

CNC

EQUIPMENT CATALOGUE

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GROUP HEADQUARTER



CNC EQUIPMENT



Industrial Valves



Oil Equipment



Industrial Materials



Neway International Group Inc. (NIG) has developed into a worldwide famous machinery supplier with experience and support of 4 primary divisions—Neway CNC, Neway Oil Equipment, Neway Industrial Materials and Neway Valves. Neway Valve (stock code: 603699) and Neway CNC (stock code: 688697) are listed companies. 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, in order to achieve best efficiency of supply chain operation.

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, with the best quality of product and service.

Welcome to Neway CNC

Neway CNC 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

Products:

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

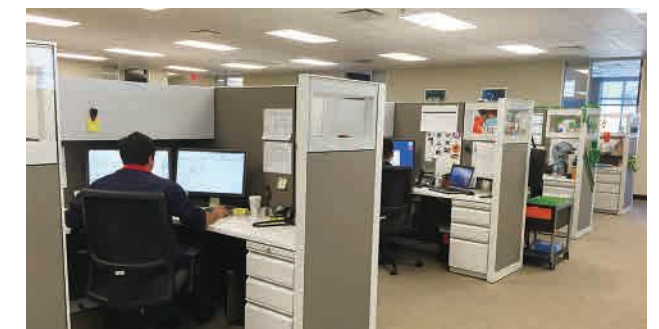


Neway Machine Tools Research Institute

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.

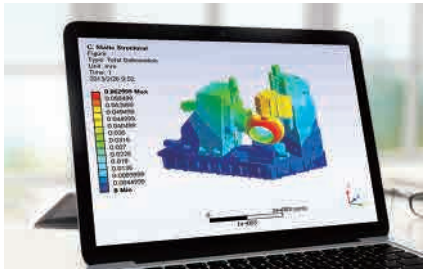
International Cooperative Support System ICSS

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

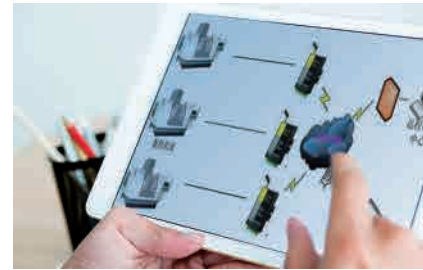
R&D designers make full use of Finite Element Analysis method and simulation technology of multibody dynamics theory in machine structure construction. When analyzing the dynamic and static properties and vibration characteristics of the structure; care is even taken to measure heating features of the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



• Finite element analysis



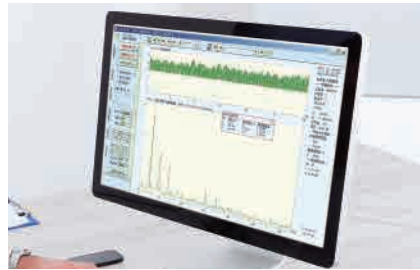
• Temperature analysis



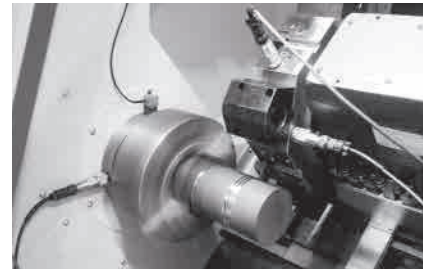
• Intelligent remote diagnosis



• 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.

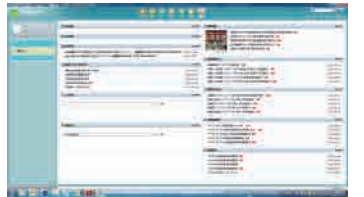


Digital Factory Operations Management

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.

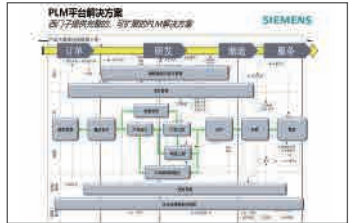
OA office system

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.



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

• VM assembly

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.



• HM assembly



• NL assembly



• PM assembly

World Class Mother Machines

Neway adopts world's top processing machine from a variety of countries. Swiss SIP boring and milling center, Swiss KELLENBERGER grinding machine – Swiss. Italian FAVRETTO grinding machine, German STARRAG HECKERT horizontal machine 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

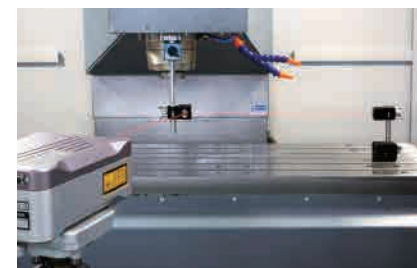
Neway continuously pursues advanced R&D technology and strict quality control, utilizing an English Renishaw laser interferometer, German Schenk dynamic spindle balancing instrument, German Mahr roundness measuring equipment, profile measuring device and roughness measuring equipment. We use Swedish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

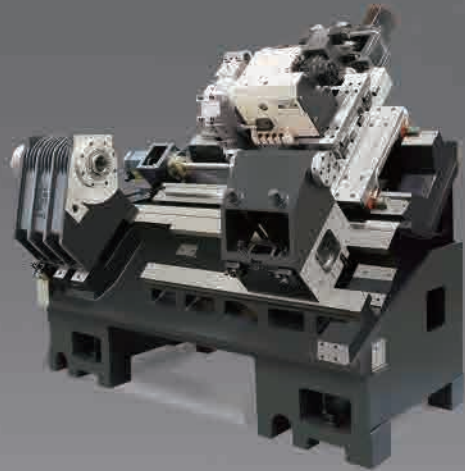
- 1 CNC machines full series**
Quality metal cutting machines
- 2 Processing plan**
Tell us what you need, and we' ll do the rest
- 3 Automated production line**
Increased throughput during or after hours utilizing "lights out" production
- 4 Intelligent Digitally Managed and Monitored factory**
IOT 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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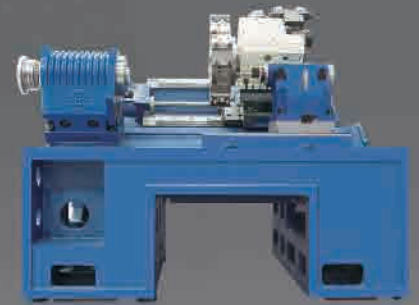
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NL series-
Roller guideway CNC horizontal lathe



NL series-
High efficiency CNC horizontal lathe



High performance CNC horizontal Lathe

Item	Unit	NL161E	NL201E	NL251HA	NL253HA	NL322HA	NL324HA	NL402HA	NL404HA	NL201EP	NL251HP	NL253HP
Max. swing over bed	mm	Φ500	Φ450	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650	Φ450	Φ550	Φ550
Max. swing over saddle	mm	Φ300	Φ230	Φ330	Φ370	Φ400	Φ400	Φ480	Φ480	Φ230	Φ330	Φ370
Max. turning diameter	mm	Φ320	Φ350	Φ360	Φ360	Φ430	Φ430	Φ510	Φ510	Φ350	Φ320	Φ320
Max. turning length	mm	320	445	435	810	565	1000	550	1000	445	435	810
Travel X/Z	mm	180/350	200/455	240/455	240/830	240/600	240/1100	280/600	280/1100	200/455	240/455	240/830
Rapid travel speed X/Z	m/min	30/30	24/30	24/30	24/30	24/30	24/30	24/30	24/30	30/36	30/36	30/36
Spindle motor power	kW	5.5/7.5	7.5/11	7.5/11	7.5/11	11/15	11/15	11/15	11/15	11/15	11/15	11/15
Max. spindle speed	r/min	6000	6000	5000	5000	3500(SA) 4000(HA)	3500(SA) 4000(HA)	3000(SA) 4000(HA)	3000(SA) 4000(HA)	4000	4000	4000
Spindle nose	ISO	A2-5	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6
Spindle bore	mm	6	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65	Φ65	Φ76	Φ76	Φ76
Hydraulic chuck	inch	8	6	8	8	8	8	10	10	8	8	8
Tool position	-	Φ56	8	8	8	8	8	8	8	8	12	12
Turning tool shank size	mm	20×20	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25
Boring tool holder diameter	mm	Φ32	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40
Tailstock quill diameter	mm	-	-	-	Φ100	Φ100	Φ100	Φ100	Φ100	-	-	Φ100
Tailstock quill travel	mm	-	-	-	100	100	100	100	100	-	-	100
Tailstock quill taper	Mose	-	-	-	Live center 5#					-	-	Live center 5#
Positioning accuracy (X/Z)	mm	0.006	0.006	0.006	0.006	0.008	0.008	0.01	0.01	0.006	0.006	0.006
Repeatability accuracy (X/Z)	mm	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
CNC system	-		NEWAY FANUC [SIEMENS]							NEWAY FANUC [SIEMENS]		
Auto chip conveyor	-	rear way	side way [rear way]							side way [rear way]		
Machine weight	kg	2600	3400	3500	4200	4200	4400	4400	4600	3400	3500	4200

[]Option

Item	Unit	NL161L	NL201L	NL251L	NL253L	NL322L	NL324L	NL402L	NL404L	NL635L
Max. swing over bed	mm	Φ500	Φ450	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650	Φ650
Max. swing over saddle	mm	Φ300	Φ240	Φ370	Φ370	Φ400	Φ400	Φ480	Φ480	Φ450
Max. turning diameter	mm	Φ320	Φ350	Φ360	Φ360	Φ430	Φ430	Φ510	Φ510	Φ630
Max. turning length	mm	320	420	410	810	565	1000	550	1000	1500
Travel X/Z	mm	180/350	200/430	240/430	240/830	240/600	240/1100	280/600	280/1100	350/1600
Rapid travel speed X/Z	m/min	30/30	24/30	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	11/15	11/15	11/15	11/15	15/18.5
Max. spindle speed	r/min	6000	6000	5000	5000	4000	4000	4000	4000	2000
Spindle nose	ISO	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	Φ65	Φ65	Φ65	Φ65	Φ87
Hydraulic chuck	inch	6	6	8	8	8	8	10	10	12
Tool position	-	8	8	8	8	8	8	8	8	8
Turning tool shank size	mm	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25	32×25
Boring tool holder diameter	mm	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ50
Tailstock quill diameter	mm	Servo tailstock								Φ130
Tailstock quill travel	mm	250	400	380	700	450	900	450	900	100
Tailstock quill taper	Mose	Live center 4#			Live center 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
Machine weight	kg	2600	3400	3500	4200	4200	4400	4400	4600	8000

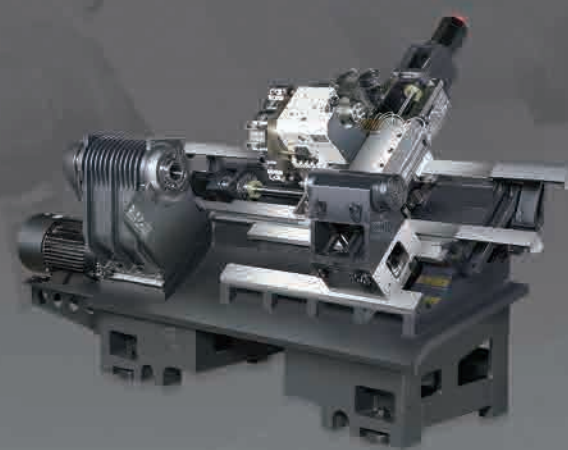
[]Option

CNC Lathe

Vertical
Machine CenterHorizontal
Machine CenterGantry
Machine CenterSpecial Purpose
MachineCNC Boring
and Milling MachineAutomatic
Production Line



NL series-
Built-in motor spindle CNC horizontal lathe



NL series-
Slider guideway CNC horizontal lathe

NL series-
Multi-axis horizontal turning center



Item	Unit	NL161V/LV	NL201V/LV	NL251V/LV	NL253V/LV
Max. swing over bed	mm	Φ500	Φ450	Φ550	Φ550
Max. swing over saddle	mm	Φ300	Φ230(V) Φ240 (LV)	Φ330(V) Φ370 (LV)	Φ330(V) Φ370 (LV)
Max. turning diameter	mm	Φ320	Φ350	Φ360	Φ360
Max. turning length	mm	320	420/355	410	810
Travel X/Z	mm	180/350	200/430(V) 200/360(LV)	240/430	240/830
Rapid travel speed X/Z	m/min	30/30	24/30	24/30	24/30
Spindle motor power	kW	11.6/14.4	11.6/14.4	11.6/14.4	11.6/14.4
Max. spindle speed	r/min	6000	6000	5000	5000
Spindle nose	ISO	A2-5	A2-5	A2-6	A2-6
Spindle bore	mm	Φ56	Φ56	Φ56	Φ56
Hydraulic chuck	inch	6	6	8	8
Tool position	-	8	8	8	8
Turning tool shank size	mm	20×20	25×25	25×25	25×25
Boring tool holder diameter	mm	Φ40	Φ40	Φ40	Φ40
Tailstock quill diameter	mm	-/Servo tailstock			
Tailstock quill travel	mm	- / 250	- / 400	- / 380	- / 700
Tailstock quill taper	Mose	- / Live center 4#		- / Live center 5#	
Positioning accuracy(X/Z)	mm	0.006	0.006	0.006	0.006
Repeatability accuracy(X/Z)	mm	0.004	0.004	0.004	0.004
CNC system	-	SIEMENS			
Auto chip conveyor	-	rear way	side way[rear way]		
Machine weight	kg	2600	3400	3500	4200

