NEWAY

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NEWAY
纽威数控装备

CATALOGUE

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Group Profile

Neway International Group Inc. develops into an internationally well-known machinery supplier worldwide with 4 sub-branches - CNC machines, oil field equipment, industrial materials and industrial valves after 18 years of continuous endeavor by Newayers. With the help of advanced ERP management system and barcode management technology, the company sets up management structure controlling global factories, departments and product chains.

NIG invests 9 companies in China (staff 3800); 6 sole-capital or joint-capital enterprises in US, Europe, Middle East and South Africa, product and spare parts warehouse, sales offices in important cities in China and main industrial countries and establishes strategy partnership with more than 100 overseas agencies and distributors.

NIG is an independent creative enterprise with central management over sales work, development, manufacture and personnel all over the world. The group sets up two development centers in China for valves and CNC machine tools with 600 staff including 300 experienced senior research and development engineers. Some of them receive regular government subsidy for senior high tech engineer.

Neway's target future expectation is to become a global machinery manufacturer or even a leading company in the world machinery industry.

Introduction to Neway CNC

Neway CNC, invested by the group company $150 million capital, is situated in Suzhou High Development Zone equipped with constant temperature assembly workshop. The workshop covers 200000 square meter land.

The company imported from Europe top quality portal million machine, coordinate boring machine, horizontal miller, universal miller, guideway miller as machine tools; coordinate machines, laser interferer, dynamic balancer and spindle temperature raise test platform etc. as inspection machine. The company is managed with help of SAP system for the aim of producing quality products for customers with zero defects.

Factory area: 200,000 square meters

Investment: USD 150 million

Products:

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

Neway Machine Tools Research Institute

Neway machine tools research institute is supported by more than 100 national first class R&D engineers and within 5 years, the number shall reach 300. Numerous engineers enjoy special government subsidy and publish important essays on national and international publications. The institute consists of 7 R&D departments: 5 mechanical, 1 electrical and 1 documentary. All parts are designed in 3D format and optimized by ANSYS finite analysis before entering into SAP system.

US and German Development and Research Centers

German Research Center (Neway CNC Europe) and US Research Center (Neway CNC North America) take the job to help Suzhou center developing performance and characteristic design for international customers and to meet the need of the customers with specific local requirements.

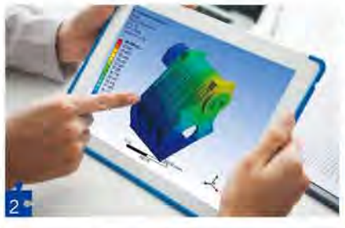
- Neway CNC North America

- Neway CNC Europe

Develop And Research Tools

Neway R&D designers make full use ofelement analysis finite method and simulation technology of multibody dynamics theory in machine structure construction; analyzing the dynamic and static property, vibration characteristics and heating features of the pattern; optimizing the machine structure and performance of the designs with topology, geometry, dimensional and reliability optimization.

1. Finite element analysis
2. Temperature analysis
3. Further CNC intellectual development
4. Dynamic analysis
5. Frequency spectrum analysis
6. Vibration test during cutting



Tech renovation

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 platform for the technical people to exchange point of views. Technicians and engineers from design, research and it 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 trained to join Neway tech team.



Factory Management

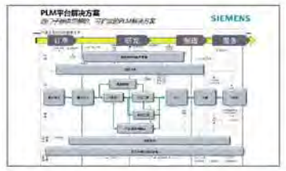
Neway manages its factories and warehouses with ERP, bar code and CAM enterprise resource system to meet the requirement of the manufacture.

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

For the aim of internal need for enhancing product management, Neway imported the world top PLM – SIEMENS Team Center to manage product lifecycle. With help of advanced information management platform, Neway realized product standardization and efficient accumulation and transmission of the product knowledge among R&D, manufacturing and inspection fields.



ERP system

Neway started ERP system in 2003 while during the development of explorer the system now we switched to SAP, a higher lever system. It enables synchronized engineering and precise manufacturing. 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 management information and solves problems in storage and shipment management.

Neway supplier management

Neway sets up supplier training and management system; exports technics and management to suppliers; guides suppliers reinforcing quality control and enhancing quality consciousness.

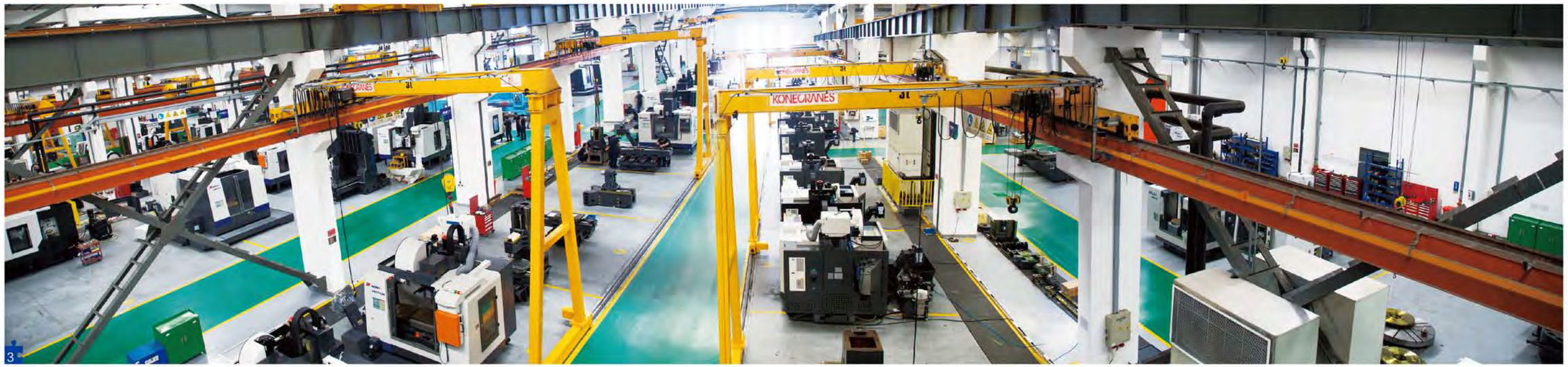
CRM management system

Neway is the first company using mobile internet technology in service. Informatization management in service is realized via connection between CRM system and cell phone so that each service unit information is traced with ensured service quality.

Constant temperature workshop

The workshop is equipped with Trane Geothermal Source Heat Pump system ensuring the workshop with 20℃ ventilating air. All parts of the machine are installed at the same temperature with good precision.

1 VM assembly
2 assembly
3 NL preparation
4 Precise inspection
5 Precise processing



Machine Tools

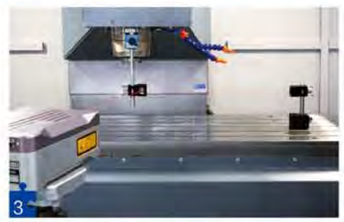
Neway produces quality CNC machines with performance with world top machine tools: Swiss SIP boring and milling center, Swiss Kellenberger grinding machine, Italy FAVRETTO guideway miller, Germany STARRAGHECKERT horizontal working center and Spain ZAYER portal type milling machine.

1. SIP boring center - Swiss
2. Kellenberger grinding machine - Swiss
3. Favretto guideway grinder - Italy
4. Zayer milling center - Spain
5. Starragheckert horizontal milling center - Germany
6. Zayer milling center - Spain

Inspection devices

Neway follows advanced scientific technology and strict quality control. Various advanced testing equipment and devices are used to monitor the quality of the products. Like Renishaw LASER interferer, Germany Schenker dynamic balancing tester, Germany Marh roundness tester, profile tester and roughness tester, Sweden Hexagon coordinate tester, Japan Youshida belt tension tester, universal tool micrometer, Leeb hardness tester, spindle temperature increment tester, deflection tester, infrared temperature tester, rotation speed tester, noise tester, LASER ruler, flatness tester, HRC hardness tester and dynamometer.

1. Universal tool micrometer
2. Germany Mahr profile detector
3. Spindle temperature rise test platform
4. British Renishaw laser interferer
5. British Renishaw ballbar tester
6. Germany Mahr roundness tester
7. Sweden Hexagon coordinate tester
8. Germany Schenker dynamic balance tester



360°

Complete solution for cutting technics

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.

01
CNC lathes full series
Quality metal cutting machines

02
Processing plan
Tell us what you need and we' ll do the others

03
Automatic production line
Machine works instead of human beings

04
Intelligent digitalized factory
A factory of the internet era

05
Remote machine diagnosis
Neway electronic professionals diagnose and shoot troubles by remote control

NL Series CNC Horizontal
NL Lathe with roller guideway

PARAMETERS

Item	Unit	NL161H/HC	NL201HA/HAC	NL201SA	NL201HG	NL251H/HC	NL251HA/HAC	NL251SA
Max Swing On Bed	mm	Φ500	Φ450	Φ450	Φ450	Φ470	Φ550	Φ550
Max Swing	mm	Φ300	Φ300	Φ300	Φ200	Φ320	Φ370	Φ370
Max Cutting Dia	mm	Φ160	Φ200	Φ200	Φ200	Φ250	Φ250	Φ250
Max Cutting Length	mm	300	350	350	360	400	350	350
Max Travel X/z	mm	125/350	135/430	135/430	300/400	240/450	240/430	240/430
Rapid Traverse X/z	m/min	30/30	24/30	24/30	24/30	24/30	24/30	24/30
Motor Power	kW	5.5/7.5	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11
Max Spindle Speed	r/min	6000	6000	4000	6000	5000	5000	4000
Spindle Terminal Type	ISO	A2-5	A2-5	A2-5	A2-5	A2-6	A2-6	A2-6
Spindle Bore Dia	mm	Φ56	Φ56	Φ56	Φ56	Φ56	Φ56	Φ56
Hydro Chuck	inch	6	6	6	6	8	8	8
No. Of Tools		8	8	8	排刀	8	8	8
Circular Tool Shank	mm	20×20	25×25	25×25	20×20	25×25	25×25	25×25
Max Boring Tool Shank	mm	Φ32	Φ40	Φ40	Φ20	Φ40	Φ40	Φ40
Quill Dia	mm	Φ65/-	Φ75/-	Φ75	/	Φ100/-	Φ100/-	Φ100
Quill Travel	mm	80/-	80/-	80	/	100/-	100/-	100
Bore Taper	Morse	4#/-	4#/-	4#	/	5#/-	5#/-	5#
Positioning (X/z)	mm	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Repositioning (X/z)	mm	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Cnc System		NEWAY FANUC / SIEMENS						
Auto Chip Conveyor		Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear
Net Weight	kg	3000	4000/3900	4000	3700	4000	4200/4000	4200

REMARKS : H – Full Function lathe
HC – Without tailstock
HG – Dang type turret
SA – Affordable lathe, Design Update Version A
HA – Full Function lathe,, Design Update Version A
HAC – Full Function lathe,, Design Update Version A without tailstock

