



Ningbo Haitian Precision Machinery Co., Ltd.

H.Q.& Production Base1
No. 1688 Haitian road, Xiaogang, Beilun,
Ningbo-315801, China.

Production Base2
No.235, Huangshan Road,Beilun District, Ningbo-315801 China.

Production Base3
No.188, Baodao Road, Lin`gang Industrial Zone, Changxing Island,
Dalian-116317 China.

Haitian Precision Machinery (HONGKONG) Co., Ltd.

Office address:
Unit,12/F, Seabright Plaza, 9-23 Shell Street, North Point, HONGKONG.

Tel: +86-574-86182580/86182525
Fax: +86-574-86182518
E-mail: hision@mail.haitian.com
Website: www.haitianprecision.com
Zipcode: 315800



NEW 2020-EN-L-A The text description, pictures and technical parameters in the sample are for reference only, and the changes due to technological development are subject to change without notice.

VERTICAL MACHINING CENTER DOUBLE COLUMN MACHINING CENTER

V180 / VMC II / GU II / GUe
GLU II / GLU (e) / GRU II / GNU

HISION



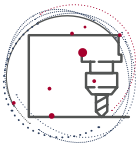
V180



VMC II Series

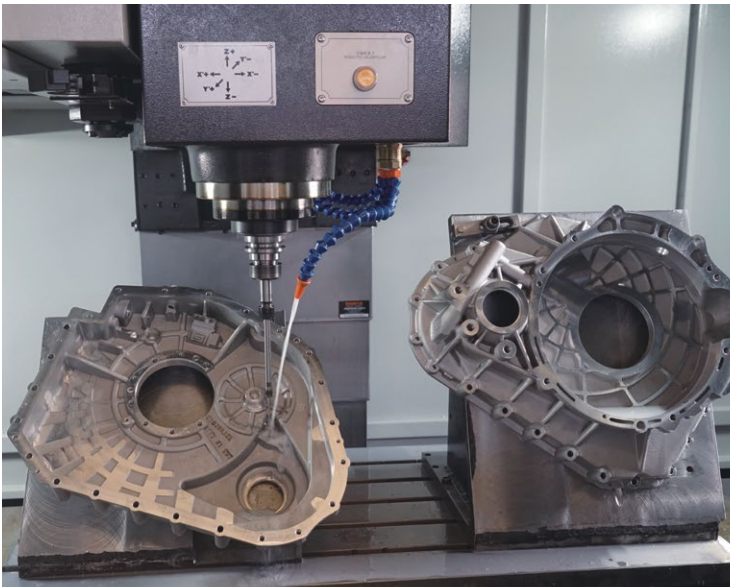


GU II Series



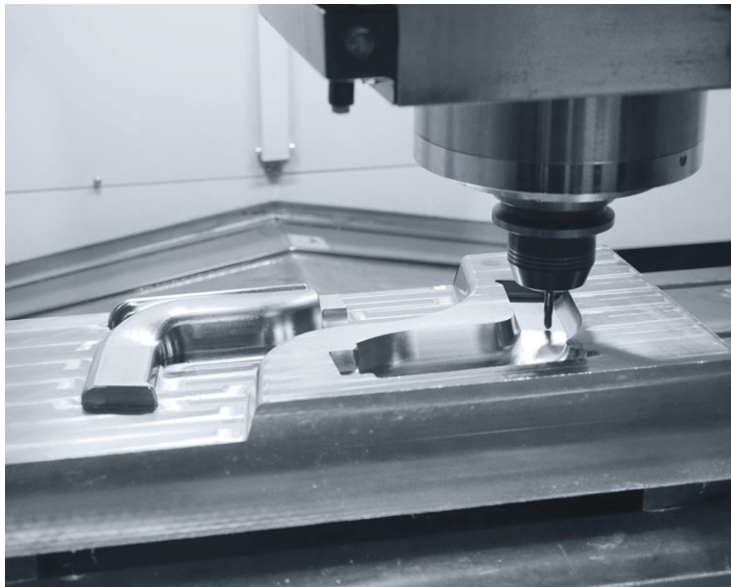
Vertical Machining Center

VMC II series vertical machining center was designed and developed independently by absorbing and digesting advanced technologies domestic and abroad on the basis of the existing machine of Haitian Precision company. It can be used in the fields of automobile parts, plastic machinery, construction machinery , etc.



Double Column Machining Center

On the basis of inheriting the double column structure and market demand, the product has newly introduced with boxway ram structure, which further expands the advantages of the double column vertical machining center and the traditional machining center, bringing a new experience to customers.





