



Ningbo Dagang Production Base



Ningbo Yanshan Production Base



Dalian Production Base



Ningbo Haitian Precision Machinery Co., Ltd.

H.Q. & Production Base1

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Production Base2

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Horizontal Machining Center

63H / 80H / 100H / 125H / D
HUP80 / 100 / 125 / 160 / D



Ningbo Haitian Precision Machinery Co.,Ltd.

Horizontal Machining Center

The machine adopts advanced T type bed structure, gantry type column, positive hanging 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, aerospace, valves, mining machinery, textile machinery, plastic machinery, ships, electricity and other areas.



63H / 80H / 100H / 125H / D
HUP80 / 100 / 125 / D



80H / 100H / 125H
HUP80 / 100 / 125



HUP160

Main Technical Parameters



Items	Unit	63H	80H	100H	125H
> Machining Capacity					
X travel	mm	1000	1270	2000	2000
Y travel	mm	850	1000	1500	1500
Z travel	mm	750	920	1200	1200
W travel	mm	-----	535(Option)	535(Option)	535(Option)
Spindle center to table surface	mm	0-850	0-1000	(-50)-1450	(-50)-1450
Spindle nose to table center	mm	200-950	200-1120	280-1480	405-1605
> Table					
Table size	mm	630×630	800×800	1000×1000	1250×1250
Table load	kg	1200	1500	3000	3000
Pallet indexing	°	1°×360	1°×360	1°×360	1°×360
Pallet change type		Parallel type	Rotary type	Rotary type	Rotary type
Pallet quantity		2	2	2	2
> Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	5/5/5	5/5/5	4/4/4	4/4/4
Rapid traverse (X/Y/Z)	m/min	20/20/20	18/18/18	14/14/14	14/14/14
> Spindle					
Spindle speed	rpm	5000	4500	4500	4500
Spindle power	kW	18.5/22	18.5/22	18.5/22	18.5/22
Spindle torque	N.m	730	837	837	837
Spindle taper		BT50	BT50	BT50	BT50
Boring bar diameter	mm	-----	Φ130(Option)	Φ130(Option)	Φ130(Option)
> Tool Magazine					
Pull stud		P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403
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	500	500	500	500
Max.tool weight	kg	30	30	30	30
> Other					
Power capacity	kVA	65	65	65	65
Machine weight	t	16.5	22	32	33
Machine size(L×W×H)	cm	580×350×325	760×421×375	890×615×445	890×615×445

Standard Configuration

- 1

Controller: FANUC Oi
- 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

12

Standard accessories

13

Common maintenance tools

Option Configuration

- 1

Controller:FANUC 31i
- 2

Controller:SIEMENS 840Dsl
- 3

CNC rotary table
- 4

W axis
- 5

60/90T ATC
- 6

Linear scale
- 7

Coolant through spindle
- 8

Workpiece probe

9

Tool setter

10

Workpiece air&water gun

11

Air conditioner

12

External chain type chip conveyor

13

Oil skimmer

14

FMS(Flexible Manufacture System)

15

Shower coolant

16

Voltage regulator

Items	Unit	63H/D	80H/D	100H/D	125H/D
> Machining Capacity					
X travel	mm	1000	1270	2000	2000
Y travel	mm	850	1000	1500	1500
Z travel	mm	750	920	1200	1200
W travel	mm	-----	535(Option)	535(Option)	535(Option)
Spindle center to table surface	mm	0-850	0-1000	50-1550	50-1550
Spindle nose to table center	mm	200-950	200-1120	280-1480	405-1605
> Table					
Table size	mm	630×630	800×800	1000×1000	1250×1250
Table load	kg	1200	1500	3000	3000
Pallet indexing	°	1°×360	1°×360	1°×360	1°×360
Pallet change type		-----	-----	-----	-----
Pallet quantity		-----	-----	-----	-----
> Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	5/5/5	5/5/5	4/4/4	4/4/4
Rapid traverse (X/Y/Z)	m/min	20/20/20	18/18/18	14/14/14	14/14/14
> Spindle					
Spindle speed	rpm	5000	4500	4500	4500
Spindle power	kW	18.5/22	18.5/22	18.5/22	18.5/22
Spindle torque	N.m	730	837	837	837
Spindle taper		BT50	BT50	BT50	BT50
Boring bar diameter	mm	-----	Φ130(Option)	Φ130(Option)	Φ130(Option)
> Tool Magazine					
Pull stud		P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403
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	500	500	500	500
Max.tool weight	kg	30	30	30	30
> Other					
Power capacity	kVA	65	65	65	65
Machine weight	t	15	20	30.5	31.5
Machine size(L×W×H)	cm	480×350×325	550×421×375	610×570×460	610×570×460

Standard Configuration

- 1

Controller: FANUC Oi
- 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 ligh

10

Full enclosure

11

Standard accessories

12

Common maintenance tools

Option Configuration

- 1

Controller:FANUC 31i
- 2

Controller:SIEMENS 840Dsl
- 3

CNC rotary table
- 4

W axis
- 5

60/90T ATC
- 6

Linear scale
- 7

Coolant through spindle
- 8

Workpiece probe

9

Tool setter

10

Workpiece air&water gun

11

Air conditioner

12

External chain type chip conveyor

13

Oil skimmer

14

FMS(Flexible Manufacture System)

