 55		Φ 60	
Tapping (normalized mild steel)	mm	M45		M48	
Milling (normalized mild steel)	cm³/min	600		900	
Positioning accuracy (X/Y/Z)	mm	0.010		0.010	
Repositioning accuracy X/Y/Z)	mm	0.006		0.006	
Positioning accuracy (B)	"	6		6	
Repositioning accuracy (B)	"	2		2	
CNC controller		NEWAY FANUC [SIEMENS]			
Auto chip conveyer		Z axis with double helix + rear chain chip conveyer			
Weight	kg	23000	26000	24000	27000

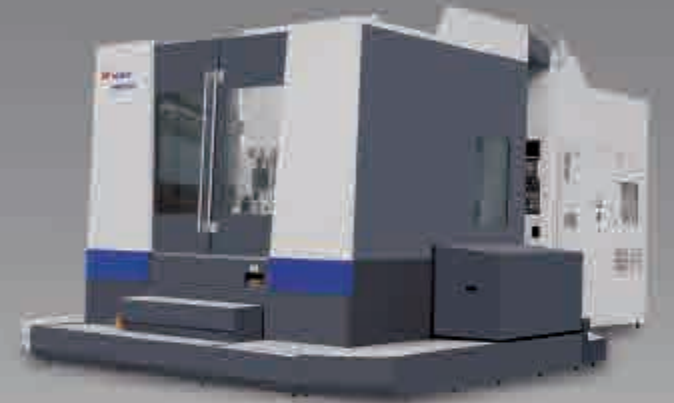
[] option

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 conveyer 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 0.001degree 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]		1° × 360[0.001° × 360000]		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)	32 (chain type)	
Tool shank		MAS403 BT40	MAS403 BT50	MAS403 BT40	MAS403 BT50	MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	Φ 80/350/8	Φ 110/350/20	Φ 80/350/8	Φ 110/350/20	Φ 125/400/25	
Max. tool size (empty neighbor)	mm	Φ 150	Φ 250	Φ 150	Φ 250	Φ 250	
Tool change time T-T	s	2.33	3.8	2.33	3.8	4.75	
Drilling (normalized mild steel)	mm	Φ 30	Φ 35	Φ 30	Φ 35	Φ 55	
Tapping (normalized mild steel)	mm	M20	M24	M20	M24	M45	
Milling (normalized mild steel)	cm³/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 controller		NEWAY FANUC [SIEMENS]					
Auto chip conveyor		Z axis double helix + sideway chain type chip conveyor					
Weight	kg	12000		13000		18000	21000

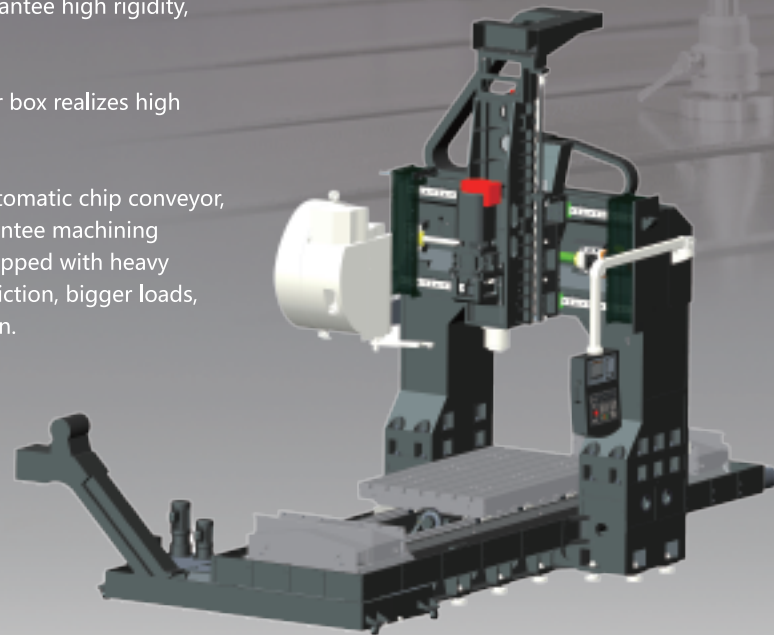
[] option

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]		1° × 360[0.001° × 360000]		1° × 360[0.001° × 360000]	1° × 360[0.001° × 360000]		1° × 360[0.001° × 360000]	
/	25	/	25	/	/	90	/	90
/	servo motor	/	servo motor	/	/	hydraulic	/	hydraulic
10		10		5.5	5.5		5.5	
1300 × 1300		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	
Φ 125/400/25		Φ 125/400/25		Φ 125/600/35	Φ 125/600/35		Φ 125/600/35	
Φ 250		Φ 250		Φ 250	Φ 250		Φ 250	
4.75		4.75		7.5	7.5		7.5	
Φ 55		Φ 60		Φ 70	Φ 70		Φ 70	
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 conveyer (note: HM125TBS/TBD boring tool diameter Φ 110)								
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.