Hision Built-in Spindle



GLU II / GLU (e)13/16 Series



GLU / GLU (e)18/23/28 Series (Full enclosure option)

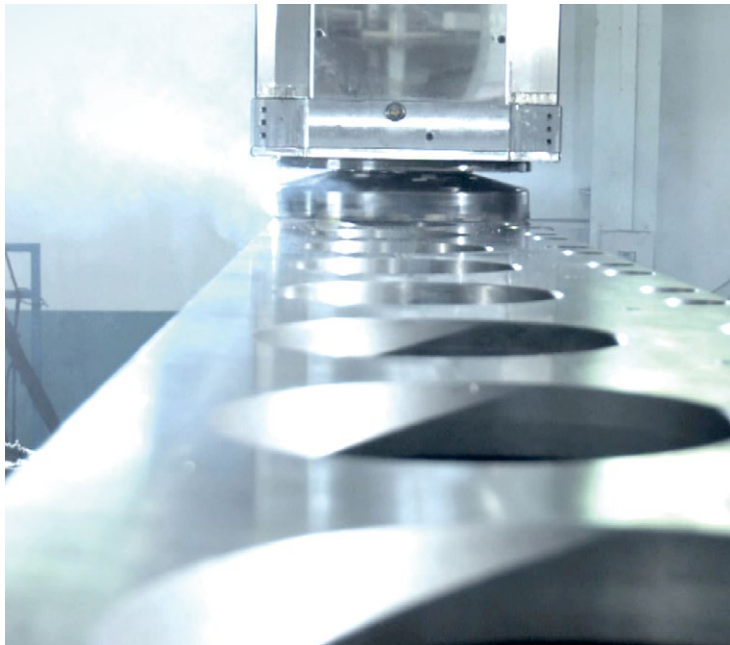


GRU II 28/32/36 Series GNU 28/32/36 Series



Fixed Crossrail Double Column Machining Center

Inheriting the structural characteristics of strong rigidity and wide processing range of traditional gantry products, integrating advanced technical elements, and pursuing the development concept of high efficiency, high precision, and energy saving. Create new generation of U series gantry machining center. Widely used in mold, aerospace, rail transportation, automotive, house appliances, medical and other high-end manufacturing industries.



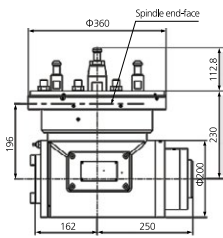
- **GLU II Series**
GLU II series adopt full gear transmission and special Z-axis boxway layout technology (Haitian precision company patented technology) to achieve the perfect integration of strength and high-precision processing.
- **GLUe Series**
GLUe series adopt the struture of built-in spindle with the heavy cutting ability , which brings customers the processing experience of high torque, high speed and low vibration.
- **GLU Series**
GLU series adopt full gear transmission ram, two speed shift gear box to achieve high speed, high torque cutting.
- **GRU II / GNU Series**
GRU II /GNU series adopts square ram, which has high rigidity structure, strong and stable cutting performance.