Item	Unit	NL253SA/HA	NL322SA/HA	NL324SA/HA	NL402SA/HA	NL404SA/HA	NL324L	NL635L
Max Swing On Bed	mm	Φ550	Φ570	Φ570	Φ650	Φ650	Φ570	Φ650
Max Swing	mm	Φ370	Φ400	Φ400	Φ480	Φ480	Φ400	Φ450
Max Cutting Dia	mm	Φ250	Φ320	Φ320	Φ400	Φ400	Φ320	Φ630
Max Cutting Length	mm	750	500	1000	500	1000	1000	1500
Max Travel X/z	mm	240/830	185/530	185/1100	225/530	225/1100	185/1100	350/1600
Rapid Traverse X/z	m/min	24/30	24/30	24/30	24/30	24/30	24/30	16/18
Motor Power	kW	7.5/11	11/15	11/15	11/15	11/15	11/15	15/18。5
Max Spindle Speed	r/min	4000/5000	3500	3500	3000	3000	3500	2000
Spindle Terminal Type	ISO	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-8
Spindle Bore Dia	mm	Φ56	Φ65	Φ65	Φ65	Φ65	Φ65	Φ87
Hydro Chuck	inch	8	10	10	10	10	10	12
No. Of Tools		8	8	8	8	8	8	8
Circular Tool Shank	mm	25×25	25x25	25x25	25x25	25x25	25×25	32×25
Max Boring Tool Shank	mm	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ50
Quill Dia	mm	Φ100	Φ100	Φ100	Φ100	Φ100	/	/
Quill Travel	mm	100	100	100	100	100	/	/
Bore Taper	Morse	5#	5#	5#	5#	5#	5#	6#
Positioning (X/z)	mm	0.006	0.008	0.008	0.01	0.01	0.008/0.008	0.01/0.014
Repositioning (X/z)	mm	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		Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway
Net Weight	kg	4500	4800	5500	5000	5700	5500	8000

REMARKS : SA – Affordable lathe, Design Update Version A
HA – Full Function lathe,, Design Update Version A
L – All Linear Way

NL Series Series CNC Horizontal Lathe with slider guideway

HL Series CNC Horizontal Heavy Duty Lathe

PARAMETERS

Item	Unit	NL502SA	NL504SA	NL502SC	NL504SC	NL634SC	NL634SCZ	NL635SC	NL635SCZ
Max Swing Diameter On Bed	mm	Φ505	Φ505	Φ600	Φ600	Φ650	Φ650	Φ650	Φ650
Max Swing On Carriage	mm	Φ340	Φ340	Φ450	Φ450	Φ410	Φ410	Φ410	Φ410
Max Cutting Dia	mm	Φ500	Φ500	Φ500	Φ500	Φ630	Φ630	Φ630	Φ630
Max Cutting Length	mm	500	1000	500	1000	1000	1000	1500	1500
Max Travel X/z	mm	250/600	250/1100	295/600	295/1100	330/1100	330/1100	330/1600	330/1600
Rapid Traverse	m/min	8/12	8/12	12/16	12/16	8/12	8/12	8/12	8/12
Motor Power	kW	11/15	11/15	11/15	11/15	15/18.5	15/18.5	15/18.5	15/18.5
Max Spindle Speed	r/min	3000	3000	3000	3000	2000	1000	2000	1000
Spindle Terminal Type	ISO	A2-6	A2-6	A2-6	A2-6	A2-8	A2-11	A2-8	A2-11
Spindle Bore Dia	mm	Φ65	Φ65	Φ65	Φ65	Φ87	Φ106	Φ87	Φ106
Hydro Chuck	inch	10	10	10	10	12	15	12	15
No. Of Tools		8	8	8	8	8	8	8	8
Circular Tool Shank	mm	25×25	25×25	25×25	25×25	32×25	32×25	32×25	32×25
Max Boring Tool Shank	mm	Φ40	Φ40	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50
Quill Dia	mm	Φ100	Φ100	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130
Quill Travel	mm	100	100	100	100	100	100	100	100
Bore Taper	Morse	5#	5#	5#	5#	5#	5#	5#	5#
Positioning (X/z)	mm	0.010/0.012	0.010/0.012	0.010/0.012	0.010/0.012	0.012/0.014	0.012/0.014	0.012/0.014	0.012/0.014
Repositioning (X/z)	mm	0.005/0.007	0.005/0.007	0.005/0.007	0.005/0.007	0.006/0.008	0.006/0.008	0.006/0.008	0.006/0.008
Cnc System		NEWAY FANUC / SIEMENS							
Auto Chip Conveyor		Sideway	Sideway	Sideway	Sideway	Sideway	Sideway	Sideway	Sideway
Weight	kg	4000	4500	4300	4800	7500	7600	8000	8100

REMARKS : SA – Affordable lathe, Design Update Version A
SC – Affordable lathe, Design Update Version C
SCZ– Affordable lathe, Design Update Version C, With Gear Gead

Item	Unit	HL503H	HL635H	HL805H
Max Swing On Bed	mm	Φ650	Φ720	Φ850
Max Swing	mm	Φ480	Φ530	Φ630
Max Cutting Dia	mm	Φ500	Φ630	Φ800
Max Cutting Length	mm	750	1500	1500
Max Travelx/z	mm	290/850	350/1600	425/1600
Rapid	m/min	16/16	8/12	8/12
Motor Power	kW	13/22 18.5/22	18.5/30 22/30	18.5/30 22/30
Spindle Max	r/min	1500	2000	1250
Spindle Nose Type	ISO	A2-8	A2-11	A2-11
Spindle Bore Dia	mm	Φ87	Φ100	Φ106
Hydro Chuck	inch	12	15	15
No. Of Tools		12	12	12
Circular Tool Shank	mm	32×25	32×25	32×25
Max Boring Tool Shank	mm	Φ50	Φ50	Φ50
Quill Dia	mm	Φ130	Φ160	Φ160
Quill Travel	mm	100	180	180
Bore Taper	Morse	5#	5#	5#
Positioning Accuracy (X/z)	mm	0.01/0.012	0.012/0.016	0.012/0.016
Repeatability Accuracy (X/z)	mm	0.006	0.006/0.008	0.006/0.008
Cnc System		NEWAY FANUC / SIEMENS		
Auto Chip Conveyor		Sideway	Sideway	Sideway
Net Weight	kg	9000	13000	15000

REMARKS : H – Full Function lathe

NL Series CNC Horizontal Lathe with live tools

PARAMETERS

Item	Unit	NL161T	NL251T	NL253T	NL322T	NL324T	NL402T
Max Swing Diameter On Bed	mm	Φ500	Φ550	Φ550	Φ570	Φ570	Φ650
Max Swing On Carriage	mm	Φ300	Φ370	Φ370	Φ400	Φ400	Φ480
Max Cutting Dia	mm	Φ120	Φ250	Φ250	Φ320	Φ320	Φ400
Max Cutting Length	mm	300	350	750	500	1000	500
Max Allowable Bar Dia	mm	Φ45	Φ45	Φ45	Φ52	Φ52	Φ52
Motor Power	kW	5.5/7.5	7.5/11	7.5/11	11/15	11/15	11/15
Max Spindle Speed	rpm	6000	5000	5000	4000	4000	3000
Spindle Terminal Type	ISO	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6
Spindle Bore Dia	mm	Φ56	Φ56	Φ56	Φ65	Φ65	Φ65
Spindle Bore Taper		Morse 6	Morse 6	Morse 6	metric 80	metric 80	metric 80
Hydro Chuck	inch	6	8	8	10	10	10
Quill Dia	mm	/	Φ100	Φ100	Φ100	Φ100	Φ100
Quill Travel	mm	/	100	100	100	100	100
Bore Taper	Morse	/	dead quill 5#	dead quill 5#	dead quill 5#	dead quill 5#	dead quill 5#
Travel X/z	mm	125/350	240/430	240/830	235/530	235/1100	275/530
Rapid Traverse X/z	m/min	30/30	24/30	24/30	24/30	24/30	24/30
Number Of Tools	mm	12	12	12	12	12	12
Max Speed Of Drive Tools	rpm	5000	5000	5000	5000	5000	5000
Turning Tool Shank	mm	16×16	20×20	20×20	25x25	25×25	25×25
Max Dia Of Boring Tool	mm	Φ16	Φ25	Φ25	Φ32	Φ32	Φ32
Max Drilling	mm	Φ10×0.1	Φ14×0.15	Φ14×0.15	Φ16×0.2	Φ16×0.2	Φ16×0.2
Max Threading	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
Max Slotting	mm	Φ12×8×32	Φ20×10×40	Φ20×10×40	Φ20×12×40	Φ20×12×40	Φ20×12×40
Positioningx/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"
Repositioningx/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"
Control System		NEWAY FANUC / SIEMENS					
Chip Conveyor		Sideway/rear	Sideway/rear	Sideway/rear	Sideway/rear	Sideway	Sideway
Machine Weight	Kg	3000	4200	4500	4800	5500	5000

REMARKS : T – Turning Center, Liven Tools

Item	Unit	NL404T	NL502T	NL504T	NL634T	NL635T	HL635T
Max Swing Diameter On Bed	mm	Φ650	Φ600	Φ600	Φ650	Φ650	Φ720
Max Swing On Carriage	mm	Φ480	Φ450	Φ450	Φ410	Φ410	Φ530
Max Cutting Dia	mm	Φ400	Φ410	Φ410	Φ540	Φ540	Φ630
Max Cutting Length	mm	1000	500	1000	1000	1500	1500
Max Allowable Bar Dia	mm	Φ52	Φ52	Φ52	Φ75	Φ75	Φ75
Motor Power	kW	11/15	11/15	11/15	15/18.5	15/18.5	18.5/30 22/30
Max Spindle Speed	rpm	3000	3000	3000	2000	2000	2000
Spindle Terminal Type	ISO	A2-6	A2-6	A2-6	A2-8	A2-8	A2-11
Spindle Bore Dia	mm	Φ65	Φ65	Φ65	Φ87	Φ87	Φ100
Spindle Bore Taper		metric 80	metric 80	metric 80	metric 100	metric 100	metric 120
Hydro Chuck	inch	10	10	10	12	12	15
Quill Dia	mm	Φ100	Φ100	Φ100	Φ130	Φ130	Φ160
Quill Travel	mm	100	100	100	100	100	180
Bore Taper	Morse	dead quill 5#	dead quill 5#	dead quill 5#	Dead center 5#	Dead center 5#	Dead center 5#
Travel X/z	mm	275/1100	295/550	295/1050	355/1100	355/1600	350/1600
Rapid Traverse X/z	m/min	24/30	12/16	12/16	8/12	8/12	8/12
Number Of Tools	mm	12	12	12	12	12	12
Max Speed Of Drive Tools	rpm	5000	5000	5000	5000	5000	4000
Turning Tool Shank	mm	25×25	25×25	25×25	25×25	25×25	32x25
Max Dia Of Boring Tool	mm	Φ32	Φ32	Φ32	Φ32	Φ32	Φ50
Max Drilling	mm	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ16×0.2	Φ20×0.23
Max Threading	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	M18×2/M27×1.5
Max Slotting	mm	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ20×12×40	Φ22×25×40
Positioningx/z/c	mm	0.01/0.01/51"	0.012/0.014/51"	0.012/0.016/51"	0.012/0.016/51"	0.012/0.016/51"	0.012/0.016/51"
Repositioningx/z/c	mm	0.004/0.004/20"	0.006/0.007/20"	0.006/0.008/20"	0.006/0.008/20"	0.006/0.008/20"	0.006/0.008/20"
Control System		NEWAY FANUC / SIEMENS					
Chip Conveyor		Sideway	Sideway	Sideway	Sideway	Sideway	Sideway
Machine Weight	Kg	5700	4300	4500	7500	8100	13000

