



Ningbo Dagang Production Base



Ningbo Yanshan Production Base



Dalian Production Base



Ningbo Haitian Precision Machinery Co., Ltd.

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Vertical Machining Center Double Column Machining Center

V180 / VMC

GU5 II (e) / GU6 II (e)

GLU / GLU II (e) / GRU II / GNU



Ningbo Haitian Precision Machinery Co.,Ltd.



V180



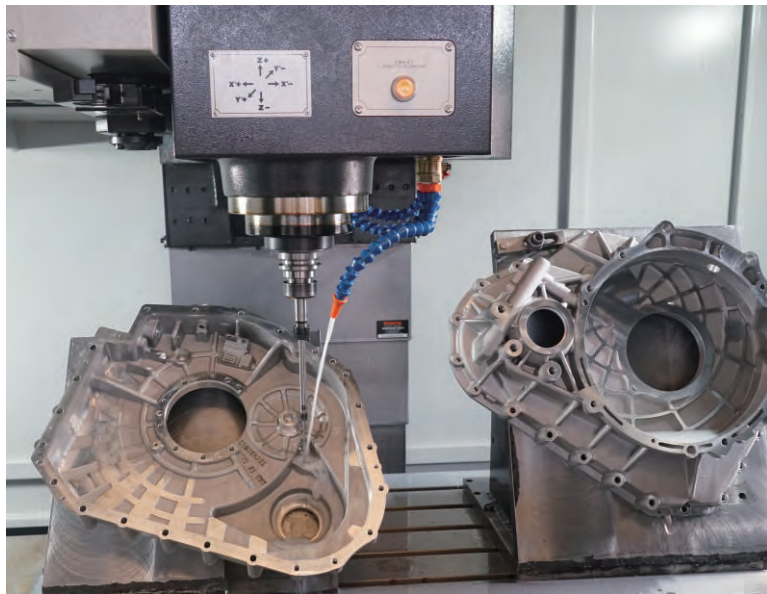
VMC700L/1000L series



GU5 II (e)/GU6 II (e) series

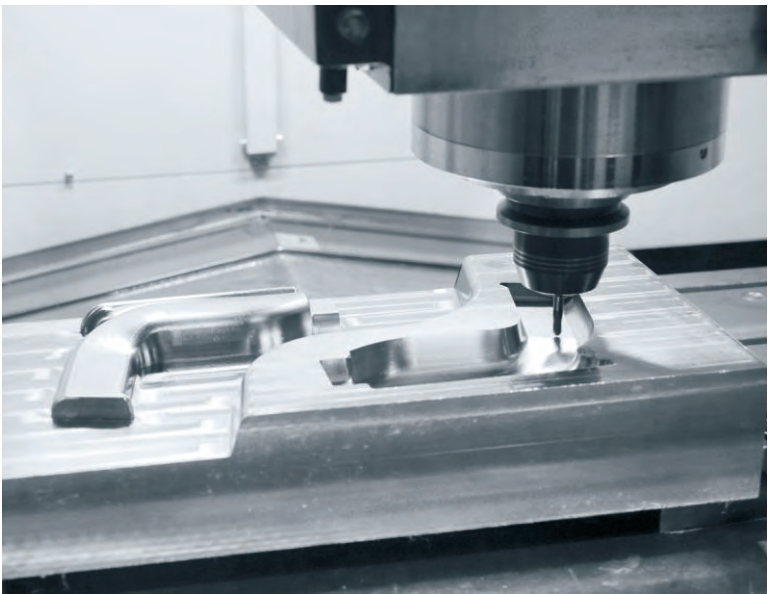
Vertical Machining Center

VMC 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 (e) 13/16 series



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



GRU II 28/32 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.



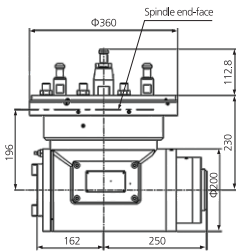
- GLU II series**
 GLU II series adopt full gear transmission and special Z-axis boxway layout technology (Haitian precision company patented technology) to achieve the perfect integration of strength and high-precision processing.
- GLUe series**
 GLUe series adopt the struture of built-in spindle with 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



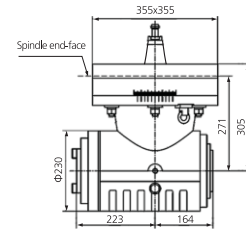
90° auto milling head



Max Power: 15kW
Max Speed: 2000rpm



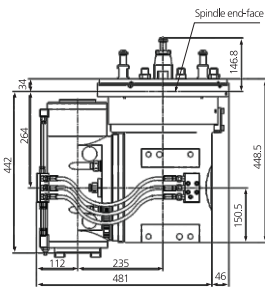
90° manual milling head



Max Power: 20kW
Max Speed: 2000rpm



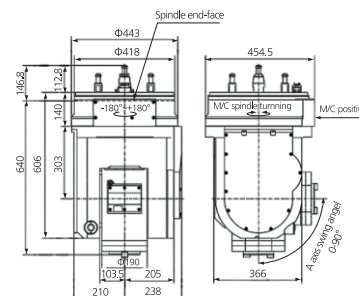
Uniserval milling head



Max Power: 15kW
Max Speed: 2000rpm



Uniserval AC swing milling head (Only for GRU II series)



