

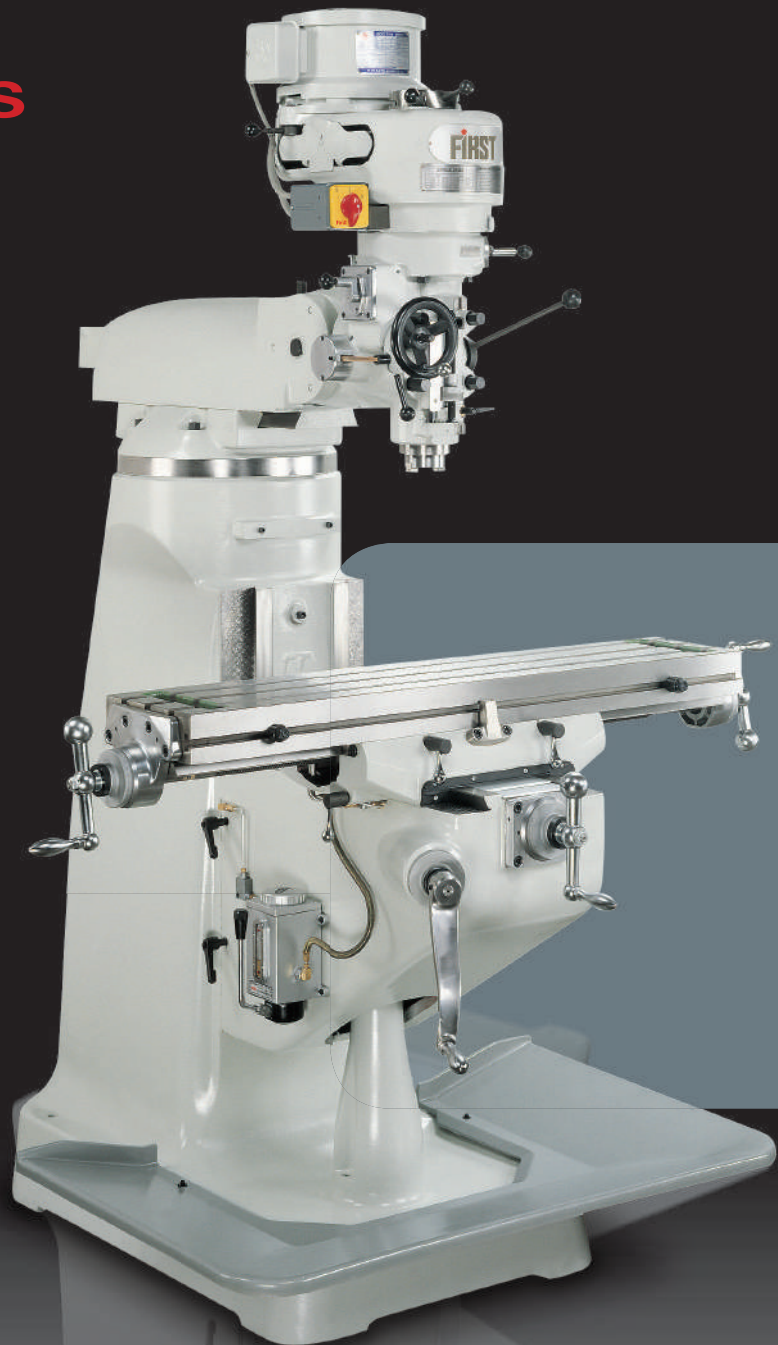
LC1-1/2 TM/VS

**VERTICAL MILLING
MACHINING**

LONG CHANG MACHINERY CO., LTD.

LC1-1/2 TM/VS

MEEHANITE CASTING STRUCTURE



► MILLING HEAD SPECIFICATION

Milling Head		VS	TM
Spindle Taper		R8 or NST 30	R8 or NST 30
Spindle Motor(3Ph)		2 HP	2 HP
Quill Diameter		85.7 mm	85.7 mm
Quill Travel		127 mm (5 ")	127 mm (5 ")
Vertical Feeds		0.04/0.08/0.16 mm	0.04/0.08/0.16 mm
Spindle Speed	50 HZ	50~3,750 rpm (Variable)	60~2,280 rpm (8 Steps)
	60 HZ	60~4,500 rpm (Variable)	80~2,760 rpm (8 Steps)
Inverter (Option)		O	X
Bigger spindle motor (Option)		3 HP	3 HP
Single phase motor (Option)		O	O
2 speed motor (Option)		X	O