REMARKS : T – Turning Center, Liven Tools

NL Series CNC Large size Horizontal Lathe

NL Series CNC Heavy duty Horizontal Lathe

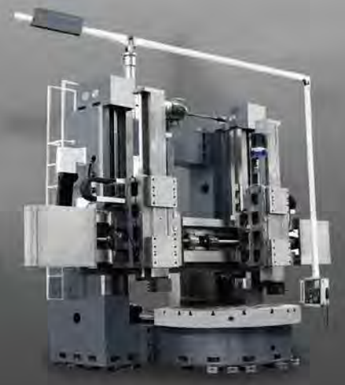
Item	Unit	NL855HA/SA	NL858HA/SA	NL859HA/SA	NL1005HA/SA	NL1008HA/SA	NL1009HA/SA
Max swing diameter on bed	mm	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max swing on carriage	mm	Φ500	Φ500	Φ500	Φ700	Φ700	Φ700
Max cutting dia	mm	Φ850	Φ850	Φ850	Φ1000	Φ1000	Φ1000
Max cutting length	mm	1500	3000	5000	1500	3000	5000
Max work piece weight	kg	6000	6000	6000	6000	6000	6000
Motor power	kW	15/18.5	15/18.5	15/18.5	22/26(SA/25)	22/26(SA/25)	22/26(SA/25)
Max spindle speed	rpm	630	630	630	500	500	500
Spindle terminal type	ISO	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
Spindle bore dia	mm	Φ100	Φ100	Φ100	Φ100	Φ100	Φ100
Rate torque	N · m	4343	4343	4343	6370	6370	6370
Manual 4 jaw chuck	mm	Φ800	Φ800	Φ800	Φ1000	Φ1000	Φ1000
No. Of tools		4	4	4	4	4	4
Max boring tool shank	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
Bore taper	Morse	6#	6#	6#	6#	6#	6#
Positioning (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
repositioning (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					
Chip conveyor		HA seies: double chain conveyors rightside SA series：double chip try (w/o concveyor)					
Weight	kg	11000	13000	16000	12500	14500	17500

REMARKS： SA – Affordable lathe, Design Update Version A
HA – Full Function lathe,, Design Update Version A

Item	Unit	NL1255HA/SA	NL1258HA/SA	NL1259HA/SA	NL1608H/S	NL1660H/S	NL2050H	NL2060H
Max swing diameter on bed	mm	Φ1250	Φ1250	Φ1250	Φ1600	Φ1600	Φ2200	Φ2200
Max swing on carriage	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 work piece weight	kg	6000	6000	6000	20000	20000	20000	20000
Motor power	kW	22/26(SA/25)	22/26(SA/25)	22/26(SA/25)	55/78	55/78	55/78	55/78
Max spindle speed	rpm	500	500	500	450	450	450	450
Spindle terminal 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
Rate torque	N · m	6370	6370	6370	22000	22000	22000	22000
Manual 4 jaw chuck	mm	Φ1000	Φ1000	Φ1000	Φ1400	Φ1400	Φ1800	Φ1800
No. Of tools		4	4	4	4	4	4	4
Max boring tool shank	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
Bore taper	Morse	6#	6#	6#	(metric)100	(metric)100	(metric)100	(metric)100
Positioning (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
repositioning (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			NEWAY FANUC / SIEMENS			
Chip conveyor		HA seies: double chain conveyors rightside SA series：double chip try (w/o concveyor)			rightside			
Weight	kg	14500	16500	19500	35000	490000	53000	55000

REMARKS： SA – Affordable lathe, Design Update Version A
HA – Full Function lathe,, Design Update Version A
S – Affordable lathe
H – Full Function lathe

VNL Series CNC Vertical Lathe with live tools



PARAMETERS

Item	Unit	VNL502S/H	VNL652S/H	VNL803S/H	VNL803SA/HA	VNL1254S/H	VNL1254ST/HT	VNL1605S/H
Max Swing	mm	Φ800	Φ900	Φ1000	Φ1000	Φ1500	Φ1500	Φ1800
Max Cutting Dia	mm	Φ550	Φ650	Φ800	Φ800	Φ1250	Φ1250	Φ1600
Max Cutting Height	mm	600	700	800	800	1000	1000	1600
Max Load Weight	kg	/	/	/	/	5000	5000	8000
Max Travel X/z	mm	520/600	520/750	500/840	520/840	800/620	800/620	1040/800
Rapid Traverse X/z	m/min	S:12/12 H:12/20	12/12	S:12/10 H:12/12	12/12	12/12	ST:10/10 HT:12/10	12/12
Motor Power	kW	18.5/22	18.5/22	18.5/22	18.5/22	30	30	37
Worktable Dia	mm	15 " (power chuck)	15 " (power chuck)	21(power chuck)	21(power chuck)	Φ1000	Φ1000	Φ1250
Max Worktable Speed	r/min	1500/2000	1500	1250	1250	500	500	400
Max Worktable Torque	N.m	/	2000	2920	2920	6000	6000	14000
No. Of Tools		12 (horizontal)	12(horizontal)/6(vertical)	12 (horizontal)	12(horizontal)/6(vertical)	4 (vertical)	8 tool magazine	4 (vertical)
Circular Tool Shank	mm	32×32	32×32	32×32	32×32	32×32	BT50	32×32
Driving		Hydro	Hydro/electricity	Hydro	Hydro/electricity	Electricity	Electricity	Electricity
Positioning (X/z)	mm	0.008/0.012	0.008/0.012	0.012/0.015	0.012/0.015	0.02/0.02	0.02/0.02	0.02/0.02
Repositioning (X/z)	mm	0.006/0.008	0.006/0.008	0.007/0.010	0.007/0.010	0.015/0.015	0.015/0.015	0.015/0.015
Cnc System		NEWAY FANUC / SIEMENS						
Chip Conveyor		Sideway/rear	Sideway/rear	Sideway	Sideway/rear	Sideway	Sideway	Sideway
Weight	kg	10000	11000	16000	12000	16000	17000	25000

REMARKS : S – Full Function VMC with FANUC Oi MF(5)
H – Affordable VMC with FANUC Oi MF(1)
SA – Affordable lathe, Design Update Version A
HA – Full Function lathe,, Design Update Version A
ST/HT – Tool Magazine

Item	Unit	VNL1605ST/HT	VNL2506SA/HA	VNL2506ST/HT
Max Swing	mm	Φ1800	Φ2750	Φ2750
Max Cutting Dia	mm	Φ1600	Φ2500	Φ2500
Max Cutting Height	mm	1600	2000	2000
Max Load Weight	kg	8000	16000	16000
Max Travel X/z	mm	1050/800	1820/1400	1420/1400
Rapid Traverse X/z	m/min	ST:10/10 HT:12/10	8/8	8/8
Motor Power	kW	37	55	55
Worktable Dia	mm	Φ1250	Φ2250	Φ2250
Max Worktable Speed	r/min	400	80	80
Max Worktable Torque	N.m	14000	40000	40000
No. Of Tools		12 tool magazine	1	12 (horizontal)
Circular Tool Shank	mm	BT50	40×40	40×40
Driving		Electricity	/	Electricity
Positioning (X/z)	mm	0.02/0.02	0.03/0.03	0.03/0.03
Repositioning (X/z)	mm	0.015/0.015	0.015/0.015	0.015/0.015
Cnc System		NEWAY FANUC / SIEMENS		
Chip Conveyor		Sideway	Sideway	Sideway
Weight	kg	26000	42000	42000

REMARKS : SA – Affordable lathe, Design Update Version A
HA – Full Function lathe,, Design Update Version A
ST/HT – Tool Magazine
T – liven tooling

Item	Unit	VNL502T
Max Swing	mm	Φ800
Max Cutting Dia	mm	Φ550
Max Cutting Height	mm	500
Max Load Weight	kg	/
Max Travel X/z	mm	520/600
Rapid Traverse X/z	m/min	12/20
Motor Power	kW	18.5/22
Worktable Dia	mm	15 " (power chuck)
Max Worktable Speed	r/min	2000
Max Worktable Torque	N.m	/
No. Of Tools		12 (horizontal)
Circular Tool Shank	mm	32×32
Driving		servo
Positioning (X/z)	mm	0.008/0.012
Repositioning (X/z)	mm	0.006/0.008
Cnc System		NEWAY FANUC /SIEMENS
Chip Conveyor		Sideway/rear
Weight	kg	10000

[ ]option

NL Series CNC Professional Lathe

NL Series Vertical Turning and Gvinding Maching

Parallel Dual-spindle CNC Lathe

CNC Threading Lathe

CNC Wheel Lathe

PARAMETERS

Item	Unit	VNL2506G
Max Cutting Dia	mm	Φ2750
Max Swing Dia	mm	Φ2500
Max Working Height	mm	2000
Max Part Weight	kg	16000
Diameter	mm	-10~1435/1400 (cutting)
Speed	mm	-10~1830/500 (grinding)
Speed Steps	m/min	7/7 (cutting)
Motor Power	m/min	7/7 (grinding)
Max Cutting	kW	55
Max Torque	mm	Φ2250
X1 Axis/z1 Axis Travel	r/min	80
Turret Type	N · m	40000
Tool Block Size		1
X2 Axis/z2 Axis Travel	mm	40×40
Turret Rotary	mm	ram 250×250 (single tool)
Grinding Motor Power		-10° ~ +25°
Grinder Speed	kW	16
Max Sand Wheel Diameter	rpm	6000
Traverse Speed X/z	mm	Φ400
Cutting Feed Speed	mm	0.03/0.03 (cutting)
Cross Beam Positioning Interval	mm	0.03/0.03 (grinding)
Longitude Stair	mm	0.015/0.015 (cutting)
Crossbeam Speed	mm	0.015/0.015 (grinding)
Crossbeam Travel		SIEMENS
Machine Size (L×w×h)		YES
Weight N.W./g.w.	kg	42000

