

LC-185 B

**VERTICAL MILLING
MACHINING**

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VS HEAD**20VN HEAD****TM HEAD****2G HEAD****20VS HEAD**

LC-185 B

- RIGID HEAD TILTING SYSTEM
- Z AXIS BOX WAY DESIGN FOR HEAVY DUTY WORK
- MEEHANITE CASTING STRUCTURE

MILLING HEAD SPECIFICATION

Milling Head	VS	TM	20 VS	20 VN	2G	
Spindle Taper	R8 or NST 30	R8 or NST 30	NST 40	NST 40	NST 40	
Spindle Motor(3Ph)	2 HP	2 HP	3 HP	3 HP	5 HP	
Quill Diameter	85.7 mm	85.7 mm	90 mm	90 mm	110 mm	
Quill Travel	127 mm (5")	127 mm (5")	127 mm (5")	127 mm (5")	135 mm (5.3")	
Vertical Feeds	0.04/0.08/0.16 mm	0.04/0.08/0.16 mm	0.04/0.08/0.16 mm	0.04/0.08/0.16 mm	0.035/0.070/0.14 mm	
Spindle Speed	50 HZ	50~3,750 rpm (Variable)	60~2,280 rpm (8 Steps)	50~3,750 rpm (Variable)	60~3,000 rpm (16 Steps)	60~3,000 rpm (16 Steps)
	60 HZ	60~4,500 rpm (Variable)	80~2,760 rpm (8 Steps)	60~4,500 rpm (Variable)	75~3,600 rpm (16 Steps)	75~3,600 rpm (16 Steps)
Inverter (Option)	O	X	X	O	O	
Bigger spindle motor (Option)	3 HP	3 HP	5 HP	5 HP	X	
Single phase motor (Option)	O	O	X	X	X	
2 speed motor (Option)	X	O	X	V	V	

V: Standard ; O: Option ; X: Not Available

SPINDLE UNIT

- R8, NST30, NST40 are available.
- Made from One piece of Ni-Cr alloy steel.
- Supported by two precision angular contact and one ball bearing to ensure rigidity.
- Inner taper was hardened and precision ground.



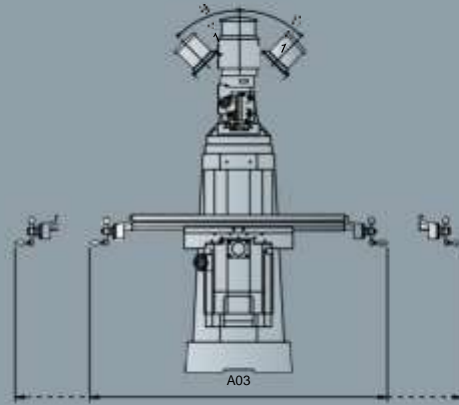
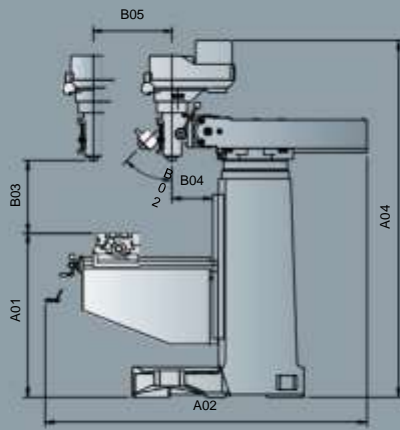
ADJUSTABLE BACKLASH NUT

Unique double nuts and backlash adjusting design, contact face enlarged ensuring accuracy over long term and easy for backlash adjustment .



MILLING HEAD GEAR AND QUILL

- Hardened and ground spindle, quiet and smooth, free of noise and vibration.
- Use dynamically balanced pulleys and precision bearings.
- 2 Hp to 5 Hp spindle motor are available.
- Spindle back gear running in grease packed housing ensure fatigue strength and low noise.
- Chrome coated and mirror ground finished quill.



Machine Type	LC-185VS-B	LC-185TM-B	LC-185VSX-B	LC-185VN-B	LC-185TMX-B
Travel					
Longitudinal Travel	790 mm (31") / Opt: 890 mm (35") ; 990 mm (39")				
Cross Travel	415 mm (16.3")				
Vertical Travel	390 mm (15.3")				
Table					
Working Surface	1,270 mm X 254 mm (50" X 10")				
Working surface to ground A01	950~1,340 mm (37.4~52.8")				
Max. Loading	200 Kg				
T-Slot (no. x width x pitch)	3 X 15.875 mm X 63.5 mm (3 X 0.625" X 2.5")				
Machine Size					
Length A02	no F&B head	1630~2020 (64.2"~79.5")		1760~2230 mm (69.3"~87.8")	
	F&B head			1630~2100 mm (64.2"~82.7")	
Width A03	1,680 mm (66.1")				
Height A04	2200 mm (86.6")		2320 mm (91.3")		2305 mm (90.8")
Weight	1,250 kgs (2,750 lbs)			1,300 kgs (2,860 lbs)	
Coolant pump	O				
Vertical Spindle					
Milling head	VS	TM	20 VS	20 VN	2G
Head Swivel(R&L/90°) B01	V	V	V	V	V
Head Swivel(F&B/45°) B02	V	V	V	O	O
Spindle nose to Table B03	135~525 mm (5.31"~20.7")		165~570 mm (6.5"~22.4")		135~525 mm (5.3"~20.7")
Spindle Centerline to Table surface B04	no F&B head	245~715 mm (9.6"~28.1")		125~595 mm (4.9"~23.4")	
	F&B head			330~800 mm (13"~31.5")	
Overarm Travel B05	470 mm (18.5")				
Overarm Swivel	360				

▶ ACCESSORIES

Machine Type	LC-185VS-B	LC-185TM-B	LC-185VSX-B	LC-185VN-B	LC-185TMX-B
X and Y axis ballscrews (grade C5)	O	O	O	O	O
Power feed system	O	O	O	O	O
Z-Axis motor	O	O	O	O	O
8 Speed gear box feed system	O	O	O	O	O
Scales	O	O	O	O	O
Coolant system, coolant tray	O	O	O	O	O
Automatic lubrication system	O	O	O	O	O
Halogen light with electric box	O	O	O	O	O
4"(100mm) or 7"(178mm) riser block	O	O	O	O	O
Air power drawbar (Vertical)	O	O	O	O	O
Tapping Unit	O	O	O	O	O

V: Standard ; O: Option ; X: Not Available

*Specifications may different according to option accessories and are subject to change without notice.

Edition /A04

FIRST

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