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N SERIES MACHINING CENTER

NHR / NHRD / NQ / NQD / NHRLD / NHT

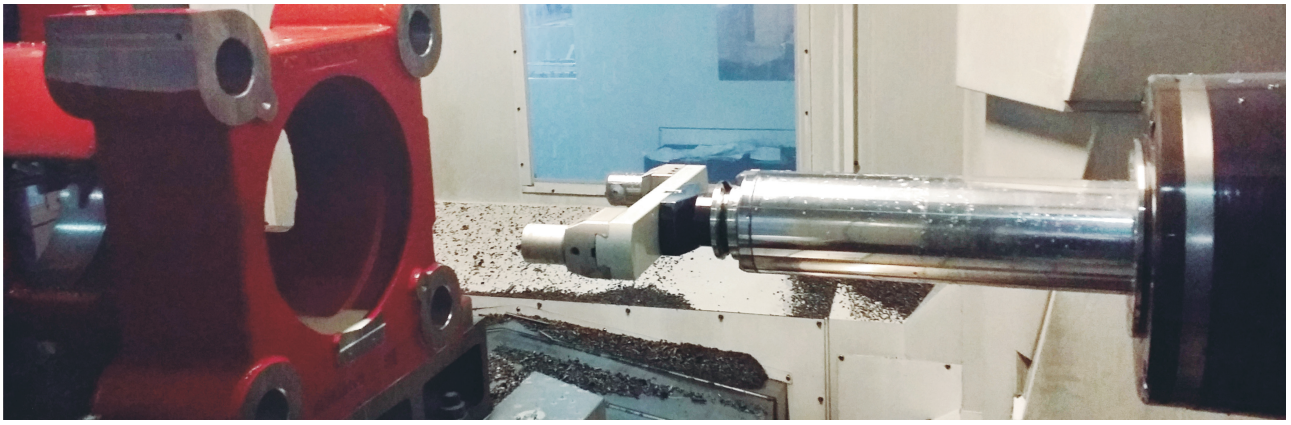
HISKN

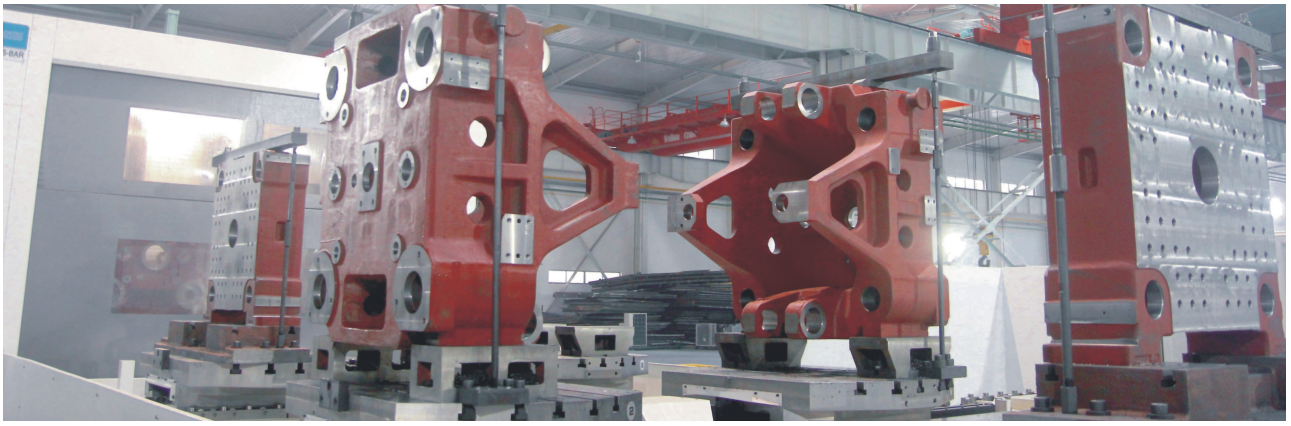
PRODUCT INTRODUCTION

The machine adopts advanced T type bed structure, gantry type column, central box layout, strong rigidity and high precision retention, which is suitable for the rough and finishing requirements of precision level box parts.

Products are widely used in automotive, rail transit, valves, mining machinery, textile machinery, plastic machinery, ships, electricity and other areas.

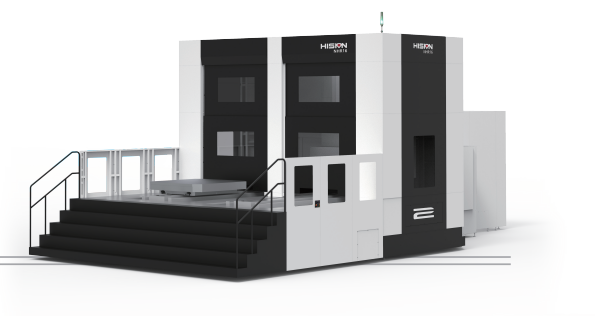






N SERIES MACHINING CENTER

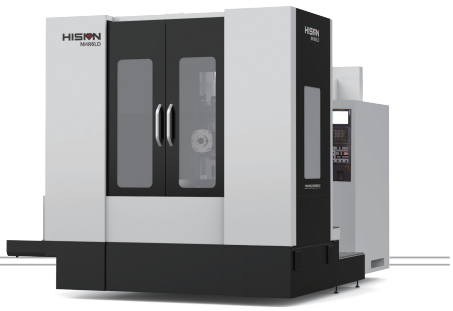
NHR6 [Page 05]
NHR8 [Page 05]
NHR10 [Page 05]
NHR12 [Page 05]
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NHR6LD [Page 21]
NHR8LD [Page 21]
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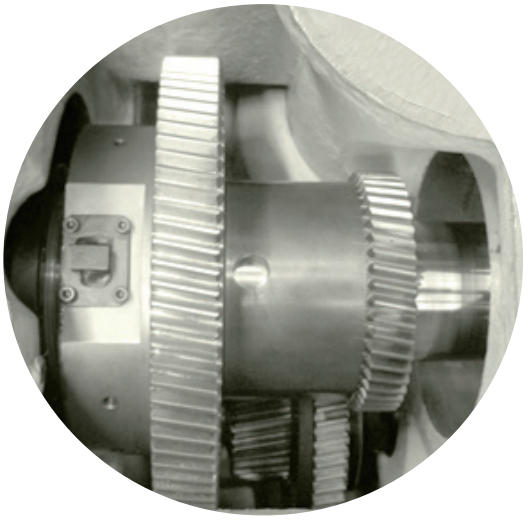


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NHT13 [Page 24]
NHT13r [Page 24]
NHT13Pr [Page 24]
NHT15r [Page 24]



NHR/NHRD

This model adopts an advanced T-shaped bed structure, gantry style columns, and upright box layout, with strong rigidity and high precision retention, suitable for the processing of precision box components. The product is widely used in fields such as automobiles, rail transit, aviation, valves, mining machinery, textile machinery, plastic machinery, ships, and electricity.



Strong Main Drive

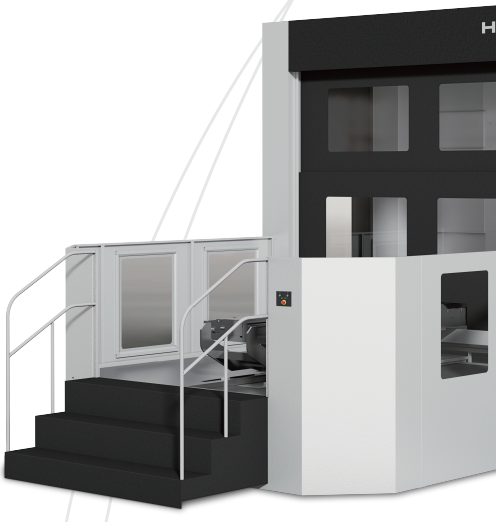
The spindle box adopts two-stage gear speed change to ensure high torque output at low speed. The spindle bearing adopts the combination of angular contact bearing and double row cylindrical roller bearing to meet the requirements of heavy cutting.

W Axis Function

It has a W axis function with a stroke of 535mm and a diameter of 130mm, guided by a high-precision linear guide rail, and driven directly by a ball screw and a servo motor.







NHR/NHRD

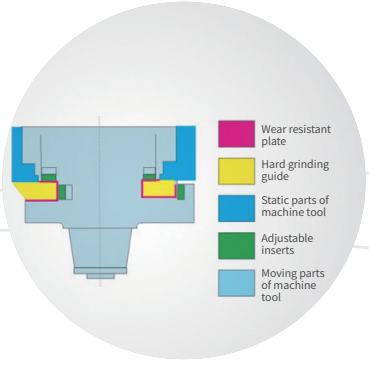


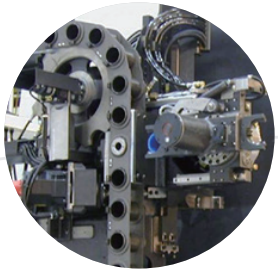
CNC Turntable With Patented Technology

The patented CNC turntable adopts special YRT turntable bearings, with three rows of rollers for axial and radial support. The clamping torque of the table is large, and the anti overturning torque is strong.

