

FG-15

Double Column Machining Center

- ◆ Suitable for giant die/mold industry applications.
- ◆ Various manual milling heads could be adopted.



FG-2715LG

Model	FG-2215L(LG)	FG-2715L(LG)	FG-3215 L(LG)	FG-4215L(LG)
X-ax	2200 mm	2700 mm	3200 mm	4200 mm
Y-ax (DBC)				1500 mm
Z-ax	760 mm			
Table size (Length)	2000 mm	2500 mm	3200 mm	4200 mm
Table size (Width)	1200 mm			
Max. loading	4000 kg	5000 kg	6000 kg	8000 kg
Spindle type (L)	BT-40 Built-in 12000rpm (Opt.: 15000rpm) BT-50 Built-in 8000rpm (Opt.: 10000rpm)			
Spindle type (LG)	BT-50 Gear type 6000rpm (Opt.: 4500rpm)			
Spindle power (L)	11 / 18.5 kW			
Spindle power (LG)	18.5 / 22 kW			

FG-20

Double Column Machining Center

- ◆ Suitable for giant die/mold industry applications.
- ◆ Various manual milling heads could be adopted.



FG-2220L(LG)

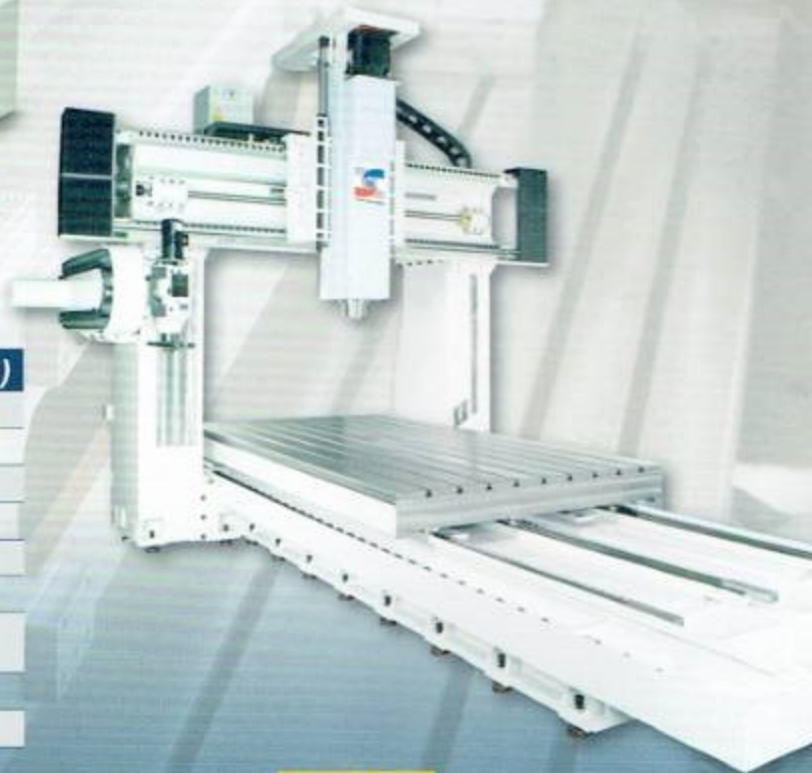
Model	FG-2220L(LG)	FG-2720L(LG)	FG-3220L(LG)	FG-4220L(LG)
X-ax	2200 mm	2700 mm	3200 mm	4200 mm
Y-ax (DBC)	2000 mm			
Z-ax	1000 mm			
Table size (Length)	2000 mm	2500 mm	3000 mm	4000 mm
Table size (Width)	1600 mm			
Max. loading	8000 kg	9000 kg	10000 kg	12000 kg
Spindle type (L):	BT-40 Built-in 12000rpm (Opt.: 15000rpm) BT-50 Built-in 8000rpm (Opt.: 10000rpm)			
Spindle type (LG):	BT-50 Gear type 6000rpm (Opt.: 4500rpm)			
Spindle power (L):	11 / 18.5 kW			
Spindle power (LG):	18.5 / 22 kW			

FG-25

Double Column Machining Center

- ◆ Suitable for giant die/mold industry applications.
- ◆ Various manual milling heads could be adopted.

