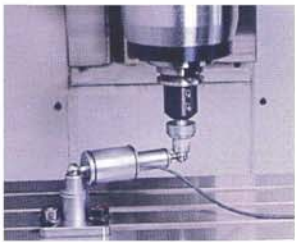


PHOENIX

LG SERIES (Linear Guide Ways)

VERTICAL MACHINING CENTER

LG Series Linear Guideways machines are designed especially for job shops and tool rooms. The wide range of product lineup is capable of handling your sudden job requirements.



FMC-510LG

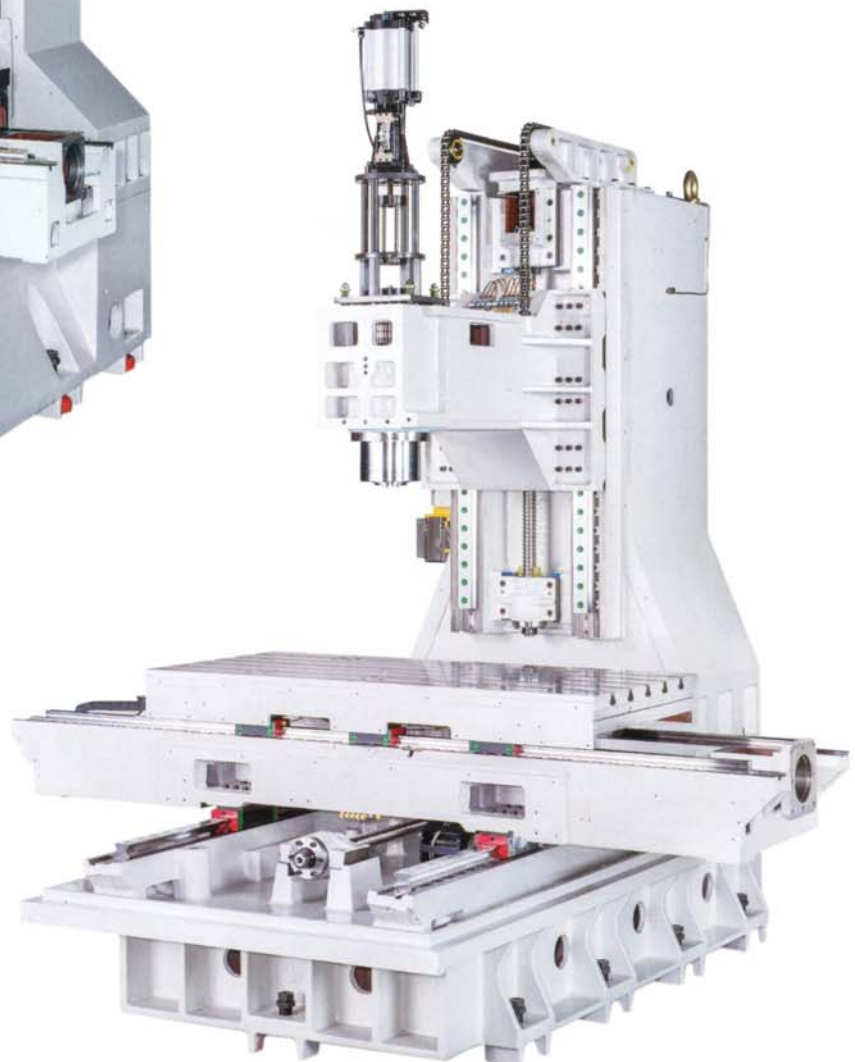
Roller type linear guide ways

The Linear Motion Guideways feature low friction and free from stick-and-slip problems. Such the characteristics are especially suitable for high speed 3D cutting and finishing. The quality of workpiece surface is increased ; the need of manual polishing of workpiece surface is reduced.



