

VERTICAL MILLING MACHINE LC-1 1/2VS

Milling Head

Variable speed head with R8 spindle taper and 2hp 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 limits clearance between ram and adapter.

Knee Locks

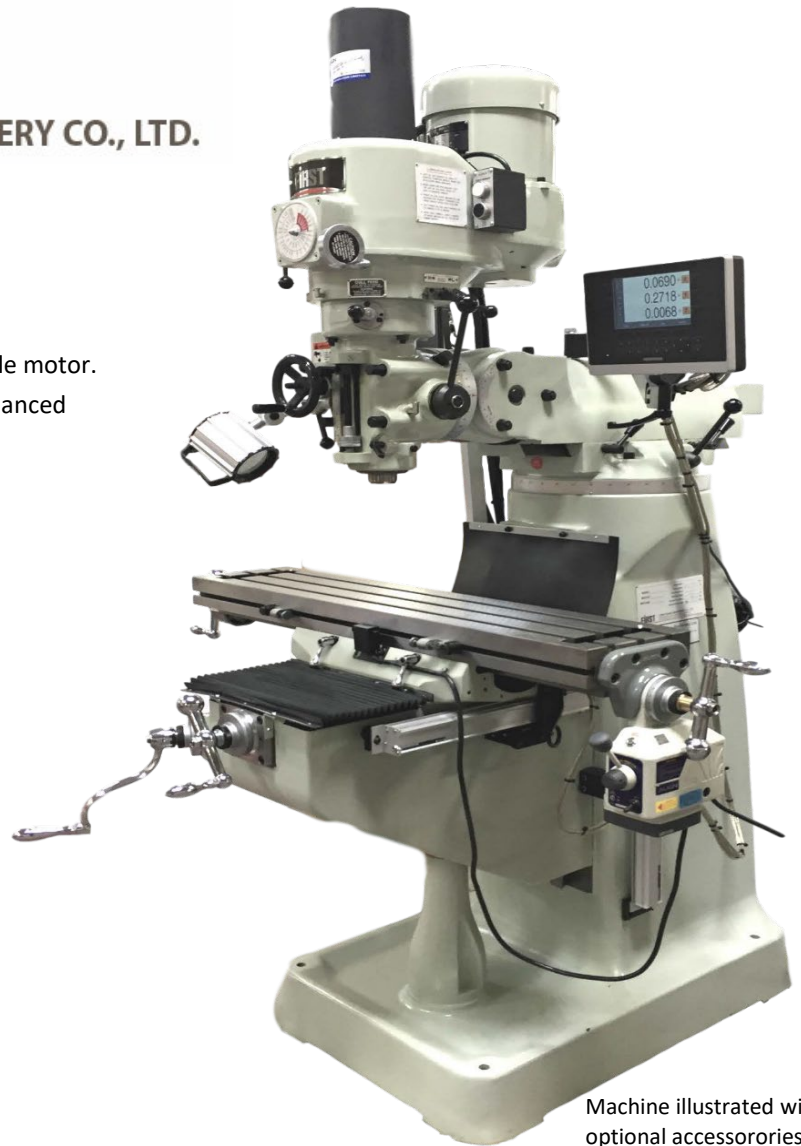
Double knee locks clamp the knee firmly and eliminates the lateral rocking motion.

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 illustrated 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

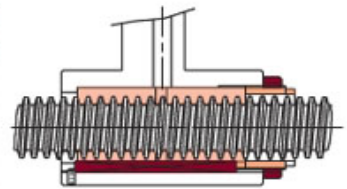


The best quality, endurance and low noise is ensured by using hardened and ground spindle back-gears running in a grease packed housing. A chrome coating and mirror ground finished quill to fit the individual housing offers extremely high accuracy and stability.

Leadscrew Unit



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



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-1 1/2VS	
TRAVEL		METRIC	IMPERIAL
X-Axis (longitudinal)		762 mm	30"
Y-Axis (cross)		305 mm	12"
Z-Axis (knee)		406 mm	16"
Guideway type X / Y / Z		dove-tail	
Bedway type X / Y		chromed	
TABLE			
Work surface		1067 x 230 mm	42 x 9"
Work surface to ground		A01 820 - 1226 mm	32.3 - 48.3"
T-slot number (width x pitch)		3 (15.87 x 63.5 mm)	3 (0.62 x 2.5")
Max table load		300 kg	661 lb
VERTICAL SPINDLE			
Taper		R8	
Spindle drive motor		2hp	
Spindle speed (variable)		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° ~ -38°
Overarm travel		B05 305 mm	12"
Overarm swivel		360°	
Spindle nose to table		B03 51 - 457 mm	2 - 18"
Spindle nose to column surface		B04 171 - 476 mm	6.75 - 18.75"
GENERAL			
Electrical rating		600V 2Amp 3Ph 60Hz	
Depth		A02 1600 - 1905 mm	63 - 75"
Width		A03 1485-2248 mm	58.5-88.5"
Height		A04 2100 mm	82.7"
Weight		1010 kg	2227 lb

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

ACCESSORIES

STANDARD:

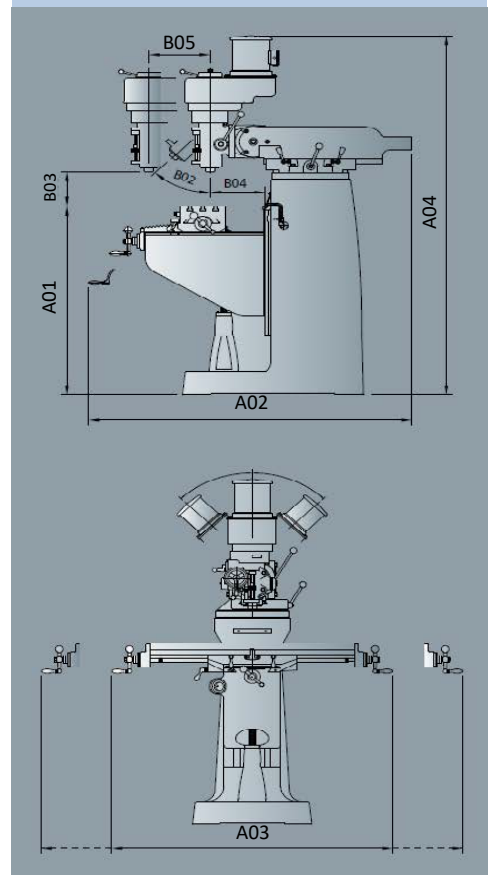
- Rubber chip covers F & R
- One shot lubrication system

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
- LED Machine lamp 110V
- Pendant control arm including electrical cabinet with low voltage control system



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