Item	Unit	PM1220HA	PM1230HA	PM1240HA
Worktable width	mm		1200	
Worktable length	mm	2000	3000	4000
Table load	kg	3500	5500	7000
Worktable travel (X axis)	mm	2200	3200	4200
Carriage travel (Y axis)	mm	1200 [1500] [1700]		
Ram travel (Z axis)	mm	800		
Spindle terminal to worktable	mm	200 ~ 1000		
Column span	mm	1400 [1600]		
Tool shank size	-	BT50		
Spindle speed	r/min	40 ~ 6000		
Max. output torque	N.m	788/1295		
Spindle motor power	kW	15/18.5		
Ram section	mm	400 × 320		
X/Y/Z axis rapid travel	m/min	24/24/15	15/24/15	15/24/15
Tool position	-	24 [32/40/60]		
Max. tool dia./length/weight	mm/mm/kg	Φ 110/350/15		
Max. tool diameter (empty neighbor)	mm	Φ 200		
X axis positioning accuracy	mm	0.012/0.008	0.017/0.012	0.022/0.016
Y axis positioning accuracy	mm	0.012/0.008		
Z axis positioning accuracy	mm	0.012/0.008		
CNC controller	-	NEWAY FANUC [SIEMENS]		
Weight	kg	19000	23000	26000

[] option

PM series High speed portal machining center PM12 and PM15

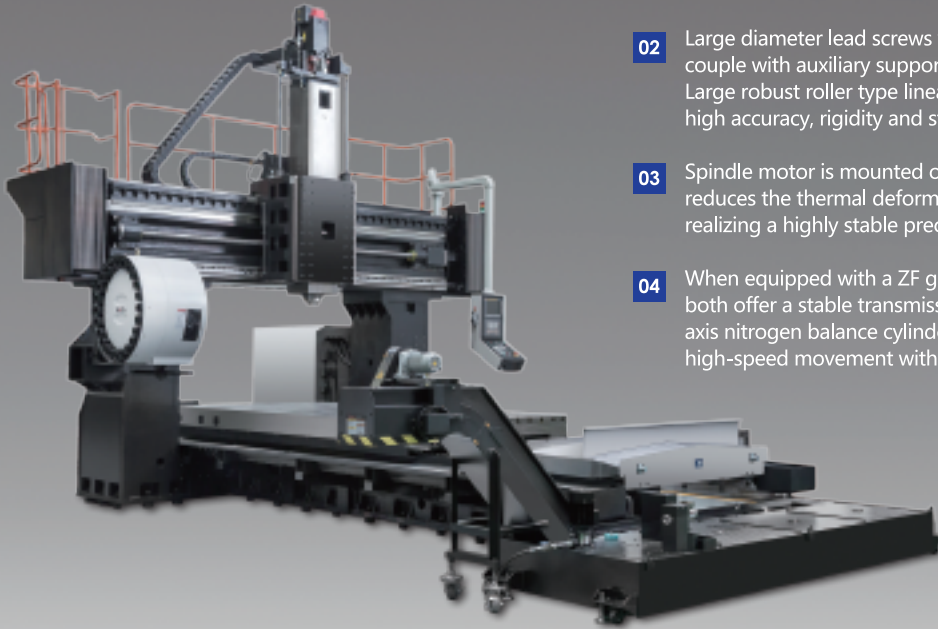


Item	Unit	PM1520HA	PM1530HA
Worktable width	mm		1500
Worktable length	mm	2000	3000
Table load	kg	6000	7000
Worktable travel (X axis)	mm	2200	3200
Carriage travel (Y axis)	mm	1900	
Ram travel (Z axis)	mm	800	
Spindle terminal to worktable	mm	200 ~ 1000	
Column span	mm	1800	
Tool shank size	-	BT50	
Spindle speed	r/min	40 ~ 6000	
Max. output torque	N.m	788/1295	
Spindle motor power	kW	15/18.5	
Ram section	mm	400 × 320	
X/Y/Z axis rapid travel	m/min	15/24/15	12/24/15
Tool position	-	24 [32/40/60]	
Max. tool dia./length/weight	mm/mm/kg	Φ 110/350/15	
Max. tool diameter (empty neighbor)	mm	Φ 200	
X axis positioning accuracy	mm	0.012/0.008	0.017/0.012
Y axis positioning accuracy	mm	0.014/0.009	
Z axis positioning accuracy	mm	0.014/0.009	
CNC controller	-	NEWAY FANUC [SIEMENS]	
Weight	kg	21000	25000

