



VERTICAL MILLING MACHINE

LCM-42 / LCM-50 / LCTM1 / LCTM2



<http://www.acramachinery.com>
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The coolant tray is option

LCM-42 / LCM-50

MEEHANITE CASTING STRUCTURE

AC HEAD



VS HEAD



LCTM1 / LCTM2

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

AC HEAD



VS HEAD



The coolant tray is option



SPINDLE UNIT

- R8 and NT40 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.
- Inner taper runout keeps within 0.002 mm.



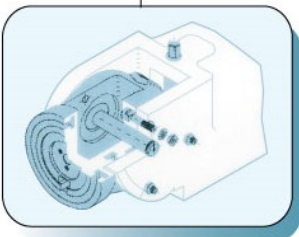
ADJUSTABLE BACKLASH NUT

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

- Harden and ground spindle, quiet and smooth, free of noise vibration.
- Use dynamically balanced pulleys and precision bearings.
- 3HP and 5HP 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.

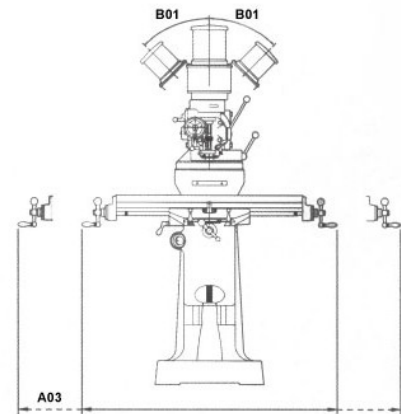
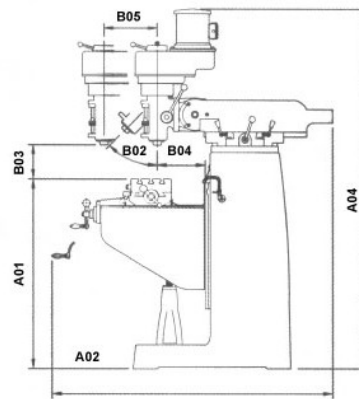


RIGID HEAD TILTING SYSTEM

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

LCM-42 / LCM-50

- A01 ▶ 32.3~48.3"(820~1226mm)
- A02 ▶ 63~75"(1600~1950mm)
- A03 ▶ 57.8"(1467mm)
- A04 ▶ 82.7(2100 mm) --- for LCM-42
78.8(2000 MM) --- for LCM-50
- B01 ▶ 90 deg
- B02 ▶ 45 deg
- B03 ▶ 0~18.5"(0~469mm)
- B04 ▶ 6.75~18.75"(171~476mm)
- B05 ▶ 12"(305mm)



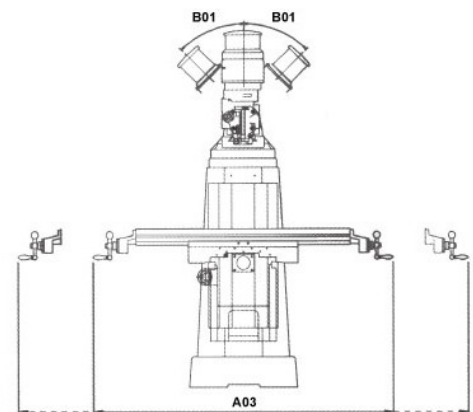
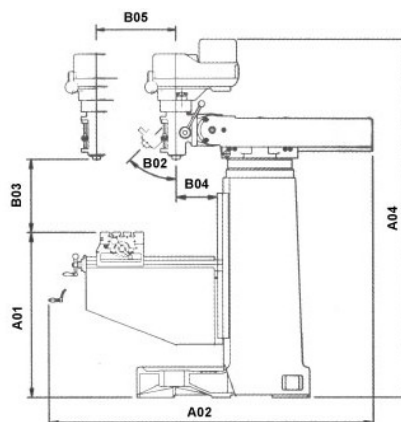
LCTM1 / LCTM2 >>

