



# XH7145 XH7145A

Vertical Machining Center  
CNC Milling Machine

### Standard accessories

- Fanuc Oi Mate control system
- Lubricating system
- Full guard
- Manual chip conveyor

### Optional accessories

- Control system :KND,GSK,Siemens etc.
- Chain type automatic chip conveyor
- The forth axis
- Spindle center water outlet ,spindle oil coolant

SPECIFICATIONS	Unit	XH7145	XH7145A	XK7145	XK7145A
Table size	mm	800x450	1000x450	800x450	1000x450
Table maximum load	kg	500	600	500	600
T slot(number-width-pitch)		5-18-80	5-18-80	5-18-80	5-18-80
X axis travel	mm	600	700	600	700
Y axis travel	mm	450	450	450	450
Z axis travel	mm	500	550	500	550
Distance between spindle center and column surface	mm	485	460	485	460
Distance between spindle nose and worktable surface	mm	130-630	120-670	130-630	120-670
X/Y axis max.rapid traverse	m/min	24	12	24	12
Z axis max.rapid traverse	m/min	18	10	18	10
Cutting feed	mm/min	1-5000	1-5000	1-5000	1-5000
Spindle speed	r/min	80-8000	80-8000	80-8000	80-8000
Spindle taper		BT40	BT40	BT40	BT40
Main motor power	kw	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5
X/Y/Z guide rail form		3 axis linear rail	3 axis hard rail	3 axis linear rail	3 axis hard rail
positioning accuracy	mm	0.012/0.01/0.01	0.016/0.012/0.012	0.012/0.01/0.01	0.016/0.012/0.012
Repeat positioning accuracy	mm	0.008/0.006/0.006	0.01/0.008/0.008	0.008/0.006/0.006	0.01/0.008/0.008
Tool magazine capacity(standard/optional)		16/24	16/24	-	-
Max.tool dia..(adjoin/apart)	mm	80/130 80/125	80/130 80/125	-	-
Max. tool length	mm	300	300	-	-
Max.tool weight	kg	6	6	-	-
Machine dimension	mm	2100x2450x2300	2100x2450x2300	1800X2300X2300	1800X2300X2300
Machine weight	kg	4200	4200	3900	3900

# XH715 XK715

Vertical Machining Center/CNC Milling Machine



### Standard accessories

- Fanuc Oi Mate control system
- Lubricating system
- Full guard
- Manual chip conveyor

### Optional accessories

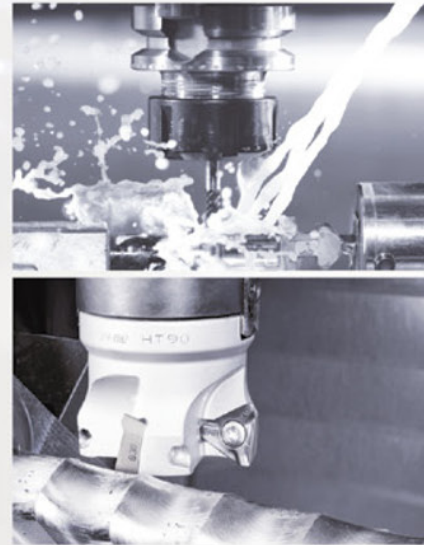
- Control system :KND,GSK, Siemens etc.
- Chain type automatic chip conveyor
- The forth axis
- Spindle center water outlet , spindle oil coolant

SPECIFICATIONS	Unit	XH715		XK715	
Table size	mm	1600X500		1600X500	
Table maximum load	kg	900		900	
T slot(number-width-pitch)		5-18-80		5-18-80	
X axis travel	mm	1000		1000	
Y axis travel	mm	500		500	
Z axis travel	mm	580		580	
Distance between spindle center and column surface	mm	545		545	
Distance between spindle end face and worktable surface	mm	140-720/270-850	170-750/300-880	140-720/270-850	170-750/300-880
X/Y axis max.rapid traverse	m/min	15		15	
Z axis max.rapid traverse	m/min	12		12	
Cutting feed	mm/min	1-5000		1-5000	
Spindle speed	r/min	80-3500	80-6000	80-3500	80-6000
Spindle taper		BT50	BT40	BT50	BT40
Main motor power	kw	11/15		11/15	
X/Y/Z guide rail form		3 axis hard rail		3 axis hard rail	
positioning accuracy	mm	0.02/0.016/0.016		0.02/0.016/0.016	
Repeat positioning accuracy	mm	0.012/0.008/0.008		0.012/0.008/0.008	
Tool magazine capacity(standard/optional)		16/20	16/24	-	
Max.tool dia.(adjoin/apart)	mm	152/200 125/150	80/130 80/150	-	
Max. tool length	mm	300		-	
Max.tool weight	kg	15	7	-	
Machine dimension	mm	3500x2550x2400		3000x2500x2400	
Machine weight	kg	6700	6500	6200	6000