Model	FG-3225L(LG)	FG-4225L(LG)	FG-5225L(LG)	FG-6225L(LG)
X-ax	3200 mm	4200 mm	5200 mm	6200 mm
Y-ax (DBC)	2500 mm			
Z-ax	1000 mm			
Table size (Length)	3000 mm	4000 mm	5000 mm	6000 mm
Table size (Width)	2000 mm			
Max. loading	12000 kg	15000 kg	18000 kg	20000 kg
Spindle type (L)	BT-40 Built-in 12000rpm (Opt.: 15000rpm)			
Spindle type (LG)	BT-50 Built-in 8000rpm (Opt.: 10000rpm)			
Spindle power (L)	11 / 18.5 kW			
Spindle power (LG)	18.5 / 22 kW			



FG-4225L

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FG-31

Double Column Machining Center

- ◆ Suitable for giant die/mold industry applications.
- ◆ Various manual milling heads could be adopted.

Model	FG-4231 L (LG)	FG-5231 L (LG)	FG-6231 L (LG)
X-ax	4200 mm	5200 mm	6200 mm
Y-ax (DBC)	3100 mm		
Z-ax	1000 mm		
Table size (Length)	4000 mm	5000 mm	6000 mm
Table size (Width)	2500 mm		
Max. loading	15000 kg	18000 kg	20000 kg
Spindle type (L)	BT-50 Built-in 8000rpm (Opt.: 10000rpm)		
Spindle type (LG)	BT-50 Gear type 6000rpm (Opt.: 4500rpm)		
Spindle power (L)	18.5 / 22 kW		
Spindle power (LG)	18.5 / 22 kW		



FG-4231L

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Twinhorn | Horizontal Machining Center



HT-500A(B) Horizontal Machining Center

- ◆ Suitable for mobile industry applications, such as engine and gearbox processings.
- ◆ Coolant through ballscrew system and 3-ax rapid feed 60m/min are available.

Model	HT-500A (B)
Travel:	800 / 800 / 800 mm
Rotary table size	500 x 500 mm (Opt.: 500 x 630 mm)
Max. loading	600 kg
Min. index	0.001° (Opt.: 1°)
ATC	Arm type 40T (Opt.: 60T)
Tool exchange time (T-T)	A: 1.5 sec, B: 3 sec
Spindle type	A: BT-40 Built-in 10000rpm (Opt.: 12000 / 15000rpm) B: BT-50 Built-in 6000rpm (Opt.: 8000 / 10000rpm)
Spindle power	18.5 / 22 kW



HF-380(A)

Horizontal Machining Center

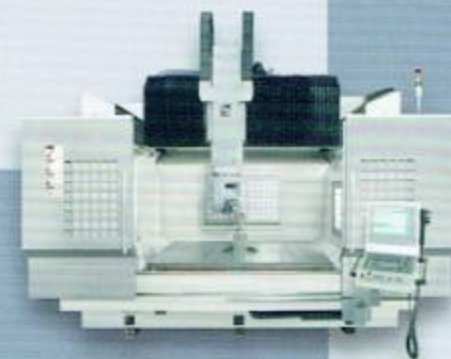


- ◆ Suitable for 3C industry large-scale small-part machining, largely enhance production efficiency.
- ◆ Both #30 & #40 are available for different machining requirements.