[] Option

Item	Unit	NL301Y	NL302Y	NL322M
Max. swing dia.	mm	Φ620	Φ620	Φ314
Max. turning dia.	mm	Φ300	Φ300	Φ314
Max. working length	mm	300	550	550
Spindle	Max. spindle speed	rpm	6000	4500
	Motor power	kW	11/15	11/15
	Spindle nose type	ISO	A2-6	A2-6
	spindle bore diameter	mm	Φ56	Φ66
	Max. bar capacity	mm	Φ44	Φ51
	Hydraulic chuck	inch	6	8
Sub-Spindle	Max. spindle speed	rpm	-	4500
	Motor power	kW	-	Built-in motor 22/25
	Spindle nose type	ISO	-	A2-6
	Spindle bore diameter	mm	-	Φ66
	Travel	mm	-	650
	Rapid travel speed	m/min	-	40
Travel X1/X2/Z1/Z2	Travel X1/X2/Z1/Z2	mm	210/400 (X/Z)	210/600/550 (X/Z1/Z2)
	Travel Y	mm	105(±52.5)	105(±52.5)
	Rapid travel speed X1/X2/Z1/Z2	m/min	30/30 (X/Z)	30/30/10 (X/Z1/Z2)
	Rapid travel speed Y	m/min	10	15
	Number of turret	Set	1	2
	Number of tools	Pc	12(BMT55)	12(BMT55)
Size of square tool shank	Size of square tool shank	mm	□25	□25
	Size of circular tool shank	mm	Φ32	Φ40
	Diameter of live tool shank	mm	ER25/Φ16	ER32/Φ20
	Max. speed of C axis	rpm	6000	5000
	Max. boring capacity	mm	Φ14×0.16	Φ16×0.2
	Max. threading capacity	mm	M10×1.5/M24×1	M10×1.5/M24×1
Max. slot boring capacity	Max. slot boring capacity	mm	Φ16×12×40	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	Auto chip conveyor	-	side way/rear way	
	Machine weight	kg	3800	4200

[] Option

Item	Unit	NL502SC/H	NL504SC/H	NL634SC	NL634SCZ	NL635SC	NL635SCZ	NL636SC	NL636SCZ	NL638SC/SCZ
Max. swing over bed	mm	Φ600	Φ600	Φ650	Φ650	Φ650	Φ650	Φ650	Φ650	Φ650
Max. swing over saddle	mm	Φ450	Φ450	Φ410	Φ410	Φ410	Φ410	Φ450	Φ450	Φ450
Max. turning diameter	mm	Φ500	Φ500	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630
Max. turning length	mm	500	1000	1000	1000	1500	1500	2000	2000	3000
Travel X/Z	mm	295/600	295/1100	330/1100	330/1100	330/1600	330/1600	350/2100	350/2100	350/3100
Rapid travel speed X/Z	m/min	12/16	12/16	8/12	8/12	8/12	8/12	8/12	8/12	8/10
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	18.5/22
Max. spindle speed	r/min	3000	3000	2000	1000	2000	1000	2000	1000	2000(SC) 1000(SCZ)
Spindle nose	ISO	A2-6	A2-6	A2-8	A2-11	A2-8	A2-11	A2-8	A2-11	A2-11
Spindle bore	mm	Φ65	Φ65	Φ87	Φ106	Φ87	Φ106	Φ102	Φ106	Φ102(SC) Φ106(SCZ)
Hydraulic chuck	inch	10	10	12	15	12	15	12	15	12(SC) 15(SCZ)
Tool position	-	8	8	8	8	8	8	8	8	12
Turning tool shank size	mm	25×25	25×25	32×25	32×25	32×25	32×25	32×25	32×25	32x32
Boring tool holder diameter	mm	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50	Φ50
Tailstock quill diameter	mm	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130	Φ130
Tailstock quill travel	mm	100	100	100	100	100	100	100	100	100
Tailstock quill taper	Mose	Live center 5#	Live center 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	0.016/0.050
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	0.007/0.020
CNC system	-	NEWAY FANUC [SIEMENS]								
Auto chip conveyor	-	side way[rear way]			side way					
Machine weight	kg	4300	4800	7500	7600	8000	8100	8800	8900	10000(SC) 10100(SCZ)

[] Option



NL series-
CNC horizontal turning center



NL series-
Gang tooling type CNC horizontal lathe



NL series-
CNC horizontal turning center

Item	Unit	NL161T	NL251T	NL253T	NL322T	NL324T	NL402T	NL404T	NL502T
Max. swing over bed	mm	Φ500	Φ550	Φ550	Φ570	Φ570	Φ650	Φ650	Φ600
Max. swing over saddle	mm	Φ300	Φ330	Φ370	Φ400	Φ400	Φ480	Φ480	Φ450
Max. turning diameter	mm	Φ240	Φ350 [Φ290]	Φ350[Φ290]	Φ320	Φ320	Φ400	Φ400	Φ430
Max. turning length	mm	320	395[325]	795[725]	475[500]	955[1000]	460[500]	1000[940]	500
Max. bar capacity	mm	Φ45	Φ45	Φ45	Φ51	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	11/15
Max. spindle speed	rpm	6000	5000	5000	4000	4000	4000	4000	3000
Spindle nose	ISO	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6
Spindle bore	mm	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65	Φ65	Φ65
Spindle taper	-	Mose 6#	Mose 6#	Mose 6#	Metric 80	Metric 80	Metric 80	Metric 80	Metric 80
Hydraulic chuck	inch	6	8	8	8	8	10	10	10
Tailstock quill diameter	mm	-	-	Φ100	Φ100	Φ100	Φ100	Φ100	Φ100
Tailstock quill travel	mm	-	-	100	100	100	100	100	100
Tailstock quill taper	Mose	-	-	Live center 5#	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	295/550
Rapid travel speed X/Z	m/min	30/30	24/30	24/30	24/30	24/30	24/30	24/30	12/16
Tool position	mm	12 (VDI 20)	12[VDI 30][BMT55]	12[VDI 30][BMT55]	12(BMT55)[VDI 40]	12(BMT55)[VDI 40]	12(BMT55)[VDI 40]	12(BMT55)[VDI 40]	12(BMT55)[VDI 40]
Max. living tool speed	rpm	4000	5000[6000]	5000[6000]	6000[5000]	6000[5000]	6000[5000]	6000[5000]	4000
Turning tool shank size	mm	16×16	20×20[25×25]	20×20[25×25]	25×25	25×25	25×25	25×25	25×25
Max. boring tool holder	mm	Φ16	Φ25[Φ32]	Φ25[Φ32]	Φ32	Φ32	Φ32	Φ32	Φ32
Max. drilling capacity	mm	Φ12×0.14	Φ14×0.15	Φ14×0.15	Φ14×0.16[Φ16×0.2]	Φ14×0.16[Φ16×0.2]	Φ14×0.16[Φ16×0.2]	Φ14×0.16[Φ16×0.2]	Φ14×0.16[Φ16×0.2]
Max. tapping capacity	mm	M8×1.5/M14×1	M10×1.5/M24×1	M10×1.5/M24×1	M10×1.5/M24×1 [M14×2/M20×1.5]	M10×1.5/M24×1 [M14×2/M20×1.5]	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
Max. milling capacity	mm	Φ12×8×45	Φ20×10×40	Φ20×10×40	Φ16×12×40 [Φ20×12×40]	Φ16×12×40 [Φ20×12×40]	Φ16×12×40 [Φ20×12×40]	Φ16×12×40 [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"	0.010/0.012/51"
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"	0.005/0.007/20"
CNC system	-	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]	sideway [rear way]
Machine weight	Kg	2600	3500	4200	4200	4400	4400	4600	4300

[]Option

NL504T	NL634T	NL635T	NL636T	NL638T	HL635T
Φ600	Φ650	Φ650	Φ650	Φ650	Φ720
Φ450	Φ410	Φ410	Φ450	Φ450	Φ530
Φ430	Φ540[Φ630]	Φ540[Φ630]	Φ540[Φ630]	Φ540[Φ630]	Φ630
1000	1000	1500	2000	3000	1500
Φ51	Φ89	Φ89	Φ89	Φ89	Φ89
11/15	15/18.5	15/18.5	15/18.5	15/18.5	Y18.5/30 △22/30
3000	2000	2000	2000	2000	2000
A2-6	A2-8	A2-8	A2-8	A2-11	A2-11
Φ65	Φ102	Φ102	Φ102	Φ102	Φ100
Metric 80	Metric 120	Metric 120	Metric 120	Metric 120	Metric 120
10	12	12	12	12	15
Φ100	Φ130	Φ130	Φ130	Φ130	Φ160
100	100	100	100	100	180
Live center 5#	5#	5#	5#	5#	5#
295/1050	355/1100	355/1600	355/2100	355/3100	425/1600
12/16	8/12	8/12	8/12	8/10	8/12
12(BMT55)[VDI 40]	12[VDI 40][BMT55]	12[VDI 40][BMT55]	12[VDI 40][BMT55]	12[VDI 50][BMT55]	12[VDI 50][BMT65]
4000	5000[6000]	5000[6000]	5000[6000]	5000[6000]	4000[6000]
25×25	25×25	25×25	25×25	25×25	32×25[25×25]
Φ32	Φ40[Φ32]	Φ40[Φ32]	Φ40[Φ32]	Φ40[Φ32]	Φ50[Φ40]
Φ14×0.16[Φ16×0.2]	Φ16×0.2[Φ14×0.16]	Φ16×0.2[Φ14×0.16]	Φ16×0.2[Φ14×0.16]	Φ16×0.2[Φ14×0.16]	Φ20×0.23[Φ16×0.2]
M10×1.5/M24×1 [M14×2/M20×1.5]	M14×2/M20×1.5 [M10×1.5/M24×1]	M14×2/M20×1.5 [M10×1.5/M24×1]	M14×2/M20×1.5 [M10×1.5/M24×1]	M14×2/M20×1.5 [M10×1.5/M24×1]	M18×2/M27×1.5 [M14×2/M20×1.5]
Φ16×12×40 [Φ20×12×40]	Φ20×12×40 [Φ16×12×40]	Φ20×12×40 [Φ16×12×40]	Φ20×12×40 [Φ16×12×40]	Φ20×12×40 [Φ16×12×40]	Φ22×25×40 [Φ16×12×40]
0.010/0.012/51"	0.012/0.016/51"	0.012/0.016/51"	0.016/0.040/51"	0.016/0.050/51"	0.012/0.016/51"
0.005/0.007/20"	0.006/0.008/20"	0.006/0.008/20"	0.007/0.020/20"	0.007/0.022/20"	0.006/0.008/20"
NEWAY FANUC [SIEMENS]					
sideway [rear way]	sideway	sideway	sideway	sideway	sideway
4800	7500	8000	8800	10000	13000

[]Option

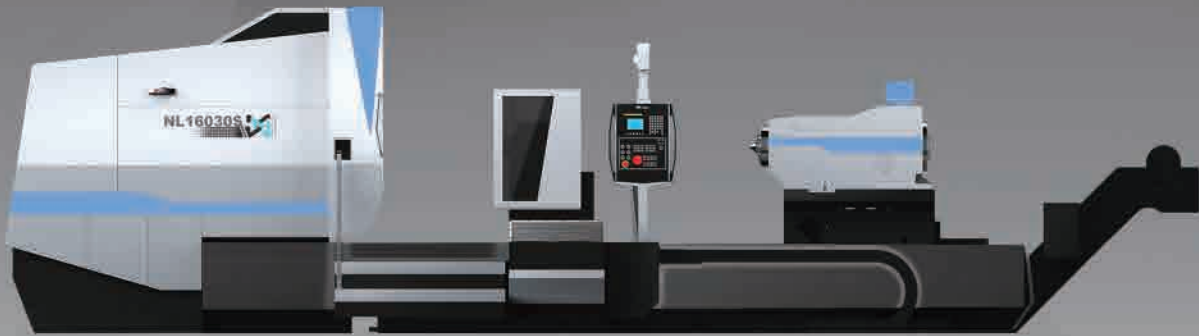
Item	Unit	NL201HG
Max. swing over bed	mm	Φ590
Max. swing over saddle	mm	Φ200
Max. turning diameter	mm	Φ200
Max. turning length	mm	350
Travel X/Z	mm	470/350
Rapid travel speed X/Z	m/min	30/30
Spindle motor power	kW	7.5/11
Max. spindle speed	r/min	6000
Spindle nose	ISO	A2-5
Spindle bore	mm	Φ56
Hydraulic chuck	inch	6
Tool position	-	1~6
Turning tool shank size	mm	20×20
Boring tool holder diameter	mm	Φ32
Tailstock quill diameter	mm	-
Tailstock quill travel	mm	-
Tailstock quill taper	Mose	-
Positioning accuracy (X/Z)	mm	0.006
Repeatability accuracy (X/Z)	mm	0.004
CNC system	-	NEWAY FANUC[SIEMENS]
Auto chip conveyer	-	side way[rear way]
Machine weight	kg	3000

[]Option

NL series-
Large size CNC horizontal lathe



NL series-
Heavy duty CNC horizontal lathe

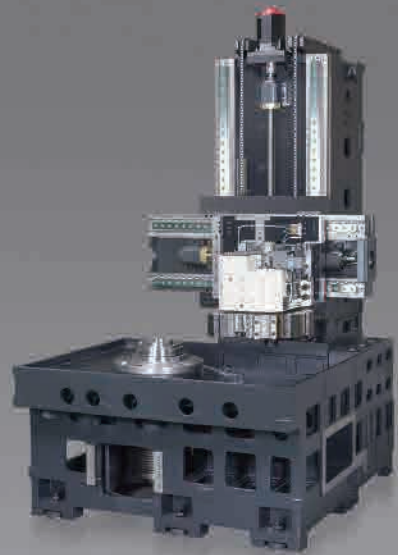


Item	Unit	NL8515SL	NL8530SL	NL8515S	NL8550S	NL10015S/H	NL10030S/H	NL10050S/H
Max. swing over bed	mm	Φ850	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max. swing over saddle	mm	Φ510	Φ510	Φ500	Φ500	Φ700	Φ700	Φ700
Max. turning diameter	mm	Φ800	Φ800	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max. turning length	mm	1500	3000	1500	5000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