FMC-610LG

Machine frame construction



FMC-1200LG

Machine frame construction

SPECIFICATIONS

MODEL	FMC-510LG	FMC-610LG	FMC-850LG	FMC-1000LG
TABLE				
Working surface	600 x 320mm (23-5/8"x12-9/16")	800 x 450mm (31-1/2"x17-11/16")	1000 x 500mm (39-3/8"x19-11/16")	1200 x 500mm (47-3/16"x19-11/16")
T-slots (size x number x pitch)	14mmx3x100mm (0.551" x 3 x 3.937")	18mmx3x100mm (0.708" x 3 x 3.937")	18mmx5x100mm (0.708" x 5 x 3.937")	
Max. table load	300 kgs (661 lbs)	400 kgs (882 lbs)	500 kgs (1102 lbs)	
TRAVEL				
Longitudinal travel (X axis)	510mm (20")	610mm (24")	850mm (33-7/16")	1020mm (40-1/8")
Cross travel (Y axis)	410mm(16-1/8")	460mm(18-1/8")	510mm(20")	
Vertical travel (Z axis)	460mm(18-1/8")	510mm(20")	560mm(22")	
Distance from spindle end to table	130~590mm (5-1/8"~23-3/16")	120~630mm (4-3/4"~24-13/16")	150~710mm (5-7/8"~27-15/16")	
Distance from spindle center to column	430mm (16-7/8")	553mm (21-3/4")	608mm (23-15/16")	
SPINDLE				
Spindle nose taper	BT40 (or CAT40 / DIN40, opt.)			
Spindle speeds	8000 r.p.m. (or 10000 ~ 24000 r.p.m.,opt.)		8000 r.p.m. (or 10000 ~ 15000 r.p.m.,opt.)	
Transmission	belt		belt	
FEED				
Cutting feed rate (X, Y, Z axes)	1~10000 mm/min. (max.)			
Rapid traverse (X, Y axes)	36 m/min. (max.)			
Rapid traverse (Z axis)	36 m/min. (max.)			
ATC				
Tool storage capacity	12 pcs (carrousel) (or 20pcs (carrousel / arm), opt.)	16 pcs(carrousel) (or 20pcs(carrousel) / 24 pcs(arm),opt.)		
Max. tool weight	6 kgs (13.22 lbs)			
Max. tool size (dia. x length)	100mmx300mm (3-15/16"x11-13/16")			
Tool selection	Random			
Tool shank	BT-40			
Pull stud bolt	MAS-P40T-1			
MOTOR				
Spindle motor (AC servo)	3.7 / 5.5KW	5.5 / 7.5KW		
X, Y, Z axes motor (AC servo)	1.5KW	2 KW		
Coolant pump motor	3/4HP			
DIMENSION				
Machine size	2000x2305x2460mm (78 ³ / ₄ "x90 ³ / ₄ "x96 ³ / ₈ ")	2160x2435x2550mm (85"x95-7/8"x100 ³ / ₈ ")	2900x2420x2850mm (114 ³ / ₁₆ "x95 ¹ / ₄ "x112 ³ / ₁₆ "")	2900x2420x2850mm (114 ³ / ₁₆ "x95 ¹ / ₄ "x112 ³ / ₁₆ "")
Machine weight	2800 kgs (6173 lbs)	3800 kgs (8377 lbs)	5000 kgs (11023 lbs)	5200 kgs (11463 lbs)

- The manufacturer reserves the right to modify the design, specifications, mechanisms...etc. to improve the performance of the machine without prior notice. All the specifications shown above are just for reference.

OPTIONAL ACCESSORIES /EQUIPMENTS

- Spindle cooling device
- 10000~24000 r.p.m. spindle speed w/ spindle cooling device
- Bigger horse power spindle motor
- Carrousel type 20 tools ATC
- Arm type 24 tools ATC
- Auger style chip conveyer
- Steel belt chip conveyer
- High pressure water scour for chip removal
- Coolant through spindle
- Air conditioner for electrical cabinet
- CNC Rotary table (the 4th axis control)
- CNC Tilting rotary table (the 4th / 5th axis control)