Attachment For Various Application



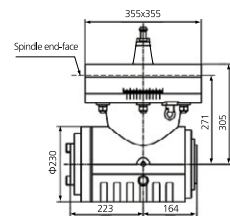
90°auto milling head



Max Power: 15kW
Max Speed: 2000rpm



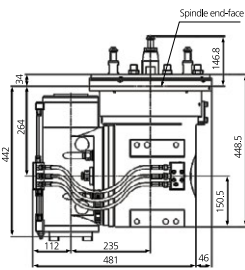
90° manual milling head



Max Power:20kW/15kW (OPT)
Max Speed: 2000rpm



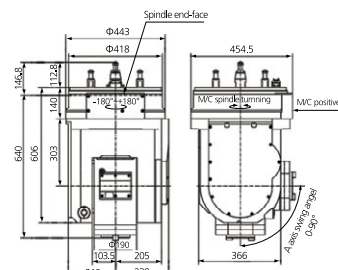
Semi auto 3+2 milling head



Max Power: 15kW
Max Speed: 2000rpm



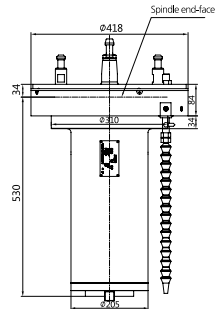
Auto 3+2 milling head



Max Power: 15kW
Max Speed: 4000rpm



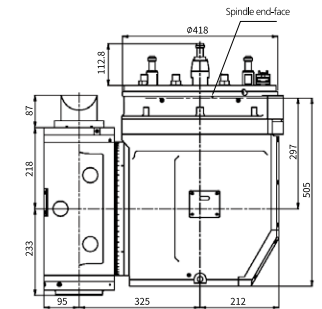
Automatic extended
milling head



Max Power: 20kW
Max Speed: 2000rpm



Automatic universal
Milling head



Max Power: 15kW
Max Speed: 4000rpm

Automatic Attachment Charger



Two stations auto head storing shelf



Attachment head holder

V180 / VMC II

Items	Unit	V180	VMC760 II	VMC850 II	VMC1000 II	VMC1200 II
» Machining Capacity						
X travel	mm	500	760	850	1000	1200
Y travel	mm	400	400	500	600	600
Z travel	mm	330	500	500	600	600
Spindle nose to table surface	mm	150-480	150-650	150-650	150-750	150-750
» Table						
Table size	mm	650x400	900×400	1000×500	1200×600	1300×600
Table load	t	0.255	0.3	0.6	0.8	0.6
T slot	mm	14x125x3	18x125x3	18x80x5	18x100x5	18x100x5
» Feed Rate						
Rapid traverse (X/Y/Z)	m/min	48/48/48	36/36/36	36/36/36	36/36/36	36/36/36
Cutting feedrate (X/Y/Z)	m/min	30/30/30	15/15/15	15/15/15	15/15/15	15/15/15
» Spindle						
Max Spindle speed	rpm	20000	8000	8000	8000	8000
Spindle power	kW	3.7/5.5	5.5/7.5	7.5/11	7.5/11	7.5/11
Spindle torque	N.m	11.7/17.5	52.5/71.6	71.6/105	71.6/105	71.6/105
Spindle taper		BT30	BT40	BT40	BT40	BT40
Pull stud		MAS-P30T-1	P40T - I -MAS403	P40T - I -MAS403	P40T - I -MAS403	P40T - I -MAS403
» Tool Magazine						
Tool magazine capacity	T	16	24	24	24	24
Tool magazine type		-	Arm type	Arm type	Arm type	Arm type
Max.tool dia. (Adjacent vacant)	mm	Φ60 (Φ80)	Φ78(Φ150)	Φ78(Φ150)	Φ78(Φ150)	Φ78(Φ150)
Max.tool length	mm	250	300	300	300	300
Max.tool weight	kg	3	7	7	7	7
Tool change time	s	1.6	2.5	2.5	2.5	2.5
» Other						
Power capacity	kVA	15	25	25	25	30
Machine weight	t	4	5.5	6	6.5	7
Machine size(L×W×H)	mm	162x208x238	230x325x255	250x340x255	280x355x265	315x355x270

V180 Standard Configuration

1. Controller:M80B
2. Spindle air blow
3. Spindle air seal
4. Spindle oil chiller
5. Hydraulic and lubrication system
6. Coolant system
7. Rigid tapping
8. Direct drive spindle 20000rpm
9. 16T disc type ATC
10. 3-color signal lamp,working light

VMC II

Standard Configuration

1. Controller: Mitsubishi M80B
2. 8000rpm mechanical spindle
3. ATC
4. Pneumatic,hydraulic and lubrication system
5. Cutting cooling
6. Internal helix chip conveyor
7. Full enclosure with top cover
8. Air gun
9. 3-color signal lamp, working light
10. Standard accessories

V180 Option Configuration

1. Controller:Mitsubishi M80
2. CNC rotary talbe (4th axis)
3. Pre-reserve CNC rotary table interface
4. Tool setter-TS27R
5. Full enclosure with top cover
6. Oil mist collector
7. Workpiece air blow
8. Workpiece probe
9. Air gun
10. Water gun

VMC II Option Configuration

1. Controller: FANUC 0i
2. Controller: MITSUBISHI M80A
3. Air conditioner
4. Spindle oil chiller
5. Auto door
6. ATC protection door
7. CNC rotary table (4th)
8. Workpiece probe(2D)
9. Tool setter
10. Water gun
11. Coolant through spindle (2-6MPa)
12. Spindle ring spray
13. Oil skimmer
14. Oil mist collector
15. External chain type chip conveyor and trolley
16. External scrap type chip conveyor and trolley
17. Directly drive spindle 10000rpm/12000rpm



GU II / GUE

Items	Unit	GU5 II	GU6 II	GUE5	GUE6
» Machining Capacity					
X travel	mm	1500	1500	1500	1500
Y travel	mm	700	850	700	850
Z travel	mm	600	700	600	700
Distance between columns	mm	1580	1580	1580	1580
Spindle nose to table surface	mm	205-805	205-905	150-750	150-850
» Table					
Table size	mm	1400×700	1500×850	1400x700	1500×850
Table load	t	2	3	5	3
T slot	mm	18×150×5	18×160×5	18×150×5	18×160×5
» Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	12/12/10	12/12/10	20/20/10	20/20/10
Rapid traverse (X/Y/Z)	m/min	20/20/15	20/20/15	24/24/15	24/24/15
» Spindle					
Drive type		Gear box	Gear box	Built-in spindle	Built-in spindle
Max Spindle speed	rpm	6000	6000	6000	6000
Spindle power	kW	15/18.5	15/18.5	15/30 (low speed) 22/30 (high speed)	15/30 (low speed) 22/30 (high speed)
Spindle torque	N.m	316/522	316/522	318/774 (low speed) 233/318 (high speed)	318/774 (low speed) 233/318 (high speed)
Spindle taper		BT50	BT50	BT50	BT50
Pull stud		P50T- II -MAS403 (BT50-60°)	P50T- II -MAS403 (BT50-60°)	P50T- II -MAS403 (BT50-60°)	P50T- II -MAS403 (BT50-60°)
» Tool Magazine (Option)					
Tool magazine capacity	T	24	24	24	24
Tool magazine type		Arm type	Arm type	Arm type	Arm type
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ200)	Φ110 (Φ200)	Φ110 (Φ200)	Φ110 (Φ200)
Max.tool length	mm	300	300	300	300
Max.tool weight	kg	20	20	20	20
» Other					
Power capacity	kVA	40	40	65	65
Machine weight	t	13	13.7	13	13.7
Machine size(L×W×H)	cm	440×335×410	440×335×420	440×335×410	440×335×420

Standard Configuration

1. Controller:MITSUBISHI M80B
(only for GUE II)

2. Controller:FANUC 0i(only for GUII)

3. Spindle oil chiller

4. Pneumatic,hydraulic and
lubrication system

5. Cutting cooling
6. Internal helix chip conveyor

7. External chain type chip conveyor
and trolley

8. Full enclosure

9. 3-color signal lamp, working light

10. Standard accessories

11. 6000rpm HISION built-in spindle
(only for GUE II)