15

Shower coolant

16

Voltage regulator

Main Technical Parameters



Items	Unit	HUP80	HUP100	HUP125	HUP160
> Machining Capacity					
X travel	mm	1270	1800	2000	2500
Y travel	mm	980	1500	1500	1850
Z travel	mm	1000	1350	1350	1500
W travel	mm	535(Option)	535(Option)	535(Option)	700
Spindle center to table surface	mm	0-980	0-1500	0-1500	0-1850
Spindle nose to table center	mm	230-1230	300-1650	350-1700	580-2080
> Table					
Table size	mm	800×800	1000×1000	1250×1250	1600×1800
Table load	kg	2000	3000	3000	8000
Pallet indexing	°	1°×360	1°×360	1°×360	0.001
Pallet change type		Rotary type	Rotary type	Rotary type	Parallel type
Pallet quantity		2	2	2	2
> Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	12/12/12	5/5/5	5/5/5	4/4/4
Rapid traverse (X/Y/Z)	m/min	24/24/24	15/15/15	15/15/15	10/10/10
> Spindle					
Spindle speed	rpm	4500	4500	4500	2500
Spindle power	kW	18.5/22	18.5/22	18.5/22	30/37
Spindle torque	N.m	837	837	837	2277
Spindle taper		BT50	BT50	BT50	BT50
Boring bar diameter	mm	Φ130(Option)	Φ130(Option)	Φ130(Option)	Φ130
> Tool Magazine					
Pull stud		P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403
Tool magazine capacity	T	40	40	40	40(Option)
Max.tool dia. (Adjacent vacant)	mm	Φ120(Φ240)	Φ120(Φ240)	Φ120(Φ240)	Φ120(Φ240)
Max.tool length	mm	500	500	500	500
Max.tool weight	kg	30	30	30	30
> Other					
Power capacity	kVA	65	65	65	84
Machine weight	t	22	32	33	55
Machine size(L×W×H)	cm	753×500×406	847×580×460	860×580×460	1320×730×600

Standard Configuration

- 1

Controller:FANUC Oi
- 2

Gear box drive
- 3

1° index pallet
- 4

40T ATC (HUP160 Option)
- 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
- 12

Standard accessories
- 13

Common maintenance tools

Option Configuration

- 1

Controller:FANUC 31i
- 2

Controller:SIEMENS 840Dsl
- 3

CNC rotary table
- 4

W axis
- 5

60/90T ATC
- 6

Linear scale
- 7

Coolant through spindle
- 8

Workpiece probe
- 9

Tool setter
- 10

Workpiece air&water gun
- 11

Air conditioner
- 12

External chain type chip conveyor
- 13

Oil skimmer
- 14

FMS(Flexible Manufacture System)
- 15

Shower coolant
- 16

Voltage regulator

Items	Unit	HUP80/D	HUP100/D	HUP125/D	HUP160/D
> Machining Capacity					
X travel	mm	1270	1800	2000	2500
Y travel	mm	980	1500	1500	2000
Z travel	mm	1000	1350	1350	1500
W travel	mm	535(Option)	535(Option)	535(Option)	700
Spindle center to table surface	mm	0-980	100-1600	100-1600	120-2120
Spindle nose to table center	mm	230-1230	300-1650	350-1700	580-2080
> Table					
Table size	mm	800×800	1000×1000	1250×1250	1600×1800
Table load	kg	2000	3000	3000	10000
Pallet indexing	°	1°×360	1°×360	1°×360	0.001
Pallet change type		----	----	-----	-----
Pallet quantity		----	----	-----	-----
> Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	12/12/12	5/5/5	5/5/5	4/4/4
Rapid traverse (X/Y/Z)	m/min	24/24/24	15/15/15	15/15/15	10/10/10
> Spindle					
Spindle speed	rpm	4500	4500	4500	2500
Spindle power	kW	18.5/22	18.5/22	18.5/22	30/37
Spindle torque	N.m	837	837	837	2277
Spindle taper		BT50	BT50	BT50	BT50
Boring bar diameter	mm	Φ130(Option)	Φ130(Option)	Φ130(Option)	Φ130
> Tool Magazine					
Pull stud		P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403	P50T-2-MAS403
Tool magazine capacity	T	40	40	40	40(Option)
Max.tool dia. (Adjacent vacant)	mm	Φ120(Φ240)	Φ120(Φ240)	Φ120(Φ240)	Φ120(Φ240)
Max.tool length	mm	500	500	500	500
Max.tool weight	kg	30	30	30	30
> Other					
Power capacity	kVA	65	65	65	84
Machine weight	t	20	30.5	31.5	46
Machine size(L×W×H)	cm	650×500×406	703×520×460	703×520×460	803×730×600

Standard Configuration

- 1

Controller: FANUC Oi
- 2

Gear box drive
- 3

1° index pallet
- 4

40T ATC (HUP160/D Option)
- 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
- 11

Standard accessories
- 12

Common maintenances tools

Option Configuration

- 1

Controller:FANUC 31i
- 2

Controller:SIEMENS 840Dsl
- 3

CNC rotary table
- 4

W axis
- 5

60/90T ATC
- 6

Linear scale
- 7

Coolant through spindle
- 8

Workpiece probe
- 9

Tool setter
- 10

Workpiece air&water gun
- 11

Air conditioner
- 12

External chain type chip conveyor
- 13

Oil skimmer
- 14

FMS(Flexible Manufacture System)
- 15

Shower coolant
- 16

Voltage regulator