# VMC1690 / VMC1890 VMC20100

Vertical Machining Center  
CNC Milling Machine



### Application

- The CNC system: FANUC Oi mate MD
- The high quality castings: Resin sand casting
- The spindle: Taiwan famous high speed spindle
- The screw: HIWIN
- The knife: The famous Taiwan bamboo hat knife.
- The unclamping cylinder: Taiwan Shangpin
- The weight: Wuxi Xieqing nitrogen balance
- The bearing: Japan NTN
- The Internal protection: Total protection

### Select the configuration

- M70B/M70A Mitsubishi
- The CNC dividing head
- NC rotary table
- The chip cleaner
- The taiwan famous brand manipulator knife storehouse
- The fourth axis
- The fifth axis

## VERTICAL MACHINING CENTER / CNC MILLING MACHINE

### The main performance characteristics

- The fuselage and main components are high strength cast iron, microstructure stability, ensure the stability of machine tool for long-term use.
- The column at the bottom of A type bridge type structure, combined with the big box base, greatly reduce the vibration of machine on heavy cutting
- The pre tension precision ball screw drive
- The high speed, high precision, high rigidity spindle unit
- The design of oil-water separation
- The intermittent automatic lubrication
- Automatic scraping knife system

### Application

- The vertical machining center can be applied to many fields such as mechanical processing and mould manufacturing, can adapt from roughing to finishing processing requirements, has the characteristics of high precision, high efficiency, is widely used in aerospace, military industry, mould, automobile, internal combustion engines, textile machinery, chemical machinery processing, oil, electronics and other industries.

SPECIFICATIONS	Unit	VMC1690	VMC1890	VMC20100
Table size	mm	1800×900	2000×900	2200×1000
Maximum table load	kg	1500	1600	1800
T-slot (slot number×width×pitch)	mm	5-22-165	5-22-165	5-22-185
X-axis travel	mm	1600	1800	2000
Y-axis travel	mm	900	900	1000
Z-axis travel	mm	700	800	800
Distance between spindle center and column surface	mm	950	950	1050
Distance between spindle end face and worktable surface	mm	170-870	160-960	160-960
Spindle taper		BT50/190	BT50/190	BT50/190
Spindle power	kw	15/18.5	18.5/23	18.5/23
Max. spindle speed	rpm	8000	8000	8000
X/Y axis rapid traverse	m/min	15	15	15
Z axis rapid traverse	m/min	12	12	12
Cutting feed	mm/min	1-5000	1-5000	1-5000
Feed motor torque	N.m	27/30/30	27/30/30	27/30/30
Max. tool diameter	mm	127/200	127/200	127/200
Max. tool length	mm	350	350	350
Max.tool weight	kg	15	15	15
Positioning accuracy	mm	±0.01	±0.01	±0.01
Repeat accuracy	mm	±0.0075	±0.0075	±0.0075
Machine weight	kg	15000	16000	18000



# VMC550 / VMC650 VMC1060

Vertical Machining Center/CNC Milling Machine



### Application

- This VMC is suitable for mechanical processing and mold making. And it can adapt to the processing requirement from rough machining to finish machining. It can also finish many working procedures like milling, drilling, tapping, boring, etc.

