



WHERE PRECISION
IS **THE MISSION**

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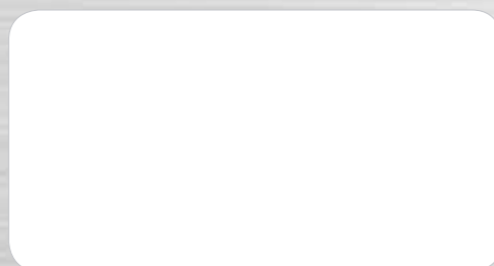
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CNC machine tools from **HAITIAN PRECISION**

INDEX



Yanshan production base with 200,000m² plant



Dagang production base with 100,000m² plant



Dalian production base with 120,000m² plant

IN OUR FACILITIES

Self made machine tools

139 units

Imported machine tools

SUMITOMO Slideway Grinding Machine (JAPAN)	3 units	YASDA Jig Boring Machine (JAPAN)	1 unit
OKUMA Five-face DMC (JAPAN)	3 units	VOUMARD Internal Grinding Machine (SWISS)	1 unit
MITSUBISHI Five-face DMC (JAPAN)	1 unit	SAUTER External Cylindrical Grinding Machine (GERMAN)	1 unit
SNK Five-face DMC (JAPAN)	3 units	STUDER Universal Grinding Machine (SWISS)	1 unit
NIIGATA HMC (JAPAN)	4 units	TOYO Vertical Grinding Machine (JAPAN)	1 unit
MAZAK Turning and Milling Machine (JAPAN)	1 unit	O-M Vertical Lathe (JAPAN)	1 unit
NILES Gear Grinding Machine (GERMAN)	1 unit	IHM Rail Induction Hardening Machine (SPANISH)	1 unit



Vertical Machining Center

VMC1000L
VMU900 / VMU1100



Page1-2

CNC Lathe / Turning Center

TC15L / TC20L / TC25L / TC30A
TC25MC / TC30AMC



Page3-4

Double Column Vertical Machining Center

GU5e / GU6e / GU7e
GLU13e / GLU16e



Page5-6

Double Column Five-face Machining Center

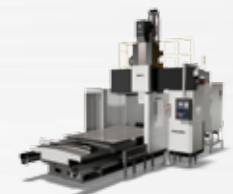
GLU13 / GLU16 II / GLU18 / GLU23 / GLU28



Page7-8

Double Column Five-face Machining Center

SUP18 / SUP23 / SUP28



Page9-10

High Speed Double Column Machining Center

MOU13 / MOU18 / MOU23 / MOU28



Page11-12

Horizontal Machining Center

HUP63e / HUP80e



Page13-14

CNC Tapping Center

V-180



Page15

Attachment for various application



Page16

VMC1000L

VMU900 / VMU1100



Direct driven spindle
12000 rpm



Belt driven spindle
8000 rpm



Z axis heavy-duty roller guideway



Electrical Spindle--12000rpm



Servo ATC

STANDARD

- ❖ Controller: Mitsubishi M70
- ❖ Electrical spindle 12000rpm with oil chiller for VMU
- ❖ Belt drive spindle 8000rpm for VMC only
- ❖ Coolant system
- ❖ Pneumatic, hydraulic, grease lubrication system
- ❖ Splash guard
- ❖ Helix chip conveyor
- ❖ Guide way cover
- ❖ 3-color signal lamp, working light
- ❖ Coolant gun
- ❖ Standard accessories

Specification	Unit	VMC1000L	VMU900	VMU1100
X travel	mm	1000	900	1100
Y travel	mm	600	430	540
Z travel	mm	600	510	520
Spindle nose to table surface	mm	150~750	150~660	150~670
Table size	mm	1150x600	1100x430	1300x550
Table load	kg	800	700	1200
T slot		5x18x100	3x18x125	5x18x100
Driven type		Belt	Electrical	
Spindle speed	rpm	8000	12000	
Spindle motor	kW	7.5/11	7.5/11	
Spindle torque	N.m	71.5/105	71.5/105	
Spindle taper		7/24 No.40	7/24 No.40	
Rapid traverse X/Y/Z	m/min	36/36/30	36	
Cutting feedrate X/Y/Z	m/min	24/24/20	20	
Machine weight	ton	6.5	6	7
Machine size	cm	369x304x374	396x274x255	429x321x268