Model	HF-380 (A)
Travel	500 / 420 / 380 mm
Rotary table size	380 x 380 mm
Max. loading	350 kg
Min. index	0.001° (Opt.: 1°)
ATC	Arm type 20T
Tool exchange time (T-T)	1.5 sec (A: 2 sec)
Spindle type	HF-380: BT-30 Direct-driven 12000rpm HF-380A: BT-40 Built-in 12000rpm
Spindle power	2.2 / 3.7 kW (A: 11 / 15 kW)

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Twinhorn | 5-Ax & 5-Sided Machining Center



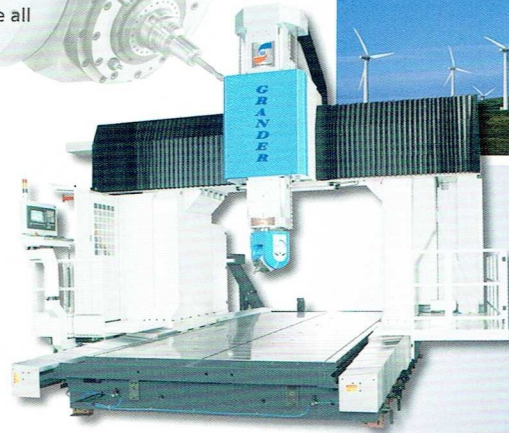
Grander 5Ax

Moving-Column Type 5-Ax Machining Center

- ◆ Suitable for giant-part applications for aerospace, railway, vessel, and mobile industries.
- ◆ Moving-column design provides most compact machine foot-print, and easy access for loading/unloading workpieces, largely enhance production efficiency.
- ◆ 5-Sided milling head, universal milling head and 4ax-synchronized milling head are all available for different applications.

Model	5Ax-VG
X-ax	4000~40000 mm
Y-ax	3000~6000 mm (Unit: 500mm)
Z-ax	1000~1250 mm
A-ax	+95° ~-120°
C-ax	+185° ~-185°
A/C min. index	0.001°
DBC	2000~5000 mm (Unit: 500mm)
Table size (Length)	4130~41300 mm
Table size (Width)	1700~4400 mm
Max. loading	2000 kg/m ²
Spindle type	HSK-A63 Built-in 18000rpm
Spindle power	28 / 28 kW

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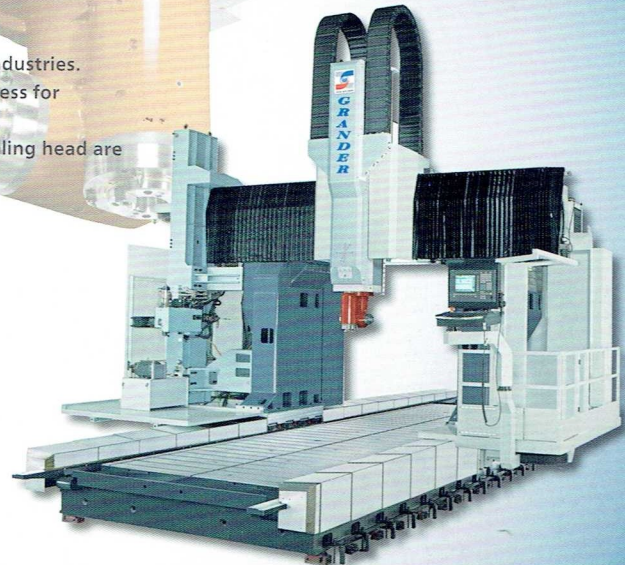
Grander 5-Sided

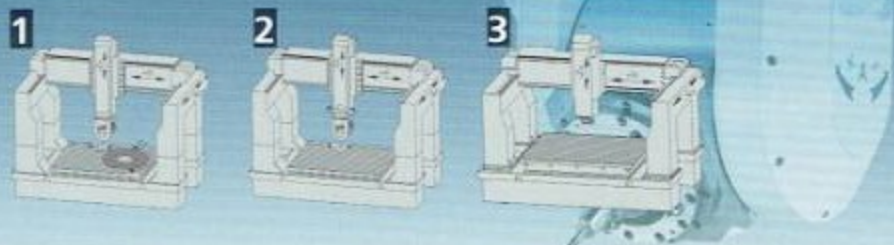
Moving-Column Type 5-Sided Machining Center

- ◆ Suitable for giant-part applications for aerospace, railway, vessel, and mobile industries.
- ◆ Moving-column design provides most compact machine foot-print, and easy access for loading/unloading workpieces, largely enhance production efficiency.
- ◆ 5ax-synchronized milling head, universal milling head and 4ax-synchronized milling head are all available for different applications.