Item		Unit	NL120HD
Distance Between Spindles		mm	350
Max Swing Dia		mm	ϕ300
Max Cutting Dia		mm	ϕ250
Max Cutting Length		mm	160
Max Allowable Bar Dia		mm	ϕ45
Number Of Spindles			2
Motor Power		kW	7.5/11
Max Spindle Speed		rpm	4500
Spindle Terminal Type		ISO	A2-5
Spindle Bore Dia		mm	ϕ56
Servo Motor Torque X/z		N · m	7/7
Max Travel X/z		mm	140/160
Rapid Traverse X/z		m/min	24/24
Number Of Turret			2
Number Of Tools			10
Tool Shank Size		mm	20×20
Max Boring Tool Shank Size		mm	ϕ40
Max Carrying Weight		kg	3
Max Carrying Dia		mm	ϕ120
Max Carrying Length		mm	80
Travel	XG (L-R)	mm	3200
	YG (U-D)	mm	600
	ZG (F-B)	mm	220
Rapid Traverse Speed	XG (L-R)	m/min	160
	YG (U-D)	m/min	120
	ZG (F-B)	m/min	40
Repositioning Accyracy	XG (L-R)	mm	0.05
	YG (U-D)	mm	0.05
	ZG (F-B)	mm	0.05
Air Driven Jaws	type		3爪
	travel	mm	ϕ16
	repositioning	mm	0.01
Positioning (X/z)		mm	0.006/0.006
Repositiioning (X/z)		mm	0.004/0.004
Cnc System			NEWAY FANUC / SIEMENS
Net Weight		Kg	5000

REMARKS : G - Turning And Gring
HD - Full Function lathe,,Parallel Twin Spindles

Item	Unit	GNL362H
Max Swing Dia Over Bed	mm	ϕ880
Max Swing Dia Over Carriage	mm	ϕ370
Max Cutting Diameter	mm	ϕ360
Max Cutting Length	mm	350
Max Allowable Work Piece Diameter	inch	14.2
Motor Power	kW	55
Max Sindle Speed	rpm	30-300
Servo Motor Torque X/z	N · m	22/30
Spindle Terminal Model	ISO	self-made
Spindle Bore Diameter	mm	ϕ362
Spindle Taper		1:20
Max Travel X/z	mm	220/580
Rapid Traverse X/z	m/min	12/12
Number Of Tools		8
Max Cutting Tool Shank Size	mm	32×32
Max Boring Tool Shank Size	mm	ϕ50
Positioning (X/z)	mm	0.016/0.025
Repositioning (X/z)	mm	0.006/0.007
Cnc System		NEWAY FANUC / SIEMENS
Net Weight	Kg	20500

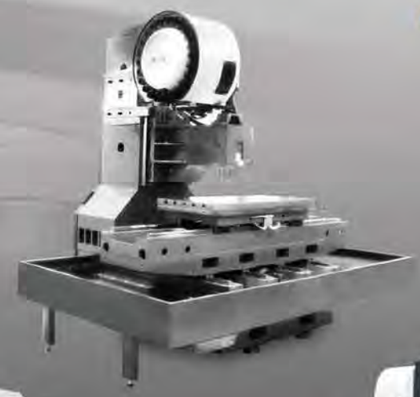
Item	Unit	NL633HW
Max Swing Diameter On Bed	mm	Φ750
Max Swing On Carriage	mm	Φ550
Max Cutting Dia	mm	Φ630
Max Cutting Length	mm	750
Max Work Piece Diameter	inch	20
Motor Power	kW	37/45
Max Spindle Speed	rpm	3000
Servo Motor Torque X/z	N · m	22/22
Spindle Terminal Type	ISO	A2-8
Spindle Bore Dia	mm	Φ87
Spindle Bore Taper		Metric100
Max Travelx/z	mm	340/850
Rapid Traverse X/z	m/min	16/16
Number Of Tools		12
Tool Shank	mm	32×32
Max Dia Of Boring Tool Shank	mm	Φ50
Positioning (X/z)	mm	0.016/0.025
Repositioning (X/z)	mm	0.006/0.008
Cnc System		NEWAY FANUC / SIEMENS
Weight	Kg	8500

REMARKS : H - Full Function lathe
HW - Wheel Hub Lathe
GNL - Pipe Threading Machine

[ ]option

VM Series CNC Table Travel Vertical Machine Center

Rolling Guide Rail Structure



PARAMETERS

Item	Unit	VM702H/S	VM903HL/SL	VM903H/S	VM1103HL/SL	VM1103H/S	VM1204HA/SA
worktable size	mm	750×420	950×520	950×520	1100×520	1100×520	1200×600
max worktable load	kg	350	500	600	600	750	800
axis travel X/Y/Z	mm	650/420/500	850/520/560	850/520/560	1000/520/560	1000/520/560	1050/600/600
spindle terminal to worktable	mm	120~620	120~680	150~710	120~680	150~710	140~740
spindle center to column guideway	mm	470	580	590	580	590	649
spindle rapid traverseX/Y/Z	m/min	40/40/30 [48/48/48]	40/40/30	30/30/24 [36/36/30] [40/40/30]	40/40/30	30/30/24 [36/36/30] [40/40/30]	30/30/24 [36/36/30]
motor power	kW	5.5/7.5 [7.5/11]	7.5/11	7.5/11 [11/15]	7.5/11	7.5/11 [11/15]	11/15
max spindle speed	rpm	10000(belt connect) [12000direct connect] [15000 direct connect]	12000(direct connect) [15000 direct connect]	8000(belt connect) [10000 belt connect] [12000 direct connect]	"12000(direct connect) 15000(direct connect)"	8000(belt connect) [10000 belt connect] [12000 direct connect]	8000(belt connect) [10000 belt connect] [12000 direct connect]
spindle bore taper		7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40[7:24 taper NO.50]
number of tools (disc type)		20	24	24	24	24	24
tool shank		MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40	MAS403 BT40
max tool dia/length/weight	mm/mm/Kg	Φ80/300/8	Φ78/300/8	Φ78/300/8	Φ78/300/8	Φ78/300/8	Φ80/300/8
ATC (T to T)	s	1.7	1.8	1.8	1.8	1.8	1.8
drilling (normalized mild steel)	mm	Φ30	Φ40	Φ40	Φ40	Φ40	Φ45
threading (normalized mild steel)	mm	M16	M20	M20	M20	M20	M24
milling and cutting (normalized mild steel)	cm3/min	150	200	200	200	200	250
positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008
repositioning accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005
CNC system		NEWAY FANUC / SIEMENS					
auto chip conveyor		Option	Option	Sideway	Option	Option	Sideway
weight	kg	4000	5000	6000	6000	7000	7500

[ ]option

REMARKS : S – Affordable VMC with FANUC Oi MF(1)
H – Full Function VMC with FANUC Oi MF(5)
HL/SL – High Speed & Light Duty
HA – Full Function VMC, Design Update Version A
SA – Affordable VMC, Design Update Version A

Item	Unit	VM1204H/S	VM1304H/S	VM1506H/S	VM1706H/S	VM1806H/S
worktable size	mm	1250×600	1350×600	1500×800	1700×800	1800×800
max worktable load	kg	1000	1000	1250	1500	1750
axis travel X/Y/Z	mm	1050/600/600	1200/600/600	1350/800/680	1500/800/680	1700/850/700
spindle terminal to worktable	mm	150~750	150~750	150~830	150~830	140~840
spindle center to column guideway	mm	665	665	868	868	900
spindle rapid traverseX/Y/Z	m/min	36/36/24 (H) 24/24/20 (S)	36/36/24 (H) 24/24/20 (S)	36/36/24 (H) 24/24/20 (S)	36/36/24 (H) 24/24/20 (S)	24/24/20
motor power	kW	11/15	11/15	15/18.5	15/18.5	15/18.5
max spindle speed	rpm	8000	8000	6000	6000	6000
spindle bore taper		7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.40 [7:24 taper NO.50]	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
number of tools (disc type)	把	24	24	24	24	24
tool shank		MAS403 BT40	MAS403 BT40	MAS403 BT50	MAS403 BT50	MAS403 BT50
max tool dia/length/weight	mm/mm/Kg	Φ80/300/8	Φ80/300/8	Φ110/350/15	Φ110/350/15	Φ110/350/15
ATC (T to T)	s	1.8	1.8	2	2	2
drilling (normalized mild steel)	mm	Φ45	Φ45	Φ50	Φ50	Φ50
threading (normalized mild steel)	mm	M24	M24	M30	M30	M30
milling and cutting (normalized mild steel)	cm3/min	250	250	300	300	300
positioning accuracy (X/Y/Z)	mm	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	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006
CNC system		NEWAY FANUC / SIEMENS				
auto chip conveyor		Sideway	Sideway	Sideway	Sideway	Sideway
weight	kg	8000	9000	11000	13000	15000

REMARKS : S – Affordable VMC with FANUC Oi MF(1)
H – Full Function VMC with FANUC Oi MF(5)

[ ]option

VM Series CNC Table Travel Vertical Machine Center

Sliding Guide Rail Structure

VM Series CNC Column Travel Vertical Machine Center

VM Series Vertical Milling Center with 5 axes

PARAMETERS

Item	Unit	VM903HR/SR	VM1103HR/SR	VM1204HR/RZ	VM1304HR/RZ	VM1506HR/RZ	VM1706HR/RZ
worktable size	mm	950×520	1100×520	1250×600	1350×600	1500×800	1700×800
max worktable load	kg	600	750	1000	1000	1250	1500
axis travel X/Y/Z	mm	850/520/560	1000/520/560	1050/600/600	1200/600/600	1350/800/680	1500/800/680
spindle terminal to worktable	mm	150 ~ 710	150 ~ 710	150 ~ 750	150 ~ 750	150 ~ 830	150 ~ 830
spindle center to column guideway	mm	590	590	665	665	868	868
spindle rapid traverseX/Y/Z	m/min	20/20/18	20/20/18	20/20/18	20/20/18	18/18/15	18/18/15
motor power	kW	7.5/11	7.5/11	11/15	11/15	15/18.5	15/18.5
max spindle speedC	rpm	8000	8000	8000/6000	8000/6000	6000/4500	6000/4500
spindle bore taper		7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40(HR) 7:24 taper NO.50(RZ)	7:24 taper NO.40(HR) 7:24 taper NO.50(RZ)	7:24 taper NO.50	7:24 taper NO.50
number of tools (disc type)	pc	24	24	24	24	24	24
tool shank		MAS403 BT40	MAS403 BT40	MAS403 BT40/BT50	MAS403 BT40/BT50	MAS403 BT50	MAS403 BT50
max tool dia/length/weight	mm/mm/kg	Φ78/300/8	Φ78/300/8	Φ80/300/8 Φ110/350/15(BT50)	Φ80/300/8 Φ110/350/15(BT50)	Φ110/350/15	Φ110/350/15
ATC (T to T)	s	1.8	1.8	1.8/2(BT50)	1.8/2(BT50)	2	2
drilling (normalized mild steel)	mm	Φ40	Φ40	Φ45/Φ65	Φ45/Φ65	Φ50/Φ80	Φ50/Φ80
threading (normalized mild steel)	mm	M20	M20	M24/M50	M24/M50	M30/M60	M30/M60
milling and cutting (normalized mild steel)	cm3/min	200	200	250/360	250/360	300/420	300/420
positioning accuracy (X/Y/Z)	mm	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010	0.012/0.010/0.010	0.015/0.012/0.012	0.015/0.012/0.012
repositioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.010	0.010
CNC system		NEWAY FANUC / SIEMENS					
auto chip conveyor		sideway	sideway	sideway	sideway	sideway	sideway
weight	kg	6000	7000	8000	9000	11000/11300	13000/13300