Demo cutting



OPTION

- ❖ Controller: Fanuc 0i MD
- ❖ 24T ATC
- ❖ Direct drive spindle 12000rpm with oil chiller for VMC only
- ❖ CNC rotaty table max. Φ 320mm ----the 4th axis
- ❖ Coolant through spindle
- ❖ Workpiece probe
- ❖ Tool setter
- ❖ External chip conveyor
- ❖ Air gun
- ❖ Oil mist collector

TC15L / TC20L / TC25L / TC30A

TC25MC / TC30AMC

STANDARD

- ❖ Hydraulic solid chuck
- ❖ Tailstock
- ❖ Turret
- ❖ Hydraulic system
- ❖ Lubrication system
- ❖ Coolant system
- ❖ Full enclosure sheet metal
- ❖ Revolving center
- ❖ Chip conveyor
- ❖ Security door with interlock
- ❖ 3-color signal lamp, working light
- ❖ Soft jaw
- ❖ Tool holder
- ❖ Standard accessories



OPTION

- ❖ Controller: Fanuc or Siemens
- ❖ 2 stage chuck clamping force
- ❖ Hollow chuck
- ❖ Hollow chuck with hollow cylinder
- ❖ Steady rest / follow rest
- ❖ Tool setter
- ❖ Auto bar feeder
- ❖ Programmable tailstock
- ❖ Spindle enlarged
- ❖ Live sleeve
- ❖ Hard jaw

Specification	Unit	TC15L	TC20L	TC25L		TC30A			TC25MC		TC30AMC
				×500	×1000	×500	×1000	×1500	×500	×1000	×500
Swing over bed	mm	Φ440	Φ420	Φ560	Φ560	Φ650	Φ650	Φ650	Φ580	Φ580	Φ650
Swing over saddle	mm	Φ180	Φ200	Φ300	Φ300	Φ420	Φ420	Φ420	Φ320	Φ320	Φ420
Max.turning dia.	mm	Φ180	Φ320	Φ400	Φ400	Φ500	Φ500	Φ500	Φ360	Φ360	Φ450
Max. turning length	mm	200	360	560	1000	530	1000	1500	500	1000	500
Spindle nose taper		A2-5	A2-5	A2-6	A2-6	A2-8	A2-8	A2-8	A2-6	A2-6	A2-8
Spindle speed	rpm	5000	5000	4500	4500	3500	3500	3500	3500	3500	3500
Chuck size	inch	5	6	8	8	10	10	10	8	8	10
Spindle through dia.	mm	Φ42	Φ42	Φ62	Φ62	Φ76	Φ76	Φ76	Φ62	Φ62	Φ76
X/Z travel	mm	110/240	165/410	210/610	210/1050	260/580	260/1050	260/1550	225/550	255/1050	235/550
X/Z rapid traverse	m/min	30/30	24/30	24/30	24/30	16/20	16/20	16/20	24/30	24/30	24/24
C axis rapid speed	rpm	-	-	-	-	-	-	-	15	15	15
Turret type		HydraulicV8	HydraulicV10	HydraulicV12	HydraulicV12	HydraulicV12	HydraulicV12	HydraulicV12	servo VDI 40	servo VDI 40	servo BMT 65
Tool section	mm	20×20	20×20	25×25	25×25	25×25	25×25	25×25	25×25	25×25	25×25
Milling spindle motor	kW	-	-	-	-	-	-	-	AC3.7/5.5	AC3.7/5.5	AC3.7/5.5
Mill spindle speed	rpm	-	-	-	-	-	-	-	3500	3500	3500
Boring bar dia.	mm	Φ25	Φ32	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40
Tailstock stroke	mm	230	220	400	720	350	720	1100	300	720	350
Sleeve stroke	mm	90	80	120	120	120	120	120	80	80	120
Sleeve dia.	mm	Φ50	Φ70	Φ100	Φ100	Φ100	Φ100	Φ100	Φ70	Φ70	Φ100
Main motor	kW	AC7/14	AC7.5/11	AC11/15	AC11/15	AC15/18.5	AC15/18.5	AC15/18.5	AC9/11	AC9/11	AC15/18.5
Weight	kg	2000	3000	4400	4900	4600	5300	6000	4500	5000	4700
Machine size (L*W*H)	cm	190×140×170	330×170×180	370×190×190	450×200×190	397×200×195	438×200×195	510×200×195	392×185×195	460×175×199	397×200×195
Control system		Siemens 828D	Fanuc 0i mate-TD	Fanuc 0i mate-TD		Fanuc 0i mate-TD			Fanuc 0i -TD		Fanuc 0i -TD