Y-Axis Guide Rail Structure

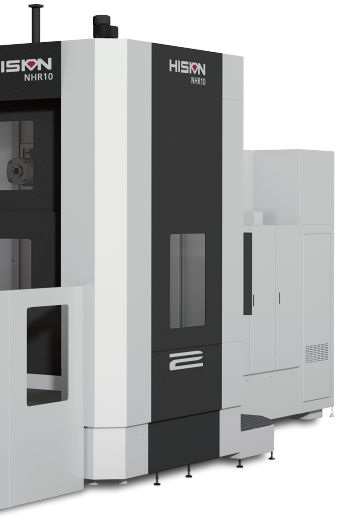
After quenching and grinding, the guide rail has large section size and good rigidity. The symmetry of thermal deformation in all directions is ensured through seven contact surfaces.





Arm Type Tool Magazine

HISION tool magazine, arm imported from Japan, with stable and reliable performance.





NHR SERIES

Items	Unit	NHR6	NHR8	NHR10	NHR12
» Machining Range					
X travel	mm	1050	1350	1800	2000
Y travel	mm	850	980	1500	1500
Z travel	mm	900	1000	1350	1350
W travel	mm	-----	535(Option)	535(Option)	535(Option)
Spindle center to table surface	mm	0-850	0-980	0-1500	0-1500
Spindle nose to table center	mm	200-1100	230-1230	300-1650	350-1700
» Table					
Table size	mm	630×630	800×800	1000×1000	1250×1250
T slot	mm	5×22×125	5×22×160	7×22×125	9×22×125
Table load	kg	1300	2000	3000	3000
Pallet indexing	°	1° ×360	1° ×360	1° ×360	1° ×360
Pallet change type		Rotary type	Rotary type	Rotary type	Rotary type
Pallet quantity		2	2	2	2
» Feed					
Cutting feed rate (X/Y/Z)	m/min	12/12/12	12/12/12	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	32/30/32	30/24/30	24/20/24	24/20/24
» Spindle					
Spindle speed	rpm	6000	6000	6000	6000
Spindle power	kW	18.5/22	18.5/22	22/26	22/26
Spindle torque	N.m	703/837	703/837	837/989	837/989
Spindle taper		BT50	BT50	BT50	BT50
Pull stud		P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403
Boring bar diameter	mm	-----	Φ130(Option)	Φ130(Option)	Φ130(Option)
» Tool Magazine					
Tool magazine capacity	T	40	40	40	40
Max. tool dia. (Adjacent/vacant)	mm	Φ120 / Φ240	Φ120 / Φ240	Φ120 / Φ240	Φ120 / Φ240
Max. tool length	mm	550	550	650	650
Max. tool weight	kg	30	30	30	30
» Other					
Power capacity	kVA	45	45	55	55
Machine weight	t	17	22	32	33
Machine size(L×W×H)	mm	6750×4650×3800	7530×5000×4300	9000×5200×4600	9000×5200×4600

Standard Configuration

1. Controller: FANUC 0i
2. Gear box drive
3. 1° index pallet
4. 40T ATC
5. APC (Auto pallets changer)
6. Pneumatic,hydraulic and lubrication system
7. Spindle oil chiller
8. Cutting cooling
9. Internal helix chip conveyor
10. 3-color signal lamp, working light
11. Full enclosure with top cover
12. Standard accessories
13. Common maintenance tools
14. CE Mark (EU region)

Option Configuration

1. Controller: SIEMENS
2. 0.001° index pallet
3. T slot table enlarge
4. Three speed gearbox (5000RPM)
5. CTS (2/3/7Mpa)
6. 60/90/120T tool magazine
7. Screw hole table (NHR6/NHR8)
8. W axis function (Φ130mm，except NHR6)
9. AC for electrical cabinet (NHR6/NHR8)
10. Linear scale
11. Workpiece probe
12. Tool setter
13. Oil skimmer
14. Air gun
15. Water gun

NHRD SERIES

Items	Unit	NHR8D	NHR10D	NHR12D
» Machining Range				
X travel	mm	1350	1800	2000
Y travel	mm	980	1500	1500
Z travel	mm	1000	1350	1350
W travel	mm	535(Option)	535(Option)	535(Option)
Spindle center to table surface	mm	0-980	100-1600	100-1600
Spindle nose to table center	mm	230-1230	300-1650	350-1700
» Table				
Table size	mm	800×800	1000×1000	1250×1250
T slot	mm	5×22×160	7×22×125	9×22×125
Table load	kg	2000	3000	3000
Pallet indexing	°	1° ×360	1° ×360	1° ×360
Pallet change type		-----	-----	-----
Pallet quantity		-----	-----	-----
» Feed				
Cutting feed rate (X/Y/Z)	m/min	12/12/12	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	30/24/30	24/20/24	24/20/24
» Spindle				
Spindle speed	rpm	6000	6000	6000
Spindle power	kW	18.5/22	22/26	22/26
Spindle torque	N.m	703/837	837/989	837/989
Spindle taper		BT50	BT50	BT50
Pull stud		P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403
Boring bar diameter	mm	Φ130(Option)	Φ130(Option)	Φ130(Option)
» Tool Magazine				
Tool magazine capacity	T	40	40	40
Max. tool dia. (Adjacent/vacant)	mm	Φ120 / Φ240	Φ120 / Φ240	Φ120 / Φ240
Max. tool length	mm	550	650	650
Max. tool weight	kg	30	30	30
» Other				
Power capacity	kVA	45	55	55
Machine weight	t	20	30.5	31.5
Machine size(L×W×H)	mm	5420×4650×4300	6130×5200×4600	6130×5200×4600

Standard Configuration

1. Controller: FANUC 0i
2. Gear box drive
3. 1° index pallet
4. 40T ATC
5. Pneumatic,hydraulic and lubrication system
6. Spindle oil chiller
7. Cutting cooling
8. Internal helix chip conveyor
9. 3-color signal lamp, working light
10. Full enclosure with top cover
11. Standard accessories
12. Common maintenance tools
13. CE Mark (EU region)

Option Configuration

1. Controller: SIEMENS
2. 0.001° index pallet
3. T slot table enlarge
4. Three speed gearbox (5000RPM)
5. CTS (2/3/7Mpa)
6. 60/90/120T arm tool magazine
7. Y travel 1700mm
8. W axis function (Φ130mm)
9. Linear scale
10. Workpiece probe
11. Tool setter
12. Oil skimmer
13. Air gun
14. Water gun

NHR SERIES

Items	Unit	NHR16	NHR16D
» Machining Range			
X travel	mm	2500	2500
Y travel	mm	1850	2000
Z travel	mm	1500	1500
W travel	mm	700	700
Spindle center to table surface	mm	0-1850	120-2120
Spindle nose to table center	mm	580-2080	580-2080
» Table			
Table size	mm	1600×1800	1600×1800
T slot	mm	7×22×200	7×22×200
Table load	kg	8000	10000
Pallet indexing	°	0.001	0.001
Pallet change type		Parallel type	-----
Pallet quantity		2	-----
» Feed			
Cutting feed rate (X/Y/Z)	m/min	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	10/10/10	10/10/10
» Spindle			
Spindle speed	rpm	2500	2500
Spindle power	kW	30/37	30/37
Spindle torque	N.m	1846/2277	1846/2277
Spindle taper		BT50	BT50
Pull stud		P50T-2-MAS403	P50T-2-MAS403
Boring bar diameter	mm	Φ130	Φ130
» Tool Magazine			
Tool magazine capacity	T	40 (Option)	40 (Option)
Max. tool dia. (Adjacent/vacant)	mm	Φ120 / Φ240	Φ120 / Φ240
Max. tool length	mm	650	650
Max. tool weight	kg	30	30
» Other			
Power capacity	kVA	84	64
Machine weight	t	55	46
Machine size (L×W×H)	mm	13200×7300×6000	8030×7300×6000

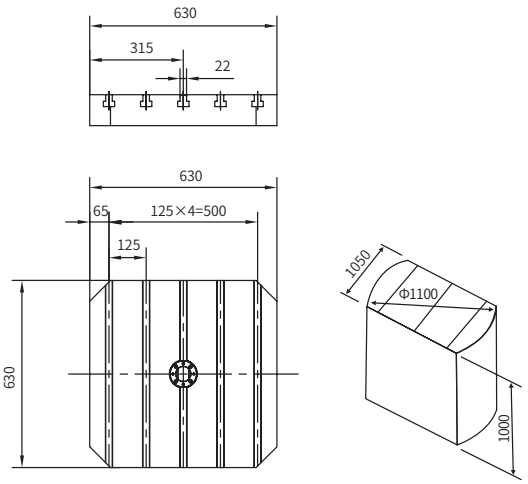
Standard Configuration

1. Controller: FANUC 0i
2. Gear box drive
3. NC table index 0.001°
4. Pneumatic,hydraulic and lubrication system
5. Spindle oil chiller
6. Cutting cooling
7. Internal helix chip conveyor
8. 3-color signal lamp, working light
9. Full enclosure with top cover (NHR16D option)
10. Standard accessories
11. Common maintenance tools
12. External chain type chip conveyor
13. CE Mark (EU region)