[] option

PM series

High speed portal machining center PM18, PM20 and 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	PM1820HA	PM1830HA	PM1840HA	PM2030HA	PM2040HA
Worktable width	mm	1800			2000	
Worktable length	mm	2000	3000	4000	3000	4000
Table load	kg	8000	10000	12000	16000	20000
Worktable travel (X axis)	mm	2200	3200	4200	3200	4200
Carriage travel (Y axis)	mm	2700			3200	
Ram travel (Z axis)	mm	800 [1000]			1000 [800] [1250]	
Spindle terminal to worktable	mm	200 ~ 1000 [200 ~ 1200]			200 ~ 1200 [200 ~ 1000] [250 ~ 1500]	
Column span	mm	2300			2800 [3200]	
Tool shank size	—	BT50			BT50	
Spindle speed	r/min	40 ~ 6000			40 ~ 6000 [Z轴1250; 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轴1250; 420 × 420]	
X/Y/Z axis rapid travel	m/min	20/18/15	20/18/15	15/18/15	15/15/12	15/15/12
Tool position	—	[24/32/40/60]			[24/32/40/60]	
Max. tool dia./length/weight	mm/mm/kg	Φ 105/350/15			Φ 105/350/15	
Max. tool diameter (empty neighbor)	mm	Φ 200			Φ 200	
X axis positioning accuracy	mm	0.016/0.010	0.020/0.012	0.025/0.016	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轴1250; 0.020/0.012]	
CNC controller	—	NEWAY FANUC [SIEMENS]			NEWAY FANUC [SIEMENS]	
Weight	kg	28000	30000	35000	41000	45000

[选配]

[] option

PM series

High speed portal machining center PM18, PM20 and PM25 (PM2530&PM2540)

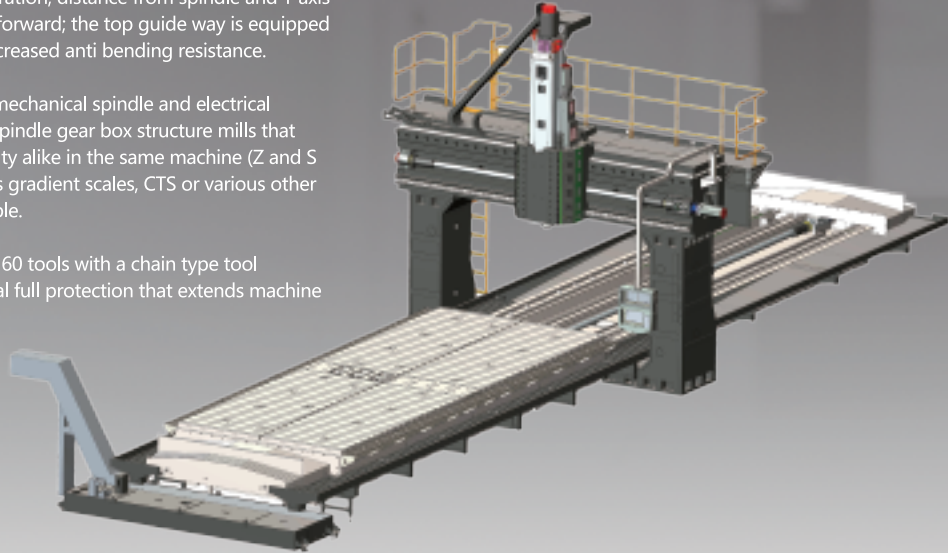


Item	Unit	PM2050HA	PM2060HA	PM2530HA	PM2540HA
Worktable width	mm	2000		2500	
Worktable length	mm	5000	6000	3000	4000
Table load	kg	23000	26000	18000	22000
Worktable travel (X axis)	mm	5200	6200	3200	4200
Carriage travel (Y axis)	mm	3200		3200	
Ram travel (Z axis)	mm	1000 [800] [1250]		1000 [1250]	
Spindle terminal to worktable	mm	200 ~ 1200 [200 ~ 1000] [250 ~ 1500]		200 ~ 1200 [250 ~ 1500]	
Column span	mm	2800 [3200]		2800 [3200]	
Tool shank size	—	BT50		BT50	
Spindle speed	r/min	40 ~ 6000 [Z轴1250; 40 ~ 4500]		40 ~ 6000[Zaxis1250; 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轴1250; 420 × 420]		400 × 400 [Zaxis1250; 420 × 420]	
X/Y/Z axis rapid travel	m/min	12/15/12	12/15/12	12/12/12	12/12/12
Tool position	—	[24/32/40/60]		[24/32/40/60]	
Max. tool dia./length/weight	mm/mm/kg	Φ 105/350/15		Φ 105/350/15	
Max. tool diameter (empty neighbor)	mm	Φ 200		Φ 200	
X axis positioning accuracy	mm	0.030/0.020	0.035/0.024	0.020/0.012	0.025/0.016
Y axis positioning accuracy	mm	0.020/0.012		0.025/0.016	
Z axis positioning accuracy	mm	0.016/0.010[Z轴1250; 0.020/0.012]		0.016/0.010[Zaxis1250; 0.020/0.012]	
CNC controller	—	NEWAY FANUC [SIEMENS]		NEWAY FANUC [SIEMENS]	
Weight	kg	50000	55000	45000	50000