Typical samples



Crankshaft



Flange



Transition plate

◆ GU5e / GU6e / GU7e

◆ GLU13e / GLU16e



Single casting gantry

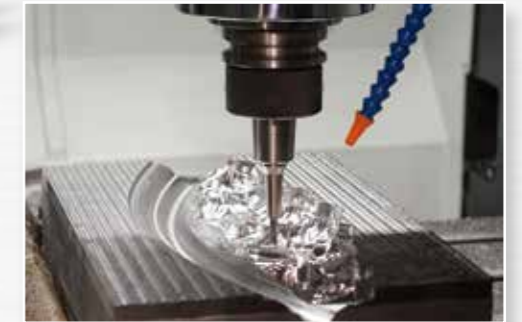
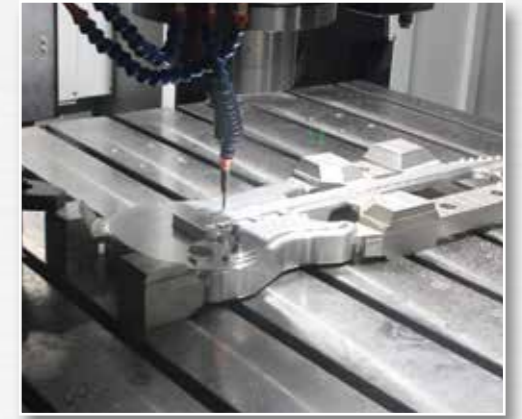


Electrical Spindle--12000rpm



(Option: full enclosure with top cover)

Demo cutting



STANDARD

- ❖ Controller: MITSUBISHI M80
- ❖ BT50 electrical spindle
- ❖ Spindle oil chiller
- ❖ Pneumatic, hydraulic, central lubrication system
- ❖ Coolant system
- ❖ Chip conveyor
- ❖ Full enclosure without top cover
- ❖ Coolant gun
- ❖ 3-color signal lamp
- ❖ Splash guard
- ❖ Standard accessories

Specification	unit	GU5e	GU6e	GU7e	GLU13x16	GLU13x21	GLU13x30	GLU16x20	GLU16x25
X travelmm		1350	1500	1800	1500	2000	3000	2000	2500
Y travelmm		700	850	1000	1300			1800	
Z travelmm		600	700		700				
Width between column	mm	1580	1580	1900	1380			1580	
Spindle nose to table surface	mm	150-850		180-880	150-850				
Table size	mm	1400x700	1500x850	1800x1000	1300x1620	1300x2100	1300x3060	1500x2000	1500x2500
Table load	ton	1.5	2	2.5	4	5	7	6	8
T slot		18x150x5	18x160x5	22x160x6	22x160x10	22x160x13	22x160x19	22x160x9	22x160x9
Rapid traverse X/Y/Z	m/min	24/24/15			20/24/15				
Cutting feedrate X/Y/Z	m/min	20/20/10			18/20/10	12/20/10	12/20/10	12/20/10	12/20/10
Driven type		Electrical			Electrical				
Max. Spindle speed	rpm	6000			6000				
Spindle motor	low speed	Kw			15/30				
	high speed	Kw			22/30				
Spindle torque	low speed	N.m			318/774				
	high speed	N.m			233/318				
Spindle taper		7/24 No. 50			7/24 No. 50				
ram cross section	mm	350X350			350X350				
Machine weight	t	13	14	15	14	16	18	20	23
Machine size	cm	352x273x380	352x296x405	490x317x411	500x300x400	600x300x400	800x300x400	661x390x435	762x390x435