[] Option

Item	Uint	NL12515S/H	NL12530S/H	NL12550S/H	NL16030S	NL16060S	NL20050S	NL20060S
Max. swing over bed	mm	Φ1250	Φ1250	Φ1250	Φ1600	Φ1600	Φ2200	Φ2200
Max. swing over saddle	mm	Φ950	Φ950	Φ950	Φ1300	Φ1300	Φ1800	Φ1800
Max. turning diameter	mm	Φ1250	Φ1250	Φ1250	Φ1300	Φ1300	Φ1600	Φ1600
Max. turning length	mm	1500	3000	5000	3000	6000	5000	6000
Max. workpiece weight	kg	6000	6000	6000	20000	20000	20000	20000
Spindle motor power	kW	22/25	22/25	22/25	55 (continuous)	55 (continuous)	55 (continuous)	55 (continuous)
Max. spindle speed	rpm	500	500	500	450	450	450	450
Spindle nose	ISO	A2-11/A2-15	A2-11/A2-15	A2-11/A2-15	A2-20	A2-20	A2-20	A2-20
Spindle bore	mm	Φ100/Φ130	Φ100/ Φ130	Φ100/ Φ130	Φ130	Φ130	Φ130	Φ130
Spindle torque	N.m	6370	6370	6370	22000	22000	22000	22000
Manual 4 jaw chuck	mm	Φ1000	Φ1000	Φ1000	Φ1400	Φ1400	Φ1800	Φ1800
Tool position	-	4	4	4	4	4	4	4
Turning tool shank size	mm	50×50	50×50	50×50	40×40	40×40	40×40	40×40
Tailstock quill diameter	mm	Φ160	Φ160	Φ160	Φ320	Φ320	Φ320	Φ320
Tailstock quill travel	mm	300	300	300	250	250	250	250
Tailstock quill taper	Mose	6#	6#	6#	100(Metric)	100(Metric)	100(Metric)	100(Metric)
Positioning accuracy (X/Z)	mm	0.012/0.020	0.012/0.035	0.012/0.050	0.05/0.08	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	-	SIEMENS [NEWAY FANUC]			SIEMENS			
Auto chip conveyer	-	Double chip collecting plate			Rear auto chip conveyer			
Machine weight	kg	14500	16500	19500	35000	420000	45000	48000

[] Option



VNL series-
CNC vertical lathe



VNL series-
CNC vertical lathe



Item	Unit	VNL40S/H	VNL50S/H	VNL65S/H	VNL80S/H	VNL80SK/HK	VNL125S/H	VNL125SK/HK
Max. swing over bed	mm	Φ620	Φ800	Φ900	Φ1000	Φ1000	Φ1500	Φ1500
Max. turning diameter	mm	Φ600	Φ780	Φ850	Φ1000	Φ1000	Φ1250	Φ1250
Max. cutting height	mm	460	600	700	800	600	1000	1000
Max. workpiece weight	kg	-	-	-	-	-	5000	5000
Travel X/Z	mm	350/500	520/620	520/750	520/880	700/700	800/620	800/620
Rapid travel speed X/Z	m/min	20/20	16/16	16/16	12/12	10/10	12/12	10/10(SK) 12/10(HK)
Spindle motor power	kW	18.5/22	18.5/22	24/30(S) 18.5/22(H)	24/30(S) 18.5/22(H)	24/30(S) 18.5/22(H)	30(continuous)	30(continuous)
Worktable diameter	mm	12"(hydraulic chuck)	15"(hydraulic chuck)	18"(hydraulic chuck)	21"(hydraulic chuck)	21"(hydraulic chuck)	Φ1000	Φ1000
Max. worktable speed	r/min	2000/2500	1500/2000	1500/2000	1500	1500	500	500
Max. worktable torque	N.m	572/730	840/730	2083/3650	2083/3650	2083/3650	9000	9000
Tool position	-	8(horizontal) [6(vertical)]	12(horizontal) [6(vertical)]	12(horizontal) [6(vertical)]	12(horizontal) [6(vertical)]	8(Tool magazine)	4(vertical)	8(Tool magazine)
Turning tool shank	mm	25×25	32×32	32×32	32×32	32×32	32×32	32×32
Driving type	-	hydraulic[electrical]				electrical		
Positioning accuracy(X/Z)	mm	0.008/0.012	0.008/0.012	0.008/0.012	0.012/0.015	0.015/0.015	0.02/0.02	0.02/0.02
Repeatability accuracy(X/Z)	mm	0.006/0.008	0.006/0.008	0.006/0.008	0.0075/0.010	0.010/0.010	0.015/0.015	0.015/0.015
CNC system	-	NEWAY FANUC [SIEMENS]						
Auto chip conveyer	-	rear way[sideway]	rear way[sideway]	rear way[sideway]	rear way[sideway]	rear way	side way	side way
Machine weight	kg	6000	10000	11000	12000	14000	16000	17000

[]Option

Item	Unit	VNL160S/H	VNL160SK/HK	VNL250S/H	VNL250SK/HK	VNL400SF/HF	VNL400S/H	VNL500S/H
Max. swing over bed	mm	Φ1800	Φ1800	Φ2750	Φ2750	Φ4000	Φ4000	Φ5000
Max. turning diameter	mm	Φ1600	Φ1600	Φ2500	Φ2500	Φ4000	Φ4000	Φ5000
Max. cutting height	mm	1600	1600	2000	2000	1000	2000	2000
Max. workpiece weight	kg	8000	8000	16000	16000	40000	40000	50000
Travel X/Z	mm	1040/800	1000/800	1820/1400	1420/1400	2265/1400	2265/1400	2765/1400
Rapid travel speed X/Z	m/min	12/12	10/10(SK) 12/10(HK)	9/9	9/9	6/6	6/6	6/6
Spindle motor power	kW	37 (continuous)	37 (continuous)	55 (continuous)	55 (continuous)	75 (continuous)	75 (continuous)	75 (continuous)
Worktable diameter	mm	Φ1250	Φ1250	Φ2250	Φ2250	Φ3600	Φ3600	Φ4500
Max. worktable speed	r/min	400	400	120	120	63	63	50
Max. worktable torque	N.m	14000	14000	40000	40000	125000	125000	160000
Tool position	-	4 (vertical)	12(Tool magazine)	1	12(Tool magazine)	1	1	1
Turning tool shank	mm	32×32	32×32	40×40	40×40	40×40	40×40	50×50
Driving type	-	electrica	electrica	-	electrica	-	-	-
Positioning accuracy(X/Z)	mm	0.020/0.020	0.020/0.020	0.030/0.030	0.030/0.030	0.030/0.030	0.030/0.030	0.030/0.030
Repeatability accuracy(X/Z)	mm	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015	0.015/0.015
CNC system	-	NEWAY FANUC [SIEMENS]						
Auto chip conveyer	-	side way	side way	[side way]	[side way]	[side way]	[side way]	[side way]
Machine weight	kg	25000	26000	42000	42000	55000	70000	80000

[]Option



VNL series-
CNC vertical turning center



VM series-
High efficiency CNC vertical machining center



Item	Unit	VNL50T	VNL65T
Max. swing over bed	mm	φ800	φ900
Max. turning diameter	mm	φ780	φ850
Max. cutting height	mm	500	700
Max. workpiece weight	kg	/	/
Travel X/Z	mm	520/620	520/750
Rapid travel speed X/Z	m/min	16/20	16/16
Spindle motor power	kW	18.5/22	18.5/22
Worktable diameter	inch/mm 15" (hydro chuck)	18" (hydro chuck)	
Max. worktable speed	r/min	2000	2000
Max. worktable torque	N·m	730	1302
No. of tools	-	12 (horizontal)	12 (horizontal)
Turning 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 accuracy (X/Z)	mm	0.008/0.012	0.008/0.012
Repeatability accuracy (X/Z)	mm	0.006/0.008	0.006/0.008
CNC system	-	NEWAY FANUC[SIEMENS]	
Chip conveyor	-	rear way[side way]	rear way[side way]
Machine weight	kg	10000	11000

[]Option

tem	Unit	VNL80T	VNL160T	VNL250T
Max. swing over bed	mm	φ1000	φ1800	φ2750
Max. turning dia.	mm	φ800	φ1600	φ2500
Max. cutting height	mm	600	1200	2000
Max. workpiece weight	kg	2000	8000	16000
Worktable diameter	mm	φ630	φ1600	φ2250
Max. worktable speed	rpm	20~600	1~65 66~260	0.0020~30 30~120
Live tool speed	rpm	1~2400	1~600 600~2400	1~600 600~2400
Max. worktable torque	Nm	3720	19000	40000
No. of tools (ATC)	Pc	12	16	12
Type of tools	mm	BT50	BT50	BT50
Ram size	mm	200×200	250×250	250×250
Max. tool size	-	280W×150T×380L		
Max. tool weight	kg	50	50	50
Max. tool load	kg	420	360	420
Tool change time (T to T)	Sec	45	45	45
Rapid travel speed X	m/min	10	12	9
Rapid travel speed Z	m/min	10	10	9
Cutting feedrate	mm/min	1~2000	1~2000	1~2000
Travel X	mm	-50~635	-100~+950	-20~1400
Travel Z	mm	600	900	1400
Travel of beam	mm	/	750	1250
Spindle motor power	kW	15*2	37/45	37*2
CNC system	-	NEWAY FANUC[SIEMENS]		
Dimension (length x width)	mm	4000×3350	5790×4470	9700×6500
Height	mm	4500	5300	7500
Machine weight	kg	12000	27000	42000

[]Option

Item	Unit	VM740SA/HA	VM1050S/H	VM1150S/H	VM1160S/H	VM1260S/H
Worktable size	mm	750×420	1000×520	1100×520	1100×600	1200×600
Max. worktable load	kg	350	650	750	750	800
Axis travel X/Y/Z	mm	650/420/500	850/520/560	1000/520/560	1000/600/560	1100/600/600
Spindle terminal to worktable	mm	120~620	150~710	150~710	150~710	140~740
Spindle center to column guideway	mm	485	580	590	659	649
Axis rapid travel speed X/Y/Z	m/min	40/40/30	36/36/36	36/36/30	36/36/30	36/36/30
Spindle motor power	kW	5.5/7.5	7.5/11 11/15	7.5/11 11/15	7.5/11 11/15	11/15
Max. spindle speed	rpm	10000(belt)	8000(belt)	8000(belt)	8000(belt)	8000(belt)
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.40 [7:24 taper NO.50]
Number of tools(disc type)	Pc	20	24	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	φ80/300/8	φ80/300/8	φ80/300/8	φ80/300/8	φ80/300/8
Tool change time T-T	s	1.7	1.8	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	φ30	φ40	φ40	φ40	φ45
Tapping (normalized carbon steel)	mm	M16	M20	M20	M20	M24
Milling (normalized carbon steel)	cm³/min	150	200	200	200	250
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005
CNC system	-	NEWAY FANUC [SIEMENS、Mitsubish]				
Auto chip conveyor	-	[rear way]	side way	side way	side way	side way
Machine weight	kg	4000	5800	6600	7000	7500

[]Option



VM series-
High efficiency CNC vertical machining center



VM series-
High speed CNC vertical machining center



Item	Unit	VM1370S/H	VM1580S/H	VM1780S/H	VM1880S/H
Worktable size	mm	1400×700	1500×800	1700×800	1800×800
Max. worktable load	kg	1100	1250	1500	1750
Axis travel X/Y/Z	mm	1300/700/700	1350/800/680	1500/800/680	1700/850/700
Spindle terminal to worktable	mm	120~820	150~830	150~830	140~840
Spindle center to column guideway	mm	773	868	868	900
Axis rapid travel speed X/Y/Z	m/min	24/24/20 (S) 30/30/24 (H)	24/24/20 (S) 30/30/24 (H)	24/24/20 (S) 30/30/24 (H)	24/24/20
Spindle motor power	kW	11/15	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	8000(belt)	6000(belt)	6000(belt)	6000(belt)
Spindle taper	-	7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
Number of tools(disc type)	Pc	24	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ110/350/15	Φ110/350/15	Φ110/350/15
Tool change time T-T	s	1.8	2.5	2.5	2.5
Drilling (normalized carbon steel)	mm	Φ45	Φ50	Φ50	Φ50
Tapping (normalized carbon steel)	mm	M24	M30	M30	M30
Milling (normalized carbon steel)	cm ³ /min	250	300	300	300
Positioning accuracy (X/Y/Z)	mm	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010
Repeatability accuracy (X/Y/Z)	mm	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006
CNC system	-	NEWAY FANUC [SIEMENS、Mitsubish]			
Auto chip conveyer	-	side way	side way	side way	side way
Machine weight	kg	9500	11000	13000	15000

[] Option

Item	Unit	VM740SL/HL	VM950SL/HL	VM1050SL/HL	VM1150SL/HL
Worktable size	mm	750×420	950×520	1000×520	1100×520
Max. worktable load	kg	350	500	550	600
Axis travel X/Y/Z	mm	650/420/500	850/520/560	850/520/560	1000/520/560
Spindle terminal to worktable	mm	120~620	120~680	152~680	120~680
Spindle center to column guideway	mm	485	575	580	575
Axis rapid travel speed X/Y/Z	m/min	48/48/48	40/40/30	48/48/48	40/40/30
Spindle motor power	kW	5.5/7.5	7.5/11	7.5/11	7.5/11
Max. spindle speed	rpm	12000(direct connection) [15000(direct connection)]			
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40
Spindle temperature	-	Oil cooler	Oil cooler	Oil cooler	Oil cooler
Number of tools(disc type)	Pc	20	24	24	24
Tool shank	-	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.7	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ30	Φ40	Φ40	Φ40
Tapping (normalized carbon steel)	mm	M16	M20	M20	M20
Milling (normalized carbon steel)	cm ³ /min	150	200	200	200
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005
CNC system	-	NEWAY FANUC [SIEMENS、Mitsubishi]			
Auto chip conveyer	-	[side way (rear)]	[side way (rear)]	side way	[side way (rear)]
Machine weight	kg	4000	5000	5800	6000

[] Option



VM series-
Industry specific vertical machining center



VM series-
Built-in motor spindle CNC vertical machining center



CNC Lathe

Vertical
Machine CenterHorizontal
Machine CenterGantry
Machine CenterSpecial Purpose
MachineCNC Boring
and Milling MachineAutomatic
Production Line

