



**Ningbo Haitian Precision Machinery Co., Ltd.**

**H.Q.& Production Base1**

No. 1688 Haitian road, Xiaogang, Beilun, Ningbo-315801, China.  
Tel: +86-574-86182580/86182525  
E-mail: hision@mail.haitian.com

**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.

**Website:**

[www.haitianprecision.com](http://www.haitianprecision.com)



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## HORIZONTAL MACHINING CENTER

H63 II / H80 II / H100 II / H125 II / D  
HUP160 / D

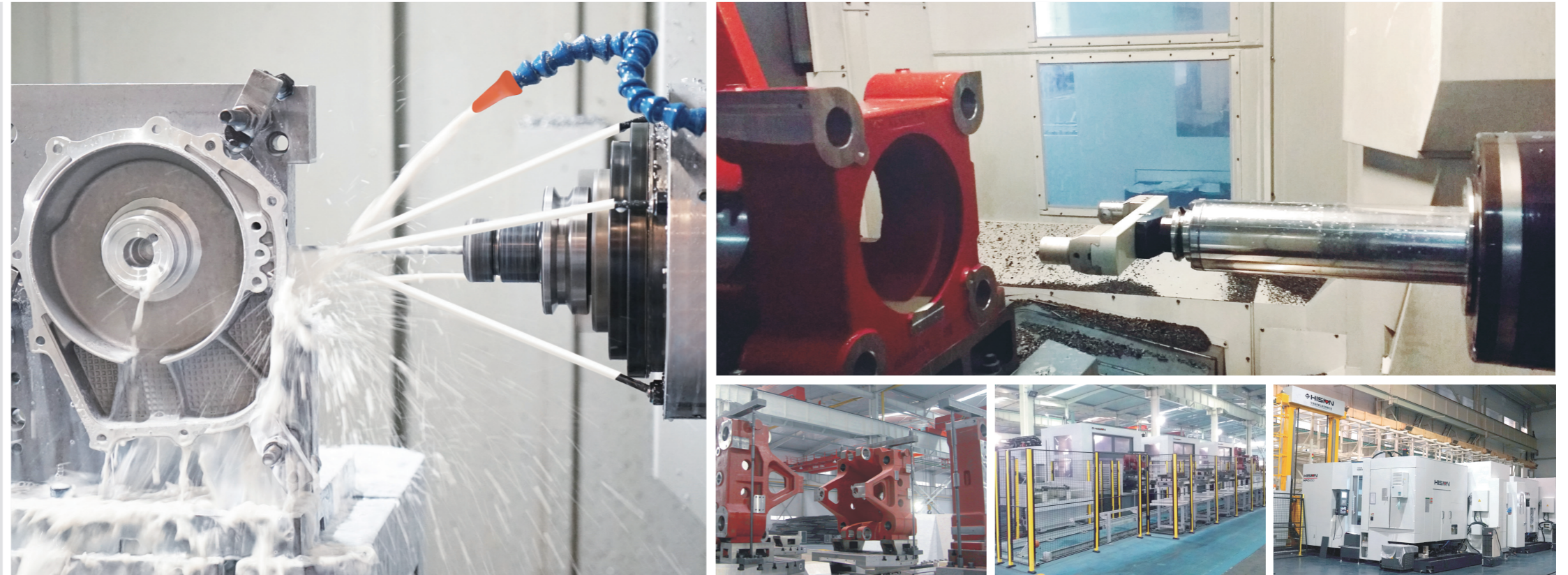
**HISON**



## 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.



• H63 II / H80 II / H100 II / H125 II / D



• H80 II / H100 II / H125 II



• HUP160 / D



# HII

Items	Unit	H63 II	H80 II	H100 II	H125 II
<b>» Machining Capacity</b>					
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(Optional)	535(Optional)	535(Optional)
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
<b>» Table</b>					
Table size	mm	630×630	800×800	1000×1000	1250×1250
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
<b>» Feed Rate</b>					
Cutting feedrate (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	30/20/30	30/20/30
<b>» Spindle</b>					
Spindle speed	rpm	6000	6000	6000	6000
Spindle power	kW	18.5/22	18.5/22	22/26	22/26
Spindle torque	N.m	837	837	989	989
Spindle taper		BT50	BT50	BT50	BT50
Boring bar diameter	mm	----	Φ130(Optional)	Φ130(Optional)	Φ130(Optional)
<b>» Tool Magazine</b>					
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	550	600	650	650
Max.tool weight	kg	30	30	30	30
<b>» Other</b>					
Power capacity	kVA	65	65	65	65
Machine weight	t	17	22	32	33
Machine size(L×W×H)	cm	672x410x380	753x500x430	900x520x460	900x520x460

### 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. External chain type chip conveyor

### Option Configuration

1. Controller:FANUC 31i
2. Controller:SIEMENS 840Dsl
3. CNC rotary table
4. W axis
5. 60/90/120T ATC
6. Linear scale
7. Coolant through spindle
8. Workpiece probe
9. Tool setter
10. Air gun&water gun
11. Air conditioner
12. Oil skimmer
13. FMS(Flexible Manufacture System)
14. Shower coolant
15. Voltage regulator