OPTION

- ❖ BT50 electrical spindle
8000rpm (603N.m)
- ❖ BT40 electrical spindle
12000rpm (167N.m)
- ❖ 24T ATC
- ❖ CNC rotary table--- the 4th axis
- ❖ Coolant through spindle
- ❖ Linear scale
- ❖ Workpiece probe
- ❖ Tool setter
- ❖ Oil water separator
- ❖ Air conditioner for electric cabinet
- ❖ Column heightened by 200mm
- ❖ Full enclosure with top cover
- ❖ Air gun

GLU13 / GLU16 II / GLU18 / GLU23 / GLU28



Reliable fully gear driven



Optimized crossrail layout



Hison made automatic 90° milling head

STANDARD

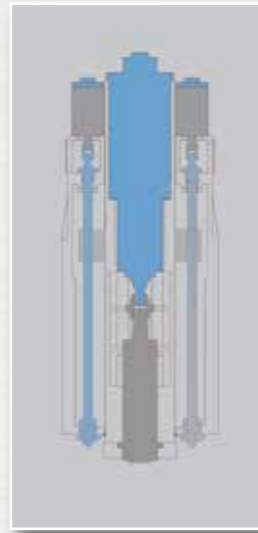
- ❖ Controller: FANUC 0i MD
- ❖ Spindle 6000rpm, gear driven
- ❖ Spindle oil chiller
- ❖ Central lubrication system
- ❖ Guideway cover
- ❖ Z axis hydraulic balancing
- ❖ Coolant system
- ❖ Long nose spindle
- ❖ Air gun
- ❖ Helix chip conveyor
- ❖ 3-color signal lamp, working light
- ❖ Splash guard
- ❖ Standard accessories

OPTION

- ❖ Controller: MITSUBISHI M70
- ❖ Controller: FANUC 31i
- ❖ 24T/40T ATC
- ❖ Coolant gun
- ❖ Coolant through spindle
- ❖ Linear scale
- ❖ Manual attachment
- ❖ Automatic 90° milling head
- ❖ Column heightened
- ❖ Full enclosure sheet metal
- ❖ External chip conveyor
- ❖ Workpiece probe
- ❖ Tool setter
- ❖ CNC rotary table

Specification	Unit	GLU13x16	GLU13x21	GLU13x30	GLU16 II x20	GLU16 II x25	GLU18x20	GLU18x30	GLU18x40	GLU18x50	GLU23x30	GLU23x40	GLU23x50	GLU23x60	GLU28x30	GLU28x40	GLU28x50	GLU28x60			
X travel	mm	1500	2000	3000	2000	2500	2000	3200	4200	5500	3200	4200	5500	6500	3200	4200	5500	6500			
Y travel	mm	1300		1800		1750(2250)		2250(2750)		2750		2750		2750		2750		2750			
Z travel	mm	700		700		760(1000)		1000		1000		1000		1000		1000		1000			
Width between column	mm	1380		1580		1800		2290		2790		2790		2790		2790		2790			
Spindle nose to table surface	mm	150-850		150-850		290-1050(250-1250)		250-1250		250-1250		250-1250		250-1250		250-1250		250-1250			
Table size	mm	1300x1620	1300x2100	1300x3060	1500x2000	1500x2500	1500x2000	1500x3000	1500x4000	1500x5000	2000x3000	2000x4000	2000x5000	2000x6000	2000x3000	2000x4000	2000x5000	2000x6000	2000x6000		
Table load	ton	4	5	7	6	8	8	10	13	16	15	18	22	25	15	18	22	25	25		
T slot		22x160x10	22x160x13	22x160x19	22x160x9	22x160x9	22x160x9		22x200x9		22x200x9		22x200x9		22x200x9		22x200x9		22x200x9		
Rapid traverse X/Y/Z	m/min	20/20/20	18/20/20	18/20/20	20/20/15		10/10/10		10/10/10		10/10/10		10/10/10		10/10/10		10/10/10		10/10/10		
Cutting feedrate X/Y/Z	m/min	12/12/12		12/12/10		20/20/15	15/20/15	12/20/15	10/20/15	15/20/15	12/20/15	10/20/15		15/15/15	12/15/15	10/15/15		10/15/15		10/15/15	
Driven type		Gear		Gear		Gear		Gear		Gear		Gear		Gear		Gear		Gear		Gear	
Max. Spindle speed	rpm	6000		6000		6000		6000		6000		6000		6000		6000		6000		6000	
Spindle motor	Kw	15/18.5		15/18.5		15/18.5		22/26		22/26		22/26		22/26		22/26		22/26		22/26	
Spindle torque	N.m	327/532		327/532		490/605		726/858		726/858		726/858		726/858		726/858		726/858		726/858	
Spindle taper		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50		7/24 No. 50	
Ram cross section	mm	350x350		350x350		350x350		350x350		350x350		350x350		350x350		350x350		350x350		350x350	
Machine weight	t	12.5	13.5	15.5	20	23	24	30	34	39	36	41	47	52	38	43	49	54	54	54	
Machine size	cm	500x300x400	600x300x400	800x300x400	661x390x435	762x390x435	685x420x505	945x420x505	1185x420x505	1450x420x505	945x475x505	1185x475x505	1450x475x505	1590x475x505	975x515x505	1215x515x505	1480x515x505	1620x515x505	1620x515x505	1620x515x505	