Item	Unit	VM740VG	VM1050VG	VM1260VG
Worktable size	mm	750×420	1000×520	1200×600
Max. worktable load	kg	350	650	800
Axis travel X/Y/Z	mm	650/420/500	850/520/560	1100/650/600
Spindle terminal to worktable	mm	120~620	150~710	140~740
Spindle center to column guideway	mm	485	580	690
Axis rapid travel speed X/Y/Z	m/min	48/48/48	40/40/36	36/36/30
Spindle motor power	kW	5.5/7.5	7.5/11	11/15
Max. spindle speed	rpm	12000(direct connection) [15000(direct connection)]	12000(direct connection) [15000(Built-In)]	
Spindle taper	-	7:24 taper NO.40		
Number of tools(disc type)	Pc	20(Cam type quick change ATC)	24(servo magazine tool)	
Tool shank	-	BT40	BBT40	BBT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.6	1.6	1.6
Drilling (normalized carbon steel)	mm	Φ30	Φ40	Φ45
Tapping (normalized carbon steel)	mm	M16	M20	M24
Milling (normalized carbon steel)	cm ³ /min	150	200	250
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005
CNC system	-	NEWAY FANUC [SIEMENS]		
Auto chip conveyer	-	side chip conveyer	Double spiral chip conveyer + side chip conveyer	
Machine weight	kg	4000	5800	7600

[]Option

Item	Unit	VM4550XC	VM4550XC(with swing milling head)
Worktable size	mm	4500×500	4500×500
Max. worktable load	kg	800/m	800/m
Axis travel X/Y/Z	mm	4500/500/600	4500/500/600 B axis(swing milling head) ±100°C
Spindle terminal to worktable	mm	120~720	120~720
Spindle center to column guideway	mm	714	714
Axis rapid travel speed X/Y/Z	m/min	50/30/30	50/30/30
Spindle motor power	kW	9/13.5	15/18.5
Max. spindle speed	rpm	12000(direct connection)	[14000(Built-In)]
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.40
Number of tools(disc type)	Pc	16	16
Tool shank	-	BT40	BBT40
Max. tool dia./length/weight	mm/mm/kg	Φ75/300/8	Φ75/300/8
Tool change time T-T	s	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ25	Φ25
Tapping (normalized carbon steel)	mm	M14	M14
Milling (normalized carbon steel)	cm ³ /min	100	100
Positioning accuracy (X/Y/Z)	mm	0.080/0.022/0.025	0.080/0.022/0.025
Repeatability accuracy (X/Y/Z)	mm	0.050/0.012/0.015	0.050/0.012/0.015
CNC system	-	SIEMENS	SIEMENS
Auto chip conveyer	-	side way	sde way
Machine weight	kg	12000	12000

[]Option

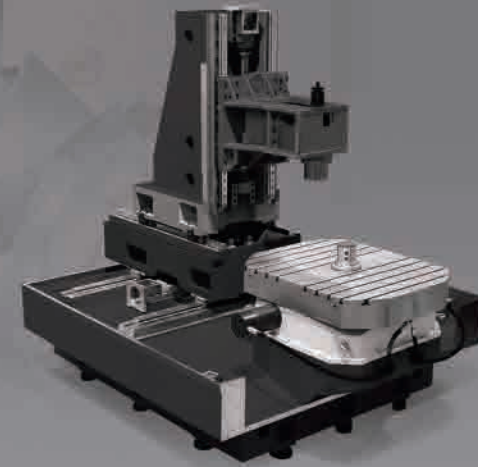
Item	Unit	VM950V	VM1050V	VM1150V	VM1160V	VM1260V	VM1580V	VM1780V
Worktable size	mm	950×520	1000×520	1100×520	1100×600	1200×600	1500×800	1700×800
Max. worktable load	kg	500	550	600	750	800	1250	1500
Axis travel X/Y/Z	mm	850/520/560	850/520/560	1000/520/560	1000/600/560	1100/600/600	1350/800/680	1500/800/680
Spindle terminal to worktable	mm	120～680	180～740	120～680	150～710	140～740	150～830	150～830
Spindle center to column guideway	mm	575	580	575	659	649	868	868
Axis rapid travel speed X/Y/Z	m/min	40/40/30	40/40/30	40/40/30	36/36/30	36/36/30	30/30/24	30/30/24
Spindle motor power	kW	15/18.5	18.5/22	15/18.5	15/18.5	15/18.5	18.5/26	18.5/26
Max. spindle speed	rpm	15000(built-in) [18000(built-in)] [24000(built-in)]	[18000(内藏式)]	15000(built-in) [18000(built-in)] [24000(built-in)]			15000(built-in) [18000(built-in)] [24000(built-in)]	
Spindle taper	-	7:24 taper NO.40 [1:10 taper HSK A63]	1:10 taper HSK A63	7:24 taper NO.40 [1:10 taper HSK A63]			7:24 taper NO.40 [1:10 taper HSK A63]	
Spindle temperature control	-	Oil cooler [water cooler]		Oil cooler [water cooler]			Oil cooler [water cooler]	
Number of tools(disc type)	Pc	24	24	24			24	
Tool shank	-	MAS403 BBT40 [HSK A63]	HSK A633	MAS403 BBT40 [HSK A63]			MAS403 BBT40 [HSK A63]	
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ25	Φ25
Tapping (normalized carbon steel)	mm	M12	M12	M12	M12	M12	M16	M16
Milling (normalized carbon steel)	cm ³ /min	80	80	80	80	80	120	120
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.012/0.010/0.010	
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.008/0.006/0.006	
CNC system	-	NEWAY FANUC [SIEMENS]						
Auto chip conveyer	-	[side way (rear)]	[side way]	[side way (rear)]	side way	side way	side way	side way
Machine weight	kg	5000	5800	6000	7000	7500	11000	13000

[]Option



VM series-
5 axis CNC vertical machining center

VM series-
Portal CNC vertical machining center



VM series-
Movable column CNC vertical machining center



Item	Unit	VM450F	VM650F
Worktable size	mm	φ450	φ650
Max. worktable load	kg	200	300
Axis travel X/Y/Z	mm	450/400/400	650/550/500
B/C axis rotating degree	°	±110°/360°	±110°/360°
Spindle terminal to worktable	mm	140~540	175~675
Axis rapid travel speed X/Y/Z	m/min	48/48/40	48/48/40
Spindle motor power	kW	10.6	15.5
Max. spindle speed	rpm	15000	18000
Spindle taper	-	7:24 taper NO.40	HSK A63
Number of tools(disc type)	Pc	30	30
Tool shank	-	MAS403 BT40	HSK A63
Max. tool dia./length/weight	mm/mm/kg	Φ76/300/8	Φ76/300/8
Tool change time T-T	s	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ30	Φ40
Tapping (normalized carbon steel)	mm	M16	M20
Milling (normalized carbon steel)	cm³/min	150	200
Positioning accuracy (X/Y/Z)	mm/sec	0.006/10"	0.006/10"
Repeatability accuracy (X/Y/Z)	mm/sec	0.004/5"	0.004/5"
CNC system	-	SIEMENS 840D sl	
Auto chip conveyor	-	side way	side way
Machine Weight	kg	8000	12000

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

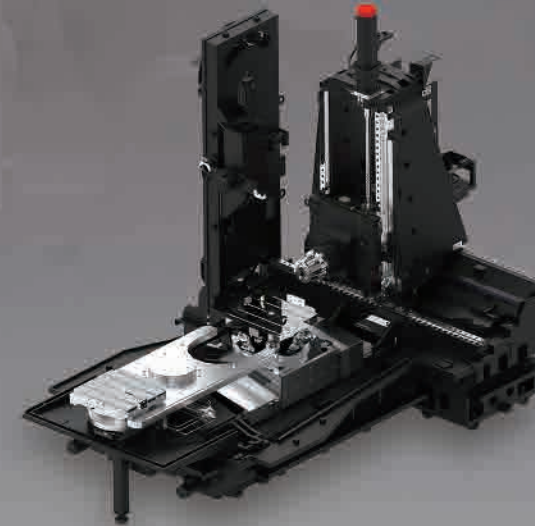
[]Option

Item	Unit	VM840T	VM960T
Worktable size	mm	800×440×2	960×600×2
Max. worktable load	kg	2-350	2-500
Worktable type	-	Two position hydraulic indexing worktable	Two position hydraulic indexing worktable
Axis travel X/Y/Z	mm	700/420/560	900/460/620
Spindle terminal to worktable	mm	200~760	230 ~ 850
Axis rapid travel speed X/Y/Z	m/min	30/30/20	30/30/20
Spindle motor power	kW	15/18.5	15/18.5
Max. spindle speed	rpm	6000	6000
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.40
Number of tools(disc type)	PC	24(disc type)	24(disc type)
Tool shank	-	MAS403 BT40	MAS403 BT40
Max. tool dia./length/weight	mm/mm/kg	Φ80/300/8	Φ80/300/8
Tool change time T-T	s	1.8	1.8
Drilling (normalized carbon steel)	mm	Φ50	Φ50
Tapping (normalized carbon steel)	mm	M27	M27
Milling (normalized carbon steel)	cm³/min	300	300
Positioning accuracy (X/Y/Z)	mm	0.008	0.008
Repeatability accuracy (X/Y/Z)	mm	0.005	0.005
CNC system	-	NEWAY FANUC	
Auto chip conveyor	-	side way	side way
Machine Weight	kg	11000	15000

[]Option



HE Series-
High speed horizontal machining center



HE Series-
High speed horizontal machining center



Item	Unit	HM50VS		HM50VD		HE50D	HE63S
		(BT40)	(BT50)	(BT40)	(BT50)		
Worktable size	mm	500×500		2-500×500		2-500×500	630×630
Max. worktable load	kg	500		500		500	1200
Worktable indexing	-	1°×360[0.001°×360000]		1°×360[0.001°×360000]		0.001°×360000	1°×360[0.001°×360000]
Worktable exchanging time	s	/		10		10	/
Worktable exchanging drive	-	/		hydraulic		hydraulic	/
Worktable max. rotate speed	r/min	10		10		10	16
Max. part diameter / height	mm	Φ800/800		Φ800/800		Φ800/800	Φ1050/1300
Axis travel X/Y/Z	mm	900/750/800		900/750/800		730/730/800	1050/900/1000
Spindle terminal to worktable	mm	140~940	100~900	140~940	100~900	70~870	140~1140
Spindle center to worktable surface	mm	65~815		50~800		100~830	120~1020
Axis rapid travel speed X/Y/Z	m/min	50		50		60	60
Spindle motor power	kW	11/15		11/15		15/18.5	18.5/22
Max. spindle speed	rpm	10000	6000	10000	6000	12000	4500
Spindle torque	N.m	70/95.4	140/191	70/95.4	140/191	104/191	649/770
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.50	7:24 taper NO.40	7:24 taper NO.50	7:24 taper NO.40	7:24 taper NO.50
Number of tools(disc type)	Pc	32	40	32	40	40(disc type)	40
Tool shank	-	MAS403 BT40	MAS403 BT50	MAS403 BT40	MAS403 BT50	MAS403 BT40	MAS403 BT50
Max. tool dia./length/weight	mm/mm/kg	Φ80/350/8	Φ125/450/25	Φ80/350/8	Φ125/450/25	Φ85/500/8	Φ125/530/25
Max. tool size (empty neighbor)	mm	Φ120	Φ250	Φ120	Φ250	Φ170	Φ250
Tool change time T-T	s	2.31	3.45	2.31	3.45	1.5	2.8s (≤25kg)/2.4s (≤15k g)
Drilling (normalized carbon steel)	mm	Φ30	Φ35	Φ30	Φ35	Φ50	Φ50
Tapping (normalized carbon steel)	mm	M20	M24	M20	M24	M36	M36
Milling (normalized carbon steel)	cm³/min	200	250	200	250	300	300
Positioning accuracy (X/Y/Z)	mm	0.010		0.010		0.010	0.010
Repeatability accuracy X/Y/Z)	mm	0.006		0.006		0.006	0.006
Positioning accuracy (B)	"	6		6		15	6
Repeatability accuracy (B)	"	2		2		6	2
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		12000	19000

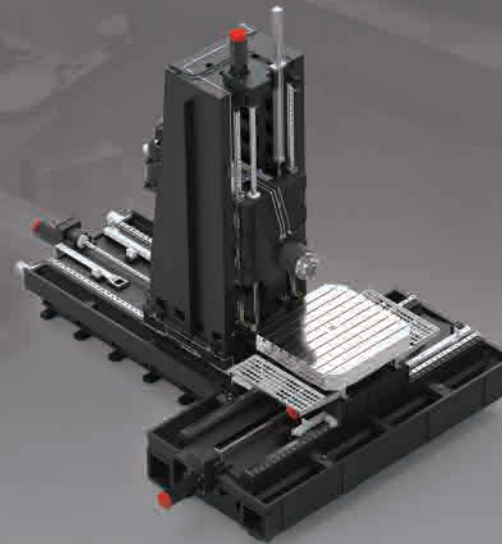
[] Option

Item	Unit	HE63D	HE80S	HE80D	HM100VS	HM100VD
Worktable size	mm	630×630	800×800	800×800	1000×1000	2-1000×1000
Max. worktable load	kg	1200	1500	1500	2000	
Worktable indexing	-	1°×360[0.001°×360000]				
Worktable exchanging time	S	16	/	16	/	25
Worktable exchanging drive	-	hydraulic	/	hydraulic	/	Servo motor
Worktable max. rotate speed	r/min	16	16	16	10	
Max. part diameter / height	mm	Φ1050/1300	Φ1250/1300	Φ1250/1300	Φ1300/1300	
Axis travel X/Y/Z	mm	1050/900/1000	1250/900/1100	1250/900/1100	1400/1020/1050	
Spindle terminal to worktable	mm	100~1100	140~1140	100~1200	250~1300	
Spindle center to worktable surface	mm	120~1020	120~1020	80~980	120~1140	80~1100
Axis rapid travel speed X/Y/Z	m/min	60	60	60	30	
Spindle motor power	kW	18.5/22	22/26	22/26	22/26	
Max. spindle speed	rpm	4500	4500	4500	4500	
Spindle torque	N.m	649/770	770/910	770/910	770/910	
Spindle taper	-	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50	
Number of tools(disc type)	Pc	40	40	40	40 (chain type)	
Tool shank	-	MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	Φ125/530/25	Φ125/530/25	Φ125/530/25	Φ125/500/35	
Max. tool size (empty neighbor)	mm	Φ250	Φ250	Φ250	Φ250	
Tool change time T-T	s	2.8s (≤25kg) / 2.4s (≤15kg)				5.5
Drilling (normalized carbon steel)	mm	Φ50	Φ55	Φ55	Φ60	
Tapping (normalized carbon steel)	mm	M36	M45	M45	M48	
Milling (normalized carbon steel)	cm³/min	300	300	300	900	
Positioning accuracy (X/Y/Z)	mm	0.010	0.010	0.010	0.010	
Repeatability accuracy X/Y/Z)	mm	0.006	0.006	0.006	0.006	
Positioning accuracy (B)	"	6	6	6	6	
Repeatability accuracy (B)	"	2	2	2	2	
CNC system	-	NEWAY FANUC [SIEMENS]				
Auto chip conveyor	-	Z axis with double helix + rear chain chip conveyor				
Machine weight	kg	20000	19000	21000	24000	27000