### Features

- High quality resin sand
- Taiwan spindle
- Taiwan ball screw and locking nut
- Taiwan pressure cylinder
- Japanese NSK bearing germany R+W coupling
- Automatic lubrication system
- Chip conveyor at optional

## VERTICAL MACHINING CENTER / CNC MILLING MACHINE

SPECIFICATIONS	Unit	VMC550	VMC650	VMC850	VMC1060
Table size	mm	700X350	900x400	1050x500	1300x600
Table maximum load	kg	300	450	600	800
X/Y/Z axis travel	mm	550X350X500	650x400x500	800x500x550	1000x600x600
Distance between spindle center and column surface	mm	419	476	550	600
Distance between spindle end face and worktable surface	mm	100-600	100-600	105-655	180-780
X/Y/Z max. feed speed	mm/min	10000	10000	10000	10000
X/Y/Z max.rapid traverse	m/min	20/20/15	24/24/20	20/20/15	20/20/15
Max. spindle speed	r/min	8000	8000	8000	8000
Spindle taper		BT40	BT40	BT40	BT40
Spindle motor	kw	3.7/5.5	5.5/7.5	7.5/11	11/15
X/Y/Z axis servo motor	kw	1.0/1.0/1.5	1.0/1.0/1.5	2.0/2.0/2.0	2.5/2.5/2.5
X/Y/Z motor connection		direct	direct	direct	direct
X/Y/Z guide rail form		Linear guide rail	2 axis linear guide rail , 1 axis hard rail	Hard rail	Hard rail
T slot(number-width-pitch)		3-18-105	3-18-125	5-18-90	5-18-120
Repeat positioning accuracy	mm	±0.004	±0.004	±0.004	±0.004
Tools type		Armless/arm	Armless/arm	Armless/arm	Armless/arm
Tool magazine capacity		Armless:12/arm:16	Armless:16/arm:16	Armless:16/arm:24	Armless:16/arm:24
Max.tool weight	kg	7	7	8	8
Max. tool length	mm	250/350	250/350	250/350	250/350
Electric capacity	KVA	8	10	11	16
Machine dimension	mm	2380X1950X2300	2300x2200x2400	2880x2450x2700	3340x2800x2700
Machine weight	kg	3200	4500	6000	7000



# XH7125 XK7125

Vertical Machining Center/CNC Milling Machine



SPECIFICATIONS	Unit	XH7125	XK7125
Table size	mm	900x250	900x250
X-axis travel	mm	450	450
Y-axis travel	mm	260	260
Z-axis travel	mm	400	400
Distance from spindle axis to column surface	mm	330	330
Distance between spindle nose and worktable	mm	50-430	50-430
The vertical tolerance of distance between spindle nose and worktable	mm	≤0.02	≤0.02
X/Y/Z rapid traverse	M/min	6/5/4	6/5/4
Max.spindle speed	rpm	6000	6000
Spindle taper		BT30	BT30
Main motor power	kw	2.2	2.2
X axis motor torque	N.m	7.7	7.7
Y axis motor torque	N.m	6	6
Z axis motor torque	N.m	6	6
Tool capacity		10 armless type tools magazine	-
Positioning accuracy	mm	0.02	0.02
Repeat positioning accuracy	mm	0.01	0.01
Machine dimension	mm	2200x1650x2200	1200x1500x2100
Machine weight	kg	1800	1400

# VERTICAL MACHINING CENTER / CNC MILLING MACHINE

# XH7136 XK7136

Vertical Machining Center/CNC Milling Machine



SPECIFICATIONS	Unit	XH7136	XK7136
Table size	mm	1250x360	1250x360
Table maximum load	kg	300	300
T slot(number-width-pitch)		3-18-80	3-18-80
X axis travel	mm	900	900
Y axis travel	mm	350	350
Z axis travel	mm	500	500
Distance from spindle axis to column surface	mm	460	460
Distance between spindle nose and worktable	mm	100-600	100-600
X/Y rapid traverse	m/min	10	10
Z rapid traverse	m/min	8	8
Cutting feed	Mm/min	1-2000	1-2000
Max.spindle speed	rpm	8000	8000
Spindle taper		BT40	BT40
Main motor power	kw	5.5	5.5
Tools type		Armless type	Armless type
Machine dimension	mm	3000x2400x2500	2220x1850x2350
Machine weight	kg	2600	2200