# HII/D

Items	Unit	H63 II/D	H80 II/D
<b>» Machining Capacity</b>			
X travel	mm	1050	1350
Y travel	mm	850	980
Z travel	mm	900	1000
W travel	mm	----	535(Optional)
Spindle center to table surface	mm	0-850	0-980
Spindle nose to table center	mm	200-1100	230-1230
<b>» Table</b>			
Table size	mm	630×630	800×800
Table load	kg	1300	2000
Pallet indexing	°	1° ×360	1° ×360
Pallet change type		----	----
Pallet quantity		----	----
<b>» Feed Rate</b>			
Cutting feedrate (X/Y/Z)	m/min	12/12/12	12/12/12
Rapid traverse (X/Y/Z)	m/min	32/30/32	30/24/30
<b>» Spindle</b>			
Spindle speed	rpm	6000	6000
Spindle power	kW	18.5/22	18.5/22
Spindle torque	N.m	837	837
Spindle taper		BT50	BT50
Boring bar diameter	mm	----	Φ130(Optional)
<b>» Tool Magazine</b>			
Pull stud		P50T-2-MAS403	P50T-2-MAS403
Tool magazine capacity	T	40	40
Max.tool dia. (Adjacent vacant)	mm	Φ120(Φ240)	Φ120(Φ240)
Max.tool length	mm	550	600
Max.tool weight	kg	30	30
<b>» Other</b>			
Power capacity	kVA	65	65
Machine weight	t	15	20
Machine size(L×W×H)	cm	500x410x380	542x465x430

### 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. External chain type chip conveyor

### Option Configuration

1. Controller:FANUC 31i
2. Controller:SIEMENS 840Dsl
3. CNC rotary table
4. W axis
5. 60/90/120T ATC
6. Linear scale
7. Coolant through spindle
8. Workpiece probe
9. Tool setter
10. Air gun&water gun
11. Air conditioner
12. Oil skimmer
13. FMS(Flexible Manufacture System)
14. Shower coolant
15. Voltage regulator



# HI/D

Items	Unit	H100 II/D	H125 II/D
<b>» Machining Capacity</b>			
X travel	mm	1800	2000
Y travel	mm	1500	1500
Z travel	mm	1350	1350
W travel	mm	535(Option)	535(Option)
Spindle center to table surface	mm	100-1600	100-1600
Spindle nose to table center	mm	300-1650	350-1700
<b>» Table</b>			
Table size	mm	1000×1000	1250×1250
Table load	kg	3000	3000
Pallet indexing	°	1° ×360	1° ×360
Pallet change type		----	----
Pallet quantity		----	----
<b>» Feed Rate</b>			
Cutting feedrate (X/Y/Z)	m/min	6/6/6	6/6/6
Rapid traverse (X/Y/Z)	m/min	30/20/30	30/20/30
<b>» Spindle</b>			
Spindle speed	rpm	6000	6000
Spindle power	kW	22/26	22/26
Spindle torque	N.m	989	989
Spindle taper		BT50	BT50
Boring bar diameter	mm	Φ130(Option)	Φ130(Option)
<b>» Tool Magazine</b>			
Pull stud		P50T-2-MAS403	P50T-2-MAS403
Tool magazine capacity	T	40	40
Max.tool dia. (Adjacent vacant)	mm	Φ120(Φ240)	Φ120(Φ240)
Max.tool length	mm	650	650
Max.tool weight	kg	30	30
<b>» Other</b>			
Power capacity	kVA	65	65
Machine weight	t	30.5	31.5
Machine size(L×W×H)	cm	613x520x460	613x520x460

### Standard Configuration

1. Contoller: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 ligh
10. Full enclosure with top cover
11. Standard accessories
12. Common maintenance tools
13. External chain type chip conveyor

### Option Configuration

1. Contoller:FANUC 31i
2. Contoller:SIEMENS 840Dsl
3. CNC rotary table
4. W axis
5. 60/90/120T ATC
6. Linear scale
7. Coolant through spindle
8. Workpiece probe
9. Tool setter
10. Air gun&water gun
11. Air conditioner
12. Oil skimmer
13. FMS(Flexible Manufacture System)
14. Shower coolant
15. Voltage regulator

# HUP

Items	Unit	HUP160	HUP160/D
<b>» Machining Capacity</b>			
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
<b>» Table</b>			
Table size	mm	1600×1800	1600×1800
Table load	kg	8000	10000
Pallet indexing	°	0.001	0.001
Pallet change type		Parallel type	----
Pallet quantity		2	----
<b>» Feed Rate</b>			
Cutting feedrate (X/Y/Z)	m/min	5/5/5	5/5/5
Rapid traverse (X/Y/Z)	m/min	10/10/10	10/10/10
<b>» Spindle</b>			
Spindle speed	rpm	2500	2500
Spindle power	kW	30/37	30/37
Spindle torque	N.m	2277	2277
Spindle taper		BT50	BT50
Boring bar diameter	mm	Φ130	Φ130
<b>» Tool Magazine</b>			
Pull stud		P50T-2-MAS403	P50T-2-MAS403
Tool magazine capacity	T	40(Option)	40(Option)
Max.tool dia. (Adjacent vacant)	mm	Φ120(Φ240)	Φ120(Φ240)
Max.tool length	mm	500	500
Max.tool weight	kg	30	30
<b>» Other</b>			
Power capacity	kVA	84	84
Machine weight	t	55	46
Machine size(L×W×H)	cm	1320×730×600	803×730×600

### Standard Configuration

1. Contoller:FANUC 0i
2. Gear box drive
3. NC table 0.001°
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 with top cover
12. Standard accessories
13. Common maintenance tools
14. External chain type chip conveyor

### Option Configuration

1. Contoller:FANUC 31i
2. Contoller:SIEMENS 840Dsl
3. CNC rotary table
4. W axis
5. 60/90/120T ATC
6. Linear scale
7. Coolant through spindle
8. Workpiece probe
9. Tool setter
10. Air gun&water gun
11. Air conditioner
12. Oil skimmer
13. FMS(Flexible Manufacture System)
14. Shower coolant
15. Voltage regulator