[] Option



HM Series-
Heavy cutting horizontal machining center



HM Series-
Heavy cutting horizontal machining center

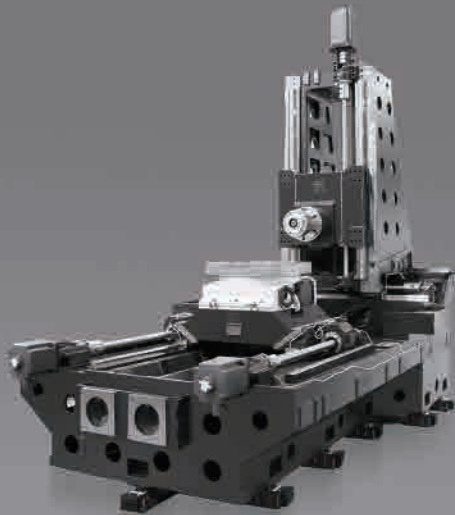


Item	Unit	HM50TS		HM50TD		HM63TS	HM63TD	HM6380TD
		(BT40)	(BT50)	(BT40)	(BT50)			
Worktable size	mm	500×500		2-500×500		630×630	2-630×630	2-630×800
Max. worktable load	kg	600		500		1200		2000
Worktable indexing	-	1°×360[0.001°×360000]		1°×360[0.001°×360000]		1°×360[0.001°×360000]		
Worktable exchanging time	s	/		12		/	20	50
Worktable exchanging drive	-	/		hydraulic		/	hydraulic	hydraulic
Worktable max. rotate speed	r/min	10		10		10		10
Max. part diameter / height	mm	φ630/700		φ630/700		φ1000/1000		φ1000/1000
Axis travel X/Y/Z	mm	750/650/650		750/600/650		1000/850/900		1000/850/900
Spindle terminal to worktable	mm	150~800	50~700	150~800	50~700	200~1100		200~1100
Spindle center to worktable surface	mm	120~770		100~700		80~930	80~930	0~850
Axis rapid travel speed X/Y/Z	m/min	30/20/30 [30/24/30]		30/20/30 [30/24/30]		20 [30]		20 [30]
Spindle motor power	kW	15/18.5 [11/15]		15/18.5 [11/15]		15/18.5 [18.5/22]		15/18.5 [18.5/22]
Max. spindle speed	rpm	8000	6000	8000	6000	4500		4500
Spindle torque	N.m	143/236 [140/191]		143/236 [140/191]		786/1050 [647/770]		786/1050 [647/770]
Spindle taper	-	7:24 taper NO.40	7:24 taper NO.50	7:24 taper NO.40	7:24 taper NO.50	7:24 taper NO.50		7:24 taper NO.50
Number of tools(disc type)	Pc	32 (disc type)	24 (disc type)	32 (disc type)	24 (disc typex)	40 (chain type)		40 (chain type)
Tool shank	-	MAS403 BT40	MAS403 BT50	MAS403 BT40	MAS403 BT50	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		φ125/500/25
Max. tool size (empty neighbor)	mm	φ150	φ250	φ150	φ250	φ250		φ250
Tool change time T-T	s	2.33	3.8	2.33	3.8	4.75		4.75
Drilling (normalized carbon steel)	mm	φ30	φ35	φ30	φ35	φ55		φ55
Tapping (normalized carbon steel)	mm	M20	M24	M20	M24	M45		M45
Milling (normalized carbon steel)	cm³/min	200	250	200	250	600		600
Positioning accuracy X/Y/Z	mm	0.010		0.010		0.010		0.010
Repeatability accuracy X/Y/Z	mm	0.006		0.006		0.006		0.006
Positioning accuracy (B)	"	6		6		6		6
Repeatability accuracy (B)	"	2		2		2		2
CNC system	-	NEWAY FANUC [SIEMENS]				NEWAY FANUC [SIEMENS]		
Auto chip conveyor	-	X axis double helix + sideway chain type chip conveye				Z axis double helix + X axis double chain type chip conveyer + sideway chain type chip conveye		
Machine weight	kg	12000		13000		18000	20000	21000

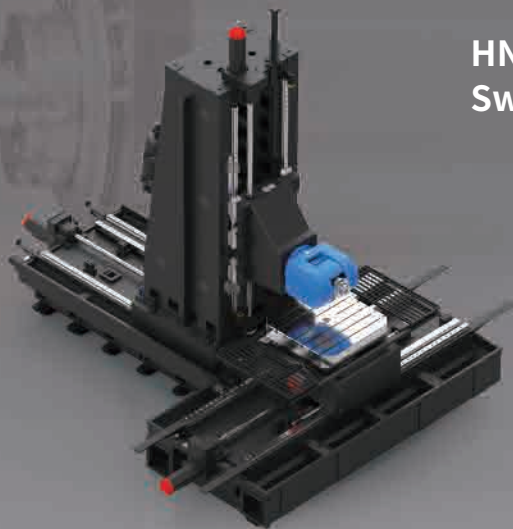
[] Option

Item	Unit	HM80TS	HM80TD	HM100TS	HM100TD	HM100TL	HM125TS	HM125TD	HM125TBS	HM125TBD
Worktable size	mm	800×800	2-800×800	1000×1000	2-1000×1000	1000×1000	1250×1250	2-1250×1250	1250×1250	2-1250×1250
Max. worktable load	kg	1600		2000		3000	4000		4000	
Worktable indexing	-	1°×360[0.001°×360000]								
Worktable exchanging time	s	/	25	/	25	/	/	90	/	90
Worktable exchanging drive	-	/	Servo motor	/	Servo motor	/	/	hydraulic	/	hydraulic
Worktable max. rotate speed	r/min	10		10		10	5.5		5.5	
Max. part diameter / height	mm	φ1200/1200		φ1300/1300		φ2000/2000	φ2000/2000	φ2000/1800	φ2000/2000	φ2000/1800
Axis travel X/Y/Z	mm	1400/1050/1050		1600/1100/1100		2100/1300/1300	2200/1500/1500		2200/1500/1500	2200/1500/1500 (w)
Spindle terminal to worktable	mm	250~1300		250~1350		300~1600	300~1800		300~1800	
Spindle center to worktable surface	mm	120~1170	0~1050	120~1220	0~1100	120~1420	120~1620		120~1620	
Axis rapid travel speed X/Y/Z	m/min	16 [24]		16 [24]		20	20		20/20/20/5	
Spindle motor power	kW	15/18.5 [22/26]		15/18.5 [22/26]		22/26	22/26		22/26	
Max. spindle speed	rpm	4500		4500		4500	4500		3500	
Spindle torque	N.m	786/1050 [770/910]		786/1050 [770/910]		1155/1365	1155/1365		1155/1365	
Spindle taper	-	7:24 taper NO.50		7:24 taper NO.50		7:24 taper NO.50	7:24 taper NO.50		7:24 taper NO.50	
Number of tools(disc type)	Pc	40 (chain type)		40 (chain type)		60 (chain type)	60 (chain type)		60 (chain type)	
Tool shank	-	MAS403 BT50		MAS403 BT50		MAS403 BT50	MAS403 BT50		MAS403 BT50	
Max. tool dia./length/weight	mm/mm/kg	φ125/400/25		φ125/400/25		φ125/600/35	φ125/600/35		φ125/600/35	
Max. tool size (empty neighbor)	mm	φ250		φ250		φ250	φ250		φ250	
Tool change time T-T	s	4.75		4.75		7.5	7.5		7.5	
Drilling (normalized carbon steel)	mm	φ55		φ60		φ70	φ70		φ70	
Tapping (normalized carbon steel)	mm	M45		M48		M50	M50		M50	
Milling (normalized carbon steel)	cm ³ /min	600		900		1000	1000		1000	
Positioning accuracy X/Y/Z	mm	0.010		0.010		0.015	0.015		0.015	
Repeatability accuracy X/Y/Z	mm	0.006		0.006		0.010	0.010		0.010	
Positioning accuracy (B)	"	6		6		6	6		6	
Repeatability accuracy (B)	"	2		2		2	2		2	
CNC system	-	NEWAY FANUC [SIEMENS]								
Auto chip conveyor	-	Z axis double helix + X axis double chain type chip conveyer + sideway chain type chip conveyer				Z axis double helix + X axis double chain type chip (Remark: HM125TBS/TBD boring bar diameter φ110)				
Machine weight	kg	20000	23000	21000	24000	34000	35000	38000	35000	38000

[] Option



HE Series-
High efficiency horizontal machining center



HN Series-
Swing head 5-axis horizontal machining center



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

[]Option

项目	单位	HM100TLU	HM125TU
Worktable size	mm	1000×1000	1250×1250
Max. worktable load	kg	2000	4000
Worktable indexing	-	0.001°×360000	0.001°×360000
Worktable exchanging time	S	/	/
Worktable exchanging drive	-	/	/
Worktable max. rotate speed	r/min	10	8
Max. part diameter / height	mm	Φ2000/2000	Φ2000/2000
Axis travel X/Y/Z	mm	2100/1300/1300	2200/1500/1500
A-axis rotation range	°	±105	±105
B-axis rotation range	°	±360	±360
Spindle terminal to worktable(horizontal)	mm	-280~1020	-280~1220
Spindle center to worktable surface(horizontal)	mm	120~1420	120~1620
Spindle terminal to worktable surface (vertical)		-160~1140	-160~1340
Spindle center to worktable(vertical)		0~1300	0~1500
Axis rapid travel speed X/Y/Z	m/min	20	20
Spindle motor power	kW	56/70	56/70
Max. spindle speed	rpm	15000	15000
Spindle torque	N.m	89/111	89/111
Spindle taper	-	HSK-A63	HSK-A63
Number of tools(disc type)	Pc	60(chain type)	60 (chain type)
Tool shank	-	HSK-A63	HSK-A63
Max. tool dia./length/weight	mm/mm/kg	Φ75mm/400mm/8kg	Φ75mm/400mm/8kg
Max. tool size (empty neighbor)	mm	Φ150	Φ150
Tool change time T-T	s	10	10
Drilling (normalized carbon steel)	mm	Φ30	Φ30
Tapping (normalized carbon steel)	mm	M20	M20
Milling (normalized carbon steel)	cm³/min	200	200
Positioning accuracy X/Y/Z	mm	0.015	0.015
Repeatability accuracy X/Y/Z	mm	0.01	0.01
Positioning accuracy (B)	"	10	10
Repeatability accuracy (B)	"	5	5
CNC system	-	NEWAY SIEMENS	NEWAY SIEMENS
Auto chip conveyer	-	Z axis double helix + X axis double chain type chip conveyer	
Machine weight	kg	34000	35000

[]Option

PM Series-
High-speed gantry machining center



PM Series-
High-speed gantry machining center



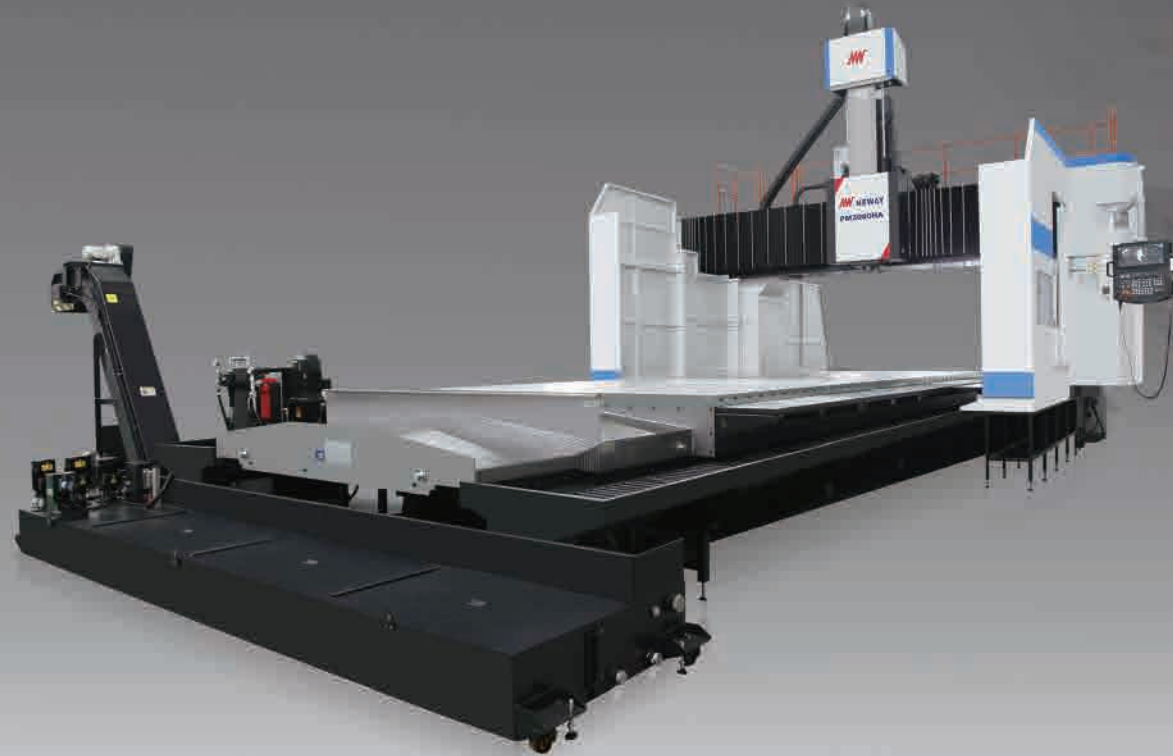
Item	Unit	PM1220HA	PM1230HA	PM1520HA	PM1530HA	PM1830HA	PM1840HA
Worktable width	mm	1200		1500		1800	
Worktable length	mm	2000	3000	2000	3000	3000	4000
Table load	kg	3500	5500	6000	7000	10000	12000
Worktable travel (X axis)	mm	2200	3200	2200	3200	3200	4200
Carriage travel (Y axis)	mm	1500 [1700]		1900		2700	
Ram travel (Z axis)	mm	800		800		800 [1000]	
Spindle terminal to worktable	mm	200~1000		200~1000		200~1000 [200~1200]	
Column span	mm	1400 [1600]		1800		2300	
Tool shank size	-	BT50		BT50		BT50	
Spindle speed	r/min	40~6000		40~6000		40~6000	
Max. output torque	N.m	788/1295		788/1295		525/647 [770/910]	
Spindle motor power	kW	15/18.5		15/18.5		15/18.5 [22/26]	
Ram section	mm	400×320		400×320		400×400	
X/Y/Z axis rapid travel speed	m/min	24/24/15	15/24/15	15/24/15	12/24/15	20/18/15	15/18/15
Tool position	-	24 [32/40/60]		24 [32/40/60]		[24/32/40/60]	
Max. tool dia./length/weight	mm/mm/kg	Φ110/350/15		Φ110/350/15		Φ105/350/15	
Max. tool diameter (empty neighbor)	mm	Φ200		Φ200		Φ200	
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.015/0.010	0.012/0.008	0.015/0.010	0.018/0.010	0.020/0.012
Y axis positioning /repeatability accuracy	mm	0.012/0.008		0.014/0.009		0.015/0.010	
Z axis positioning /repeatability accuracy	mm	0.012/0.008		0.014/0.009		0.015/0.010	
CNC system	-	NEWAY FANUC [SIEMENS]					
Machine weight	kg	19000	23000	21000	25000	30000	35000

