

Dependable Quality Professional Technology

Specialized in:

- 5-Axis / 5-Sided
Machining Center
- Vertical / Horizontal
Machining Center

Twinhorn®



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Company Profile



- 1976** ▶ Metal Processing department established on Mar. 1st.
- 1993** ▶ Produce over 1800 sets of Knee-type Milling machine monthly.
- 1994** ▶ Launch first Vertical Machine Center MCV-610 to Asia and Europe market.
- 2005** ▶ Shanghai branch factory officially established.
- 2007** ▶ Launch double-column machining center FG series to the market.
- 2008** ▶ Cooperat with Japanese YASUNAGA CORPORATION to develop and release the first Horizontal machining center HT series to market.
- 2009** ▶ Cooperate with Italian 5Ax-specialized manufacturer MTT to develop both Gantry type 5Ax machining center Inspirer series and moving-column type 5Ax machining center Grander series, and officially launched to the market.
- 2012** ▶ Produce more than 250 sets of Vertical Tapping / Milling machine VF-500 monthly.
- 2016** ▶ Launch first moving-column type 5ax machining center HORNET series to the market.



A wide Range of Milling Heads for Flexible Choice



TTFE3 5-Axes Milling Head

5 Axes Simultaneous Movement Control

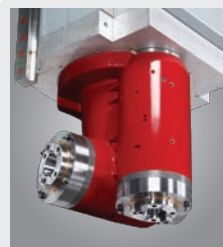
C axis	$\pm 200^\circ$, 450 / 700 Nm
B axis	$+90^\circ \sim -120^\circ$, 450 / 630 Nm
B/C axis Min. Index	0.001° (cont.)
Spindle Type	17500 rpm / HSK 63 Built-in
Spindle Power	35 / 49 kg (380 V)
Spindle Taper	120 / 170 Nm



TTFG1 5-Sided Milling Head

4 Axes Simultaneous Movement Control
Gear-driven Spindle

C axis	$\pm 200^\circ$, 1470 / 3675 Nm
B axis	$\pm 95^\circ$, 1470 / 3675 Nm
B/C axis Min. Index	0.001° (index) / 0.001° (cont.)
Spindle Type	4000 rpm / BT-50 (DIN-50)
Spindle Power	34 kg (380 V)
Spindle Taper	860 / 1110 Nm



TT2s 5-Sided Milling Head

Gear-driven Spindle

C axis	$\pm 185^\circ$, 1200 / 1700 Nm
C axis Min. Index	5°, 0.001° (index)
Spindle Type	4000 rpm / BT-50 (DIN-50)
Spindle Power	18.5 / 30 kg (220 V)
Spindle Taper	698 / 1130 Nm



TT2i Universal Milling Head

Gear-driven Spindle

C axis	$\pm 185^\circ$, 1200 / 1700 Nm
A axis	360°
A axis Min. Index	2.5° (index) (opt. 0.001° index)
C axis Min. Index	0.001° (cont.)
Spindle Type	5000 rpm / BT-50 (DIN-50)
Spindle Power	37 kg (380 V)
Spindle Taper	500 / 700 Nm

FG Series

Bridge Type Vertical Machining Center



X Axis	2200~6200 mm (Unit: 1000 mm)		
Y Axis	1500~3000 mm (Unit: 500 mm)		
Z Axis	760~1000 mm		
Distance Between Columns	1500~3000 mm (Unit: 500 mm)		
Table (L)	2000~6000 mm		
Table (W)	1200~2500 mm		
Max. Load	4000~25000 kg		
Spindle Taper	BT-40 (L)	BT-50 (L)	BT-50 (LG)
Spindle Speed	12000 / 15000 rpm	8000 / 10000 rpm	6000 / 4500 rpm
Spindle Power	15 / 18.5 kW	15 / 22 kW	18.5 / 22 kW
ATC System	ARM type 32 Tools (opt. 40 Tools)		
Cutting Feed	7.5 M/min (FG-15 series 10 M/min)		

VF Series

High Efficiency Vertical Tapping & Milling Center



	VF-500	VF-700
X / Y / Z Axis	500 / 380 / 400 mm	700 / 400 / 400 mm
Table Size	650 x 380 mm	850 x 400 mm
Max. Load	200 kg	300 kg
Spindle Taper	BT-30	
Spindle Speed	Direct driven 12000 rpm (opt. 15000 / 20000 / built-in type 24000 rpm)	
Spindle Power	3.7 / 5.5 kw (15 min)	
ATC System	ARM type 20 Tools	
Rapid Feed	48 / 48 / 48 M/min (opt. 36 / 36 / 36 M/min)	
Cutting Feed	10 M/min	

VTW Series

VTW Series

High Productivity Vertical Tapping & Milling Center with 2 APC

High Productivity Vertical Machining Center with 2 APC



VTW-540	
X / Y / Z Axis	500 / 400 / 350 mm
Table Size	680 x 400 mm
Max. Load	150 kg (Single table)
Spindle taper	BT-30
Spindle Speed	Direct driven 15000 rpm (opt. 20000 / 24000 rpm)
Spindle Power	3.7 / 5.5 kW
ATC System	ARM type 24 Tools
Rapid Feed	48 / 48 / 48 M/min (opt. 60 / 60 / 60 M/min)
Cutting Feed	10 M/min