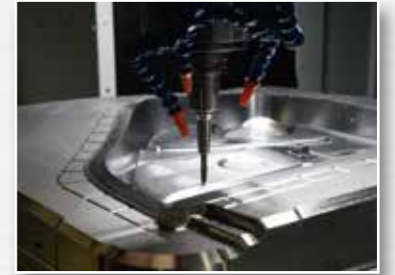
SUP18 / SUP23 / SUP28



Built-in spindle



Demo cutting



STANDARD

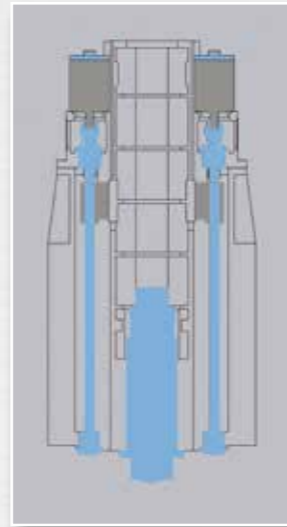
- ❖ Controller: FANUC Oi MD
- ❖ Built-in spindle, 2 step
- ❖ Spindle oil chiller
- ❖ Central lubrication system
- ❖ Guideway cover
- ❖ Coolant system
- ❖ Workpiece air gun
- ❖ Helix chip conveyor
- ❖ 3-color signal lamp, working light
- ❖ Splash guard
- ❖ Standard accessories

OPTION

- ❖ Controller: MITSUBISHI M80
- ❖ Controller: FANUC 31i
- ❖ 24T/40T ATC---arm type
- ❖ 40T/60T ATC---vertical & horizontal
- ❖ Coolant through spindle
- ❖ Linear scale
- ❖ Automatic 90° milling head
- ❖ Column heightened
- ❖ Full enclosure sheet metal/top cover
- ❖ External chip conveyor
- ❖ Workpiece probe
- ❖ Tool setter
- ❖ CNC rotary table