LCTM1

- A01 ▶ 37.4~52.8"(950~1340mm)
- A02 ▶ 64.2~79.5"(1630~2020mm)
- A03 ▶ 66.1"(1680mm)
- A04 ▶ 86.6"(2200mm)
- B01 ▶ 90 deg
- B02 ▶ 45 deg
- B03 ▶ 5.31~20.7"(135~525mm)
- B04 ▶ 9.6~28.1"(245~715mm)
- B05 ▶ 18.5"(470mm)

LCTM2

- A01 ▶ 37.4~52.8"(950~1340mm)
- A02 ▶ 69.3~87.8"(1760~2230mm)
- A03 ▶ 66.1"(1680mm)
- A04 ▶ 91.3"(2320mm)
- B01 ▶ 90 deg
- B02 ▶ 45 deg
- B03 ▶ 6.5~22.4"(165~570mm)
- B04 ▶ 4.9~23.4"(125~595mm)
- B05 ▶ 18.5"(470mm)



VERTICAL MILLING MACHINE

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SPECIFICATIONS

Machine Type	LCM-42	LCM-50	LCTM1	LCTM2
Table Working Surface	42" x 9" (1067 x 230 mm)	50" x 9" (1270 x 230 mm)	50" x 10" (1270 x 254 mm)	
X axis Travel	30" (762 mm)	38" (965 mm)	35" (889 mm)	39" (991 mm)
Y axis Travel	12" (305 mm)		16.3" (414 mm)	
Z axis Travel (quill)	5" (127 mm)		5" (127 mm)	
T- Slots	3 x 0.625" x 2.5" (3 x 15.875 mm x 63.5 mm)		3 x 0.625" x 2.5" (3 x 15.875 mm x 63.5 mm)	
Ram Travel	12" (305 mm)		18.5" (470 mm)	
Knee Travel	16" (406 mm)		15.3" (389 mm)	
Throat Distance	6.75" ~ 18.75" (171~476 mm)		9.6" ~ 28.1" (245 ~ 715 mm)	13" ~ 31.5" (330 ~ 800 mm)
Spindle Gaugeline to Table Top	0 ~ 18.5" (0~470 mm)		5.31 ~ 20.7" (135 ~ 525 mm)	6.5 ~ 22.4" (165 ~ 570 mm)
Vertical Speed (Variable Speed)	60 ~ 4500 rpm		60 ~ 4500 rpm	
Quill Feed	0.0016 / 0.0031 / 0.0063" (0.04 / 0.08 / 0.16 mm)		0.0016 / 0.0031 / 0.0063" (0.04 / 0.08 / 0.16 mm)	
Vertical Spindle Taper	R8		R8	NT40
Head Tilt (right - left)	90 deg		90 deg	
Head Tilt (up - down)	+45 ~ -38 deg		45 deg	
Vertical Motor	3 HP		3 HP	5 HP
Dimensions	75" x 57.8" x 82.7" (1905 x 1467 x 2100 mm)		79.5" x 66.1" x 86.6" (2020 x 1680 x 2200 mm)	82.7" x 66.1" x 91.3" (2100 x 1680 x 2320 mm)
Weight (approx.)	2222 lbs (1010 kgs)		2750 lbs (1250 kgs)	2860 lbs (1300 kgs)

ACCESSORIES

Machine Type	LCM-42	LCM-50	LCTM1	LCTM2
X and Yaxis ballscrews (grade C5)	O	O	O	O
Power feed system	O	O	O	O
Z-Axis motor	X	X	O	O
8 Speed gear box feed system	O	O	O	O
50" long table	O	O	X	X
Scales	O	O	O	O
Coolant system, Coolant tray	O	O	O	O
Automatic lubrication system	O	O	O	O
Halogen light with electric box	O	O	O	O
4" (100 mm) or 7" (178 mm) riser block	O	O	O	O
Air power drawbar (Vertical)	O	O	O	O
Tapping Unit	O	O	O	O
Dual cooling fans	V	V	V	V

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



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