[] option

PM series High speed portal machining center PM25 and PM30

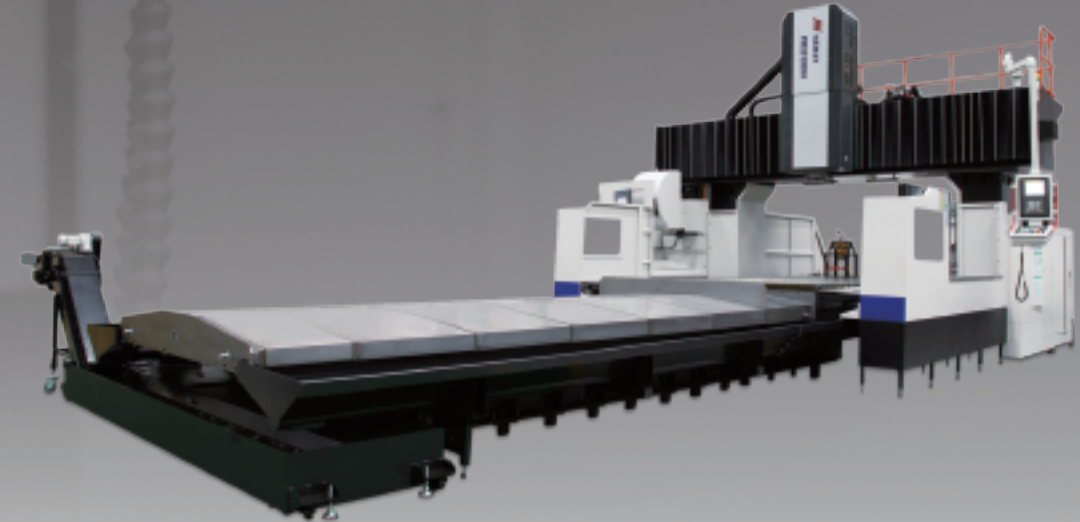
- 01** X axis with three guideways, big span (1800mm), super high anti-subversion movement achieve excellent anti-deflection properties for Extra Heavy Duty cutting and Fine Finish Machining.
- 02** X axis with three guideways, big span (1800mm), super high anti-subversion movement achieve excellent 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.



Item	Unit	PM2550HA	PM2560HA	PM2580HA	PM25100HA
Worktable width	mm	2500			
Worktable length	mm	5000	6000	8000	10000
Table load	kg	25000	30000	35000	40000
Worktable travel (X axis)	mm	5200	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]			
Column span	mm	3300[3800]			
Tool shank size	-	BT50			
Spindle speed	r/min	40 ~ 6000[Zaxis1250: 40 ~ 4500]			
Max. output torque	N.m	770/910			
Spindle motor power	kW	22/26			
Ram section	mm	400 × 400 [Zaxis1250: 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	Φ 105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ 200			
X axis positioning accuracy	mm	0.030/0.020	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[Zaxis1250: 0.020/0.012]			
CNC controller	-	NEWAY FANUC [SIEMENS]			
Weight	kg	58000	65000	85000	95000