Max Power: 15kW
Max Speed: 4000rpm

Automatic attachment charger



Two stations auto head storing shelf



Attachment head holder

Items	Unit	V180	VMC700L	VMC1000L
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➤ Machining Capacity

X travel	mm	500	700	1000
Y travel	mm	400	450	600
Z travel	mm	330	500	600
Spindle nose to table surface	mm	150-480	150-650	150-750

> Table

Table size	mm	650x400	800x450	1150x600
Table load	t	255	0.6	0.8
T slot		14x125x3	18x80x5	18x100x5

> **Feed Rate**

Cutting feedrate (X/Y/Z)	m/min	30	24/24/20	24/24/20
Rapid traverse (X/Y/Z)	m/min	48	36/36/30	36/36/30

> **Spindle**

Spindle speed	rpm	25-20000	8000	8000
Spindle power	kW	3.7/5.5	7.5/11	7.5/11
Spindle torque	N.m		71.5/105	71.5/105
Spindle taper		BT30	BT40	BT40
Pull stud		MAS-P30T-1	MAS403-P-40T-I(45°)	MAS403-P-40T-I(45°)

➤ **Tool Magazine**

Tool magazine capacity	T	16	20	24
Tool magazine type			Arm type	Arm type
Max.tool dia. (Adjacent vacant)	mm	Φ60 (Φ80)	Φ80 (Φ125)	Φ80 (Φ125)
Max.tool length	mm	250	300	300
Max.tool weight	kg	3	7	7
Tool change time	s	1.6	2.8	2.8

> Other

Power capacity	kVA	15	30	30
Machine weight	t	4	5.8	6.5
Machine size(LxWxH)	mm	1620x2080x2380	2675 X 2980 X2610	2800 X 3200 X2800

V180 Standard Configuration

- 1 Controller:Fanuc Oi
- 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

VMC700L/1000L 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 Coolant gun
- 9 3-color signal lamp, working light
- 10 Standard accessories

V180 Option Configuration

- 1 Controller:Mitsubishi M80
- 2 CNC rotary table (4th axis)
- 3 Pre-research 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

VMC700L/1000L Option Configuration

- | | | | |
|----|----------------------------------|----|---|
| 1 | Controller: FANUC Oi | 12 | Spindle ring spray |
| 2 | Controller: MITSUBISHI M80A | 13 | Oil skimmer |
| 3 | Air conditioner | 14 | Oil mist collector |
| 4 | Spindle oil chiller | 15 | External chain type chip conveyor and trolley |
| 5 | Auto door | 16 | External scrap type chip conveyor and trolley |
| 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) | | |

Main Technical Parameters



Items	Unit	GU5 II	GU6 II	GU5e	GU6e
➤ 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	1400×700	1500×850
Table load	t	2	3	2	3
T slot		18×150×5	18×160×5	18×150×5	18×160×5
➤ Feed Rate					
Cutting feedrate (X/Y/Z)	m/min	12/12/10		20/20/10	
Rapid traverse (X/Y/Z)	m/min	20/20/15		24/24/15	
➤ Spindle					
Drive type		Gear box		Built-in spindle	
Spindle speed	rpm	6000		6000	
Spindle power	kW	15/18.5		15/30 (low speed), 22/30 (high speed)	
Spindle torque	N.m	316/522		318/774(low speed), 233/318(high speed)	
Spindle taper		BT50		BT50	
Pull stud		P50T- II -MAS403(BT50-60°)		P50T- II -MAS403(BT50-60°)	
➤ Tool Magazine					
Tool magazine capacity	T	24		24	
Tool magazine type		Arm type		Arm type	
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ200)		Φ110 (Φ200)	
Max.tool length	mm	300		300	
Max.tool weight	kg	20		20	
➤ Other					
Power capacity	kVA	40		65	
Machine weight	t	13	13.7	13	13.7
Machine size(LxWxH)	cm	440×335×410	440×335×420	440×335×410	440×335×420

Standard Configuration

- 1

Controller:MITSUBISHI M80B
(only for GUe)
- 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

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)

Items	Unit	GLU II 13×16	GLU II 13×21	GLU II 13×30	GLU II 16×20	GLU II 16×25
> 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		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
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						
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