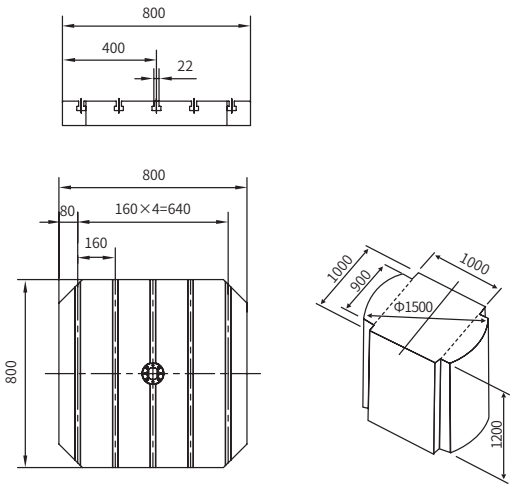
Option Configuration

1. Controller: SIEMENS
2. Axis travel increase
3. T slot table enlarge
4. CTS (2/3/7Mpa)
5. 40/60/90/120T tool magazine
6. W axis function (Φ130mm)
7. Linear scale
8. Workpiece probe
9. Tool setter
10. Oil skimmer
11. Air gun
12. Water gun

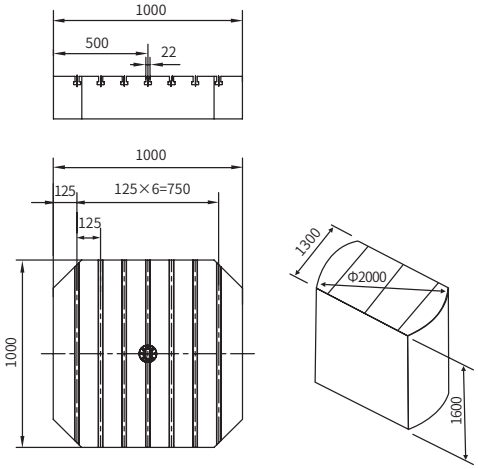
Worktable Size and Workpiece Clamping Range



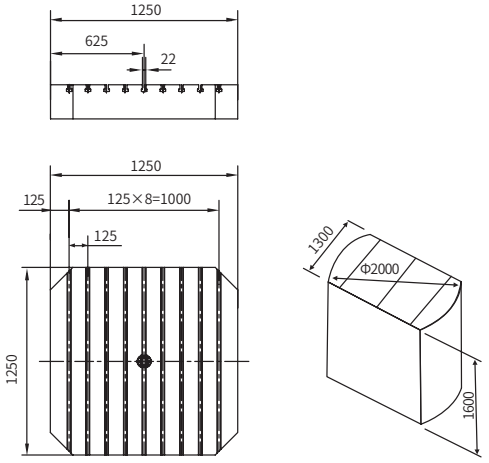
NHR6 Worktable size



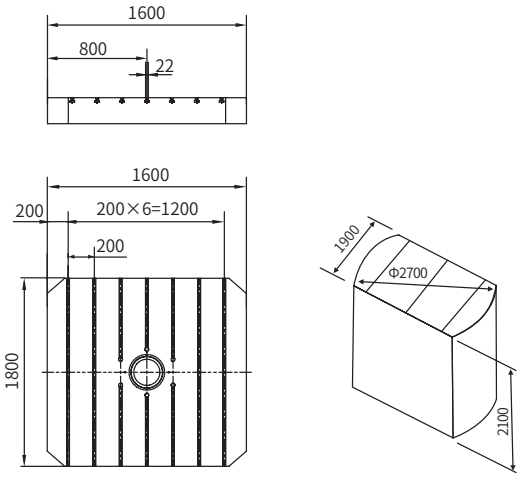
NHR8 Worktable size



NHR10 Worktable size



NHR12 Worktable size



NHR16 Worktable size

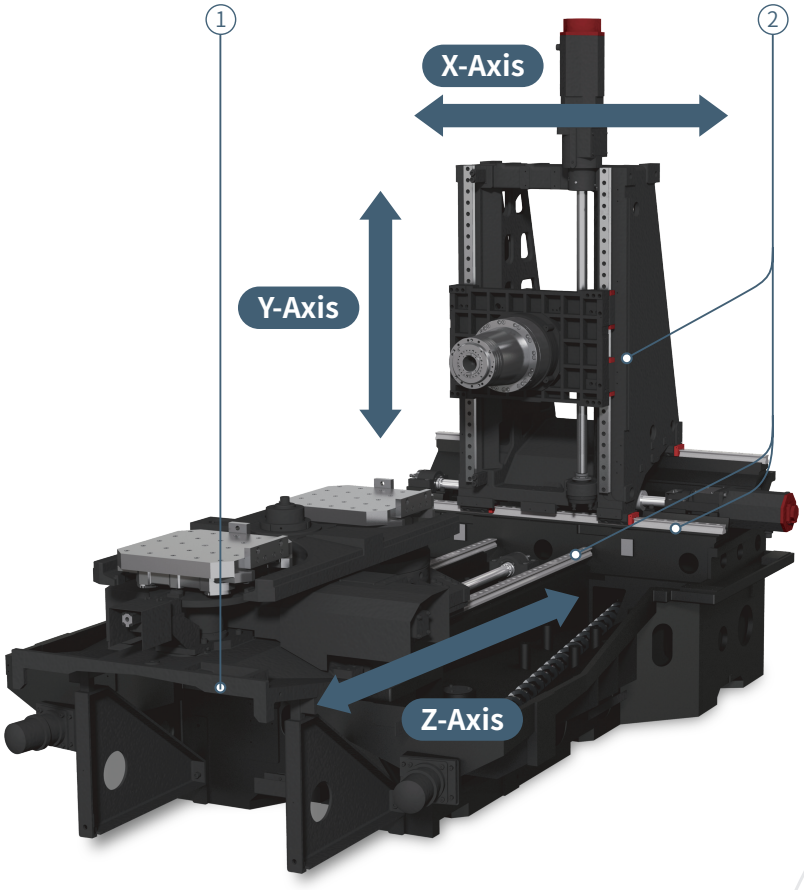
NQ SERIES

1 High Rigid Bed

High load bearing casting bed, ensure the stability of processing

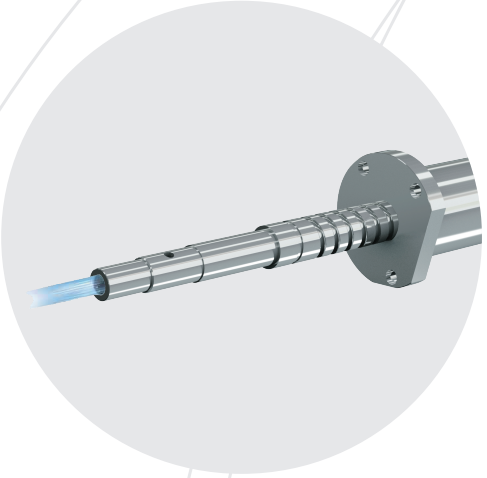
2 Linear Roller Guide ls Used For X/Y/Z Axis

In order to achieve high-precision and heavy cutting, X/Y/Z axis of NQ series adopts linear roller guide



X/Y/Z Axis Standard Hollow Cooling Screw

The coolant passes through the hollow part of the screw rod to effectively restrain the temperature rise and maintain the accuracy.