[] option

PM series High speed portal machining center PM25 and PM30

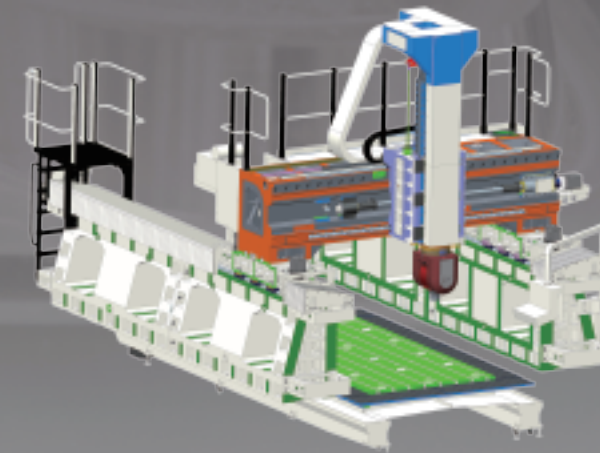


Item	Unit	PM3040HA	PM3060HA	PM3080HA	PM30100HA
Worktable width	mm	3000			
Worktable length	mm	4000	6000	8000	10000
Table load	kg	25000	35000	40000	45000
Worktable travel (X axis)	mm	4200	6200	8500	10500
Carriage travel (Y axis)	mm	4200			
Ram travel (Z axis)	mm	1000 [1250]			
Spindle terminal to worktable	mm	200 ~ 1200 [250 ~ 1500]			
Column span	mm	3800[4200]			
Tool shank size	-	BT50			
Spindle speed	r/min	40 ~ 6000[Zaxis1250: 40 ~ 4500]			
Max. output torque	N.m	770/910			
Spindle motor power	kW	22/26			
Ram section	mm	400 × 400 [Zaxis1250: 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	Φ 105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ 200			
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[Zaxis1250: 0.020/0.012]			
CNC controller	-	NEWAY FANUC [SIEMENS]			
Weight	kg	55000	70000	90000	100000

[] 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.
- 05** FANUC 5 CNC is also available upon request.



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/m2	5	
Worktable travel (X axis)	mm	4000	6000
Carriage travel (Y axis)	mm	2300	
Ram travel (Z axis)	mm	800	
Spindle terminal to worktable	mm	200-1000	
Column span	mm	3300	
Tool shank size	-	HSK-A63	
Spindle speed	r/min	24000	
Max. output torque	N.m	67/83	
Spindle motor power	kw	43/52	
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	φ 80/350/8	
Max. tool diameter (empty neighbor)	mm	φ 150	
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 controller		SIEMENS [HEIDENHAIN]	
Weight	kg	60000	70000

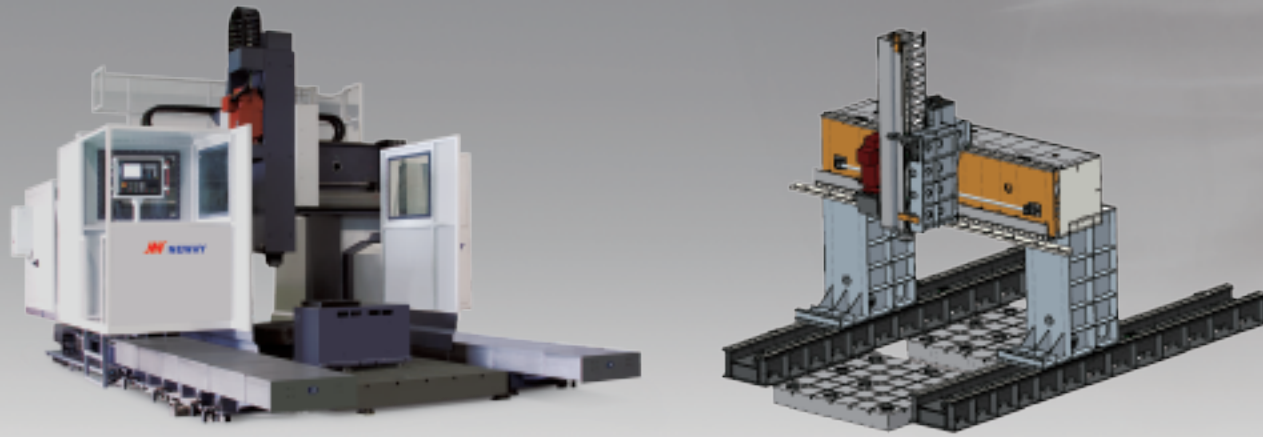
[] option

Item	Unit	PMB2540U	PMB2560U	PMB3060U
Worktable width	mm	2500		3000
Worktable length	mm	4000	6000	6000
Table load	ton/m2	5		5
Worktable travel (X axis)	mm	4000	6000	6000
Carriage travel (Y axis)	mm	2800		3300
Ram travel (Z axis)	mm	800		800
Spindle terminal to worktable	mm	200-1000		200-1000
Column span	mm	3800		4300
Tool shank size	-	HSK-A63		HSK-A63
Spindle speed	r/min	24000		24000
Max. output torque	N.m	67/83		67/83
Spindle motor power	kw	43/52		43/52
A/C axis indexing degree	°	± 105/ ± 360		± 105/ ± 360
A/C axis positioning accuracy	degree/second	± 5/ ± 3		± 5/ ± 3
X/Y/Z axis rapid travel	m/min	25/25/25		25/25/25
Tool position	-	[12/24/32]		[12/24/32]
Max. tool dia./length/weight	mm/mm/kg	φ 80/350/8		φ 80/350/8
Max. tool diameter (empty neighbor)	mm	φ 150		φ 150
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		0.025/0.016
Z axis positioning /repositioning accuracy	mm	0.012/0.008		0.012/0.008
CNC controller		SIEMENS [HEIDENHAIN]		SIEMENS [HEIDENHAIN]
Weight	kg	70000	90000	100000

[] option

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.