[ ]option

REMARKS : SR/HR – Box Way
RZ – Box Way and Gear Box

Item	Unit	VM802T	VM905T	VM2504C
worktable size	mm	800×440×2	960×600×2	2500×600
max worktable load	kg	2-350	2-500	3000
worktable type		APC rotary worktable	APC rotary worktable	non-travel worktable
axis travel X/Y/Z	mm	700/420/560	900/460/620	2100/600/600
spindle terminal to worktable	mm	200~760	230~850	180~780
spindle rapid traverseX/Y/Z	m/min	30/30/24	30/30/20	30/30/24
motor power	kW	9/11	11/15	15/18.5
max spindle speed	rpm	6000	6000	8000
spindle bore taper		7:24 taper NO.40	7:24 taper NO.40	7:24 taper NO.40
number of tools	把	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
ATC (T to T)	s	1.8	1.8	1.8
drilling (normalized mild steel)	mm	Φ45	Φ50	Φ50
threading (normalized mild steel)	mm	M27	M30	M30
milling and cutting (normalized mild steel)	cm3/min	250	300	300
positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.020/0.015/0.012
repositioning accuracy (X/Y/Z)	mm	0.005	0.005	0.010/0.008/0.006
CNC system		NEWAY FANUC		
auto chip conveyor		sideway	sideway	sideway
weight	kg	11000	15000	14000

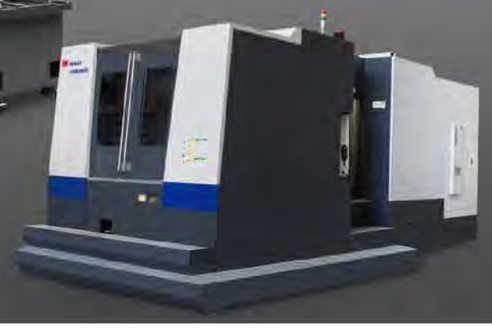
REMARKS : T – Pallet Change
C – Column moving & fixed table VMC
F – 5 Axis VMC

Item	Unit	VM604F
Worktable Size	mm	ϕ650
Worktable Load	kg	300
Axis Travel X/y/z	mm	650/550/500
B/c Axis Rotary Angle	°	±110° /360°
Spindle To Worktable	mm	150~650
Spindle Cneterline To Crossbean Guideway	mm	451
Axis Rapid Traverse X/y/z	m/min	48/48/40
Motor Power	kW	20
Max Spindle Speed	rpm	15000
Spindle Taper		7:24 taper NO.40
Number Of Tools (Disk Type)	pc	30
Tool Shank		MAS403 BT40
Max Tool Dia/length/weight	mm/mm/kg	Φ75/300/8
Atc (T To T)	s	1.8
Drilling (Normalized Carbon Steel)	mm	Φ45
Threading (Normalized Carbon Steel)	mm	M24
Milling (Normalized Carbon Steel)	cm3/min	250
Positioning Accuracy (X/y/z)/(B/c)	mm/sec	0.006/±5"
Repositioning Accuracy (X/y/z)/(B/c)	mm/sec	0.004/±2.5"
Cnc System		SIEMENS
Auto Chip Conveyor		standard
Machine Weight	kg	14000

VM Series CNC Portal Vertical Machine Center

VM Series CNC Vertical Drilling and Milling Center

HM Series CNC Horizontal HMV Machine Center



PARAMETERS

Item	Unit	VM1207B
Worktable Size	mm	1200×1000
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
Spindle Rapid Traversex/y/z	m/min	30/30/24
Motor Power	kW	15/18.5
Max Spindle Speed	rpm	6000
Spindle Bore Taper		7:24 taper NO.50
Number Of Tools (Disc Type)	pv	24
Tool Shank		MAS403 BT50
Max Tool Dia/length/weight	mm/mm/kg	Φ110/350/15
Atc (T To T)	s	2.5
Drilling (Normalized Mild Steel)	mm	Φ50
Threading (Normalized Mild Steel)	mm	M30
Milling And Cutting (Normalized Mild Steel)	cm3/min	300
Positioning Accuracy (X/y/z)	mm	0.O10/0.010/0.008
Repositioning Accuracy (X/y/z)	mm	0.O06/0.006/0.005
Cnc System		NEWAY FANUC / SIEMENS
Auto Chip Conveyor		yes
Weight	kg	15000

[ ]option

Item	Unit	VM601D	
Worktable Size	mm	650×400	650×400
Max Worktable Load	kg	250	250
Axis Travel X/y/z	mm	510/400/350	510/400/350
Spindle Terminal To Worktable	mm	150~500	150~500
Spindle Rapid Traversex/y/z	m/min	446	446
Axis Accelaration (X/y/z)	g	48/48/48	48/48/48
Motor Power	kW	3.7/5.5	3.7/5.5
Max Spindle Speed	rpm	15000	12000[20000]
Spindle Bore Taper		7:24 taper N0.30	7:24 taper N0.30
Spindle Temperature Control		standard	standard
Number Of Tools	pc	16(front)	16(front)
Tool Shank		MAS403 BT30	MAS403 BT30
Max Tool Dia/length/weight	mm/mm/kg	Φ60/250/3	Φ60/250/3
Atc (T To T)	s	1.6	1.6
Drilling (Normalized Mild Steel)	mm	Φ25	Φ25
Threading (Normalized Mild Steel)	mm	M14	M14
Milling And Cutting (Normalized Mild Steel)	cm3/min	100	100
Positioning Accuracy (X/y/z)	mm	0.008	0.008
Repositioning Accuracy (X/y/z)	mm	0.005	0.005
Cnc System		SIEMENS	NEWAY FANUC
Auto Chip Conveyor		option	option
Weight	kg	3000	3000

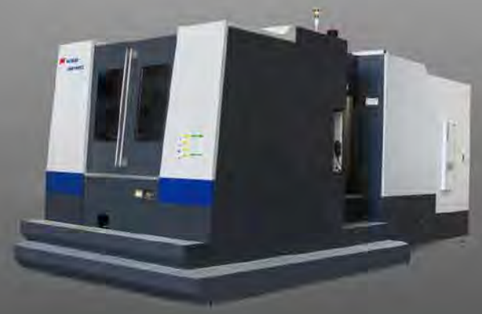
REMARKS : B – Bridge type VMC
D – Tapping Center

Item	Unit	HM50VD			HM50VS	HM63VS/VD	HM80VE	HM80VD	HM100VS/VD
		BT50 std	BT50 HS	BT40 std					
Worktable Size	mm	500×500			500	630×630	800×800	2-800×800	1000×1000
Max Table Load	kg	500			600	1200	1600	1600	2000
Table Indexing		1°[0.001°]			1° [0.001°]	1° [0.001°]	1° [0.001°]	1° [0.001°]	1° [0.001°]
Apc Time	S	10			/	-/20	/	25	25
Table Exchange By		hydro			/	-/hydro	/	servo motor	servo motor
Max Table Speed	r/min	10			10	10	10	10	10
Max Swing Length/height	mm	Φ800×800			Φ800×800	Φ1000×1000	Φ1200×1100	Φ1300×1300	Φ1300×1300
Travel X/y/z/w	mm	900/750/800			900/750/800	1000/850/850	1050/900/900	1250/1000/1100	1400/1020/1050
Spindle To Worktable	mm	100~900	150~950	150~950	150~950	180~1030	140~1040	200~1300	250~1300
Spindle To Worktable Center	mm	50~800			65~815	120~970	100~1000	120~1120	120~1140/80~1100
Rapid Traverse X/y/z	m/min	36	50	36	50	36	36	30	30
Motor Power	kW	11/15	15/18.5	11/15	15/18.5	18.5/22	18.5/22	22/26	22/26
Max Spindle Speed	rpm	6000	10000	8000	20~10000	4500	4500	4500	4500
Spindle Torque	N.m	140/191	95.4/117	70/95.4	95.4/117.7	647/770	647/770	770/910	770/910
Spindle Taper		7:24 taper NO.50		7:24 taper NO.40	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
Number Of Tools	pc	40	40[60/90/120]	24[40]	40	40 (chain type)	40 (chain type)	40 (chain type)	40 (chain type)
Tool Shank		BBT50(ISO50/CAT50)		MAS403 BT40	MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max Tool Dia/length/weight	mm/mm/kg	Φ125/450/25	Φ115/500/20	Φ80/400/8	Φ115/500/20	Φ125/400/25	Φ125/400/25	Φ125/500/35	Φ125/500/35
Max Tool Dia (Empty Neighbor)	mm	Φ250	Φ230	Φ150	Φ230	Φ250	Φ250	Φ250	Φ250
Atc Time (T To T)	s	3.45	2.3	2.1	2.3	3.45	3.45	5.5	5.5
Drilling (Normalized Mild Steel)	mm	Φ35			Φ35	Φ55	Φ55	Φ55	Φ60
Threading (Normalized Mild Steel)	mm	M24			M24	M45	M45	M45	M48
Milling And Cutting (Normalized Mild Steel)	cm^3/min	250			250	600	600	600	900
Positioning Accuracy (X/y/z)	mm	0.010			0.01	0.010	0.010	0.010	0.010
Repositioning Accuracy (X/y/z)	mm	0.006			0.006	0.006	0.006	0.006	0.006
Positioning Accuracy (B)	"	6			6	6	6	6	6
Repositioning Accuracy (B)	"	2			2	2	2	2	2
Cnc System		NEWAY FANUC / SIEMENS							
Auto Chip Conveyor		central chain type			central chain type	double helix + chain type sideway conveyor			
Weight	kg	18000			16000	22000/24000	22000	26000	24000/27000

REMARKS : VS – Single pallet
VD – Double pallets
VE – Standard 'T' Type,Table Size update