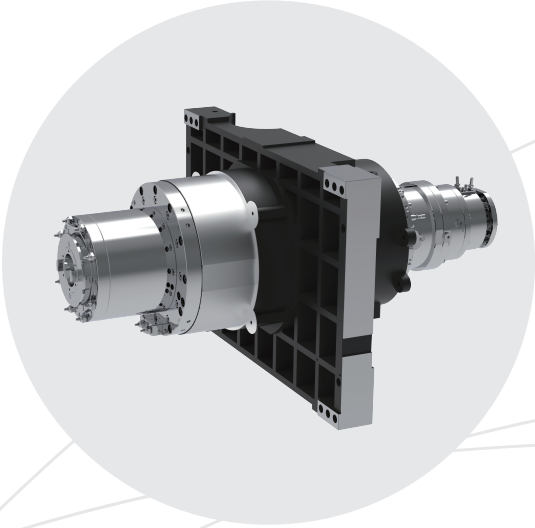


X/Y/Z Axis High Speed

Rapid traverse
60m/min
X/Y/Z
NQ50/60/65/NQ100D

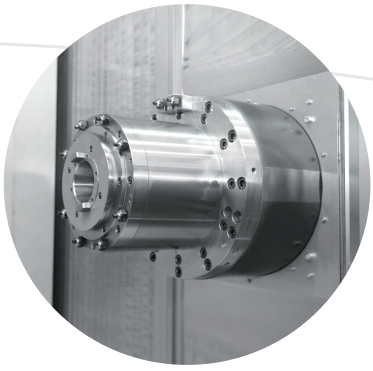
Cutting feed rate
60m/min
X/Y/Z
NQ50/60/65

NQ SERIES



X/Y Axis Shield

The fixed armor protection effectively controls the iron chips and cutting fluid in the fully enclosed processing area, and adapts to the fast and stable operation of moving parts.



Built-in Spindle

The built-in spindle has small rotary inertia, fast starting/ stopping speed, and greatly reduces the vibration during high-speed operation to ensure the machining accuracy and accuracy.

Spindle Thermostatic Cooling System

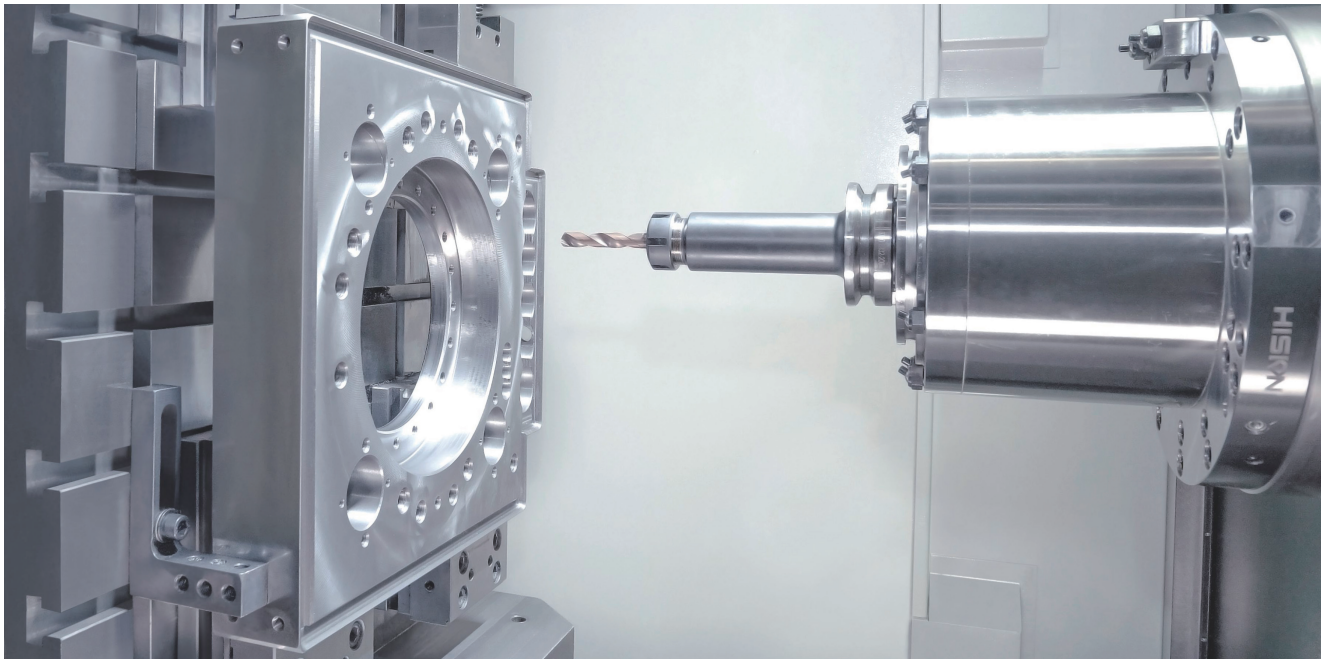
In order to achieve stable spindle accuracy, the coolant cools the spindle bearing and spindle box circularly to reduce the thermal deformation of the spindle.



NQ SERIES

Superior Production Performance

- High rigid infrastructure for heavy cutting
- All series of standard hollow screw rods, ensure stable processing accuracy
- Advanced FMS, achieve higher production capacity



Flexible Industry Applications





Workpiece:
Knuckle
Material:
Aluminum



Workpiece:
Cylinder block
Material:
Aluminum



Workpiece:
Clutch housing
Material:
Aluminum

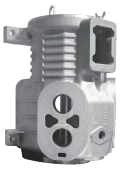


Workpiece:
Front subframe
Material:
Aluminum





Workpiece:
Valve block
Material:
SC45



Workpiece:
Reducer housing
Material:
HT200



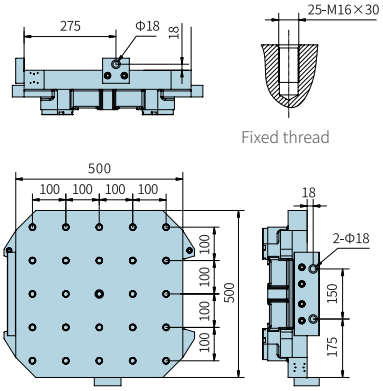
Workpiece:
Air compressor housing
Material:
HT250

NQ SERIES

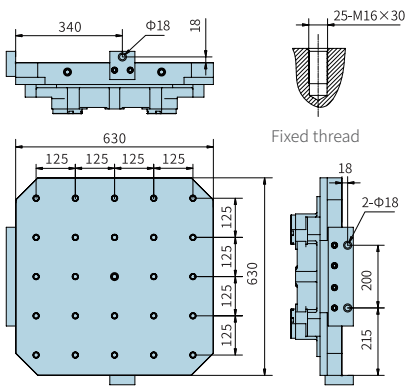
Workpiece Clamping Range

Model	Unit	NQ50	NQ60	NQ65	NQ80	NQ100D
Table Size	mm	500×500	630×630	630×630	800×800	1250×1000
Max. Size of Workpiece	mm	Φ800×1000	Φ900×1000	Φ1100×1170	Φ1450×1320	Φ1920×1500
Table Load	kg	500	1000	1300	2000	2000