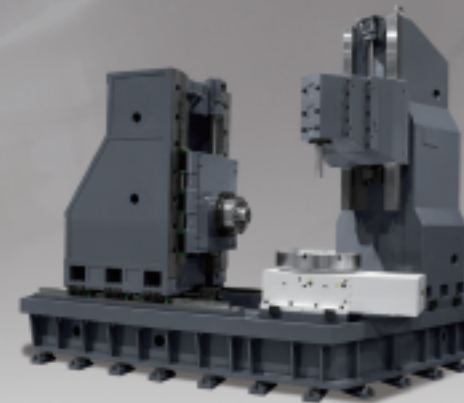


Item	Unit	PM1540D	PM2050D	PM3250D
Worktable size	mm	1500x1500(two)	2150 × 2150(two)	3200 × 3200, 3200 × 1400
Table load	kg/m2	10000	10000	10000
Worktable travel (X axis)	mm	3700	5000	5000
Carriage travel (Y axis)	mm	1600	3000	3200
Ram travel (Z axis)	mm	1000	1250	1250
Spindle terminal to worktable	mm	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	—	[12/16]	[12/16]	[12/16]
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 controller		NEWAY FANUC [SIEMENS]		
Weight	kg	20000	25000	28000

[] option

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

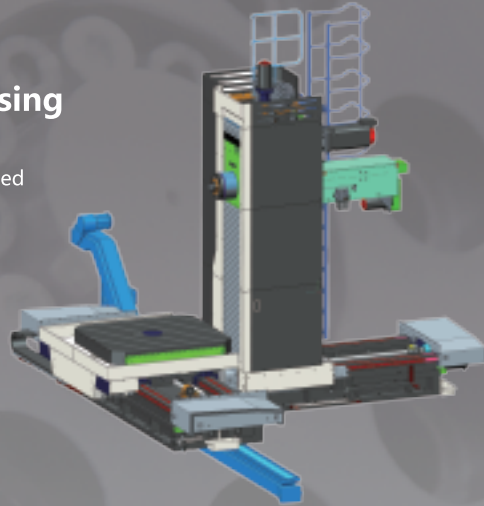


Item	Unit	SMG32H	SMG63HA	SMG100H	SMG240H
Work range o.D	mm	S Φ 75 ~ 320	S Φ 320 ~ 630	S Φ 630 ~ 1100	S Φ 900 ~ 2400
Work range i.D	inch	2" ~ 8"	8" ~ 16"	16" ~ 28"	24" ~ 64"
Motor power	kW	15	15/18.5	28	80
Rated torque	N.m	96	98	267	1910
Max spindle speed	rpm	6000	2700	1500	500
Motor power	kW	3.7	5.5	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

[] option

PB Series Boring and milling machine offer large part processing

- 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 vibration absorption 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.

Item	Unit	PB110H	PB130H
Worktable size	mm	1400X1600	1600X1800/2000X2000
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
Spindle box travel Y	mm	2000	2000
Column travel Z	mm	1500	1600
Spindle axial travel W	mm	600	800
Workable travel B	°	360	360
X/Y/Z/W rapid	m/min	10/10/10/4	10/10/10/4
Motor power	kw (30min)	18.5/22	22/30
Max spindle speed	rpm	10-2500	10-2500
Spindle taper		BT50	BT50
Pull stud size		P50T-1	P50T-1
Boring shaft dia.	mm	Φ110	Φ130
Max boring shaft tensile	N	15000	25000
Milling shaft end dia.	mm	Φ221.44	Φ221.44
Max milling shaft torque	N.m(30min)	2150/2590	2837/3868
Tools (option)	Pc	[40 (chain type)]	[40 (chain type)]
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
Positioning accuracy (X/Y/Z)	mm	0.02	0.02
Repositioning accuracy (X/Y/Z)	mm	0.015	0.015
Positioning accuracy (W)	mm	0.025	0.025
Repositioning accuracy (W)	mm	0.02	0.02
Positioning accuracy (B)		15"	15"
Repositioning accuracy (B)		7"	7"
CNC system		NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]
Auto chip conveyor		Single helix + chain type	chain type
Weight	kg	32000	40000