Specification	Unit	SUP18x20	SUP18x30	SUP18x40	SUP18x50	SUP23x30	SUP23x40	SUP23x50	SUP23x60	SUP28x30	SUP28x40	SUP28x50	SUP28x60
X travel	mm	2000	3200	4200	5500	3200	4200	5500	6500	3200	4200	5500	6500
Y travel	mm	1750(2250)				2250(2750)				2750			
Z travel	mm	1000				1000				1000			
Width between column	mm	1800				2290				2790			
Spindle nose to table surface	mm	250-1250				250-1250				250-1250			
Table size	mm	1500×2000	1500×3000	1500×4000	1500×5000	2000×3000	2000×4000	2000×5000	2000×6000	2000×3000	2000×4000	2000×5000	2000×6000
Table load	ton	8	10	13	16	15	18	22	25	15	18	22	25
T slot		22×160×9				22×200×9				22×200×9			
Rapid traverse X/Y/Z	m/min	10/10/10				10/10/10				10/10/10			
Cutting feedrate X/Y/Z	m/min	20/20/15	15/20/15	12/20/15	10/20/15	15/20/15	12/20/15	10/20/15	15/15/15	12/15/15	10/15/15	10/15/15	10/15/15
Driven type		Built-in				Built-in				Built-in			
Max. Spindle speed	rpm	6000				6000				6000			
Spindle motor	Kw	22/25				22/25				22/25			
Spindle torque	N.m	505/600				505/600				505/600			
Spindle taper		7/24 No. 50				7/24 No. 50				7/24 No. 50			
Ram cross section	mm	380×380				380×380				380×380			
Machine weight	t	25	31	35	40	37	42	48	53	39	44	50	55
Machine size	cm	685×420×560	945×420×560	1185×420×560	1450×420×560	945×475×560	1185×475×560	1450×475×560	1620×475×560	975×515×560	1215×515×560	1480×515×560	1620×515×560

MOU13 / MOU18 / MOU23 / MOU28



Electrical Spindle



Demo cutting



STANDARD

- ❖ Controller: FANUC Oi MD
- ❖ Electrical spindle
- ❖ Spindle oil chiller
- ❖ Central lubrication system
- ❖ Guideway cover
- ❖ Coolant system
- ❖ Helix chip conveyor
- ❖ Splash guard
- ❖ Air gun
- ❖ 3-color signal lamp, working light
- ❖ Standard accessories

OPTION

- ❖ Controller: MITSUBISHI M80
- ❖ Controller: FANUC 31i
- ❖ Electrical spindle 18000rpm Kessler--63A
- ❖ Electrical spindle 12000rpm Kessler--100A
- ❖ Electrical spindle 24000rpm Kessler--63A
- ❖ 24T/40T ATC --- not suitable for Kessler spindle
- ❖ CNC rotary table
- ❖ Coolant gun
- ❖ Coolant through spindle
- ❖ Linear scale
- ❖ Full enclosure sheet metal
- ❖ Column heightened
- ❖ External chip conveyor
- ❖ Workpiece probe
- ❖ Tool setter

S Specification	Unit	MOU13x8	MOU13x16	MOU13x21	MOU13x30	MOU18x20	MOU18x30	MOU18x40	MOU18x50	MOU23x30	MOU23x40	MOU23x50	MOU23x60	MOU28x30	MOU28x40	MOU28x50	MOU28x60	
X travel	mm	800	1500	2000	3000	2000	3200	4200	5500	3200	4200	5500	6500	3200	4200	5500	6500	
Y travel	mm	1300				1750(2250)				2250(2750)				2750				
Z travel	mm	700				1000				1000				1000				
Width between column	mm	1380				1800				2290				2790				
Spindle nose to table surface	mm	150~850				100~1100				100~1100				100~1100				
Table size	mm	1300x850	1300x1620	1300x2100	1300x3060	1500x2000	1500x3000	1500x4000	1500x5000	2000x3000	2000x4000	2000x5000	2000x6000	2000x3000	2000x4000	2000x5000	2000x6000	
Table load	ton	1.5	4	5	7	5	7.5	10	12.5	10	13	17	20	10	13	17	20	
T slot		22x160x5	22x160x10	22x160x13	22x160x19	22x160x9				22x200x9				22x200x9				
Rapid traverse X/Y/Z	m/min	24/24/24	20/24/24	18/24/24	18/24/24	20/20/20	15/20/20		12/20/20	15/20/20			12/20/20	10/20/20	15/15/20		12/15/20	10/15/20
Cutting feedrate X/Y/Z	m/min	20/20/20		18/20/20		10/10/10				10/10/10				10/10/10				
Driven type		Electrical				Electrical				Electrical				Electrical				
Max. Spindle speed	rpm	100~12000				100~8000				100~8000				100~8000				
Spindle motor	Kw	15/18.5				26/45				26/45				26/45				
Spindle torque	N.m	95.5/167				305/623				305/623				305/623				
Spindle taper		7/24 No. 40				7/24 No. 50				7/24 No. 50				7/24 No. 50				
Ram cross section	mm	350x350				350x350				350x350				350x350				
Machine weight	t	10.5	12.5	13.5	15.5	24	30	34	39	36	41	47	52	38	43	49	54	
Machine size	cm	320x300x400	500x300x400	600x300x400	800x300x400	685x420x520	945x420x520	1185x420x520	1450x420x520	945x475x520	1185x475x520	1450x475x520	1590x475x520	975x515x520	1215x515x520	1480x515x520	1620x515x520	