Option Configuration

1. 24T ATC

2. CNC rotary table(4th)

3. Coolant through spindle (2-6MPa)

4. Linear scale

5. Workpiece probe(2D)

6. Tool setter

7. Oil skimmer

8. Air conditioner

9. Full enclosure with top cover

10. Water gun
11. Oil mist collector

12. Manual 90° milling head(4x90°)

13. Air gun

14. Controller:MITSUBISHI M80A
(only for Gue)

15. Controller:FANUC 0i for 8000rpm
built-in spindle(only for Gue)

16. 8000rpm HISION built-in spindle
(only for GUE)

17. Spindle ring spray(only for Gue)

GLU II

Items	Unit	GLU13 II ×16	GLU13 II ×21	GLU13 II ×30	GLU16 II ×20	GLU16 II ×25
» Machining Capacity						
X travel	mm	1600	2000	3100	2000	2500
Y travel	mm	1300	1300	1300	1500	1500
Z travel	mm	700	700	700	700	700
Distance between columns	mm	1380	1380	1380	1580	1580
Spindle nose to table surface	mm	205-905	205-905	205-905	255-955	255-955
» Table						
Table size	mm	1300×1800	1300×2200	1300×3000	1500×2000	1500×2500
Table load	t	4	5	7	6	8
T slot	mm	22×160×8	22×160×8	22×160×8	22×160×9	22×160×9
» Feed Rate						
Cutting feedrate (X/Y/Z)	m/min	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10
Rapid traverse (X/Y/Z)	m/min	15/20/15	12/20/15	12/20/15	12/20/15	12/20/15
» Spindle						
Drive type		Gear box	Gear box	Gear box	Gear box	Gear box
Max Spindle speed	rpm	6000	6000	6000	6000	6000
Spindle power	kW	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
Spindle torque	N.m	316/522	316/522	316/522	316/522	316/522
Spindle taper		BT50	BT50	BT50	BT50	BT50
Ram section	mm	350×350	350×350	350×350	350×350	350×350
» Tool Magazine (Option)						
Tool magazine capacity	T	24	24	24	24	24
Tool magazine type		BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	300	300
Max.tool weight	kg	20	20	20	20	20
» Other						
Power capacity	kVA	40	40	40	40	40
Machine weight	t	16	19	24	20	23
Machine size(L×W×H)	cm	560×388×420	690×388×420	880×388×420	741×400×432	777×400×432

Standard Configuration

1. Controller: FANUC 0i

2. Gear box drive

3. Spindle oil chiller

4. Z axis hydraulic balancing system

5. lubrication system

6. Cutting cooling
7. Internal helix chip conveyor

8. External chain type chip conveyor

9. Full enclosure

10. 3-color signal lamp, working light

11. Standard accessories

12. Common maintenance tools

Option Configuration

1. 24/32T ATC

2. Column heighten 200mm

3. Coolant through spindle (2-6MPa)

4. Linear scale

5. CNC rotary table(4th)

6. Full enclosure with top cover

7. Air conditioner
8. Manual 90° milling head(4x90°)

9. Workpiece probe(2D)

10. Tool setter

11. Oil skimmer

12. Water gun

13. Oil mist collector

14. Air gun



GLUe

Items	Unit	GLUe13×16	GLUe13×21	GLUe13×30	GLUe16×20	GLUe16×25	GLUe16×30
» Machining Capacity							
X travel	mm	1600	2000	3100	2000	2500	3100
Y travel	mm	1300	1300	1300	1500	1500	1500
Z travel	mm	700	700	700	700	700	700
Distance between columns	mm	1380	1380	1380	1580	1580	1580
Spindle nose to table surface	mm	150-850	150-850	150-850	200-900	200-900	200-900
» Table							
Table size	mm	1300×1800	1300×2200	1300×3000	1500×2000	1500×2500	1500x3000
Table load	t	4	5	7	6	8	10
T slot	mm	22×160×8	22×160×8	22×160×8	22×160×9	22×160×9	22x160x9
» Feed Rate							
Cutting feedrate (X/Y/Z)	m/min	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
Rapid traverse (X/Y/Z)	m/min	20/24/15	16/24/15	16/24/15	16/24/15	16/24/15	16/24/15
» Spindle							
Drive type		Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle
Max Spindle speed	rpm	6000	6000	6000	6000	6000	6000
Spindle power	low speed	kW	15/30	15/30	15/30	15/30	15/30
	High speed	kW	22/30	22/30	22/30	22/30	22/30
Spindle torque	low speed	N.m	318/774	318/774	318/774	318/774	318/774
	High speed	N.m	233/318	233/318	233/318	233/318	233/318
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50
Ram section	mm	350×350	350×350	350×350	350×350	350×350	350×350
» Tool Magazine (Option)							
Tool magazine capacity	T	24	24	24	24	24	24
Tool magazine type		BT50	BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	300	300	300
Max.tool weight	kg	20	20	20	20	20	20
» Other							
Power capacity	kVA	65	65	65	65	65	65
Machine weight	t	16	19	24	20	23	26.5
Machine size(L×W×H)	cm	560×388×420	690×388×420	880×388×420	741×400×432	777×400×432	941×400×432