[]Option

Item	Unit	PM2030HA	PM2040HA	PM2060HA	PM2080HA	PM2540HA	PM2560HA	PM2580HA	PM25100HA
Worktable width	mm	2000				2500			
Worktable length	mm	3000	4000	6000	8000	4000	6000	8000	10000
Table load	kg	16000	20000	26000	28000	22000	30000	35000	40000
Worktable travel (X axis)	mm	3200	4200	6200	8500	4200	6200	8500	10500
Carriage travel (Y axis)	mm	3200				3200	3700[4200]		
Ram travel (Z axis)	mm	1000 [800] [1250]				1000 [1250]			
Spindle terminal to worktable	mm	200~1200 [200~1000] [250~1500]				200~1200 [250~1500]			140~1140 [190~1440]
Column span	mm	2800 [3200]				2800 [3200]	3300 [3800]		
Tool shank size	-	BT50				BT50			
Spindle speed	r/min	40~6000 [Z axis1250:40~4500]				40~6000 [Z axis1250:40~4500]			
Max. output torque	N.m	770/910				770/910			
Spindle motor power	kW	22/26				22/26			
Ram section	mm	400×400 [Z axis1250:420×420]				400×400 [Z axis1250:420×420]			
X/Y/Z axis rapid travel speed	m/min	15/15/12	15/15/12	12/15/12	10/15/10	12/12/12	12/12/12	10/12/12	8/12/12
Tool position	-	[24/32/40/60]				[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15				Φ105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ200				Φ200			
X axis positioning /repeatability accuracy	mm	0.018/0.010	0.020/0.012	0.028/0.018	0.032/0.020	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.018/0.012				0.024/0.016			
Z axis positioning /repeatability accuracy	mm	0.015/0.010[Z axis1250:0.018/0.012]				0.015/0.010[Z axis1250:0.018/0.012]			
CNC system	-	NEWAY FANUC [SIEMENS]							
Machine weight	kg	41000	45000	55000	65000	50000	65000	85000	95000

[]Option

PM Series- High-speed gantry machining center



Item	Unit	PM3040HA	PM3060HA	PM3080HA	PM30100HA
Worktable width	mm	3000			
Worktable length	mm	4000	6000	8000	10000
Table load	kg	25000	35000	40000	45000
Worktable travel (X axis)	mm	4200	6200	8500	10500
Carriage travel (Y axis)	mm	4200[4600]			
Ram travel (Z axis)	mm	1250			
Spindle terminal to worktable	mm	250~1500			190~1440
Column span	mm	3800[4200]			
Tool shank size	-	BT50			
Spindle speed	r/min	40~6000[Z axis1250:40~4500]			
Max. output torque	N.m	770/910			
Spindle motor power	kW	22/26			
Ram section	mm	400×400 [Z axis1250:420×420]			
X/Y/Z axis rapid travel speed	m/min	12/12/12	12/12/12	10/12/12	8/12/12
Tool position	-	[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ200			
X axis positioning /repeatability accuracy	mm	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.028/0.018			
Z axis positioning /repeatability accuracy	mm	0.018/0.012			
CNC system	-	NEWAY FANUC [SIEMENS]			
Machine weight	kg	55000	70000	90000	100000

[]Option

PM Series- High-speed gantry machining center



Item	Unit	PM1320HC	PM1525HC	PM2030HC	PM2040HC	PM2060HC
Worktable width	mm	1300	1500	2000		
Worktable length	mm	2100	2600	3000	4000	6000
Table load	kg	3500	8000	14000	18000	24000
Worktable travel (X axis)	mm	2200	2700	3200	4200	6200
Carriage travel (Y axis)	mm	1500	1700	2700		
Ram travel (Z axis)	mm	800		1000		
Spindle terminal to worktable	mm	200~1000	200~1000	250~1250		
Column span	mm	1600	1800	2800		
Tool shank size	-	BT50		BT50		
Spindle speed	r/min	40~8000		40~6000		
Max. output torque	N.m	352/470		770/910		
Spindle motor power	kW	15/18.5		22/26		
Ram section	mm	400×395		400×400		
X/Y/Z axis rapid travel speed	m/min	24/24/15	15/24/15	15/20/15	15/20/15	15/20/15
Tool position	-	[24/32/40]		[24/32/40/60]		
Max. tool dia./length/weight	mm/mm/kg	Φ110/350/15		Φ105/350/15		
Max. tool diameter (empty neighbor)	mm	Φ200		Φ200		
X axis positioning /repeatability accuracy	mm	0.012/0.008		0.018/0.012	0.020/0.012	0.028/0.018
Y axis positioning /repeatability accuracy	mm	0.012/0.008		0.018/0.012		
Z axis positioning /repeatability accuracy	mm	0.012/0.008		0.015/0.010		
CNC system	-	NEWAY FANUC [SIEMENS]				
Machine weight	kg	19000	22000	36000	40000	48000

[]Option

PM Series-
High-speed direct drive spindle gantry machining center



PM Series-
Electric spindle gantry machining center



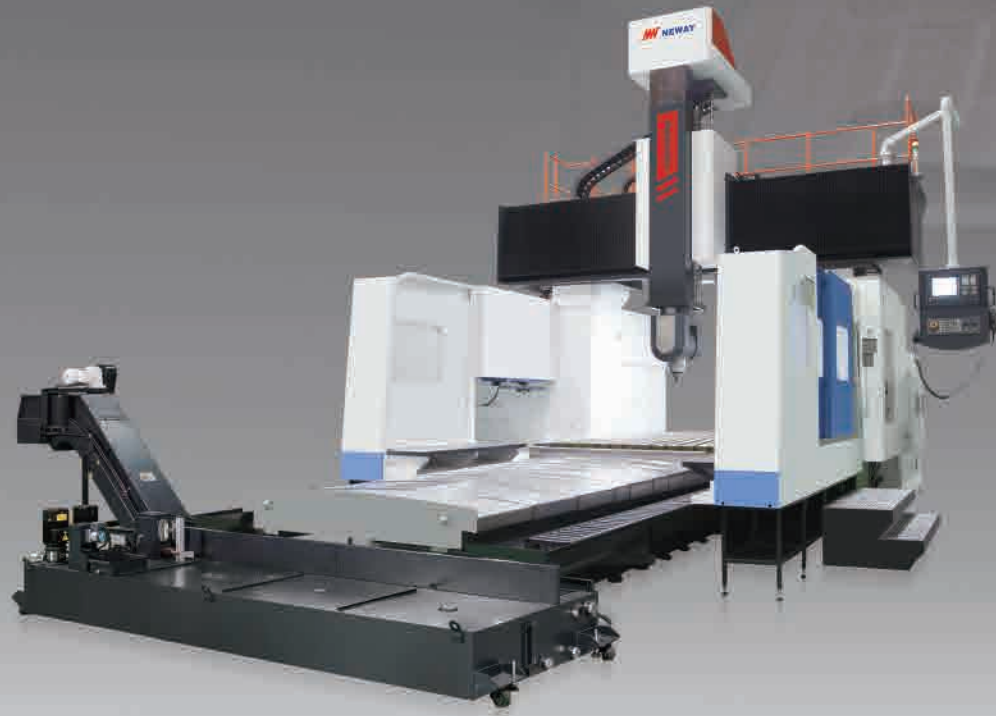
项目	单位	PM0813L	PM1320L	PM1330L	PM1525L	PM1830L	PM1840L	PM2040L	PM2060L
Worktable width	mm	1300			1500	1800		2000	
Worktable length	mm	900	2100	3100	2600	3000	4000	4000	6000
Table load	kg	1500	3500	8000	8000	10000	12000	20000	26000
Worktable travel (X axis)	mm	800	2200	3200	2700	3200	4200	4200	6200
Carriage travel (Y axis)	mm	1300			1500	2700		2700	
Ram travel (Z axis)	mm	700			700	800[1000]		1000	
Spindle terminal to worktable	mm	150~850			150~850	130~930 [130~1130]		180-1180	120-1120
Column span	mm	1400			1600	2300		2800	
Tool shank size	-	BT40			BT40	BT50 [BT40]		BT50 [BT40]	
Spindle speed	r/min	15000			15000	100~12000 [BT40:15000]		100~10000 [BT40:15000]	
Max. output torque	N.m	34/46			34/46	95/118[BT40:70/96]		140/165 [BT40:70/96]	
Spindle motor power	kW	11.7/15.8			11.7/15.8	15/18.5 [BT40:11/15]		22/26 [BT40:11/15]	
Ram section	mm	350×350			350×350	450×400		450×400	
X/Y/Z axis rapid travel speed	m/min	24/24/24	18/24/24		18/24/24	20/18/20	15/18/20	15/15/15	12/15/15
Tool position	-	[24/32]			[24/32]	[24/32/40/60]		[24/32/40/60]	
Max. tool diam./length/weight	mm/mm/kg	φ80/250/8			φ80/250/8	Φ105/350/15		Φ105/350/15	
Max. tool diameter (empty neighbor)	mm	/			/	φ200		φ200	
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.012/0.008	0.015/0.010	0.012/0.008	0.018/0.010	0.020/0.012	0.020/0.012	0.028/0.018
Y axis positioning /repeatability accuracy	mm	0.012/0.008			0.012/0.008	0.015/0.010		0.018/0.012	
Z axis positioning /repeatability accuracy	mm	0.012/0.008			0.012/0.008	0.015/0.010		0.015/0.010	
CNC system	-	SIEMENS 828D [NEWAY FANUC]				NEWAY FANUC [SIEMENS]			
Machine weight	kg	12000	18000	22000	22000	25000	28000	40000	50000

[]Option

Item	Unit	PM1220V	PM1230V	PM1520V	PM1530V	PM1830V	PM1840V	PM2040V	PM2060V
Worktable width	mm	1200		1500		1800		2000	
Worktable length	mm	2000	3000	2000	3000	3000	4000	4000	6000
Table load	kg	3500	5500	6000	7000	10000	12000	20000	26000
Worktable travel (X axis)	mm	2200	3200	2200	3200	3200	4200	4200	6200
Carriage travel (Y axis)	mm	1500		1900		2700		2700	
Ram travel (Z axis)	mm	800		800		800 [1000]		1000	
Spindle terminal to worktable	mm	110~910		110~910		200~1000 [200~1200]		250~1250	200~1200
Column span	mm	1400		1800		2300		2800[2300]	
Tool shank size	-	HSK-A63		HSK-A63		HSK-A63		HSK-A63	
Spindle speed	r/min	100~18000		100~18000		100~18000		100~18000	
Max. output torque	N.m	51.7/107		51.7/107		88.3/159		88.3/159	
Spindle motor power	kW	13/18.5		13/18.5		18.5/25		18.5/25	
Ram section	mm	400×320		400×320		450×400		450×400	
X/Y/Z axis rapid travel speed	m/min	24/24/15	15/24/15	15/24/15	12/24/15	20/18/20	15/18/20	15/15/15	12/15/15
Tool position	-	24[32/40/60]		24[32/40/60]		[24/32/40/60]		[24/32/40/60]	
Max. tool diam./length/weight	mm/mm/kg	Φ80/300/8		Φ80/300/8		Φ80/300/8		Φ80/300/8	
Max. tool diameter (empty neighbor)	mm	Φ150		Φ150		Φ150		Φ150	
X axis positioning /repeatability accuracy	mm	0.012/0.008	0.015/0.010	0.012/0.008	0.015/0.010	0.018/0.010	0.020/0.012	0.020/0.012	0.028/0.018
Y axis positioning /repeatability accuracy	mm	0.012/0.008		0.014/0.009		0.015/0.010		0.018/0.012	
Z axis positioning /repeatability accuracy	mm	0.012/0.008		0.012/0.008		0.015/0.010		0.015/0.010	
CNC system	-	NEWAY FANUC [SIEMENS]							
Machine weight	kg	18000	22000	20000	24000	25000	28000	40000	50000

[]Option

PM Series- High-speed 5 axis gantry machining center



Item	Unit	PM2040U	PM2060U	PM2560U	PM2580U
Worktable width	mm	2000		2500	
Worktable length	mm	4000	6000	6000	8000
Table load	kg	20000	26000	30000	35000
Worktable travel (X axis)	mm	4200	6200	6200	8500
Carriage travel (Y axis)	mm	3200		3700	
Ram travel (Z axis)	mm	1000[1250]		1000[1250]	
Spindle terminal to worktable	mm	200~1200[250~1500]		200~1200[250~1500]	
Column span	mm	2800		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 speed	m/min	15/15/15	12/15/15	12/12/12	10/12/12
Tool position	-	[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	φ80/350/8			
Max. tool diameter (empty neighbor)	mm	φ150			
X axis positioning /repeatability accuracy	mm	0.020/0.012	0.025/0.016	0.025/0.016	0.030/0.020
Y axis positioning /repeatability accuracy	mm	0.017/0.010		0.020/0.012	
Z axis positioning /repeatability accuracy	mm	0.012/0.008		0.012/0.008	
CNC system	-	SIEMENS [HEIDENHAIN]			
Machine weight	kg	45000	55000	65000	85000