◆ HUP63e / HUP80e



STANDARD

- ❖ Controller: FANUC 0i MD
- ❖ 40T ATC
- ❖ Worktable indexing 1°
- ❖ Pallet nos 2
- ❖ Full enclosure sheet metal
- ❖ Guideway cover
- ❖ Chip conveyor
- ❖ Coolant system
- ❖ Spindle oil chiller
- ❖ Ball screw oil cooling unit
- ❖ Spindle air blast
- ❖ Power-off automatic protection
- ❖ Self diagnosis
- ❖ 3-color signal lamp, working light
- ❖ Air gun
- ❖ Standard accessories

OPTION

- ❖ Controller: FANUC 31i
- ❖ Controller: Siemens 828D/840Dsl
- ❖ Linear scale
- ❖ Rapid traverse increased:
63e--54m/min, 80e-- 45m/min
- ❖ CNC rotary table, indexing 0.001°
- ❖ T-slot, worktable tailor made
- ❖ Worktable with hirth coupling
- ❖ Spindle temperature compensation
- ❖ 60T/90T/120T ATC
- ❖ Workpiece probe
- ❖ Tool setter
- ❖ Coolant flushing from top of enclosure
- ❖ Coolant gun
- ❖ Oil water separator
- ❖ Air conditioner for electric cabinet

Specification	unit	HUP63e	HUP80e
X travel	mm	1050	1350
Y travel	mm	910	1050
Z travel	mm	900	1050
Spindle center to table surface	mm	70~980	50~1100
Spindle nose to table surface	mm	200~1100	200~1250
Table size	mm	630×630	800×800
Table indexing		1°	1°
Table load	kg	1300	2000
Pallet change type		rotary	rotary
Pallet change time	sec	12	16
Pallet Nos		2	2
Spindle motor	kW	26/45	26/45
Spindle speed	rpm	10~6000	10~6000
Spindle torque	N.m	305/623	305/623
Spindle taper		7/24 No.50	7/24 No.50
Pull stud		P50T-2-MAS403	P50T-2-MAS403
Rapid traverse	m/min	40	30
Cutting feedrate	m/min	1~40	1~30
Pallet indexing 90°	sec	3	4
Tool magazine	Nos	40T	40T
Tool select		random shortest distance	random shortest distance
Tool shank		BT50	BT50
Tool length	mm	500	500
Max. tool dia. (adjacent vacant)	mm	Φ115(Φ230)	Φ115(Φ230)
Max. tool weight	kg	25	25
Machine weight	ton	19	25
Machine size	cm	550×390×300	615×428×315



Electrical Spindle--6000rpm

One-time clamping can complete milling, boring, tapping for four sides



Petroleum machinery box



Automobile reducer housing



Boring the base

V-180



High rigidity servo driven, 1G acceleration of 3 axes

Mechanical spindle 20000rpm, combination of high speed, high accuracy and heavy duty cutting

Specializing in automotive, motorcycle, communication, medicine industries, etc.