[ ]option

HM Series CNC Horizontal HMT Machine Center



PARAMETERS

Item	Unit	HM50TS	HM50TD	HM63TS	HM63TD	HM80TS
Worktable Size	mm	500×500	2-500×500	630×630	2-630×630	800×800
Max Table Load	kg	600	500	1200	1200	1600
Table Indexing		1° [0.001°]	1° [0.001°]	1° [0.001°]	1° [0.001°]	1° [0.001°]
Apc Time	S	/	12	/	20	/
Table Exchange By		/	hydro	/	servo motor	/
Max Table Speed	r/min	10	10	10	10	10
Max Swing Length/height	mm	630×700	630×700	1000×1000	1000×1000	1300×1300
Travel X/y/z/w	mm	750×650×650	750×600×650	1000×850×900	1000×850×900	1400×1050×1050
Spindle To Worktable	mm	50~700	50~700	200~1100	200~1100	250-1300
Spindle To Worktable Center	mm	120~770	100~700	100~950	0~850	120-1170
Rapid Traverse X/y/z	m/min	30/24/30	30/24/30	30	30	24
Motor Power	Kw	11/15	11/15	18.5/22	18.5/22	22/26
Max Spindle Speed	rpm	6000	6000	4500	4500	4500
Spindle Torque	N.m	140/191	140/191	647/770	647/770	770/910
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	pc	24 (disc type)	24 (disc type)	32 (chain type)	32 (chain type)	40 (chain type)
Tool Shank		MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max Tool Dia/length/weight	mm/mm/Kg	Φ110/350/20	Φ110/350/20	Φ125/400/20	Φ125/400/20	Φ125/500/25
Max Tool Dia (Empty Neighbor)	mm	Φ250	Φ250	Φ250	Φ250	Φ250
Atc Time (T To T)	s	3.8	3.8	4.75	4.75	4.75
Drilling (Normalized Mild Steel)	mm	Φ35	Φ35	Φ55	Φ55	Φ55
Threading (Normalized Mild Steel)	mm	M24	M24	M45	M45	M45
Milling And Cutting (Normalized Mild Steel)	cm3/min	250	250	600	600	600
Positioning Accuracy (X/y/z)	mm	0.010	0.010	0.010	0.010	0.010
Repositioning Accuracy (X/y/z)	mm	0.006	0.006	0.006	0.006	0.006
Positioning Accuracy (B)	"	6	6	6	6	6
Repositioning Accuracy (B)	"	2	2	2	2	2
Cnc System		NEWAY FANUC / SIEMENS				
Auto Chip Conveyor		double helix + chain type sideway conveyor				
Weight	kg	12000	13000	18000	21000	20000

[ ]option

REMARKS : TS - Single pallet
TD - Double pallets

Item	Unit	HM80TD	HM100TS	HM100TD	HM100TL
Worktable Size	mm	2-800×800	1000×1000	2-1000×1000	1000×1000
Max Table Load	kg	1600	2000	2000	3500
Table Indexing		1° [0.001°]	1° [0.001°]	1° [0.001°]	1° [0.001°]
Apc Time	S	25	/	25	/
Table Exchange By		servo motor	/	servo motor	/
Max Table Speed	r/min	10	10	10	5.5
Max Swing Length/height	mm	1200×1200	1300×1300	1300×1300	1800×1800
Travel X/y/z/w	mm	1400×1050×1050	1600×1100×1100	1600×1100×1100	2100×1300×1300
Spindle To Worktable	mm	250-1300	250-1350	250-1350	300~1600
Spindle To Worktable Center	mm	0-1050	120-1220	0-1100	120~1420
Rapid Traverse X/y/z	m/min	24	24	24	20
Motor Power	Kw	22/26	22/26	22/26	22/26
Max Spindle Speed	rpm	4500	4500	4500	4500
Spindle Torque	N.m	770/910	770/910	770/910	1155/1365
Spindle Taper		7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
Number Of Tools	pc	40 (chain type)	40 (chain type)	40 (chain type)	60 (chain type)
Tool Shank		MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max Tool Dia/length/weight	mm/mm/Kg	Φ125/500/25	Φ125/500/25	Φ125/500/25	Φ125/600/35
Max Tool Dia (Empty Neighbor)	mm	Φ250	Φ250	Φ250	Φ250
Atc Time (T To T)	s	4.75	4.75	4.75	7.5
Drilling (Normalized Mild Steel)	mm	Φ55	Φ60	Φ60	Φ70
Threading (Normalized Mild Steel)	mm	M45	M48	M48	M50
Milling And Cutting (Normalized Mild Steel)	cm3/min	600	900	900	1000
Positioning Accuracy (X/y/z)	mm	0.010	0.010	0.010	0.015
Repositioning Accuracy (X/y/z)	mm	0.006	0.006	0.006	0.010
Positioning Accuracy (B)	"	6	6	6	6
Repositioning Accuracy (B)	"	2	2	2	2
Cnc System		NEWAY FANUC / SIEMENS			
Auto Chip Conveyor		double helix + chain type sideway conveyor			
Weight	kg	23000	21000	24000	34000

REMARKS : TS - Single pallet
TD - Double pallets
TL - Reverse 'T' Type, Single pallet,Travel update

[ ]option

HM Series CNC Horizontal HMT Machine Center

PM Series CNC High Speed Portal Milling Center

PARAMETERS

Item	Unit	HM125TS	HM125TD	HM125TBS	HM125TBD
Worktable Size	mm	1250×1250	2-1250×1250	1250×1250	2-1250×1250
Max Table Load	kg	4000	4000	4000	4000
Table Indexing		1° [0.001°]	1° [0.001°]	1° [0.001°]	1° [0.001°]
Apc Time	S	/	90	/	90
Table Exchange By		/	hydro	/	hydro
Max Table Speed	r/min	5.5	5.5	5.5	5.5
Max Swing Length/height	mm	2000×2000	2000×1800	2000×2000	2000×1800
Travel X/y/z/w	mm	2200×1500×1500	2200×1500×1500	2200×1500×1500×500	2200×1500×1500×500
Spindle To Worktable	mm	300~1800	300~1800	300~1800	300~1800
Spindle To Worktable Center	mm	120~1620	120~1620	120~1620	120~1620
Rapid Traverse X/y/z	m/min	20	20	20/20/20/5	20/20/20/5
Motor Power	Kw	22/26	22/26	22/26	22/26
Max Spindle Speed	rpm	4500	4500	3500	3500
Spindle Torque	N.m	1155/1365	1155/1365	1155/1365	1155/1365
Spindle Taper		7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50	7:24 taper NO.50
Number Of Tools	pc	60 (chain type)	60 (chain type)	60 (chain type)	60 (chain type)
Tool Shank		MAS403 BT50	MAS403 BT50	MAS403 BT50	MAS403 BT50
Max Tool Dia/length/weight	mm/mm/Kg	Φ125/600/35	Φ125/600/35	Φ125/600/35	Φ125/600/35
Max Tool Dia (Empty Neighbor)	mm	Φ250	Φ250	Φ250	Φ250
Atc Time (T To T)	s	7.5	7.5	7.5	7.5
Drilling (Normalized Mild Steel)	mm	Φ70	Φ70	Φ70	Φ70
Threading (Normalized Mild Steel)	mm	M50	M50	M50	M50
Milling And Cutting (Normalized Mild Steel)	cm3/min	1000	1000	1000	1000
Positioning Accuracy (X/y/z)	mm	0.015	0.015	0.015	0.015
Repositioning Accuracy (X/y/z)	mm	0.010	0.010	0.010	0.010
Positioning Accuracy (B)	"	6	6	6	6
Repositioning Accuracy (B)	"	2	2	2	2
Cnc System		NEWAY FANUC / SIEMENS			
Auto Chip Conveyor		double helix + chain type sideway conveyor (remarks：HM125TBS/TBD boring rod Φ110)			
Weight	kg	35000	35000	35000	38000

[ ]option

REMARKS : TS - Single pallet
TD - Double pallets
TBS - Single pallet with boring
TBD - Double pallets with boring

Item	Unit	PM1220HA	PM1230HA	PM1240HA	PM1620HA	PM1630HA	PM1640HA	PM2030HA
Worktable	mm	1200×2000	1200×3000	1200×4000	1600×2000	1600×3000	1600×4000	2000×3000
Table Load	kg	3500	5500	7000	8000	10000	12000	16000
Table Travel (X Asix)	mm	2200	3200	4200	2200	3200	4200	3200
Carriage Travel (Y Axis)	mm	1200	1200	1200	1800+300[2300+400]			2300+400[2800+400]
Ram Travel (Z Axis)	mm	800	800	800	800[1000]	800[1000]	800[1000]	800[1000]
Spindle Terminal To Worktable	mm	200 ~ 1000	200 ~ 1000	200 ~ 1000	200~1000[200~1200]			
Column Span	mm	1400	1400	1400	1800[2300]	1800[2300]	1800[2300]	2300[2800]
Tool Shank Size		BT50	BT50	BT50	BT50	BT50	BT50	BT50
Speed	r/min	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000
Max Output Power	N.m	788/1295	788/1295	788/1295	525/647	525/647	525/647	770/910
Motor Power	kW	15/18.5	15/18.5	15/18.5	15/18.5[22/26]	15/18.5[22/26]	15/18.5[22/26]	22/26
Ram Section	mm	400×320	400×320	400×320	400×400	400×400	400×400	400×400
X、Y、Z Axis Rapid Traverse	m/min	24/24/15	15/24/15	15/24/15	20/18/15	20/18/15	15/18/15	15/15/12
Tool Change System		24[32/40/60]			[24/32/40/60]			
Max Tool Dia/length/weight	mm/mm/kg	Φ110/350/15	Φ110/350/15	Φ110/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15
Max Tool Dia (Empty Neighbor)	mm	Φ200	Φ200	Φ200	Φ200	Φ200	Φ200	Φ200
Positioning Accuracy (X/y/z)	mm	0.012/0.012/0.012	0.017/0.012/0.012	0.022/0.012/0.012	0.016/0.016/0.016	0.020/0.016/0.016	0.025/0.016/0.016	0.020/0.020/0.016
Repositioning Accuracy (X/y/z)	mm	0.008/0.008/0.008	0.012/0.008/0.008	0.016/0.008/0.008	0.010/0.010/0.010	0.012/0.010/0.010	0.016/0.010/0.010	0.012/0.012/0.010
Cnc System		NEWAY FANUC / SIEMENS						
Weight	kg	19000	23000	26000	28000	30000	35000	41000