***The machines could be supplied without controller and servo motor/drives as OEM FRAME.**

SPECIFICATIONS

MODEL	FMC-1200LG	FMC-1300LG	FMC-1600LG
TABLE			
Working surface	1300 x 600mm (51-3/16"x23-5/8")	1450 x 700mm (57" x 27-9/16")	1750 x 700mm (68-7/8" x 27-9/16")
T-slots (size x number x pitch)	18mm x 5 x 100mm (0.708" x 5 x 3.937")	18mm x 5 x 125mm (0.708" x 5 x 4.921")	
Max. table load	1000kgs (2205 lbs)	1200kgs (2646 lbs)	
TRAVEL			
Longitudinal travel (X axis)	1200mm (47-1/4")	1300mm (51-3/16")	1600mm (63")
Cross travel (Y axis)	610mm (24")	700mm (27-9/16")	
Vertical travel (Z axis)	610mm (24")	700mm (27-9/16")	
Distance from spindle end to table	150~760mm(5-7/8"~29-7/8")	BT40 : 130~830mm(5-1/8"~32-11/16") BT50 : 100~800mm(3-15/16"~31-1/2") (opt.)	
Distance from spindle center to column	717mm (28-3/16")	770mm (30-5/16")	
SPINDLE			
Spindle nose taper	BT40 (or CAT40 / DIN40, opt.)	BT40 (or CAT40 / DIN40 ; BT50 / CAT50 / DIN50, opt.)	
Spindle speeds	8000 r.p.m. (or 10000~15000 r.p.m., opt.)	8000 r.p.m. (for BT40) (or 6000 r.p.m. , for BT50, opt.)	
Transmission	belt	belt	
FEED			
Cutting feed rate (X, Y, Z axes)	1~10000 mm/min. (max.)		
Rapid traverse (X, Y axes)	36 m/min. (max.)	30 m/min. (max.)	
Rapid traverse (Z axis)	36 m/min. (max.)	24 m/min. (max.)	
ATC			
Tool storage capacity	20 pcs (carousel) (or 24pcs (arm), opt.)		
Max. tool weight	6 kgs (13.23 lbs)	6 kgs (13.23 lbs) , for BT40 (or 15 kgs (33.07 lbs) , for BT50, opt.)	
Max. tool size (dia. x length)	100mm x 300mm (3-15/16" x 11-13/16")	100mmx300mm (3-15/16" x11-13/16"), for BT40 (or 125mmx300mm(4-15/16"x11-13/16"), for BT50, opt.)	
Tool selection	Random		
Tool shank	BT-40	BT-40 (or BT50, opt.)	
Pull stud bolt	MAS-P40T-1	MAS-P40T-1 (or MAS-P50T-1, for BT50 , opt.)	
MOTOR			
Spindle motor (AC servo)	7.5 / 11 KW		
X, Y, Z axes motor (AC servo)	3 KW	3.5 KW	
Coolant pump motor	3/4HP		
DIMENSION			
Machine size	3450x2805x2950 mm (135 ¹³ / ₁₆ " x 110 ⁷ / ₁₆ " x 116 ¹ / ₈ "	3650x2915x3050 mm (126" x 114 ³ / ₄ " x 120 ¹ / ₁₆ "	4370x2915x3050 mm (172" x 114 ³ / ₄ " x 120 ¹ / ₁₆ "
Machine weight	6800kgs (13767 lbs)	8350kgs (18408 lbs)	10000kgs (22046 lbs)

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STANDARD ACCESSORIES / EQUIPMENTS

- Tool box w/tools
- Leveling screws w/ blocks
- Coolant spraying device
- Centralized auto lubrication device
- Automatic tool changer equipment
- Heat exchanger for electrical box
- Full enclosure guard
- Work lamp
- Telescopic sheet metal way covers on 3 axes
- Heavy duty type linear guide ways on X, Y and Z axes
- C3 Double nut precision ball screws
- Net work interface
- Auto power off circuit
- End of program light

*The machines could be supplied without controller and servo motor/drives as OEM FRAME.



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