Standard Configuration

1. Controller:MITSUBISHI M80A

2. HISION built-in spindle

3. Spindle oil chiller

4. Pneumatic,hydraulic and lubrication system

5. Simple splash guard

6. Internal helix chip conveyor
7. External chain type chip conveyor

8. Cutting cooling

9. 3-color signal lamp, working light

10. Standard accessories

11. Common maintenance tools

Option Configuration

1. Controller:FANUC 0i

2. 24/32T ATC

3. Column heighten 200mm

4. Coolant through spindle (2-6MPa)

5. Spindle ring spray

6. Linear scale

7. CNC rotary table(4th)

8. Full enclosure with top cover

9. Air conditioner
10. Manual 90° milling head

11. Workpiece probe(2D)

12. Tool setter

13. Oil skimmer

14. Water gun

15. Oil mist collector

16. Air gun

17. 8000rpm HISION built-in spindle

GLUe

Items	Unit	GLUe18×30	GLUe23×30	GLUe23×40	GLUe28×30	GLUe28×40	GLUe28×50	GLUe28×60
» Machining Capacity								
X travel	mm	3200	3200	4200	3200	4200	5500	6500
Y travel	mm	1700	2200	2200	2700	2700	2700	2700
Z travel	mm	800	800	800	800	800	800	800
Distance between columns	mm	1800	2290	2290	2790	2790	2790	2790
Spindle nose to table surface	mm	250-1050	250-1050	250-1050	250-1050	250-1050	250-1050	250-1050
» Table								
Table size	mm	1500×3000	2000×3000	2000×4000	2000×3000	2000×4000	2000×5000	2000×6000
Table load	t	10	15	18	15	18	22	25
T slot	mm	22×160×9	22×200×9	22×200×9	22×200×9	22×200×9	22×200×9	22×200×9
» Feed Rate								
Cutting feedrate (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10
Rapid traverse (X/Y/Z)	m/min	15/20/15	15/20/15	12/20/15	15/15/15	12/15/15	10/15/15	10/15/15
» Spindle								
Drive type		Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle
Max Spindle speed	rpm	8000	8000	8000	8000	8000	8000	8000
Spindle power	kW	26/45	26/45	26/45	26/45	26/45	26/45	26/45
Spindle torque	N.m	305/623	305/623	305/623	305/623	305/623	305/623	305/623
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50	BT50
Ram section	mm	380×380	380×380	380×380	380×380	380×380	380×380	380×380
» Tool Magazine (Option)								
Tool magazine capacity	T	24	24	24	24	24	24	24
Tool magazine type		BT50	BT50	BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	300	300	300	300
Max.tool weight	kg	20	20	20	20	20	20	20
» Other								
Power capacity	kVA	60	60	60	60	60	60	60
Machine weight	t	30	35	40	38	43	47	52
Machine size(L×W×H)	cm	945×420×550	945×475×550	1185×475×550	975×515×550	1215×515×550	1480×515×550	1620×515×550

Standard Configuration

1. Controller:FANUC 0i

2. HISION built-in spindle

3. Spindle oil chiller

4. Pneumatic,hydraulic and lubrication system

5. Simple splash guard
6. Internal helix chip conveyor

7. External chain type chip conveyor

8. Cutting cooling

9. 3-color signal lamp, working light

10. Standard accessories

11. Common maintenance tools

Option Configuration

1. Controller:FANUC 31i

2. Controller:SIEMENS 828D (only for Purchased built-in spindle)

3. Germany kessler(HSK-A63) 18000rpm/24000RPM built-in spindle

4. HISION(BT40) 12000rpm built-in spindle

5. 24T armless ATC

6. Column heighten

7. Coolant through spindle (2-6MPa)

8. Linear scale

9. CNC rotary table(4th)

10. Full enclosure
11. Auto milling head (only for 8000rpm built-in spindle)

12. 2 stations auto heads storing shelf (only for 8000rpm built-in spindle)

13. Workpiece probe

14. Tool setter

15. Oil skimmer

16. Workpiece air gun

17. Workpiece water gun

18. Air conditioner

19. Z axis travel 1000mm



GLU

Items	Unit	GLU18×30	GLU23×30	GLU23×40
» Machining Capacity				
X travel	mm	3200	3200	4200
Y travel	mm	1700	2200	2200
Z travel	mm	1000	1000	1000
Distance between columns	mm	1800	2290	2290
Spindle nose to table surface	mm	250-1250	250-1250	250-1250
» Table				
Table size	mm	1500×3000	2000×3000	2000×4000
Table load	t	10	15	18
T slot	mm	22×160×9	22×200×9	22×200×9
» Feed Rate				
Cutting feedrate (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10
Rapid traverse (X/Y/Z)	m/min	15/20/15	15/20/15	12/20/15
» Spindle				
Max Spindle speed	rpm	6000	6000	6000
Spindle power	kW	15/18.5	22/26	22/26
Spindle torque	N.m	490/605	726/858	726/858
Spindle taper		BT50	BT50	BT50
Ram section	mm	350×350 (380x380 option)	350×350 (380x380 option)	350×350 (380x380 option)
» Tool Magazine (Option)				
Tool magazine capacity	T	24	24	24
Tool magazine type		BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300
Max.tool weight	kg	20	20	20
» Other				
Power capacity	kVA	40	55	55
Machine weight	t	30	35	40
Machine size(L×W×H)	cm	945×420×510	945×475×510	1185×475×510