VTW-755	
X / Y / Z Axis	750 / 500 / 550 mm
Table Size	750 x 550 mm
Max. Load	250 kg (Single table)
Spindle Taper	BBT-40
Spindle Speed	Built-in 12000 rpm (opt. 15000 rpm)
Spindle Power	15 / 18.5 kw
ATC System	ARM type 30 Tools
Rapid Feed	48 / 48 / 48 M/min (opt. 60 / 60 / 48 M/min)
Cutting Feed	10 M/min

VTH Series

5-Axis Vertical Machining Center



VTH-1055F
5-Axis Vertical Machining Center

- A-axis tilt angle: +30° ~ 120°
- C-axis swivel angle: 360°
- A/C-axis index: 0.001°

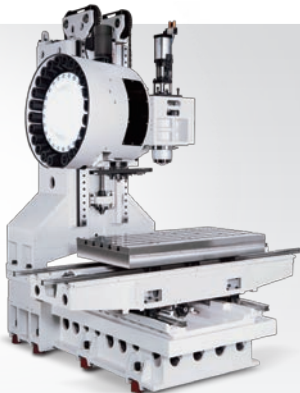


	VTH-1055F	VTH-1055L3	VTH-1060L3
X / Y / Z Axis	900 / 520 / 510 mm	1020 / 550 / 510 mm	1060 / 600 / 600 mm
Table Size	dia. ø320 mm	1200 x 530 mm	1200 x 600 mm
Max. Load	100 kg	600 kg	600 kg
Spindle Taper	BT-40		
Spindle Speed	Belt type 8000 rpm (opt. 10000, 12000 rpm) Built-in 12000 rpm (opt. 15000 rpm)		
Spindle Power	11 / 15 kw		
ATC System	ARM type 24 Tools		
Rapid Feed	48 / 48 / 32 M/min		
Cutting Feed	10 M/min		

VTG Series

Powerful and Dynamic Vertical Machining Center

- L3 Model: All 3 axis adopt linear ways.
- L Model: X, Y axis adopt linear ways, Z axis adopt box way.



	VTG-1065L(L3)	VTG-1165L(L3)	VTG-1365L(L3)	VTG-1565L(L3)
X / Y / Z Axis	1020 mm	1150 mm	1300 mm	1500 mm
Y Axis	650 mm	650 mm	650 mm	650 mm
Z Axis	620 mm	620 mm	620 mm	620 mm
Table Size	1100 x 650 mm	1250 x 650 mm	1400 x 650 mm	1600 x 650 mm
Spindle Speed	8000 rpm			
Spindle Power	11 / 15 kw			
Spindle Taper	BT-40 (opt. BT-50)			
ATC System	ARM type 24 Tools			
Rapid Feedrate	36000 / 36000 / 30000 mm/min (BT-40) 24000 / 24000 / 20000 (BT-50)			

VTP Series

Super Rigid & Durable
Machining Center



	VTP-1061	VTP-1261
X/Y/Z-axis	1020 / 610 / 610 mm	125 / 610 / 610 mm
Table Size	1200 x 600 mm	1400 x 600 mm
Max. load	1000 kg	1200 kg
Spindle Taper	BT-40	
Spindle Speed	Belt type 8000 rpm (opt. 10000, 12000 rpm)	
Spindle Power	11 / 15 kw	
ATC System	ARM type 24 Tools (opt. 32 Tools)	
Rapid Feedrate	24000 / 24000 / 20000 mm/min	
Cutting feed	12000 mm/min	

VTJ Series

Powerful Heavy Cutting Vertical
Machining Center



	VTJ-1480	VTJ-1680	VTJ-1880
X / Y / Z Axis	1400 / 800 / 800 mm	1600 / 800 / 800 mm	1800 / 800 / 800 mm
Table Size	1500 x 800 mm	1700 x 800 mm	2000 x 800 mm
Max. Load	1800 kg	2000 kg	2200 kg
Spindle Taper	BT-40		
Spindle Speed	Gear-driven 6000 rpm (opt. 8000 rpm)		
Spindle Power	15 / 18.5 kW (Mitsubishi)		18.5 / 22 kW (Fanuc)
ATC System	ARM type 24 Tools (opt. 32 / 40 Tools)		
Rapid Feed	15 / 15 / 12 M/min		
Cutting Feed	12 M/min		

HF Series

High Speed Horizontal Machining Center with Single Pallet



	HF-380	HF-380A
X / Y / Z Axis	500 / 420 / 380 mm	500 / 420 / 360 mm
Table Size	380 x 380 mm	
Max. Load	200 kg	
Spindle Taper	BT-30	BT-40
Spindle Speed	Direct-driven 12000 rpm (opt. 15000 rpm)	Built-in type 12000 rpm
Spindle Power	2.2 / 3.7 kW	18 / 23 kW
ATC System	ARM type 20 Tools	ARM type 16 tools (opt. 24 Tools)
Rapid Feed	48 / 48 / 48 M/min	
Cutting Feed	20 M/min	

HE Series

High Efficiency Horizontal Machining Center with 2APC



	HE-400
X / Y / Z Axis	600 / 500 / 500 mm
Table size	400 x 400 mm
Max. Size of Workpiece	ø500 x 600 mm
Number of Pallet	2
Max. Load	400 kg (Single table)
Spindle Speed	Built-in 8000 rpm (opt. 12000, 15000 rpm)
Spindle Power	11 / 18.5 kw
Spindle Taper	BT-40
ATC System	32 Tools (opt. 40 Tools)
Rapid Feederate	36 / 36 / 36 M/min (opt. 48 / 48 / 48 M/min)