Model	5MG-T
X-ax	4000~40000 mm
Y-ax	3000~6000 mm (Unit: 500mm)
Z-ax	1000~1250 mm
C-ax	± 190°
C min. index	0.001°
DBC	2000~5000 mm (Unit: 500mm)
Table size (Length)	4130~41300 mm
Table size (Width)	1700~4400 mm
Max. loading	2000 kg/m ²
Spindle type	#50 Gear-Driven 4000rpm
Spindle power	40 / 40 kW

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Inspirer Gantry Type 5-Ax Machining Center

- ◆ Suitable for complex multi-plane machining applications of medical appliance and accurate mold industries.
- ◆ Flexible mechanical design provides 3 types of machine applications:
 1. Gantry structure + 5Ax synchronized milling head
 2. Gantry structure + 4Ax synchronized milling head + C-ax rotary table (directly designed on work table)
 3. Gantry structure + high rigid vertical milling head



Model	5Ax-VG1520H
X-ax	1500 mm
Y-ax	2000 mm
Z-ax	800 mm
A-ax	+95° ~-120°
C-ax	+185° ~-185°
A/C min. index	0.001°
Table size	1640 x 2140 mm
Max. loading	2000 kg/ m²
Spindle type	HSK-A63 Built-in 18000rpm
Spindle power	28 / 28 kW

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5Ax VTH-1055L3

5-Ax Machining Center

Model	5Ax VTH-1055L3 (linear-way)
X-ax	900 mm
Y-ax	520 mm
Z-ax	300 mm (Opt.: 510mm)
A-ax	+30° ~-120°
C-ax	360°
A/C min. index	0.001°
Table size (Dia.)	ψ255 mm
Max. loading	100 kg
Spindle type	BT-40 Belt-driven 8000rpm (Opt.: 10000 / 12000rpm)
Spindle power	7.5 / 11 kW
ATC	Arm type 24T
Rapid feed	48 / 48 / 30 m/min
Cutting feed	10 m/min



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Twinhorn | Vertical Machining Center



VF-500

Vertical High Speed Machining Center

- ◆ Suitable for 3C industry large-scale small-part machining, largely enhance production efficiency.
- ◆ Compact mechanical design which is most suitable for the arrangement of large-scale production.

Model	VF-500 (linear-way)
X-ax	500 mm
Y-ax	380 mm
Z-ax	400 mm
Table size	650 x 380 mm
Max. loading	200 kg
Spindle type	BT-30 Direct-driven 12000rpm (Opt.: 15000rpm)
Spindle power	2.2 / 3.7 kW
ATC	Arm type 20T
Rapid feed	48 / 48 / 48 m/min
Cutting feed	10 m/min





VA-500

Vertical Machining Center

Model	VA-500 (box-way)
X-ax	500 mm
Y-ax	400 mm
Z-ax	450 mm
Table size	700 x 400 mm
Max. loading	300 kg
Spindle type	BT-40 Belt-driven 8000rpm (Opt.: 10000 / 12000rpm)
Spindle power	5.5 / 7.5 kW
ATC	Armless type 16T
Rapid feed	20 / 20 / 20 m/min
Cutting feed	8 m/min

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VA-500L3

Vertical Machining Center

Model	VA-500L3 (linear-way)
X-ax	500 mm
Y-ax	400 mm
Z-ax	450 mm
Table size	700 x 400 mm
Max. loading	300 kg
Spindle type	BT-40 Belt-driven 10000rpm
Spindle power	5.5 / 7.5 kW
ATC	Arm type 16T
Rapid feed	48 / 48 / 36 m/min
Cutting feed	10 m/min



