

VERTICAL MILLING MACHINE LC-185VS-B

Milling Head

Variable speed head with R8 spindle taper and 3hp spindle motor.

This quiet and smooth running head uses dynamically balanced pulleys, precision bearings and selectively fitted quill and housing for smooth speed changing, free of noise and vibration.

Ram Structure

Gibbed and double-locked ram design ensures rigidity and limited clearance between ram and adapter.

Knee Locks

Double knee locks clamp the knee firmly and eliminates the lateral rocking motion.

Main Components

The major components are made from certified Meehanite GC casting with excellent vibration dampening properties and high resistance to wear. Column and base are cast as one piece.

Lubrication System

The simple and reliable one-shot lubrication is used to lubricate all slideways and leadscrews.



Machine shown with optional accessories

R8 Spindle Unit



Spindle is made from one piece of Ni-Cr alloy steel and supported by two precision angular contact and one ball bearing to ensure rigidity. The inner taper surface was induction hardened and precision ground to ensure durability. The spindle inner taper runout remains within 0.002mm.

Quill and Housing

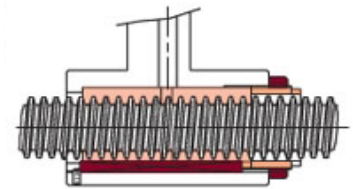


The best quality, endurance and low noise is ensured by using hardened and ground spindle back-gears running in a grease packed housing. A chrome coating and mirror ground finished quill to fit the individual housing offers extremely high accuracy and stability.

Leadscrew Unit



A unique double nut and backlash adjusting design with the contact face enlarged ensures long term accuracy and easy backlash adjustments.



Rigid Head Tilting System

The patented head knuckle design greatly increases the stability and rigidity. The vertical head can be tilted from side to side and front to back increasing the versatility of the machine to perform complicated work. There are 6 T-bolts to lock the knuckle to the ram instead of 3 bolts.

FIRST**LC-185VS-B**

TRAVEL		METRIC	IMPERIAL
X-Axis (longitudinal)		890 mm	35"
Y-Axis (cross)		425 mm	16.75"
Z-Axis (knee)		390 mm	15.3"
Guideway type X / Y / Z		dovetail / square / box	
Bedway type X / Y / Z		hardened & ground Turcite-B	
TABLE			
Work surface		1372 x 254 mm	54 x 10"
Work surface to ground	A01	950 - 1340mm	37.4 - 52.8"
T-slot number (width x pitch)		3 (15.87 x 63.5 mm)	3 (0.62 x 2.5")
Max table load		400 kg	882 lb
VERTICAL SPINDLE			
Taper		R8	R8
Spindle drive motor		3hp	3hp
Spindle speed (variable)		60 - 4500 rpm	60 - 4500 rpm
Quill travel		127 mm	5"
Quill diameter		85.7 mm	3.37"
Quill feeds		0.04, 0.08, 0.16 mm/rev	0.0015, 0.003, 0.006 "/rev
Head swivel R & L	B01	90°	
Head swivel F & B	B02	45°	
Overarm travel	B05	470 mm	18.5"
Overarm swivel		360°	
Spindle nose to table	B03	135 - 525 mm	5.31 - 20.7"
Spindle nose to column surface	B04	245 - 715 mm	9.6 - 28.1"
GENERAL			
Electrical rating		600V 4.2Amp 3Ph 60Hz	
Depth	A02	1630-2020mm	64.2-79.5"
Width	A03	1775-2670mm	70-105"
Height	A04	2286mm	90"
Weight		1250 kg	2755 lb

Overall machine dimensions are for **reference purposes only** and subject to change without notice.

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ACCESSORIES**STANDARD:**

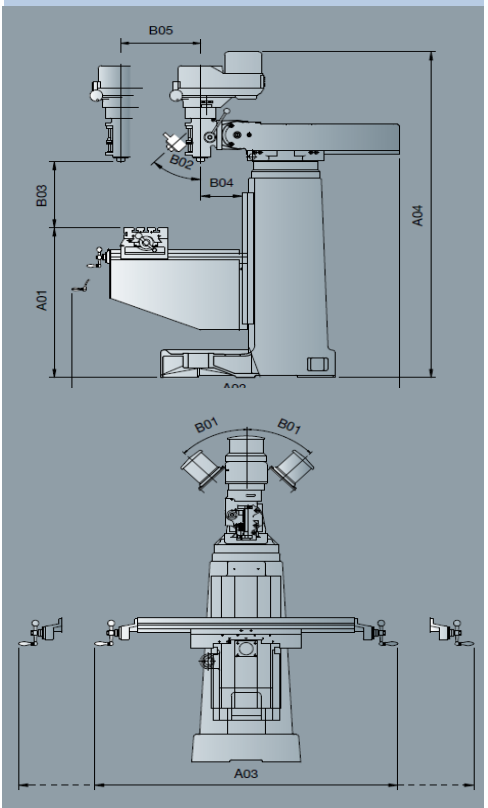
- Rubber chip covers F & R
- One shot lubrication system
- Z-Axis rapid feed

INCLUDED:

- 2-Axis digital readout installed
- R8 Collets 8pc set

OPTIONAL:

- 3rd-Axis digital readout installed
- Align X-Axis table feed installed
- Align air power drawbar installed
- Coolant system & splash tray
- LED Machine lamp 110V



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