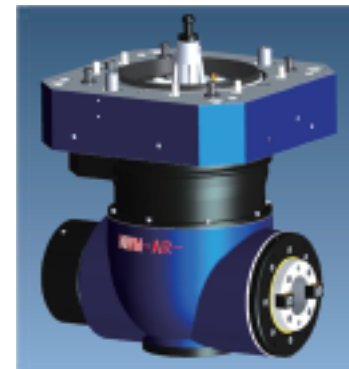
[] option

Neway offers special need optional milling heads

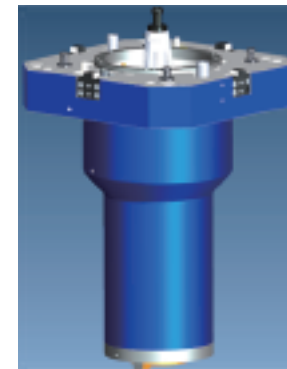
Neway milling head options increase the machining scope and give full play to the overall capabilities, capacities and effectiveness. Neway portal machining centers can be equipped with various milling heads to achieve Full Five Face machining, Deep Drilling, Extended Reach for machining in small spaces,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



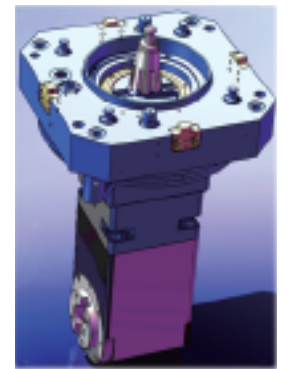
Angle head



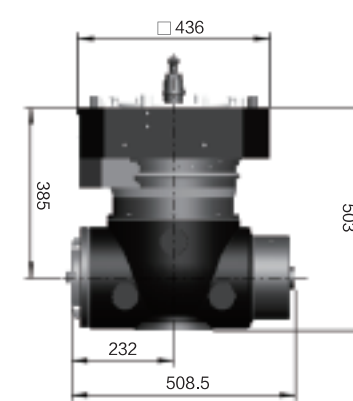
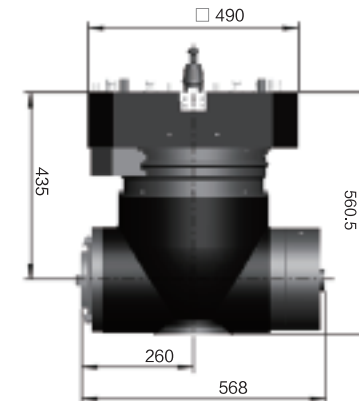
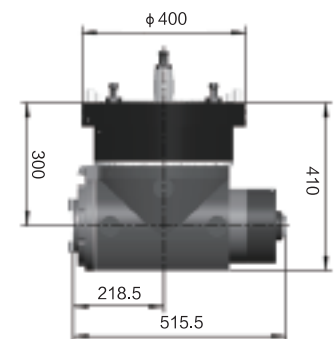
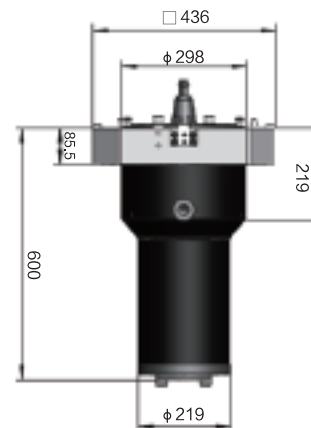
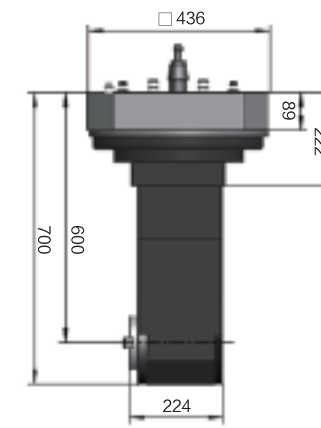
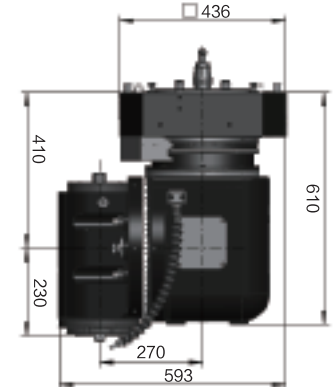
Extension head



Angle head



Extension angle head

Angle head
NWM-AR5-75
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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. They have lots of experience.