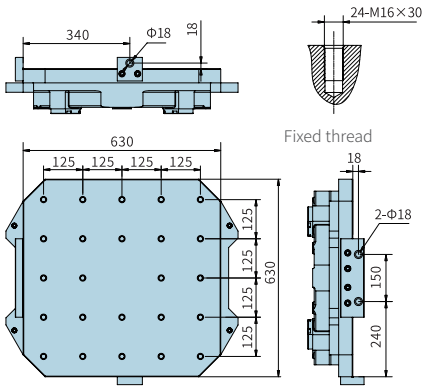
Pallet Size



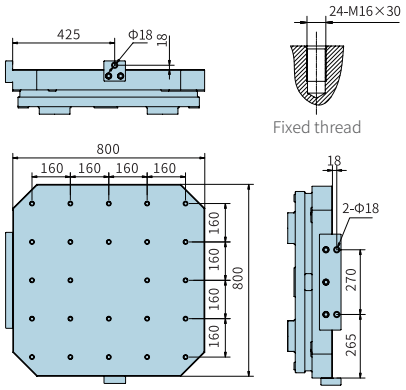
NQ50 Table Size



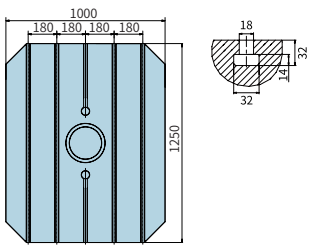
NQ60 Table Size



NQ65 Table Size



NQ80 Table Size



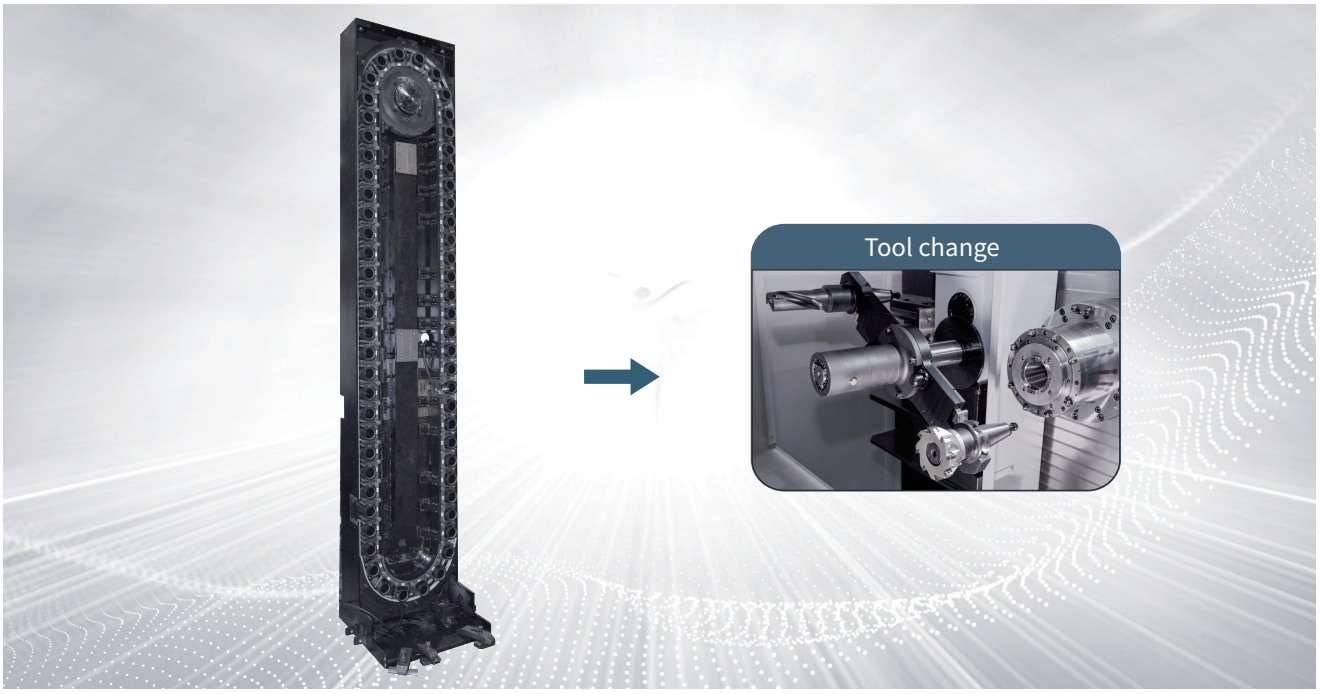
NQ100D Table Size

NQ SERIES

Double Servo Tool Magazine

ATC

Double servo motors greatly improve tool change efficiency. Ensure stable tool change



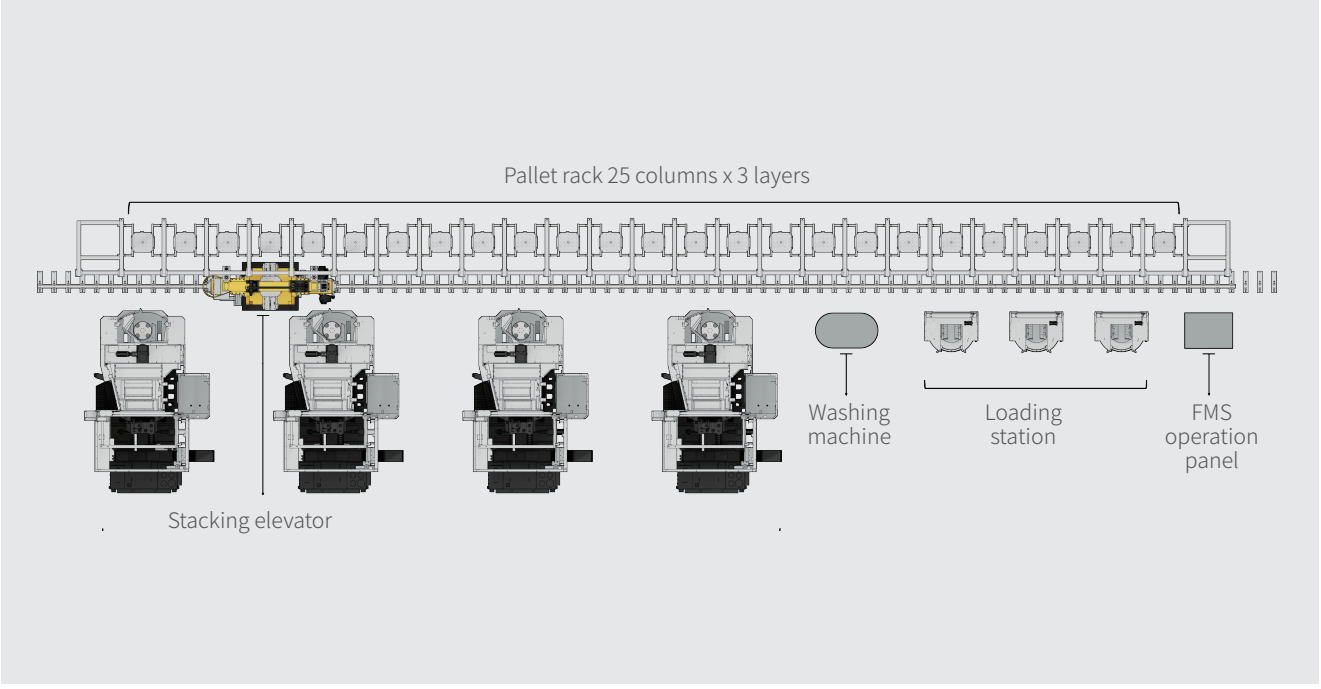
ATC Specification

		Unit	NQ50	NQ60	NQ65	NQ80	NQ100D
ATC Max. tool size	Tool length	mm	500	600	600	500	500
	Tool weight	kg	12	25	25	25	25
	Max. tool dia. (Adjacent/vacant)	mm	Φ80/Φ160	Φ125/Φ250	Φ125/Φ250	Φ125/Φ250	Φ115/Φ230
Tool change time(T-T)		s	1.5	2	2	2	2
Tool change time(C-C)		s	6	7	7	7	7
Capacity		-	40 (option 60, 77, 117)	40 (option60, 77, 117)	40 (option60, 77, 117)	60 (option40, 77, 117)	40 (option60, 77, 117)

NQ SERIES

FMS Flexible Production Line

Advanced FMS
Helps improve automated production for customers

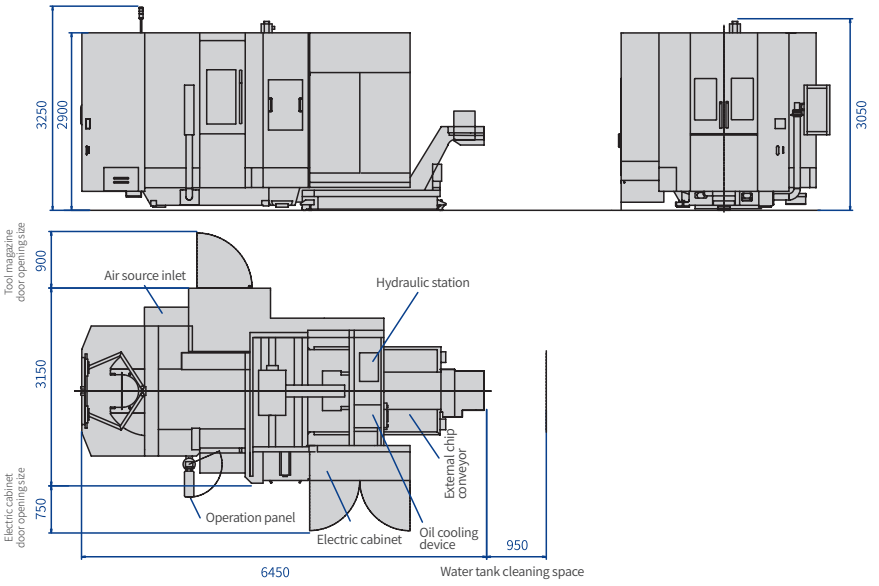


		Min.	Max.
Number of MC		1	5
Number of pallets	2 layers	12	60
	3 layers	Customized	Customized
Loading station		1	4
Stacking elevator		1	1