Pneumatic,hydraulic and
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

Main Technical Parameters



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	1500×3000
Table load	t	4	5	7	6	8	10
T slot		22×160×8	22×160×8	22×160×8	22×160×9	22×160×9	22×160×9
> 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
Spindle speed		rpm	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
Ram section		mm	350×350	350×350	350×350	350×350	350×350
> Tool Magazine							
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	65	65	65	65	65
Machine weight		t	16	19	24	20	26.5
Machine size(L×W×H)		cm	560×388×420	690×388×420	880×388×420	741×400×432	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 Oi
- 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

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		2700			
Z travel	mm	800						
Distance between columns	mm	1800	2290		2790			
Spindle nose to table surface	mm	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		22×160×9	22×200×9		22×200×9			
➤ Feed Rate								
Cutting feedrate (X/Y/Z)	m/min	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						
Spindle speed	rpm	100-8000						
Spindle power	kW	26/45						
Spindle torque	N.m	305/623						
Spindle taper		BT50						
Ram section	mm	380×380						
➤ Tool Magazine								
Tool magazine capacity	T	24						
Tool magazine type		BT50						
Max.tool dia. (Adjacent vacant)	mm	Φ110 (Φ220)						
Max.tool length	mm	300						
Max.tool weight	kg	20						
➤ Other								
Power capacity	kVA	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 Oi
- 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

Main Technical Parameters



Items	Unit	GLU18×30	GLU23×30	GLU23×40	GLU28×30	GLU28×40	GLU28×50	GLU28×60
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> 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	1000	1000	1000	1000	1000	1000	1000
Distance between columns	mm	1800	2290	2290	2790	2790	2790	2790
Spindle nose to table surface	mm	250-1250	250-1250	250-1250	250-1250	250-1250	250-1250	250-1250

> Table

Table size	mm	1500×3000	2000×3000	2000×4000	2000x3000	2000×4000	2000×5000	2000×6000
Table load	t	10	15	18	15	18	22	25
T slot		22×160×9	22×200×9	22×200×9	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	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	12/20/15	12/20/15	10/20/15	10/20/15

> Spindle

Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000
Spindle power	kW	15/18.5	22/26	22/26	22/26	22/26	22/26	22/26
Spindle torque	N.m	490/605	726/858	726/858	726/858	726/858	726/858	726/858
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50	BT50
Ram section	mm	350×350 (380x380 option)						

> Tool Magazine

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	40	55	55	55	55	55	55
Machine weight	t	30	35	40	38	43	47	52
Machine size(L×W×H)	cm	945×420×510	945×475×510	1185×475×510	975 x 515 x 510	1215×515×510	1480×515×510	1620×515×510

Standard Configuration

- 1

Controller:FANUC Oi
- 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

380 Square ram
(z axis travel 1000mm)
- 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

Workpiece probe
- 16

Tool setter
- 17

Oil skimmer
- 18

Air gun
- 19

Water gun
- 20

Air conditioner

Items	Unit	GRU II 28×30	GRU II 28×40	GRU II 28×50	GRU II 28×60	GRU II 32×40	GRU II 32×50	GRU II 32×60	GRU II 32×80
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> Machining Capacity

X travel	mm	3200	4200	5500	6500	4200	5500	6500	8500
Y travel	mm	2700	2700	2700	2700	3200	3200	3200	3200
Z travel	mm	1000 (1250 option)							
Distance between columns	mm	2800	2800	2800	2800	3200	3200	3200	3200
Spindle nose to table surface	mm	150-1150	150-1150	150-1150	150-1150	250-1250	250-1250	250-1250	250-1250

> Table

Table size	mm	2000×3000	2000×4000	2000×5000	2000×6000	2500×4000	2500×5000	2500×6000	2500×8000
Table load	t	15	18	22	25	20	25	28	35
T slot		22×200×9	22×200×9	22×200×9	22×200×9	28×200×12	28×200×12	28×200×12	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	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	10/15/10	10/15/10	10/15/10

> Spindle

Spindle speed	rpm	4000	4000	4000	4000	4000	4000	4000	4000
Spindle power	kW	22/26	22/26	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	866/1023	866/1023
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50
Ram section	mm	400×400	400×400	400×400	400×400	400×400	400×400	400×400	400×400

> Tool Magazine

Tool magazine capacity	T	24/40	24/40	24/40	24/40	24/40	24/40	24/40	24/40
Tool magazine type		BT50	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)	Φ110 (Φ220)
Max.tool length	mm	300	300	300	300	300	300	300	300
Max.tool weight	kg	20	20	20	20	20	20	20	20

> Other

Power capacity	kVA	55	55	55	55	55	55	55	55
Machine weight	t	42	48	53	59	57	61	70	85
Machine size(L×W×H)	cm	1050×530×550	1250×530×550	1500×530×550	1700×530×550	1250×580×570	1500×580×570	1700×580×570	2300×580×570

Standard Configuration

- 1

Controller:FANUC Oi
- 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 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

Main Technical Parameters



Items	Unit	GNU28×30	GNU28×40	GNU28×50	GNU28×60	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)				
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		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						
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						
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

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)					
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		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							
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							
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

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