[]Option

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



Item	Unit	PMB2040U	PMB2060U	PMB2540U	PMB2560U	PMB3060U
Worktable width	mm	2000		2500		3000
Worktable length	mm	4000	6000	4000	6000	6000
Table load	kg/m ²	5000		5000		5000
Worktable travel (X axis)	mm	4000	6000	4000	6000	6000
Carriage travel (Y axis)	mm	2300		2800		3300
Ram travel (Z axis)	mm	1000[1250][1500]		1000[1250][1500]		1000[1250][1500]
Spindle terminal to worktable	mm	300~1300[400~1650][150~1650]		300~1300[400~1650][150~1650]		300~1300[400-1650][150~1650]
Column span	mm	3200		3700		4200
Tool shank size	-	HSK-A63		HSK-A63		HSK-A63
Spindle speed	r/min	24000		24000		24000
Max. output torque	N.m	60/73		60/73		60/73
Spindle motor power	kW	37/46		37/46		37/46
A/C axis indexing degree	°	±105/±360		±105/±360		±105/±360
A/C axis positioning accuracy	degree/second	±5/±3		±5/±3		±5/±3
X/Y/Z axis rapid travel speed	m/min	25/25/25		25/25/25		25/25/25
Tool position	-	[12/24/32]		[12/24/32]		[12/24/32]
Max. tool dia./length/weight	mm/mm/kg	φ80/350/8		φ80/350/8		φ80/350/8
Max. tool diameter (empty neighbor)	mm	φ150		φ150		φ150
X axis positioning /repeatability accuracy	mm	0.020/0.012	0.030/0.020	0.020/0.012	0.030/0.020	0.030/0.020
Y axis positioning /repeatability accuracy	mm	0.016/0.010		0.020/0.012		0.025/0.016
Z axis positioning /repeatability accuracy	mm	0.012/0.008		0.012/0.008		0.012/0.008
CNC system	-	SIEMENS [HEIDENHAIN]				
Machine weight	kg	60000	70000	70000	90000	100000

[]Option

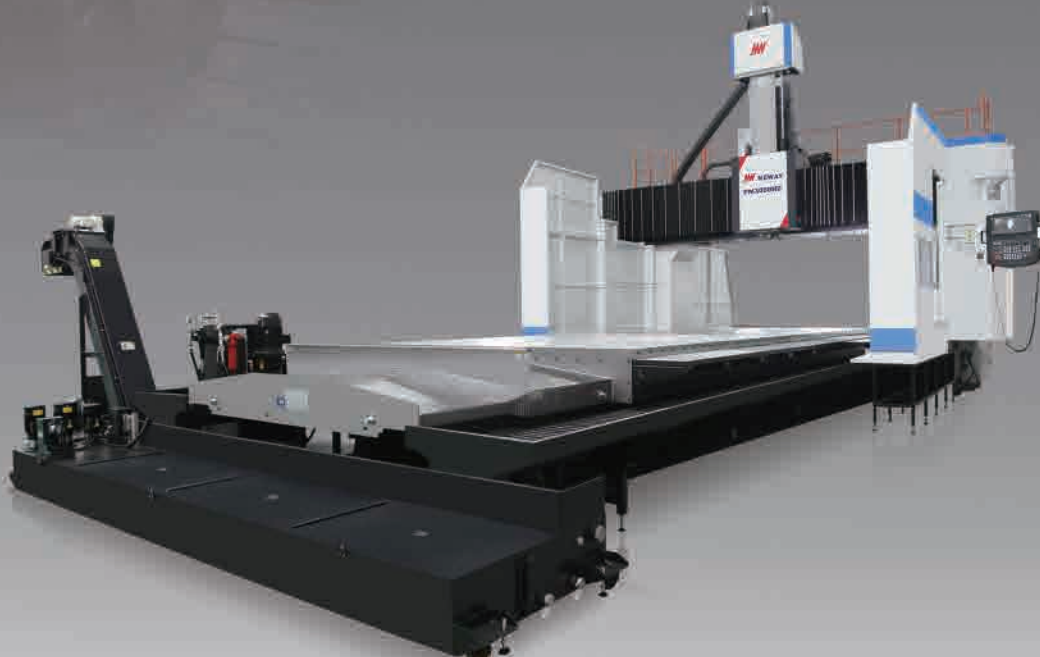
PM Series-
Heavy cutting gantry machining center



Item	Unit	PM2030HZ	PM2040HZ	PM2060HZ	PM2080HZ	PM2540HZ	PM2560HZ	PM2580HZ	PM25100HZ
Worktable width	mm	2000				2500			
Worktable length	mm	3000	4000	6000	8000	4000	6000	8000	10000
Table load	kg	16000	20000	26000	28000	22000	30000	35000	40000
Worktable travel (X axis)	mm	3200	4200	6200	8500	4200	6200	8500	10500
Carriage travel (Y axis)	mm	3200				3200	3700[4200]		
Ram travel (Z axis)	mm	1000 [1250]				1000 [1250]			
Spindle terminal to worktable	mm	200~1200 [250~1500]				200~1200 [250~1500]			140~1140[190-1440]
Column span	mm	2800 [3200]				2800 [3200]	3300 [3800]		
Tool shank size	-	BT50				BT50			
Spindle speed	r/min	40~3500				40~3500			
Max. output torque	N.m	1120/1320				1120/1320			
Spindle motor power	kW	22/26				22/26			
Cutting feed speed range	mm	420×420				420×420			
X/Y/Z axis rapid travel speed	m/min	15/15/10	15/15/10	12/15/10	10/15/10	12/12/10	12/12/10	10/12/10	8/12/10
Tool position	-	[24/32/40/60]				[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15				Φ105/350/15			
Max. tool diameter (empty neighbor)	mm	Φ200				Φ200			
X axis positioning /repeatability accuracy	mm	0.018/0.012	0.020/0.012	0.028/0.018	0.030/0.020	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.018/0.012				0.024/0.016			
Z axis positioning /repeatability accuracy	mm	0.015/0.010[Z axis 1250:0.01/0.012]				0.015/0.020[Z axis 1250:0.018/0.012]			
CNC system	-	NEWAY FANUC[SIEMENS]							
Machine weight	kg	41000	45000	55000	65000	52000	67000	87000	97000

[]Option

PM Series-
Heavy cutting gantry machining center



Item	Unit	PM3040HZ	PM3060HZ	PM3080HZ	PM30100HZ	PM30120HZ	PM30140HZ
Worktable width	mm	3000					
Worktable length	mm	4000	6000	8000	10000	12000	14000
Table load	kg	25000	35000	40000	45000	45000	45000
Worktable travel (X axis)	mm	4200	6200	8500	10500	12500	14500
Carriage travel (Y axis)	mm	4200[4600]					
Ram travel (Z axis)	mm	1250					
Spindle terminal to worktable	mm	250～1500			190-1440		
Column span	mm	3800[4200]					
Tool shank size	-	BT50					
Spindle speed	r/min	40～3500					
Max. output torque	N.m	1120/1320					
Spindle motor power	kW	22/26					
Cutting feed speed range	mm	420×420					
X/Y/Z axis rapid travel speed	m/min	12/12/10	12/12/10	10/12/10	8/12/10	8/12/10	8/12/10
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 /repeatability accuracy	mm	0.020/0.012	0.028/0.018	0.032/0.020	0.038/0.024	0.038/0.024	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.028/0.018					
Z axis positioning /repeatability accuracy	mm	0.018/0.012					
CNC system	-						
Machine weight	kg	57000	72000	92000	102000	112000	122000

[]Option

CNC Lathe

Vertical Machine Center

Horizontal Machine Center

Gantry Machine Center

Special Purpose Machine

CNC Boring and Milling Machine

Automatic Production Line

PM Series- Heavy cutting gantry machining center



PM Series- Movable column gantry machining center



Item	Unit	PM2560SC	PM2580SC	PM25100SC	PM3040SC	PM3060SC	PM3080SC	PM30100SC	PM30120SC	PM30140SC
Worktable width	mm	2500			3000					
Worktable length	mm	6000	8000	10000	4000	6000	8000	10000	12000	14000
Table load	kg	30000	35000	40000	25000	35000	40000	45000	45000	45000
Worktable travel (X axis)	mm	6200	8500	10500	4200	6200	8500	10500	12500	14500
Carriage travel (Y axis)	mm	3700 [4200]				4200 [4600]				
Ram travel (Z axis)	mm	1250 [1500]				1250 [1500]				
Spindle terminal to worktable	mm	250~1500 [300~1800]		190-1440[240-1740]	250~1500 [300~1800]			190~1440[240~1740]		
Column span	mm	3300 [3800]				3800 [4200]				
Tool shank size	-	BT50			BT50					
Spindle speed	r/min	40~2500			40~2500					
Max. output torque	N.m	1993/2458			1993/2458					
Spindle motor power	kW	30/37			30/37					
Ram section	mm	450×450			450×450					
A/C axis positioning accuracy	m/min	12/12/10	10/12/10	8/12/10	12/12/10	12/12/10	10/12/10	8/12/10	8/12/10	8/12/10
X/Y/Z axis rapid travel speed	-	[24/32/40/60]			[24/32/40/60]					
Max. tool dia./length/weight	mm/mm/kg	Φ105/350/15			Φ105/350/15					
Max. tool diameter (empty neighbor)	mm	Φ200			Φ200					
X axis positioning /repeatability accuracy	mm	0.028/0.018	0.032/0.020	0.038/0.024	0.020/0.012	0.028/0.018	0.032/0.020	0.028/0.024	0.038/0.024	0.038/0.024
Y axis positioning /repeatability accuracy	mm	0.024/0.016			0.028/0.018					
Z axis positioning /repeatability accuracy	mm	0.018/0.012[Z axis 1500: 0.020/0.012]			0.018/0.012[Z axis 1500: 0.020/0.012]					
CNC system	-	NEWAY FANUC[SIEMENS]								
Machine weight	kg	68000	88000	98000	58000	73000	93000	103000	113000	123000

[]Option

Item	Unit	PM30100MHZ	PM30120MHZ	PM30140MHZ	PM30160MHZ	PM30120MSC	PM30140MSC	PM30160MSC
Worktable width	mm	3000			3000			
Worktable length	mm	10000	12000	14000	16000	12000	14000	16000
Table load	kg/m ²	15000			15000			
Worktable travel (X axis)	mm	10500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)	12500+750 (chage head)	14500+750 (chage head)	16500+750 (chage head)
Carriage travel (Y axis)	mm	4600			4600			
Ram travel (Z axis)	mm	1250[1500]			1250[1500]			
Spindle terminal to worktable	mm	250~1500[300~1800]			250~1500[300~1800]			
Column span	mm	4200[4600]			4200[4600]			
Tool shank size	-	P50T-I (MAS403)			P50T-I (MAS403)			
Spindle speed	r/min	40~3500			40~2500			
Max. output torque	N.m	1120/1320			1993/2458			
Spindle motor power	kw	22/26			30/37			
A/C axis indexing degree	mm	420x420[450x450]			450×450			
A/C axis positioning accuracy	m/min	12/12/10			12/12/10			
X/Y/Z axis rapid travel speed	-	[24/32/40/60]			[24/32/40/60]			
Max. tool dia./length/weight	mm/mm/kg	Φ125/350/20			Φ125/350/20			
Max. tool diameter (empty neighbor)	mm	Φ225			Φ225			
X axis positioning /repeatability accuracy	mm	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.024	0.038/0.024	0.038/0.024	0.045/0.028
Y axis positioning /repeatability accuracy	mm	0.028/0.018			0.028/0.018			
Z axis positioning /repeatability accuracy	mm	0.018/0.012 [0.020/0.012]			0.018/0.012[0.020/0.012]			
CNC system	-	NEWAY FANUC [SIEMENS 828D]			NEWAY FANUC [SIEMENS 828D]			
Machine weight	kg	100000	110000	120000	130000	110000	120000	130000

[]Option

PM Series- Movable column gantry machining center



Item	单位	PM40100MSC	PM40120MSC	PM40140MSC	PM40160MSC
Worktable width	mm	4000			
Worktable length	mm	10000	12000	14000	16000
Table load	kg/m ²	15000			
Worktable travel (X axis)	mm	10500+750 (换头)	12500+750 (换头)	14500+750 (换头)	16500+750 (换头)
Carriage travel (Y axis)	mm	5200[5600]			
Ram travel (Z axis)	mm	1500			
Spindle terminal to worktable	mm	500~2000			
Column span	mm	5200[5600]			
Tool shank size	-	P50T-I (MAS403)			
Spindle speed	r/min	40-2500			
Max. output torque	N.m	1993/2458			
Spindle motor power	kW	30/37			
A/C axis indexing degree	mm	450×450			
A/C axis positioning accuracy	m/min	10/10/10			
X/Y/Z axis rapid travel speed	-	[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 /repeatability accuracy	mm	0.038/0.024	0.038/0.024	0.038/0.024	0.045/0.028
Y axis positioning /repeatability accuracy	mm	0.038/0.024			
Z axis positioning /repeatability accuracy	mm	0.021/0.014			
CNC system		NEWAY FANUC [SIEMENS 828D]			
Machine weight	kg	110000	125000	138000	150000