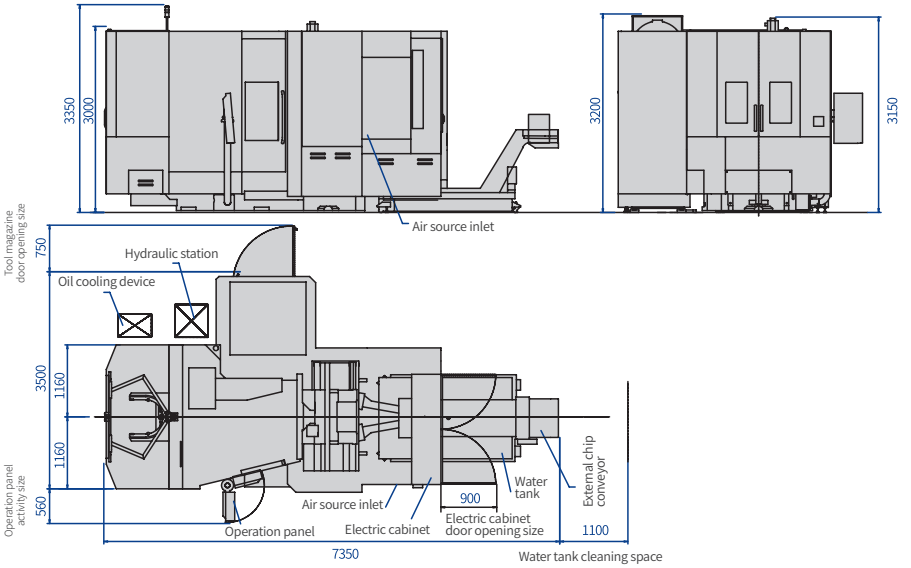


NQ Series Dimension Diagram

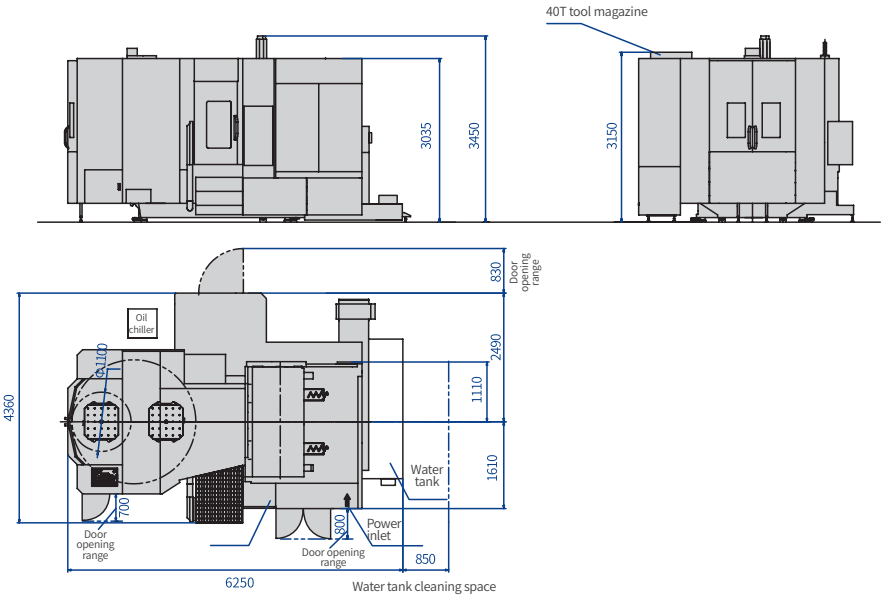
NQ50



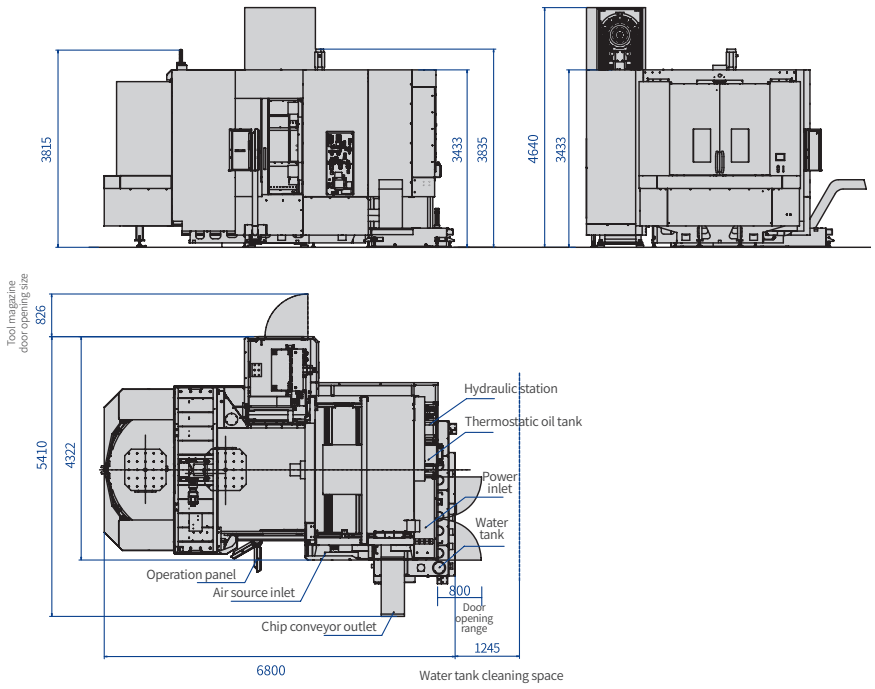
NQ60



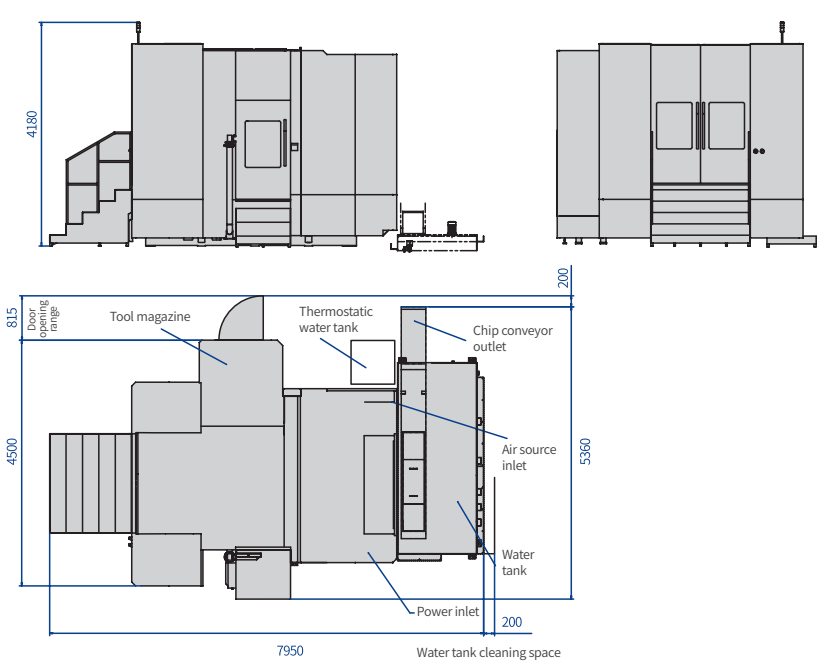
NQ65



NQ80


3815
3433
3835
4640
3433
Tool magazine door opening size
826
5410
4322
Hydraulic station
Thermostatic oil tank
Power inlet
Water tank
Operation panel
Air source inlet
800
Door opening range
Chip conveyor outlet
1245
6800
Water tank cleaning space

NQ100D


4180
200
815
Door opening range
Tool magazine
Thermostatic water tank
Chip conveyor outlet
4500
Air source inlet
5360
Water tank
Power inlet
200
7950
Water tank cleaning space