STANDARD

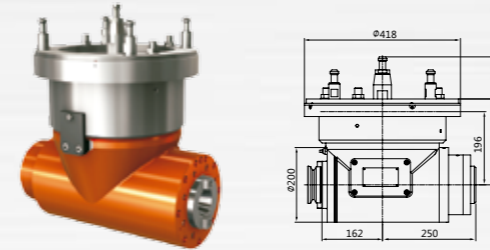
- ❖ Fanuc Oi mate MD
- ❖ Spindle taper air blast
- ❖ Spindle air seal
- ❖ Spindle oil chiller
- ❖ Central lubrication system
- ❖ Rigid tapping
- ❖ Direct spindle 20000rpm
- ❖ 16T ATC -Turret type
- ❖ Coolant system
- ❖ 3 color signal lamp, working light
- ❖ Standard accessories

OPTION

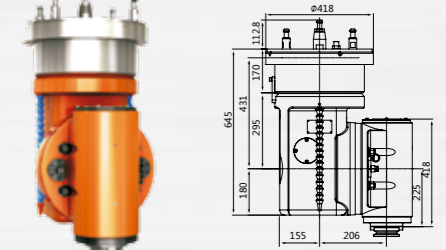
- ❖ Mitsubishi M70V
- ❖ 21T ATC -Turret type
- ❖ 16T/21T ATC- servo type
- ❖ CNC rotary table- the 4th axis
- ❖ Chip flush function
- ❖ Coolant through spindle
- ❖ Tool setter
- ❖ Oil mist collector
- ❖ Automatic door
- ❖ Air gun
- ❖ Water gun

Specification	unit	V-180
Table size	mm	650×400
Max. load	kg	255
T-slot	mm	14×125×3
Worktable to ground	mm	800
X travel	mm	500
Y travel	mm	400
Z travel	mm	330
Spindle nose to table surface	mm	150~480
Max. spindle speed	rpm	25~20000
Spindle taper		7/24 No.30
Spindle motor power	kW	3.5/5.5
Positioning accuracy	mm	0.009
Repeatability	mm	0.005
X/Y/Z cutting feedrate	m/min	30
X/Y/Z rapid traverse	m/min	48
ATC nos		16
Max tool weight	kg	3kg per (Total 25kg)
Max. tool length	mm	250
Max. tool dia. (adjacent vacant)	mm	Φ60(Φ80)
Tool change time	sec	1.6
Tool shank		BT30 45°
Pull stud		MAS-P30T-1
Machine weight	ton	2.5
Machine size	cm	162×208×238

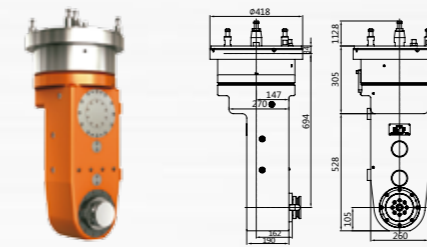
Attachment for various application



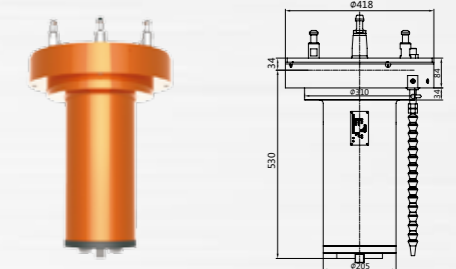
90° angle milling head
maximum speed:2000rpm



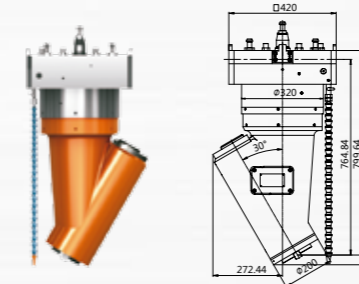
universal milling head
maximum speed:1000rpm



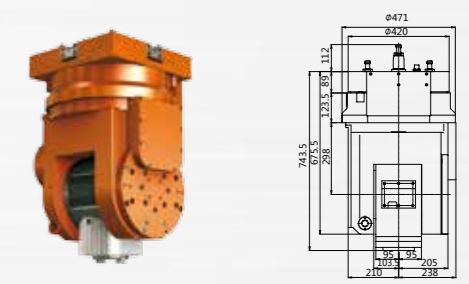
narrow angle milling head
maximum speed:800rpm



extended milling head
maximum speed:2000rpm



30° angle milling head
maximum speed:2000rpm



universal milling head
maximum speed:2000rpm



two position rotary head changer



NC rotary table



vertical and horizontal automatic tool changer