Standard Configuration

1. Controller:FANUC 0i

2. Gear box drive

3. Long nose spindle

4. Z axis hydraulic balancing system

5. Spindle oil chiller

6. Pneumatic,hydraulic and lubrication system
7. Simple splash guard

8. Internal helix chip conveyor

9. External chain type chip conveyor

10. Cutting cooling

11. 3-color signal lamp, working light

12. Standard accessories

13. Common maintenance tools

Option Configuration

1. Controller:FANUC 31i

2. Controller:SIEMENS 828D/840Dsl

3. 24/40T ATC

4. 40T vertical & horizontal ATC

5. Column heighten

6. Crossrail (Y axis)extended

7. (z axis travel 1000mm)

8. Coolant through spindle (2-6)

9. Linear scale

10. CNC rotary table(4th)
11. Full enclosure

12. Auto milling heads

13. Manual milling heads

14. 2 stations auto heads storing shelf

15. Workpiece probe

16. Tool setter

17. Oil skimmer

18. Air gun

19. Water gun

20. Air conditioner

GLU

Items	Unit	GLU28×30	GLU28×40	GLU28×50	GLU28×60
» Machining Capacity					
X travel	mm	3200	4200	5500	6500
Y travel	mm	2700	2700	2700	2700
Z travel	mm	1000	1000	1000	1000
Distance between columns	mm	2790	2790	2790	2790
Spindle nose to table surface	mm	250-1250	250-1250	250-1250	250-1250
» Table					
Table size	mm	2000x3000	2000×4000	2000×5000	2000×6000
Table load	t	15	18	22	25
T slot	mm	22 x 200 x 9	22×200×9	22×200×9	22×200×9
» Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10
Rapid traverse (X/Y/Z)	m/min	12/20/15	12/20/15	10/20/15	10/20/15
» Spindle					
Max Spindle speed	rpm	6000	6000	6000	6000
Spindle power	kW	22/26	22/26	22/26	22/26
Spindle torque	N.m	726/858	726/858	726/858	726/858
Spindle taper		BT50	BT50	BT50	BT50
Ram section	mm	350×350 (380x380 option)	350×350 (380x380 option)	350×350 (380x380 option)	350×350 (380x380 option)
» Tool Magazine (Option)					
Tool magazine capacity	T	24	24	24	24
Tool magazine type		BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	300
Max.tool weight	kg	20	20	20	20
» Other					
Power capacity	kVA	55	55	55	55
Machine weight	t	38	43	47	52
Machine size(L×W×H)	cm	975 x 515 x 510	1215×515×510	1480×515×510	1620×515×510

Standard Configuration

1. Controller:FANUC 0i

2. Gear box drive

3. Long nose spindle

4. Z axis hydraulic balancing system

5. Spindle oil chiller

6. Pneumatic,hydraulic and lubrication system
7. Simple splash guard

8. Internal helix chip conveyor

9. External chain type chip conveyor

10. Cutting cooling

11. 3-color signal lamp, working light

12. Standard accessories

13. Common maintenance tools

Option Configuration

1. Controller:FANUC 31i

2. Controller:SIEMENS 828D/840Dsl

3. 24/40T ATC

4. 40T vertical & horizontal ATC

5. Column heighten

6. Crossrail (Y axis)extended

7. (z axis travel 1000mm)

8. Coolant through spindle (2-6)

9. Linear scale

10. CNC rotary table(4th)
11. Full enclosure

12. Auto milling heads

13. Manual milling heads

14. 2 stations auto heads storing shelf

15. Workpiece probe

16. Tool setter

17. Oil skimmer

18. Air gun

19. Water gun

20. Air conditioner



GRU II

Items	Unit	GRU28 II ×30	GRU28 II ×40	GRU28 II ×50	GRU28 II ×60	GRU32 II ×40
» Machining Capacity						
X travel	mm	3200	4200	5500	6500	4200
Y travel	mm	2700	2700	2700	2700	3200
Z travel	mm	1000 (1250 option)	1000 (1250 option)	1000 (1250 option)	1000 (1250 option)	1000 (1250 option)
Distance between columns	mm	2800	2800	2800	2800	3200
Spindle nose to table surface	mm	150-1150	150-1150	150-1150	150-1150	250-1250
» Table						
Table size	mm	2000×3000	2000×4000	2000×5000	2000×6000	2500×4000
Table load	t	15	18	22	25	20
T slot	mm	22×200×9	22×200×9	22×200×9	22×200×9	28×200×12
» Feed Rate						
Cutting feedrate (X/Y/Z)	m/min	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	15/15/10	12/15/10	10/15/10	10/15/10	12/15/10
» Spindle						
Max Spindle speed	rpm	4000	4000	4000	4000	4000
Spindle power	kW	22/26	22/26	22/26	22/26	22/26
Spindle torque	N.m	866/1023	866/1023	866/1023	866/1023	866/1023
Spindle taper		BT50	BT50	BT50	BT50	BT50
Ram section	mm	400×400	400×400	400×400	400×400	400×400
» Tool Magazine (Option)						
Tool magazine capacity	T	24/40	24/40	24/40	24/40	24/40
Tool magazine type		BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	300	300
Max.tool weight	kg	20	20	20	20	20
» Other						
Power capacity	kVA	55	55	55	55	55
Machine weight	t	42	48	53	59	57
Machine size(L×W×H)	cm	1050×530×550	1250×530×550	1500×530×550	1700×530×550	1250×580×570