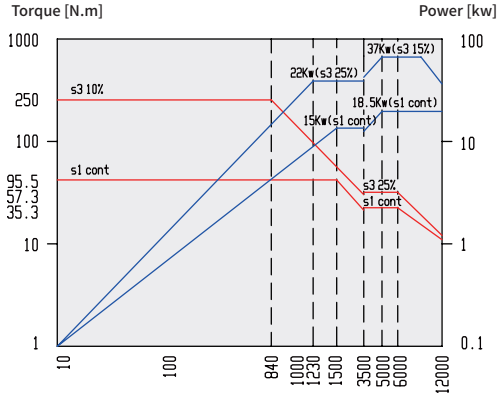
Power Torque Diagram

NQ50
Standard Configuration

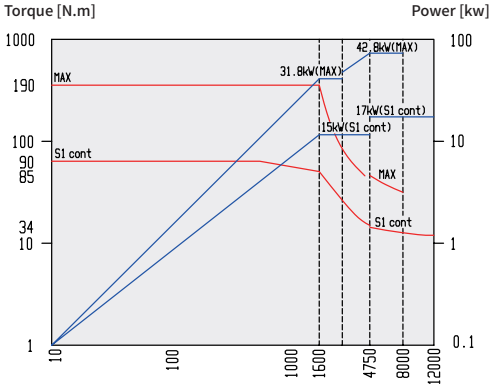
Spindle Torque

Spindle Power

●12000rpm-FANUC



●12000rpm-SIEMENS OPTION

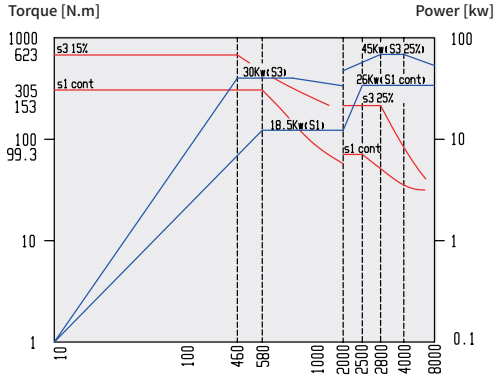


NQ60
NQ65
NQ80
NQ100D
Standard Configuration

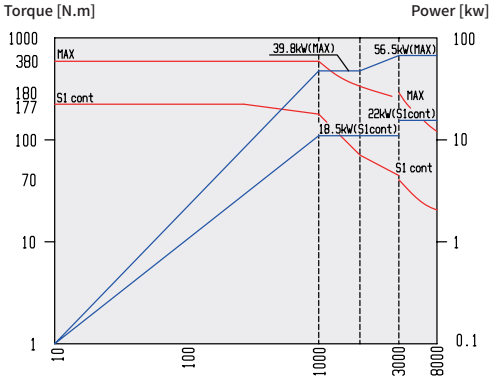
Spindle Torque

Spindle Power

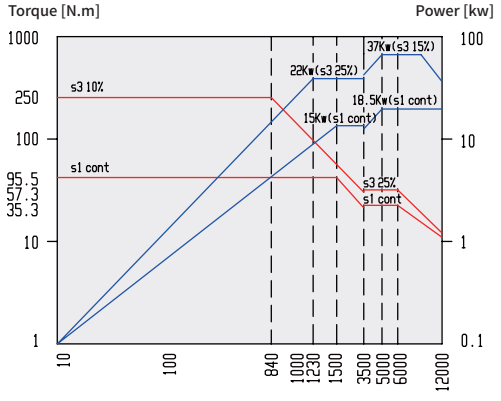
●8000rpm-FANUC



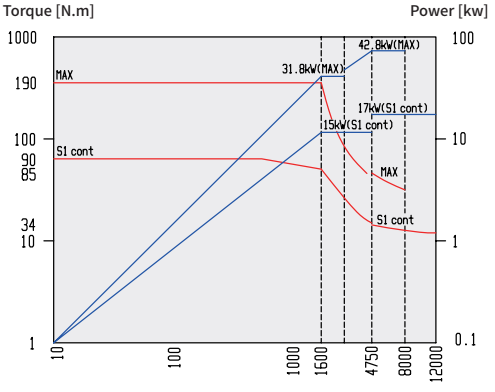
●8000rpm-SIEMENS OPTION



●12000rpm-FANUC OPTION



●12000rpm-SIEMENS OPTION



NQ SERIES

	Unit	NQ50	NQ60	NQ65	NQ80	NQ100D
» Machining Range						
X travel	mm	730	800	1050	1400	1450
Y travel	mm	730	800	900	1200	1250
Z travel	mm	800	850	1000	1050	1250
Spindle center to table surface	mm	80-810	70-870	100-1000	55-1255	190-1440
Spindle nose to table center	mm	70-870	150-1000	190-1190	200-1250	-200-1050
»Table						
Table size	mm	500×500	630×630	630×630	800×800	1250×1000
Table indexing	°	1° ×360	1° ×360	1° ×360	1° ×360	0.001°
Table load	kg	500	1000	1300	2000	2000
»Spindle						
Drive type		Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle
Spindle power	kW	18.5/37	26/45	26/45	26/45	26/45
Spindle speed	r/min	12000	8000	8000	8000	8000
Spindle torque	Nm	95.5/250	305/623	305/623	305/623	305/623
Spindle taper		BT40	BT50	BT50	BT50	BT50
Pull stud		P40T-I-MAS403	P50T-II-MAS403	P50T-II-MAS403	P50T-II-MAS403	P50T-II-MAS403
» Feed						
Rapid traverse (X/Y/Z)	m/min	60	60	60	50	60
Cutting feed rate (X/Y/Z)	m/min	60	60	60	50	20
Table 90° indexing time	s	1.4	2.5	2.5	3.5	3.5
»APC						
Table change type		Direct rotary	Direct rotary	Direct rotary	Direct rotary	Direct rotary (option)
Table change time		9	10	12	15	15 (option)
»Tool Magazine						
Tool magazine capacity	T	40	40	40	60	40
Tool selection mode		Choose the shortest path	Choose the shortest path	Choose the shortest path	Choose the shortest path	Choose the shortest path
Max. tool length	mm	500	600	600	500	500
Max. tool dia. (Adjacent/vacant)	mm	Φ80/Φ160	Φ125/Φ250	Φ125/Φ250	Φ125/Φ250	Φ115/Φ230
Max. tool weight	kg	12	25	25	25	25
Tool change time (T-T)	s	1.5	2	2	2	2
»Other						
Power capacity	kVA	45	64	64	64	64
Machine weight	t	13	17	19	25	30
Machine size (L×W×H)	mm	6450×3150×3250	7350×3500×3350	6250×4360×3450	6800×5410×4640	7950×5360×4180

Standard Configuration

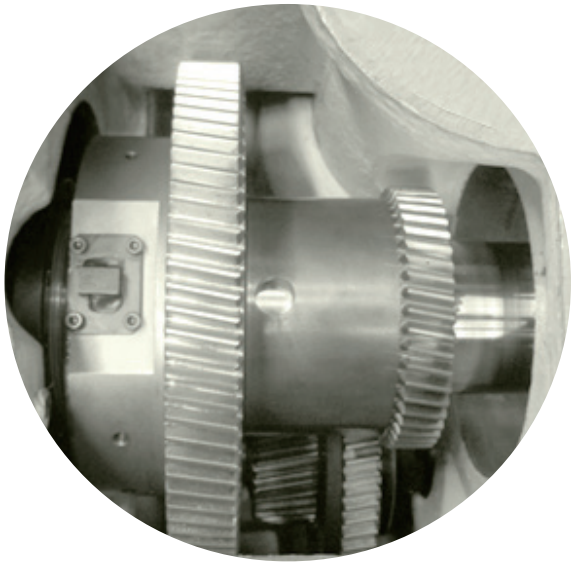
1. Controller：FANUC 0i
2. 40T ATC (NQ80 60T)
3. 1° indexing table (except NQ100D)
4. NC table 0.001° indexing (NQ100D)
5. APC (NQ100D is single pallet)
6. Full enclosure with top cover
7. Guide rail protection
8. External chain type chip conveyor
9. Cutting cooling
10. Spindle oil chiller
11. Screw cooling oil temperature control device
12. Spindle air blowing device
13. Automatic power-off device
14. Self-diagnostic function
15. 3-color signal lamp, working light
16. Standard accessories
17. CE Mark (EU region)

Option Configuration

1. Controller：SIEMENS 828D
2. T slot pallet
3. NC table 0.001° indexing (Standard for NQ100D)
4. CTS (2/3/7Mpa)
5. 40/60/77/117T double servo magazine
6. Linear scale
7. Top spray
8. Workpiece probe
9. Tool setter
10. Air gun
11. AC for electrical cabinet

NHRLD SERIES

This model adopts an advanced T-shaped bed structure, gantry style columns, and central box layout, with strong rigidity and high precision retention, suitable for the processing of precision box components. The product is widely used in fields such as automobiles, rail transit, aviation, valves, mining machinery, textile machinery, plastic machinery, ships, electricity and other key fields.



NC Rotary Table

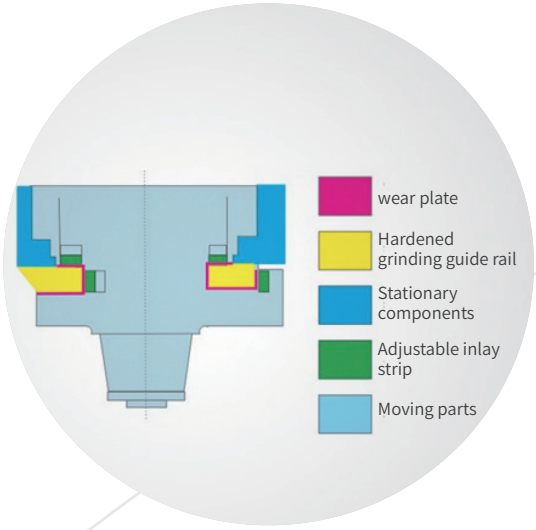
The NC rotary table patented technology adopts dedicated YRT bearings. Equipped with three rows of rollers for axial and radial support. Having large clamping torque of the tabletop and strong ability to resist overturning torque.



Powerful Spindle Drive

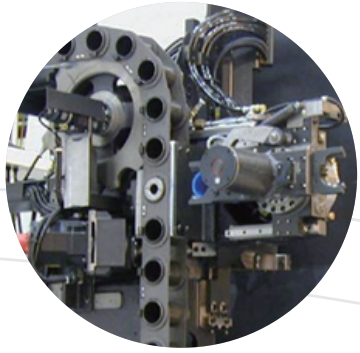
The spindle box adopts a two-stage gear transmission to ensure high torque output at low speeds. The spindle bearings adopt a combination of angular contact bearings and double row cylindrical roller bearings to meet the requirements of heavy cutting.

NHRLD SERIES



Arm Type Tool Magazine

HISION tool magazine, with Japanese technology arm, having stable and reliable performance.