REMARKS : HA - High Speed,Design Update Version A

[ ]option

PM Series CNC High Speed Portal Milling Center

PARAMETERS

Item	Unit	PM2040HA	PM2050HA	PM2060HA	PM2530HA	PM2540HA	PM2550HA	PM2560HA
Worktable	mm	2000×4000	2000×5000	2000×6000	2500×3000	2500×4000	2500×5000	2500×6000
Table Load	kg	20000	23000	26000	18000	22000	25000	30000
Table Travel (X Asix)	mm	4200	5200	6200	3200	4200	5200	6200
Carriage Travel (Y Axis)	mm	2300+400[2800+400]			2800+400[3200]	2800+400[3200]	2800+400[3300+400]	
Ram Travel (Z Axis)	mm	800[1000]	800[1000]	800[1000]	1000[1250]	1000[1250]	1000[1250]	1000[1250]
Spindle Terminal To Worktable	mm	200~1000[200~1200]			200~1200[250~1500]			
Column Span	mm	2300[2800]	2300[2800]	2300[2800]	2800[3200]	2800[3200]	2800[3300]	2800[3300]
Tool Shank Size		BT50	BT50	BT50	BT50	BT50	BT50	BT50
Speed	r/min	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000	40 ~ 6000
Max Output Power	N.m	770/910	770/910	770/910	770/910	770/910	770/910	770/910
Motor Power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26
Ram Section	mm	400×400	400×400	400×400	400×400[420x420]	400×400[420x420]	400×400[420x420]	400×400[420x420]
X、Y、Z Axis Rapid Traverse	m/min	15/15/12	12/15/12	12/15/12	15/12/12	15/12/12	12/12/12	12/12/12
Tool Change System		[24/32/40/60]			[24/32/40/60]			
Max Tool Dia/length/weight	mm/mm/kg	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15
Max Tool Dia (Empty Neighbor)	mm	Φ200	Φ200	Φ200	Φ200	Φ200	Φ200	Φ200
Positioning Accuracy (X/y/z)	mm	0.025/0.020/0.016	0.030/0.020/0.016	0.035/0.020/0.016	0.020/0.025/0.020	0.025/0.025/0.020	0.030/0.025/0.020	0.035/0.025/0.020
Repositioning Accuracy (X/y/z)	mm	0.016/0.012/0.010	0.020/0.012/0.010	0.024/0.012/0.010	0.012/0.016/0.012	0.016/0.016/0.012	0.020/0.016/0.012	0.024/0.016/0.012
Cnc System		NEWAY FANUC / SIEMENS						
Weight	kg	45000	50000	55000	45000	50000	58000	65000

[ ]option REMARKS : HA – High Speed,Design Update Version A

Item	Unit	PM2580HA	PM25100HA	PM3050HA	PM3060HA	PM3080HA	PM30100HA
Worktable	mm	2500×8000	2500×10000	3000×5000	3000×6000	3000×8000	3000×10000
Table Load	kg	35000	40000	30000	35000	40000	45000
Table Travel (X Asix)	mm	8500	10500	5200	6200	8500	10500
Carriage Travel (Y Axis)	mm	2800+400[3300+400]		2800+400[3300+400]			
Ram Travel (Z Axis)	mm	1000[1250]	1000[1250]	1000[1250]	1000[1250]	1000[1250]	1000[1250]
Spindle Terminal To Worktable	mm	200~1200[250~1500]		200~1200[250~1500]		200~1200[250~1500]	
Column Span	mm	2800[3300]	2800[3300]	3300[3800]	3300[3800]	3300[3800]	3300[3800]
Tool Shank Size		BT50	BT50	BT50	BT50	BT50	BT50
Speed	r/min	40 ~ 6000	40 ~ 6000	40 ~ 6000	40~6000	40~6000	40~6000
Max Output Power	N.m	770/910	770/910	770/910	770/910	770/910	770/910
Motor Power	kW	22/26	22/26	22/26	22/26	22/26	22/26
Ram Section	mm	400×400[420x420]	400×400[420x420]	400×400[420x420]	400×400[420x420]	400×400[420x420]	400×400[420x420]
X、Y、Z Axis Rapid Traverse	m/min	10/12/12	10/12/12	12/12/12	12/12/12	10/12/12	10/12/12
Tool Change System		[24/32/40/60]		[24/32/40/60]			
Max Tool Dia/length/weight	mm/mm/kg	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15	Φ105/350/15
Max Tool Dia (Empty Neighbor)	mm	Φ200	Φ200	Φ200	Φ200	Φ200	Φ200
Positioning Accuracy (X/y/z)	mm	0.045/0.025/0.020	0.055/0.025/0.020	0.030/0.030/0.020	0.035/0.030/0.020	0.045/0.030/0.020	0.055/0.030/0.020
Repositioning Accuracy (X/y/z)	mm	0.032/0.016/0.012	0.040/0.016/0.012	0.020/0.020/0.012	0.024/0.020/0.012	0.032/0.020/0.012	0.040/0.020/0.012
Cnc System		NEWAY FANUC / SIEMENS					
Weight	kg	85000	95000	62000	70000	90000	100000

REMARKS : HA – High Speed,Design Update Version A [ ]option

PM Series CNC High Speed Portal Milling Center

Electric Spindle Series

PM Series CNC Portal Milling Center with 5 axes

PARAMETERS

Item	Unit	PM1220V	PM1630V	PM2040V
worktable	mm	11200×2000	1600×3000	2000×4000
table load	kg	3500	10000	20000
table travel (X asix)	mm	2200	3200	4200
carriage travel (Y axis)	mm	1200	1800+300[2300+400]	2300+400[2800+400]
ram travel (Z axis)	mm	800	800[1000]	800[1000]
spindle terminal to worktable	mm	150 ~ 950	170 ~ 970[170 ~ 1170]	170 ~ 970[170 ~ 1170]
column span	mm	1400	1800[2300]	2300[2800]
tool shank size		HSK-A63	HSK-A63	HSK-A63
speed	r/min	10 ~ 18000	10 ~ 18000	10 ~ 18000
max output power	N.m	87/130	87/130	87/130
motor power	kW	25/30	25/30	25/30
ram section	mm	400×320	380×380	380×380
X、Y、Z axis rapid traverse	m/min	30/30/24	20/20/20	15/15/15
max tool dia/length/weight		24[32/40/60]	[24/32/40/60]	[24/32/40/60]
max tool dia (empty neighbor)	mm/mm/kg	Φ80/300/8	Φ80/300/8	Φ80/300/8
tool change T to T	mm	Φ150	Φ150	Φ150
positioning accuracy (X/Y/Z)	mm	0.012/0.012/0.012	0.020/0.016/0.016	0.025/0.020/0.016
repositioning accuracy (X/Y/Z)	mm	0.008/0.008/0.008	0.012/0.010/0.010	0.016/0.012/0.010
CNC system		NEWAY FANUC		
weight	kg	19000	30000	45000

[ ]option

REMARKS : V – Electric spindle

Item	Unit	PM2040U	PM2060U	PM2560U	PM2580U
worktable load	kg	20000	30000	30000	35000
worktable size	mm	2000x4000	2000x6000	2500x6000	2500x8000
worktable travel	mm	4200	6200	6200	8500
carriage travel	mm	3200	3200	3200	3200
spindle to worktable	mm	0–1000	0–1000	200–1200	200–1200
columns span	mm	2800	2800	3300	3300
tool shank		HSK A100	HSK A100	HSK A100	HSK A100
speed	r/min	100–15000	100–15000	100–15000	100–15000
max export torque	N.m	120/145	120/145	120/145	120/145
spindle power	kW	45	45	45	45
A/C axis rotation angle	°	±105/±360	±105/±360	±105/±360	±105/±360
A/C axis angle positioning accuracy	Arc second	±5	±5	±5	±5
A/C axis angle repositioning accuracy	Arc second	±3	±3	±3	±3
ram section	mm	420x400	420x400	420x400	420x400
X、Y、Z axis rapid traverse	m/min	12/12/10	10/12/10	10/12/10	10/12/10
max tool dia/Length/weight	mm/mm/kg	ϕ220/400/20	ϕ220/400/20	ϕ220/400/20	ϕ220/400/20
max tool dia (empty neighbor cell)	mm	ϕ220	ϕ220	ϕ220	ϕ220
ATC time	s	3.55	3.55	3.55	3.55
positioning accuracy (X/Y/Z)	mm	0.025/0.020/0.016	0.035/0.020/0.016	0.035/0.025/0.020	0.045/0.025/0.020
re-positioning accuracy (X/Y/Z)	mm	0.016/0.012/0.010	0.024/0.012/0.010	0.024/0.016/0.012	0.028/0.016/0.012
control system		SIEMENS			
machine weight	kg	45000	55000	65000	85000

REMARKS : U – 5 axis milling center

PM Series CNC Heavy Duty Portal Milling Center

PM Series CNC Gantry Milling Center

PARAMETERS

Item	Unit	PM2030SA	PM2040SA	PM2050SA	PM2060SA	PM2560S
worktable	mm	2000 × 3000	2000 × 4000	2000 × 5000	2000 × 6000	2500 × 6000
table load	kg	16000	20000	25000	30000	30000
table travel (X asix)	mm	3200	4200	5200	6200	6200
carriage travel (Y axis)	mm	2700	2700	2700	2700	3200+400 (tool change) [3700+150 (tool change)]
ram travel (Z axis)	mm	1250	1250	1250	1250	1250
spindle terminal to worktable	mm	250 ~ 1500	250 ~ 1500	250 ~ 1500	250 ~ 1500	250 ~ 1500
column span	mm	2700	2700	2700	2700	3200[3500]
tool shank size		BT50	BT50	BT50	BT50	BT50
speed	r/min	20~2000	20~2000	20~2000	20~2000	20~2000
max output power	N.m	1993/2458	1993/2458	1993/2458	1993/2458	1993/2458
motor power	kW	30/37	30/37	30/37	30/37	30/37
ram section	mm	450 × 450	450 × 450	450 × 450	450 × 450	450 × 450
X、Y、Z axis rapid traverse	m/min	10/10/10	10/10/10	12/10/10	12/10/10	8/10/10
max tool dia/length/weight	mm/mm/kg	Φ125/350/20	Φ125/350/20	Φ125/350/20	Φ125/350/20	Φ125/350/20
max tool dia (empty neighbor)	mm	Φ225	Φ225	Φ225	Φ225	Φ225
tool change T to T	s	2.91	2.91	2.91	2.91	2.91
positioning accuracy (X/Y/Z)	mm	0.030/0.035/0.030	0.035/0.035/0.030	0.040/0.035/0.030	0.045/0.035/0.030	0.045/0.035/0.030
repositioning accuracy (X/Y/Z)	mm	0.015/0.017/0.013	0.019/0.017/0.013	0.023/0.017/0.013	0.027/0.017/0.013	0.027/0.017/0.013
CNC system		NEWAY FANUC / SIEMENS				
weight	kg	46000	51000	55000	60000	75000