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VH Box-Way



Vertical Machining Center

Model	VH-650	VH-850	VH-1010
X-ax	650 mm	850 mm	1010 mm
Y-ax		500 mm	
Z-ax		520 mm	
Table size (L)	800 mm	1000 mm	1200 mm
Table size (W)		450 mm	
Max. loading	450 kg	500 kg	600 kg
Spindle type	BT-40 Belt-driven 8000rpm (Opt.: 10000 / 12000 rpm)		
Spindle power	7.5 / 11 kW		
ATC	Arm type 24T		
Rapid feed	20 / 20 / 20 m/min		
Cutting feed	8 m/min		



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VH Linear-Way

Vertical Machining Center

Model	VH-650L3	VH-850L3
X-ax	650 mm	850 mm
Y-ax		500 mm
Z-ax		520 mm
Table size (L)	800 mm	1000 mm
Table size (W)		450 mm
Max. loading	450 kg	500 kg
Spindle type	BT-40 Belt-driven 8000rpm (Opt.: 10000 / 12000rpm)	
Spindle power	7.5 / 11 kW	
ATC	Arm type 24T	
Rapid feed	30 / 30 / 24 m/min	
Cutting feed	10 m/min	



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VE

Vertical Machining Center

Model	VE-1020L3 (linear-way)	VE-1500L3 (linear-way)
X-ax	1020 mm	1500 mm
Y-ax		510 mm
Z-ax		510 mm
Table size (L)	1070 mm	1570 mm
Table size (W)		500 mm
Max. loading		600 kg
Spindle type	BT-40 Belt-driven 8000rpm (Opt.: 10000 / 12000rpm)	
Spindle power	7.5 / 11 kW	
ATC	Arm type 24T	
Rapid feed	24 / 24 / 24 m/min	
Cutting feed	10 m/min	



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VTH

Vertical Machining Center

Model	VTH-855L3 (linear-way)	VTH-1055L3 (linear-way)
X-ax	850 mm	1020 mm
Y-ax		550 mm
Z-ax		510 mm
Table size (L)	1000 mm	1200 mm
Table size (W)		530 mm
Max. loading	500 kg	600 kg
Spindle type	BT-40 Belt-driven 8000rpm (Opt.: 10000 / 12000rpm)	
Spindle power	7.5 / 11 kW	
ATC	Arm type 24T	
Rapid feed	48 / 48 / 30 m/min	
Cutting feed	10 m/min	



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VP

Vertical Machining Center

- ◆ The gravity of unique triangular headstock largely approaches Z-axis's rail surface, which obviously prolongs the service life of slide and ballscrew.
- ◆ Option: BT-50 4800 / 6000rpm belt-driven spindle.
- ◆ Option: Y-axis travel 700mm.

Model	VP-1100 (box-way)	VP-1500 (box-way)
X-axis	1100 mm	1500 mm
Y-axis	600 mm	
Z-axis	600 mm	
Table size (L)	1200 mm	1600 mm
Table size (W)	600 mm	
Max. loading	800 kg	
Spindle type	BT-40 Belt-driven 6000rpm (Opt.: 8000 / 10000rpm)	
Spindle power	11 / 15 kW	
ATC	Arm type 24T	
Rapid feed	20 / 20 / 20 m/min ; 16 / 16 / 16 m/min	
Cutting feed	8 m/min	