Small Parts Automatic Production Line

Practical Example : best choice NL251H

Work Piece : check valve
Material : stainless steel
Tolerance : 2mm each side



Box Bonnet Automatic Production Line

Practical Example : best choice VM950S+VM1150S

Work Piece : automobile engine
Material : HT250



Automatic Production Line Combination

Practical Example : best choice VM950SL+NL201HG+NL201H

Work Piece : input shaft
Material : 45# steel



Circle Parts Production Line Combination

Practical Example : best choice NL201HA

Work Piece : shell
Material : magnesium alloy



CNC LATHE

VERTICAL MACHINE CENTER

HORIZONTAL MACHINE CENTER

GANTRY/PORTAL MILLING CENTER

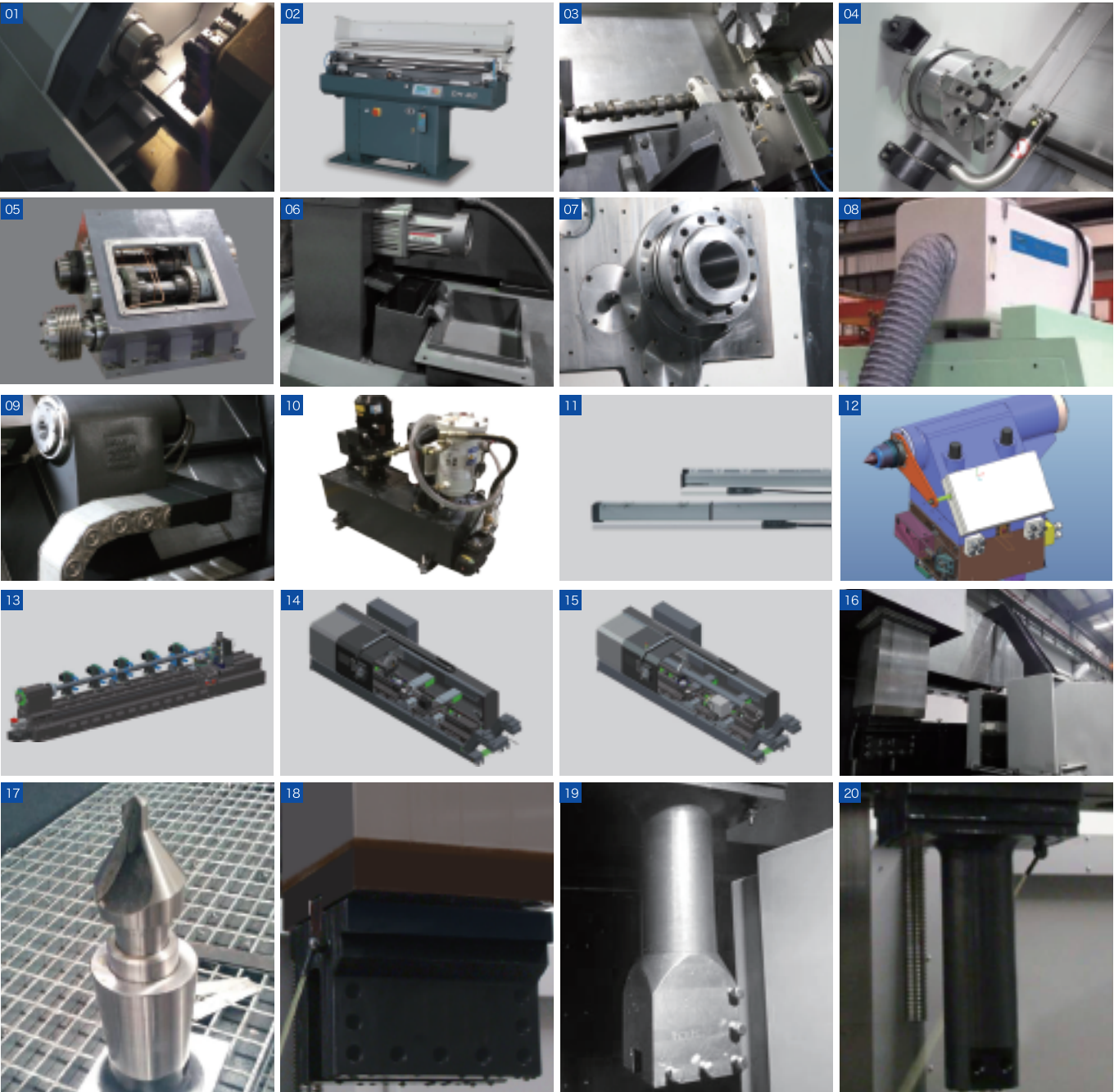
SPECIAL PURPOSE MACHINE

CNC BORING AND MILLING MACHINE

AUTOMATIC PRODUCTION LINE

OPTIONS

Options for CNC turning center



- 01 Parts catcher
- 02 Bar feeder
- 03 Steady rest
- 04 Tool 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



Special spindle for HM

CNC LATHE

VERTICAL MACHINE CENTER

HORIZONTAL MACHINE CENTER

GANTRY/PORTAL MILLING CENTER

SPECIAL PURPOSE MACHINE

CNC BORING AND MILLING MACHINE

AUTOMATIC PRODUCTION LINE

OPTIONS