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

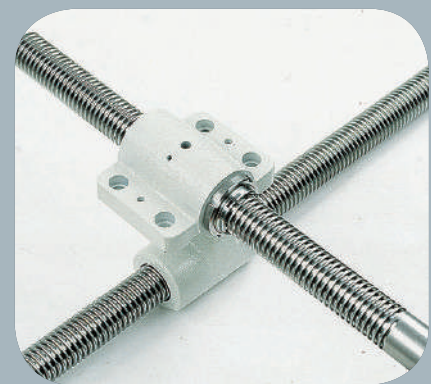
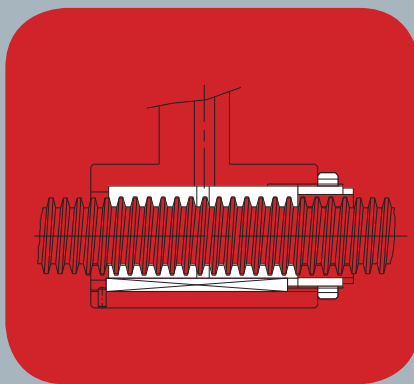
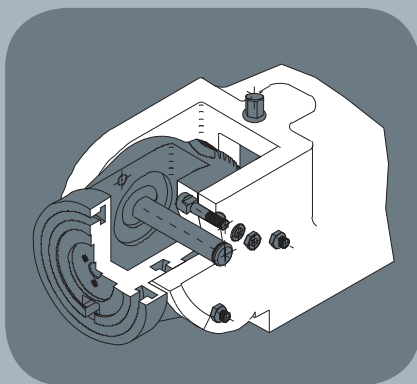
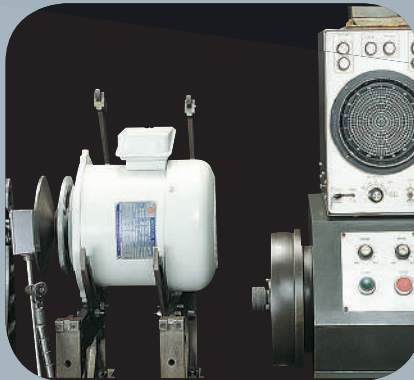
SPINDLE UNIT

- R8 and NST30 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 grounded.
- Inner taper runout keeps within 0.002mm.



MILLING HEAD GEAR AND QUILL

- Harden and ground spindle, quiet and smooth, free of noise and vibration.
- Use dynamically balanced pulleys and precision bearings.
- 2HP to 3HP 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.

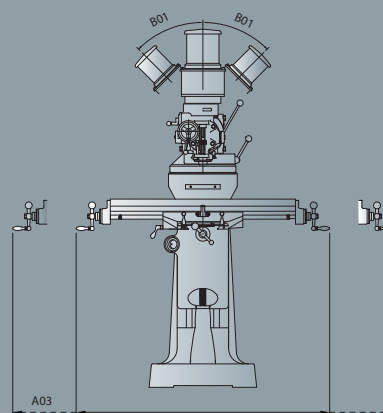
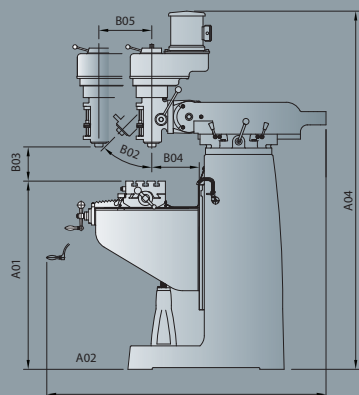


RIGID HEAD TILTING SYSTEM

The head knuckle is our design patent. This structure greatly increase the stability and rigidity, when vertical head tilted at all angles, front and back to perform complicated work. There are 6 T-bolts to lock the knuckle to the Ram instead of 3 bolts.

ADJUSTABLE BACKLASH NUT

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



Machine Type	LC-1 1/2 VS		LC-1 1/2 TM
Travel			
Longitudinal Travel	762mm(30") / Opt: 966mm (38")		
Cross travel	305 mm (12")		
Vertical travel	406 mm (16")		
Table			
Working surface	1,067 mm X 230 mm (42" X 9") / Opt: 1,270mm (50")		
Working surface to ground A01	820 ~ 1,226 mm (32.3 ~ 48.3")		
Max. load	200 Kg		
T-slots (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	1,600 ~ 1,905 mm (63 ~ 75")		
Width A03	1,467 mm (57.8")		
Height A04	2,100 mm (82.7")	2,000 mm (78.7")	
Weight	1,010 kgs (2,222 lbs)		
Coolant pump	O		
Vertical spindle			
Milling head	VS	TM	
Quill swivel (R&L/90°) B01	V	V	
Quill swivel (F&B) B02	+45° ~ -38°	± 45°	
Spindle nose to working surface B03	0 ~ 469 mm (0 ~ 18.5")		
Spindle centerline to column B04	171 ~ 476 mm (6.75" ~ 18.75")		
Overarm travel B05	305 mm (12")		
Overarm swivel	360°		

► ACCESSORIES

Machine Type	LC1-1/2VS	LC1-1/2TM
X and Y axis ballscrews (grade C5)	O	O
Power feed system	O	O
8 Speed gear box feed system	O	O
50" long table	O	O
Chromed bedways	O	O
Scales	O	O
Coolant system	O	O
Coolant tray	O	O
Automatic lubrication system	O	O
Halogen light with electric box	O	O
4"(100mm) or 7"(178mm) riser block	O	O
Air power drawbar (Vertical)	O	O
Tapping Unit	O	O

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

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

Edition / A02



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