Standard Configuration

1. Controller:FANUC 0i

2. Gear box drive

3. Z axis hydraulic balancing system

4. Spindle oil chiller

5. Pneumatic,hydraulic and lubrication system
6. Simple splash guard

7. Internal helix chip conveyor

8. Cutting cooling

9. External chain type chip conveyor

10. 3-color signal lamp, working light

11. Standard accessories

12. Common maintenance tools

Option Configuration

1. Controller: FANUC 31i

2. Contrroller: SIEMENS 828D/840Dsl

3. 24/40T ATC

4. 40T vertical & horizontal ATC

5. Column heighten

6. Crossrail (Y axis)extended

7. Z axis travel 1250mm (ram 420x430&column heighten 200mm)

8. Coolant through spindle (2-6MPa)

9. Linear scale

10. CNC rotary table (4th)
11. Full enclosure

12. Auto milling heads

13. Manual milling heads

14. 2 stations auto heads storing shelf

15. Manual cart head stock

16. Workpiece probe

17. Tool setter

18. Oil skimmer

19. Water gun

20. Air gun

21. Air conditioner

GRU II

Items	Unit	GRU32 II×50	GRU32 II×60	GRU32 II×80	GRU36 II×50	GRU36 II×60	GRU36 II×80
» Machining Capacity							
X travel	mm	5500	6500	8500	5500	6500	8500
Y travel	mm	3200	3200	3200	3600	3600	3600
Z travel	mm	1000 (1250 option)	1000 (1250 option)	1000 (1250 option)	1250	1250	1250
Distance between columns	mm	3200	3200	3200	3600	3600	3600
Spindle nose to table surface	mm	250-1250	250-1250	250-1250	200-1450	200-1450	200-1450
» Table							
Table size	mm	2500×5000	2500×6000	2500×8000	3000×5000	3000×6000	3000×8000
Table load	t	25	28	35	28	35	40
T slot	mm	28×200×12	28×200×12	28×200×12	36×200×14	36×200×14	36×200×14
» Feed Rate							
Cutting feedrate (X/Y/Z)	m/min	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	10/15/10	10/15/10	10/15/10	10/15/10	10/15/10	10/15/10
» Spindle							
Max Spindle speed	rpm	4000	4000	4000	4000	4000	4000
Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26
Spindle torque	N.m	866/1023	866/1023	866/1023	866/1023	866/1023	866/1023
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50
Ram section	mm	400×400	400×400	400×400	420×430	420×430	420×430
» Tool Magazine (Option)							
Tool magazine capacity	T	24/40	24/40	24/40	24/40	24/40	24/40
Tool magazine type		BT50	BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	400	400	400
Max.tool weight	kg	20	20	20	25	25	25
» Other							
Power capacity	kVA	55	55	55	80	80	80
Machine weight	t	61	70	85	79	87	106
Machine size(L×W×H)	cm	1500×580×570	1700×580×570	2300×580×570	1500×620×695	1700×620×695	2300×620×695