[]Option

HB Series CNC boring and milling machine



Item	Unit	HB110H	HB110U	HB110S
Worktable size	mm	1250×1400	1250×1400	1250x1250
Max. worktable load	kg	5000	5000	5000
T slot width	mm	28	28	28
Min. table indexing	°	0.001	0.001	0.001
Max. worktable rotate speed (B axis)	rpm	2	2	3
Worktable travel (X axis)	mm	1800	1800	1600
Spindle box travel (Y axis)	mm	1600	1600	1200
Column travel (Z axis)	mm	1400	1400	1200
Spindle axial travel (W axis)	mm	600	600	600
Facing head slider radial movement (U axis)	mm	/	200 (±100)	/
Worktable indexing (B axis)	°	360 (any angle)	360 (any angle)	360 (any angle)
Spindle center line to worktable	mm	0~1600	0~1600	0~1200
Spindle terminal to center line of worktable	mm	-25~1975	-130~1870	-25~1775
Rapid travel speed X/Y/Z/W/U	m/min	5/5/5/3	5/5/5/3/2.5	12/12/12/8
Max. cutting feed speed X/Y/Z/W/U	m/min	3/3/3/2	3/3/3/2/1	10/10/10/6
Boring shaft dia.	mm	Φ110	Φ110	Φ110
Milling shaft end dia.	mm	Φ221.44	/	Φ221.44
Spindle taper	-	BT50	BT50	BT50
Pull stud size	-	MAS403 P50T-1	MAS403 P50T-1	MAS403 P50T-1
Motor power	kW	15/18.5	15/18.5	15/18.5
Spindle speed	rpm	5~3000	5~1500	5~2500
Max. milling shaft torque	N.m	3000/3651(30min)	1480/1826(30min)	1205/1487(30min)
Max. boring shaft tensile	N	15000	15000	15000
Facing head dia.	mm	/	Φ670	/
Facing head speed	rpm	/	7-165	/
Facing head max. torque	N.m	/	2227/2742(30min)	/
Max. cutting feedrate (B axis)	rpm	1	1	1
Min. setting unit	mm	0.001	0.001	0.001
Positioning accuracy X/Y/Z/W/U	mm	0.02/0.02/0.02/0.02	0.02/0.02/0.02/0.03/0.03	0.015/0.015/0.015/0.02
Repeatability accuracy X/Y/Z/W/U	mm	0.015/0.015/0.015/0.015	0.015/0.015/0.015/0.025/0.025	0.01/0.01/0.01/0.015
Positioning accuracy B	"	10	10	10
Repeatability accuracy B	"	6	6	6
CNC system	-	NEWAY FANUC [SIEMENS]		
CNC coordinate axis number	-	5 axis four linkage	6 axis four linkage	5 axis four linkage
Auto chip conveyer (option)	-	Chain type chip conveyer (two sets) + coolant tank		
Tool magazine (option)	-	[40(chain)]	/	[40(chain)]
Machine power capacity	kVA	55	55	55
Air source/pressure	-	500L/min 6~8bar	500L/min 6~8bar	500L/min 6~8bar
Machine weight	kg	21000	21300	16000

[]Option

PB Series
CNC boring and milling machine



FB Series-
CNC floor type boring and milling machine



项目	单位	PB110H	PB130H	PB160H	PB130U	PB160U	PB130R	PB160R
Worktable size	mm	1400x1600	1600×1800 [2000x2000][2000x2500]	2000x2000 [2000x2500]	1600×1800 [2000×2000][2000×2500]	2000x2000 [2000x2500]	2000x2000 [2000x2500]	2500x3000 [3000×3000][3000×3500]
Max. worktable load	kg	8000	15000 [25000]	15000 [25000]	15000 [25000]	15000 [25000]	25000	40000
T slot width	mm	22/28	28	28	28	28	28	28
Min. table indexing	-	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
Max. worktable rotate speed (B axis)	r/min	1.5	2	2	2	2	1.5	1.25
Worktable travel (X axis)	mm	2500	3000 [4000]	3000 [4000]	3000 [4000]	3000 [4000]	3000[4000]	3000 [4000][6000]
Spindle box travel (Y axis)	mm	2000	2000 [2500]	2000 [2500]	2000 [2500]	2000 [2500]	2000[2500][3000]	3000 [4000]
Column travel (Z axis)	mm	1500	1600	1600	1600	1600	2000	2000
Spindle axial travel (W axis)	mm	/	/	/	/	/	1000	1000
Facing head slider radial movement (U axis)	mm	600	800	900	800	900	800	800
Worktable indexing (B axis)	mm	/	/	/	300 (±150)	300 (±150)	/	/
Spindle ccenter line to worktable	°	360	360	360	360	360	360	360
Spindle terminal to center line of worktable	mm	0-2000	0~2000	0~2000	30~2030	30~2030	300~2300	300~3300
Rapid travel speed X/Y/Z/W/U	mm	100~2200	100~2500	-150~2350	-50~2350	-150~2350	/	/
Max. cutting feed speed X/Y/Z/W/U	m/min	10/10/10/-/4/-	10/10/10/-/4/-	10/10/10/-/4/-	10/10/10/-/4/2	10/10/10/-/4/2	10/10/10/10/10	10/10/10/10/10
Boring shaft dia.	m/min	6/6/6/-/2/-	6/6/6/-/2/-	6/6/6/-/2/-	6/6/6/-/2/1	6/6/6/-/2/1	8/8/8/8/8	8/8/8/8/8
Milling shaft end dia.	mm	Φ110	Φ130	Φ160	Φ130	Φ160	Φ130	Φ160
Spindle taper	mm	Φ221.44	Φ221.44	Φ260	/	/	Φ221.44	Φ260
Pull stud size	-	BT50	BT50	BT50	BT50	BT50	BT50	BT50
Motor power	-	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I
Spindle speed	kW	18.5/22	22/30	30/37 [45/55]	22/30	30/37	31/37	44/51
Max. milling shaft torque	rpm	10~2500	10~2500	10~2000	10~1500	10~1500	10~3000	10~2500
Max. boring shaft tensile	N.m	2150/2590	2837/3868	2553/3063[3831/4597]	2600/3120	2677/3302	2827/3374	3080/3696
Facing head dia.	N	15000	25000	25000	25000	25000	25000	25000
Facing head speed	mm	/	/	/	Φ800	Φ800	/	/
Facing head max. torque	rpm	/	/	/	5~150	5~150	/	/
Max. cutting feedrate (B axis)	N.m	/	/	/	5000	5000	/	/
Min. setting unit	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Positioning accuracy X/Y/Z/W/U	mm	0.025/0.02/0.02/-/0.025						0.025/0.14/0.014/0.011/0.025
Repeatability accuracy X/Y/Z/W/U	mm	0.017/0.015/0.015/-/0.018						0.017/0.007/0.007/0.007/0.018
Positioning accuracy B	-	10"	10"	10"	10"	10"	10"	10"
Repeatability accuracy B	-	6"	6"	6"	6"	6"	6"	6"
CNC system	-	NEWAY FANUC [SIEMENS]						SIEMENS SIEMENS
CNC coordinate axis number	-	5 axis four linkage			6 axis four linkage		6 axis four linkage	
Auto chip conveyer (option)	-	chain plate	chain plate	chain plate	chain plate	chain plate	chain plate	chain plate
Tool magazine (option)	-	[40(chain)/60(chain)]			/	/	[40(chain)/60(chain)]	
Machine power capacity	kVA	80	80	88	80	88	90	103
Air source/pressure	-	500L/min 6~8bar						
Machine weigh	kg	about30000	about40000	about42000	about40000	about42000	about55000	about65000

[]Option

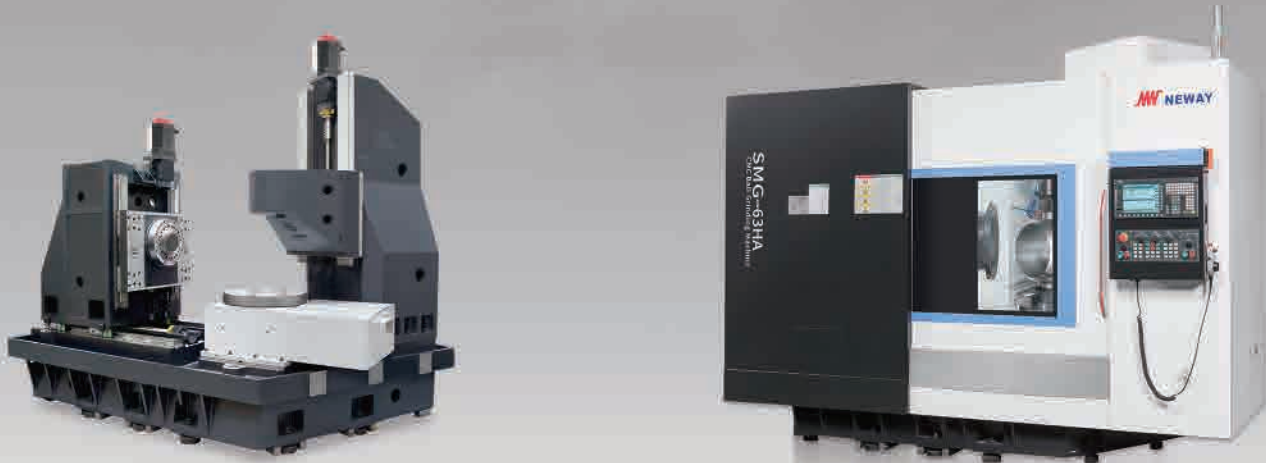
Item	Unit	FB130P	FB160P	FB130HC	FB160HC
Column travel X	mm	6000[It can increase 1000 by 1000]			
Spindle box travel Y	mm	2000[2500]	2000[2500][3000]	2000[2500][3000]	3000[4000]
Column travel Z	mm	/	/	1000	1000
Spindle axial travel W	mm	800	900	800	800
Rapid travel speed X/Y/Z/W	m/min	10/10/6	10/10/6	15/10/10/10	15/10/10/10
Max. cutting feed speed X/Y/Z/W	m/min	6/6/2	6/6/2	8/8/8/8	8/8/8/8
Boring shaft dia.	mm	Φ130	Φ160	Φ130	Φ160
Milling shaft end dia.	mm	Φ221.44	Φ260	Φ221.44	Φ260
Ram section	mm	/	/	450×450	450×450
Spindle taper	-	BT50	BT50	BT50	BT50
Pull stud size	-	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I	MAS403 P50T-I
Motor power	kW	22/30	30/37[45/55]	31/37	44/51
Spindle speed	rpm	10~2500	10~2000	10~3000	10~2500
Max. milling shaft torque	Nm	2837/3868	2553/3063[3831/4597]	2827/3374	3080/3572
Max. boring shaft tensile	N	25000	25000	25000	25000
Max. worktable load (option)	kg	[25000]	[40000]	[25000]	[40000]
Worktable size	mm	2000×2000[2000×2500]	2500×3000[3000×3000]	2000×2000[2000×2500]	2500×3000[3000×3000]
T slot width	mm	28	28	28	28
Min. setting unit		0.001°	0.001°	0.001°	0.001°
Worktable travel V		2000	2000	2000[3000]	2000[3000]
Workable travel B		360°	360°	360°	360°
Rapid travel speed V	m/min	10	10	10	10
Rapid travel speed B	rpm	1.5	1.25	1.5	1.25
Positioning accuracy X/Y/Z/W/V	mm	0.04/0.02/0.025/0.02	0.04/0.02/0.025/0.014	0.026/0.014/0.011/0.025/0.02	0.032/0.017/0.011/0.025/0.014
Repeatability accuracy (X/Y/Z/W/V)	mm	0.023/0.015/0.018/0.015	0.023/0.015/0.018/0.007	0.015/0.014/0.007/0.018/0.015	0.019/0.009/0.007/0.018/0.007
Positioning accuracy B	"	10	10	10	10
Repeatability accuracy B	"	6	6	6	6
CNC system	-	NEWAY FANUC [SIEMENS]		SIEMENS	
CNC coordinate axis number	-	5 axis four linkage [Optional rotary table]		6 axis four linkage [Optional rotary table]	
Auto chip conveyer	-	chain plate	chain plate	chain plate	chain plate
Tool magazine (option)	-	[40(chain)/60(chain)]			
Machine power capacity	kVA	80	80	92	105
Air source/pressure	-	500L/min 6~8bar	500L/min 6~8bar	500L/min 6~8bar	500L/min 6~8bar
Machine weight	kg	about45000	about50000	about73000	about88000

[]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



Item	Unit	SMG32H	SMG63HA	SMG100H	SMG240H
Work range O.D	mm	SΦ75~320	SΦ320~630	SΦ630-1100	SΦ900-2400
Work range I.D	inch	2"~8"	8"~16"	16"~28"	24"~64"
Grinding wheel spindle motor power	kW	15	15/18.5	28	80
Grinding wheel spindle torque	N.m	96	98	267	1910
Grinding wheel max. spindle speed	rpm	6000	2700	1500	500
Workpiece turn spindle motor power	kW	3.7	5.5	7.5	55
Workpiece turn spindle torque	N.m	24	36	49	709.8
Workpiece turn spindle max. speed	rpm	60	30	15	10
Travel Y/Z	mm	200/500	200/500	400/900	800/2000
Rapid travel speed Y/Z	m/min	18/20	18/20	16/16	6/4
Positioning accuracy (Y/Z)	mm	0.008/0.008	0.008/0.008	0.011/0.016	0.020/0.016
Repeatability accuracy (Y/Z)	mm	0.004/0.004	0.004/0.004	0.006/0.009	0.012/0.009
CNC controller	-	SIEMENS [NEWAY FANUC]		SIEMENS	
Machine weight	kg	6000	7500	22000	85000

[]Option

FMS series CNC automatic production line

Automatic line for processing engine box
Machine: HE63S+HE100A

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



Automatic line for oil processing path valve
Machine: choose machine tool HM50TD+VM1160H

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



Automatic line for processing flywheel shell

Machine: VM1370H+VNL80S+HE63VS

Workpiece name: flywheel housing
Workpiece material: aluminum alloy



Mixed processing automatic line

Machine: VM950SL+NL201HG+NL201H

Workpiece name: input shaft
Workpiece material: 45# steel



Automatic line for processing box bonet

Machine: VM950S+VM1150S

Workpiece name: automobile engine shell
Workpiece material: magnesium alloy



Claw pole processing automatic line

Machine: NL201HA

Workpiece name: generator claw pole
Workpiece material: QD08 forging



CNC Lathe

Vertical
Machine Center

Horizontal
Machine Center

Gantry
Machine Center

Special Purpose
Machine

CNC Boring
and Milling Machine

Automatic
Production Line