[ ]option

REMARKS : SA – Heavy Duty,Design Update Version A
S – Heavy Duty

Item	Unit	PM3080MSA	PM30100MSA	PM30120MSA	PM3080MS	PM30100MS	PM30120MS
worktable	mm	3000 × 8000	3000 × 10000	3000 × 12000	3000 × 8000	3000 × 10000	3000 × 12000
table load	kg/ m^2	15000	15000	15000	15000	15000	15000
table travel (X asix)	mm	8500+500(head change)	10500+500(head change)	12500+500(head change)	8500+500(head change)	10500+500(head change)	12500+500(head change)
carriage travel (Y axis)	mm	4500(tool change incl.)	4500(tool change incl.)	4500(tool change incl.)	4500+450(tool change)	4500+450(tool change)	4500+450(tool change)
ram travel (Z axis)	mm	1250	1500	1500	1500	1500	1500
spindle terminal to worktable	mm	500 ~ 1750	500 ~ 1750	500 ~ 1750	500 ~ 2000	500 ~ 2000	500 ~ 2000
column span	mm	4200	4200	4200	4200	4200	4200
tool shank size		BT50	BT50	BT50	BT50	BT50	BT50
speed	r/min	20 ~ 2000	20 ~ 2000	20 ~ 2000	20 ~ 2000	20 ~ 2000	20 ~ 2000
max output power	N.m	1993/2458	1993/2458	1993/2458	2600/4125	2600/4125	2600/4125
motor power	kW	30/37	30/37	30/37	51/81	51/81	51/81
ram section	mm	450 × 450	450 × 450	450 × 450	500 × 500	500 × 500	500 × 500
X、Y、Z axis rapid traverse	m/min	12/10/10	12/10/10	12/10/10	12/12/10	12/12/10	12/12/10
max tool dia/length/weight	mm/mm/kg	Φ125/350/20	Φ125/350/20	Φ125/350/20	Φ125/350/20	Φ125/350/20	Φ125/350/20
max tool dia (empty neighbor)	mm	Φ225	Φ225	Φ225	Φ225	Φ225	Φ225
tool change T to T	s	2.91	2.91	2.91	2.91	2.91	2.91
positioning accuracy (X/Y/Z)	mm	0.050/0.045/0.030	0.055/0.045/0.030	0.060/0.045/0.030	0.050/0.035/0.025	0.055/0.035/0.025	0.060/0.035/0.025
repositioning accuracy (X/Y/Z)	mm	0.030/0.025/0.013	0.034/0.025/0.013	0.038/0.025/0.013	0.030/0.025/0.015	0.034/0.025/0.015	0.038/0.025/0.015
CNC system		NEWAY FANUC / SIEMENS					
weight	kg	110000	130000	145000	120000	140000	155000

REMARKS : MSA – Moving Column,Design Update Version A
MS – Moving Column

Gantry Type Drilling Center

drilling, threading, reaming and milling full closure control

system further development, automatic programing

two worktable

coolant through spindle, powerful torque, max. milling diameter 80mm

16T magazine

SMG Series Valve Ball Grinding Machines

Patent:

a digital controlled ball grinding machine

Patent number:

Patent:

a compact and rigid machine bed structure

Patent number:

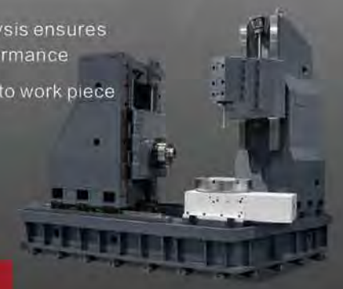
conjugate curve principle

ball vertical installation

modularized design, ball diameter 75-2400 spheroidal grinding

overall static and modal analysis ensures static rigid and dynamic performance

easy operation, easy access to work piece and spindle



PARAMETERS

Item	Unit	PM1540D	PM2050D	PM3250D
worktable	mm	1500x1500(2)	2150×2150(2)	3200×3200，3200×1400
table load	kg/m2	10000	10000	10000
table travel (X asix)	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
speed	r/min	20~2500	20~2500	20~2500
max output power	N.m	280/331	736/853.7	736/853.7
motor power	kW	22/26	27/31.3	27/31.3
ram section	mm	480X480	480X480	480X480
X、Y、Z axis rapid traverse	m/min	8	8	8
max tool dia/length/weight	mm/mm/kg	ϕ200/400/25	ϕ200/400/25	ϕ200/400/25
max tool dia (empty neighbor)	mm	250	250	250
tool change T to T	s	4	4	4
positioning accuracy (X/Y/Z)	mm	0.02/1000	0.02/1000	0.08/0.06/0.03
repositioning accuracy (X/Y/Z)	mm	0.01/1000	0.01/1000	0.05/0.04/0.015
CNC system		NEWAY FANUC / SIEMENS	NEWAY FANUC / SIEMENS	NEWAY FANUC / SIEMENS
weight	kg	30000	35000	40000

REMARKS： D－Gantry type drilling center

Item	Unit	SMG32H	SMG63H	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"
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	200/300	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	6500	22000	85000

REMARKS： H－Full Functionality

FB Series CNC Floor Type Boring and Milling Machine

PB Series CNC Boring and Milling Machine

PARAMETERS

Item	Unit	FB130HA	FB160HA
Worktable Size	mm	2000×2000	2500×2500
Max Worktable Load	kg	20000	30000
T Slot (No.*width)	mm	9×28	11×28
Worktable Index		0.001°	0.001°
Max Rotary Speed	r/min	2	1
Worktable Size	mm	2500×4000	2500×6000
Column Travel X	mm	4000+1000×N	6000+2000×N
Longitudinal Travely	mm	2000+500×N	3000+500×N
Ram Travelz	mm	800	900
Spindle Travel W	mm	800	1000
Rapid Traverse X/y/z/w	m/min	8/8/6/6	6/8/5/4
Motor Power	kW	37/44	74/88
Max Spindle Speed	rpm	2~1500	2~1250
Spindle Taper		BT50	BT50
Boring Shaft Dia	mm	Φ130	Φ160
Boring Shaft Torque	N.m	2500	5000
Axial Boring Shaft Resistance	N.m	25000	50000
Milling Shaft Head Dia	mm	Φ221.44	Φ280
Milling Shaft Torque	N.m	3460/4150	6850/8220
Ram Section Size (L×w)	mm	380×420	440×480
Number Of Tools	pc	40 (chain)	40 (chain)
Tool Shank		MAS403 BT50	MAS403 BT50
Max Tool Dia/length/weigh	mm/mm/kg	Φ125/400/25	Φ125/400/25
Max Tool Dia (Empty Neighbor Sell)	mm	Φ250	Φ250
Atc (T To T)	s	5.5	13
Positioning (X/y/z)	mm	0.032/1000	0.032/1000
Repositioning (X/y/z)	mm	0.018/1000	0.018/1000
Positioning (W)	mm	0.032/1000	0.032/1000
Repositioning (W)	mm	0.018/1000	0.018/1000
Control System		SIEMENS	SIEMENS
Chip Confryor		chain type	chain type
Machine Weight	kg	75000	110000

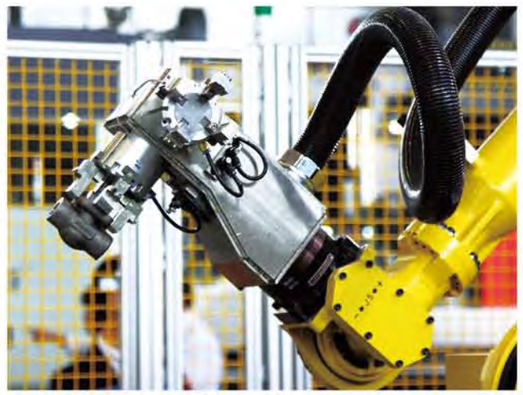
REMARKS : HA – Full Functionality ,Design Update Version A

Item	Unit	PB110H	PB130H
worktable size	mm	1400X1600	1600X1800/2000X2000
worktable load	kg	8000	15000/20000
T slot width	mm	28	28
min worktable index		0.001°	0.001°
max rotary speed	r/min	2	2
worktable travel X	mm	2500	3000
headstock travel Y	mm	2000	2000
column Z	mm	1500	1600
spindle axial W	mm	600	800
worktable B	°	360	360
X/Y/Z/W	m/min	6/6/6/2	6/6/6/2
X/Y/Z/W	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
axial boring shaft resistance	N	15000	25000
milling shaft head dia	mm	Φ221.44	Φ221.44
milling shaft torque	N.m(30min)	2150/2590	2837/3868
number of tools		40 (chain)	40 (chain)
tool shank		MAS403 BT50	MAS403 BT50
max tool dia/length/weigh	mm/mm/kg	Φ125/400/25	Φ125/400/25
max tool dia (empty neighbor sell)	mm	Φ250	Φ250
positioning (X/Y/Z)	mm	0.02	0.02
repositioning (X/Y/Z)	mm	0.015	0.015
positioning (W)	mm	0.025	0.025
repositioning (W)	mm	0.02	0.02
positioning (B)		15"	15"
repositioning (B)		7"	7"
control system		NEWAY FANUC	NEWAY FANUC
chip confryor		helix+chain type	chain type
weight	kg	32000	40000

REMARKS : H – Full Functionality

Automatic Robot Team

Neway designs and manufactures various automatic production lines (FMS) and flexible manufacture system dedicated for customers according to customers' needs; selects most appropriate models; determines process and process orders; selects proper tools; designs fixtures; decides loading and unloading plan; and finalize the overall layout of the automatic production line.

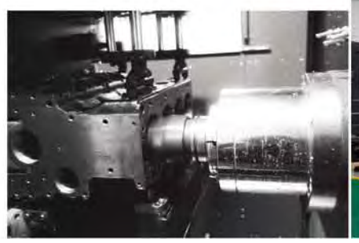


Automatic production line for cylinders

Buyer presentation

Model: HM634HP

Work piece：Cylinder
Material: ASTM A–126



Small parts production line

Buyer presentation
Model: NL251H

Work piece: check valve body
Material: Stainless steel
Tolerance: 2mm each side, soled port

Shaft production line

Buyer presentation
Model: NL504SA+VM903H

Work piece: elevator shaft
Material: ASTM 1045

1

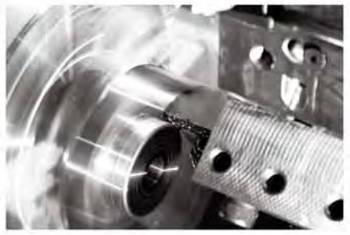
Car parts production line

Buyer presentation

Model: NL201HC

Work piece: generator jaws

Material： ASTM A105N



Automatic production line

Buyer presentation

1.Model: NL322H+VM903H

Work piece: Wheel hub

Material:ASTM A536

2.Model: NL322H+VM1103S+VM1103H

Work piece: retarder stator

Material: ASTM A536

2