Standard Configuration

1. Controller:FANUC 0i

2. Gear box drive

3. Z axis hydraulic balancing system

4. Spindle oil chiller

5. Pneumatic,hydraulic and lubrication system
6. Simple splash guard

7. Internal helix chip conveyor

8. Cutting cooling

9. External chain type chip conveyor

10. 3-color signal lamp, working light

11. Standard accessories

12. Common maintenance tools

Option Configuration

1. Controller: FANUC 31i

2. Contrroller: SIEMENS 828D/840Dsl

3. 24/40T ATC

4. 40T vertical & horizontal ATC

5. Column heighten

6. Crossrail (Y axis)extended

7. Z axis travel 1250mm (ram 420x430&column heighten 200mm)

8. Coolant through spindle (2-6MPa)

9. Linear scale

10. CNC rotary table (4th)
11. Full enclosure

12. Auto milling heads

13. Manual milling heads

14. 2 stations auto heads storing shelf

15. Manual cart head stock

16. Workpiece probe

17. Tool setter

18. Oil skimmer

19. Water gun

20. Air gun

21. Air conditioner



GNU

Items	Unit	GNU28×30	GNU28×40	GNU28×50	GNU28×50	GNU32×40
» Machining Capacity						
X travel	mm	3200	4200	5500	6500	4200
Y travel	mm	2800	2800	2800	2800	3200
Z travel	mm	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)
Distance between columns	mm	2800	2800	2800	2800	3200
Spindle nose to table surface	mm	150-1400	150-1400	150-1400	150-1400	250-1500
» Table						
Table size	mm	2000×3000	2000×4000	2000×5000	2000×6000	2500×4000
Table load	t	15	18	22	25	20
T slot	mm	22×200×9	22×200×9	22×200×9	22×200×9	28×200×12
» Feed Rate						
Cutting feedrate (X/Y/Z)	m/min	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	15/15/10	12/15/10	10/15/10	10/15/10	12/15/10
» Spindle						
Max Spindle speed	rpm	3500	3500	3500	3500	3500
Spindle power	kW	30/37	30/37	30/37	30/37	30/37
Spindle torque	N.m	1860/2300	1860/2300	1860/2300	1860/2300	1860/2300
Spindle taper		BT50	BT50	BT50	BT50	BT50
Ram section	mm	450×450	450×450	450×450	450×450	450×450
» Tool Magazine (Option)						
Tool magazine capacity	T	24/40	24/40	24/40	24/40	24/40
Tool magazine type		BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	400	400	400	400	400
Max.tool weight	kg	25	25	25	25	25
» Other						
Power capacity	kVA	65	65	65	65	65
Machine weight	t	49	54	63	70	64
Machine size(L×W×H)	cm	1050×530×675	1250×530×675	1500×530×675	1700×530×675	1250×570×695

Standard Configuration

1. Controller:FANUC 0i

2. Gear box drive

3. Z axis hydraulic balancing system

4. Spindle oil chiller

5. Pneumatic,hydraulic and lubrication system
6. Simple splash guard

7. Internal helix chip conveyor

8. Cutting cooling

9. External chain type chip conveyor

10. 3-color signal lamp, working light

11. Standard accessories

12. Common maintenance tools

Option Configuration

1. Controller:FANUC 31i

2. Controller:SIEMENS 828D/840Dsl

3. 24/40T ATC

4. 40T vertical & horizontal ATC

5. Column heighten

6. Crossrail (Y axis)extended

7. Z axis travel 1500mm(ram 500X500)

8. Coolant through spindle (2-6MPa)

9. Linear scale

10. CNC rotary table (4th)

11. Full enclosure
12. Auto milling heads

13. Manual milling heads

14. 2 stations auto heads storing shelf

15. Manual cart head stock

16. Workpiece probe

17. Tool setter

18. Oil skimmer

19. Water gun

20. Air gun

21. Air conitioner

GNU

Items	Unit	GNU32×50	GNU32×60	GNU32×80	GNU36×50	GNU36×60	GNU36×80
» Machining Capacity							
X travel	mm	5500	6500	8500	5500	6500	8500
Y travel	mm	3200	3200	3200	3600	3600	3600
Z travel	mm	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)	1250 (1500 option)
Distance between columns	mm	3200	3200	3200	3600	3600	3600
Spindle nose to table surface	mm	250-1500	250-1500	250-1500	200-1450	200-1450	200-1450
» Table							
Table size	mm	2500×5000	2500×6000	2500×8000	3000×5000	3000×6000	3000×8000
Table load	t	25	28	35	28	35	40
T slot	mm	28×200×12	28×200×12	28×200×12	36×200×14	36×200×14	36×200×14
» Feed Rate							
Cutting feedrate (X/Y/Z)	m/min	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	10/15/10	10/15/10	10/15/10	10/15/10	10/15/10	10/15/10
» Spindle							
Max Spindle speed	rpm	3500	3500	3500	3500	3500	3500
Spindle power	kW	30/37	30/37	30/37	30/37	30/37	30/37
Spindle torque	N.m	1860/2300	1860/2300	1860/2300	1860/2300	1860/2300	1860/2300
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50
Ram section	mm	450×450	450×450	450×450	450×450	450×450	450×450
» Tool Magazine (Option)							
Tool magazine capacity	T	24/40	24/40	24/40	24/40	24/40	24/40
Tool magazine type		BT50	BT50	BT50	BT50	BT50	BT50
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)	Φ110 (Φ220)
Max.tool length	mm	400	400	400	400	400	400
Max.tool weight	kg	25	25	25	25	25	25
» Other							
Power capacity	kVA	65	65	65	80	80	80
Machine weight	t	72	80	99	79	87	106
Machine size(L×W×H)	cm	1500×570×695	1700×570×695	2300×570×695	1500×620×695	1700×620×695	2300×620×695

Standard Configuration

1. Controller:FANUC 0i

2. Gear box drive

3. Z axis hydraulic balancing system

4. Spindle oil chiller

5. Pneumatic,hydraulic and lubrication system
6. Simple splash guard

7. Internal helix chip conveyor

8. Cutting cooling

9. External chain type chip conveyor

10. 3-color signal lamp, working light

11. Standard accessories

12. Common maintenance tools

Option Configuration

1. Controller: FANUC 31i

2. Controller: SIEMENS828D/840Dsl

3. 24/40T ATC

4. 40T vertical & horizontal ATC

5. Column heighten

6. Crossrail (Y axis)extended

7. Z axis travel 1500mm(ram 500X500)

8. Coolant through spindle (2-6MPa)

9. Linear scale

10. CNC rotary table (4th)

11. Full enclosure
12. Auto milling heads

13. Manual milling heads

14. 2 stations auto heads storing shelf

15. Manual cart head stock

16. Workpiece probe

17. Tool setter

18. Oil skimmer

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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 and Dalian production base. It has a modern constant temperature processing and assembly plant of over 300,000 square meters with nearly 1500 employees. It is awarded honors such as “key high-tech enterprise of the National Torch Plan”, “national major technical equipment enterprise”, “national high-tech enterprise”, and “provincial high-tech research and development center”.