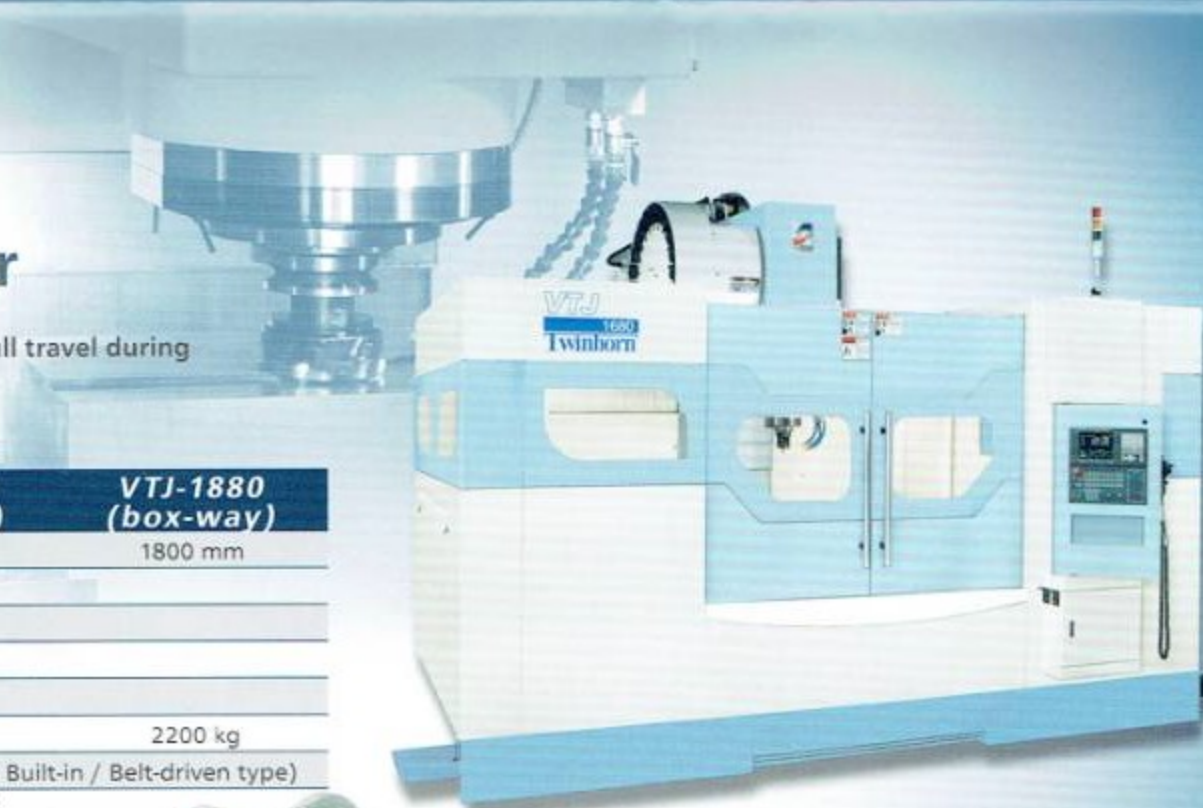
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VTJ

Vertical Machining Center

- ◆ Y-axis's 4-slide design provides more stable support for full travel during heavy-duty applications.
- ◆ Option: BT-40 Built-in / Belt-driven spindle.

Model	VTJ-1480 (box-way)	VTJ-1680 (box-way)	VTJ-1880 (box-way)
X-axis	1400 mm	1600 mm	1800 mm
Y-axis	800 mm		
Z-axis	800 mm		
Table size (L)	1500 mm	1700 mm	
Table size (W)	800 mm		
Max. loading	1800 kg	2000 kg	2200 kg
Spindle type	BT-50 Gear-driven 6000rpm (Opt.: BT-40 Built-in / Belt-driven type)		
Spindle power	18.5 / 22 kW		
ATC	Arm type 24T		
Rapid feed	15 / 15 / 12 m/min		
Cutting feed	12 m/min		



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VA-500M

High Speed Mold Cutting Machining Center

Model	VA-500M(linear-way)
X-ax	500 mm
Y-ax	400 mm
Z-ax	450 mm
Table size	700 x 400 mm
Max. loading	300 kg
Spindle type	BBT-40 Built-in 20000rpm
Spindle power	15 / 18.5 kW
ATC	Arm type 16T
Rapid feed	16 / 16 / 16 m/min
Cutting feed	16 m/min

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VM-900

High Speed Mold Cutting Machining Center

Model	VM-900 (linear-way)
X-ax	900 mm
Y-ax	500 mm
Z-ax	450 mm
Table size	1000 X 500 mm
Max. loading	600 kg
Spindle type	HSK-A63 Built-in 15000rpm (Opt.: 20000 / 30000rpm)
Spindle power	18.5 / 22 kW
ATC	Armless type 16T
Rapid feed	24 / 24 / 24 m/min
Cutting feed	15 m/min

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