Guide Rail Structure-Y Axis

The guide rail is quenched and ground, with a large cross-sectional size and good rigidity. Ensure the symmetry of thermal deformation in all directions through seven contact surfaces.



NHRLD SERIES

Items	Unit	NHR6LD	NHR8LD
» Machining Range			
X travel	mm	1050	1350
Y travel	mm	850	980
Z travel	mm	900	1000
Spindle center to table surface	mm	0-850	0-980
Spindle nose to table center	mm	200-1100	230-1230
» Table			
Table size	mm	630×630	800×800
T slot	mm	5×22×125	5×22×160
Table load	kg	1200	2000
Table indexing	°	1° ×360	1° ×360
Pallet qty.	-	1	1
» Feed			
Cutting feed rate (X/Y/Z)	m/min	12/12/12	12/12/12
Rapid traverse (X/Y/Z)	m/min	24/24/24	18/18/18
» Spindle			
Spindle speed	rpm	6000	6000
Spindle power	kW	15/18.5	15/18.5
Spindle torque	Nm	428/703	428/703
Spindle taper	-	BT50	BT50
Pull stud	-	P50T-II-MAS403	P50T-II-MAS403
» Tool Magazine			
Capacity	T	40	40
Max. tool diameter (Adjacent / Vacant)	mm	ϕ120/ ϕ240	ϕ120/ ϕ240
Max. tool length	mm	550	550
Max. tool weight	kg	30	30
» Other			
Power capacity	kVA	45	45
Machine weight	t	16	19.5
Machine size (L×W×H)	mm	6600×4550×3800	6900×4600×4300

Standard Configuration

1. Controller : FANUC 0i
2. Gear box spindle
3. 1° indexing table
4. 40T arm type tool magazine
5. Pneumatic, hydraulic, and lubrication systems
6. Spindle oil chiller
7. Cutting cooling
8. Internal automatic chip conveyor
9. 3-color signal lamp, working light
10. Full enclosure
11. Standard accessories
12. Common maintenance tools
13. CE Mark (EU region)

Option Configuration

1. NC rotary table （0,001°）
2. X/Y/Z liner scale
3. 60/90/120T tool magazine
4. CTS(2/3/7MPa)
5. Enlargement of T slot table
6. Screw hole table
7. Y-axis travel 1180mm (NHR8LD)
8. Oil skimmer
9. Oil mist collector
10. Top spray
11. Workpiece probe
12. Tool setter
13. Water gun

NHRLD SERIES

Items	Unit	NHR10LD
» Machining Range		
X travel	mm	1400
Y travel	mm	1180
Z travel	mm	1050
Spindle center to table surface	mm	0-1180
Spindle nose to table center	mm	230-1280
» Table		
Table size	mm	1000X1000
T slot	mm	7×22×125
Table load	kg	2000
Table indexing	°	1° ×360
Pallet qty.	-	1
» Feed		
Cutting feed rate (X/Y/Z)	m/min	12/12/12
Rapid traverse (X/Y/Z)	m/min	18/18/18
» Spindle		
Spindle speed	rpm	6000
Spindle power	kW	15/18.5
Spindle torque	Nm	428/703
Spindle taper	-	BT50
Pull stud	-	P50T-II-MAS403
» Tool Magazine		
Capacity	T	40
Max. tool diameter (Adjacent / Vacant)	mm	ϕ120/ ϕ240
Max. tool length	mm	550
Max. tool weight	kg	30
» Other		
Power capacity	kVA	45
Machine weight	t	20.5
Machine size (L×W×H)	mm	6900×4600×4300

Standard Configuration

1. Controller : FANUC 0i
2. Gear box spindle
3. 1° indexing table
4. 40T arm type tool magazine
5. Pneumatic, hydraulic, and lubrication systems
6. Spindle oil chiller
7. Cutting cooling
8. Internal automatic chip conveyor
9. 3-color signal lamp, working light
10. Full enclosure
11. Standard accessories
12. Common maintenance tools
13. CE Mark (EU region)

Option Configuration

1. NC rotary table（0,001°）
2. X/Y/Z liner scale
3. 60/90/120T tool magazine
4. CTS(2/3/7MPa)
5. Enlargement of T slot table
6. Screw hole table
7. Y-axis travel 1180mm (NHR8LD)
8. Oil skimmer
9. Oil mist collector
10. Top spray
11. Workpiece probe
12. Tool setter
13. Water gun

NHT SERIES

The NHT Series features a T-shaped bed structure with a front-mounted gearbox layout, utilizing high-rigidity roller linear guides on the horizontal axis and rectangular guideways on the vertical axis. It is primarily composed of components such as the bed, column, spindle, worktable, hydraulic system, lubrication system, cooling system, pneumatic system, chip conveyor, operator panel, and electrical control system. This machine is particularly suitable for hole machining and surface processing of box-type components and is widely used in industries including automotive manufacturing, rail transportation, petroleum valve production, plastic machinery, mining equipment, and general machinery.



NHT SERIES

Items	Unit	NHT11	NHT13	NHT13r	NHT13Pr	NHT15r
» Machining Range						
X travel	mm	2000	2500	2500	3000	3000
Y travel	mm	1600	1600	2000	2000	2000
Z travel	mm	1200	1500	1500	2000	2000
W travel	mm	515	515	700	700	700
Spindle center to table surface	mm	135-1735	135-1735	120-2120	0-2000	0-2000
Spindle nose to table center	mm	450-1650	450-1950	580-2080	680-2680	680-2680
» Table						
Table size	mm	1250×1400	1400×1600	1600×1800	1800×2000	2000×2500
T slot	mm	7×28×160	9×28×160	7×28×200	9×28×200	9×28×200
Table load	kg	5000	8000	10000	20000	25000
Table indexing	°	0.001°	0.001°	0.001°	0.001°	0.001°
» Feed						
Rapid traverse (X/Y/Z/W)	m/min	10/10/10/6	10/10/10/6	10/10/10/6	10/10/10/6	10/10/10/6
Cutting feedrate (X/Y/Z/W)	m/min	6/6/6/6	6/6/6/6	6/6/6/6	6/6/6/6	6/6/6/6
» Spindle						
Spindle speed	rpm	2500	2500	2500	2500	2000
Spindle power	kW	15/18.5	22/30	30/37	30/37	37/45
Spindle torque	N.m	1500/1855	1347/1837	1846/2277	1846/2277	2270/2770
Spindle taper	-	BT50	BT50	BT50	BT50	BT50
Pull stud	-	P50T-II-MAS403	P50T-II-MAS403	P50T-II-MAS403	P50T-II-MAS403	P50T-II-MAS403
Boring axis dia.	mm	Φ110	Φ130	Φ130	Φ130	Φ150
» Tool Magazine（OP）						
Capacity	T	40/60	40/60	40/60	40/60	40/60
Max. tool dia. (Adjacent/vacant)	mm	Φ120/Φ240	Φ120/Φ240	Φ120/Φ240	Φ120/Φ240	Φ120/Φ240
Max. tool length	mm	600	600	650	650	650
Max. tool weight	kg	30	30	30	30	30
» Other						
Power capacity	kVA	45	55	64	64	84
Machine weight	t	29	33	41	45	47
Machine size (L×W×H)	mm	7300×6000×5100	7700×6600×5100	8200×7200×6200	8700×7900×6200	8900×8000×6200

Standard Configuration

1. Controller : FANUC 0i
2. Gear box spindle
3. NC rotary table (T slot)
4. Pneumatic, hydraulic, and lubrication systems
5. Spindle oil chiller
6. W axis
7. Cutting cooling
8. Internal automatic chip conveyor
9. 3-color signal lamp, working light
10. Table water tray
11. Standard accessories
12. Common maintenance tools
13. CE Mark (EU region)

Option Configuration

1. Controller: FANUC 31i / SIEMENS 840Dsl
2. X/Y/Z linear scale
3. 40/60/90/120T tool magazine
4. CTS (2/3/7MPa)
5. Enlarge table 1800×2000 (only NHT13r)
6. Enlarge table 2000×2200 (only NHT13r)
7. X/Y/Z travel increase (only NHT13r)
8. Surrounding protection of table
9. Workpiece probe
10. Tool setter
11. Oil skimmer
12. Air gun
13. Water gun
14. AC for electric cabinet



MORE THAN PRECISION

Ningbo Haitian Precision Machinery Co., Ltd. is a listed company specializing in machine tooling industry. It has developed Ningbo Dagang production base, Ningbo Yanshan production base Dalian production base and Shandi production base. It has a modern constant temperature processing and assembly plant of over 570,000 square meters with nearly 2300 employees. It is awarded honors such as "national major technical equipment enterprise", "national high-tech enterprise", and "provincial high-tech research and development center".




HISION
HISION
HISION
HISION
Manufacturing Base
Overseas Subsidiary
Overseas Market









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