

HAFCO-METALMASTER HM-48B



Mill Drill - Geared & Tilting Head with Digital Readout System

Table Travel: (X) - 670mm (Y) - 205mm (Z) - 380mm



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Swivel Head-45 Degrees Left or Right



45 Degrees To Right



Mill Head Close Up



Front View



Left View



Digital Readout System



Spindle Speed Controls



Control Panel



Quill Depth Stop Gauge



Digital Readout on Quill Depth



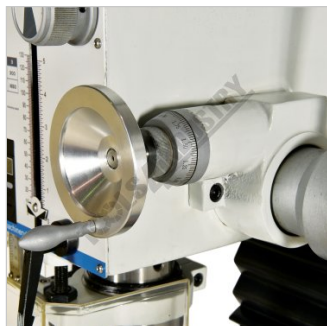
Motorized Z Axis



Power Feed Longitudinal X Axis



Quill Feed Handle



Fine Feed Handle



Mill Head Limiter Safety Switch



Milling Cutter

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Interlocked Spindle Safety Guard



Large Ground Work Table with T Slots



Table Limit Switches

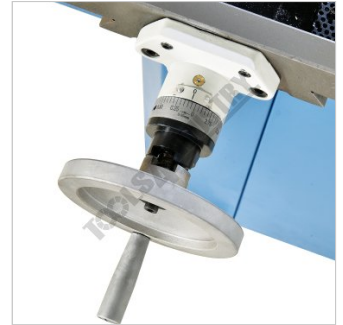


Table Feed Hand Wheel



Also Manual Handle Rack and Pinion Wind Up Head



Main Switch



2HP 240V Motor



Table Coolant Return

SPINDLE SPEEDS RPM			
	1	2	3
L	95	180	300
H	570	1000	1650

CAUTION
Ensure spindle has stopped before changing speed

Speed Chart

Description

This NEW HM-48B milling machines is somewhat like the HM-47B model, but with the additional benefit of a large 1000 x 240mm machine worktable with more travels, an X-Axis auto power feed unit mounted to left side of the table and a motorised Z-Axis for repositioning the mill head height up or down automatically via the switches on the control panel.

The HM-48B also has a tapping function switch to allow you to control the required depth when tapping holes, a coolant pump system with flexible hose & nozzle, a LED work light on a flexible arm to adjust the light beam as needed and a very sturdy fabricated stand with an access panel.

The HM-48B also has a 3-Axis digital readout system fitted for accurate table positioning in all 3 X, Y & Z Axis, 6-speeds 95-1650rpm, gear driven head which can be tilted up to 90° either side of the vertical. This feature allows the head to be positioned in a variety of positions, allowing a whole range of milling, slotting, grooving, drilling and boring operations to be carried out on different angles. The milling head is also mounted to a vertical dovetail slide system that allows the head to maintain on the exact same centre position when raising or lowering.

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The quill movement is also coupled to a digital depth counter mounted on the face of the machine for convenience and allows you to achieve accurate drilling or milling depths. Tilting the head can be also measured accurately via the digital head gauge mounted on the right side of the mill head.

Features

- 3-Axis digital readout system
 - Large 1000 x 240mm ground work table with T-slots
 - Powerful 2HP-240V gear driven head
 - 6 spindle speeds ranging from 95-1650rpm
 - 3MT spindle with 75mm diameter lockable quill
 - Drilling/Milling & Tapping Functions
 - Mill head tilts up to 90° left or 45° right
 - Motorised head for Z-Axis travel with dovetail slides
 - Longitudinal X-Axis power feed with adjustable micro switch feed stops
 - Adjustable leadscrew nuts eliminating backlash on both axis
 - Fine down feed handwheel operating quill feed with adjustable stop
 - Digital depth display with zero reset for quill (Includes LR44 battery)
 - Digital display bevel box to set head tilting (Includes AAA battery)
 - Forward and reverse on/off switch
 - Metric dial graduations @ 0.05mm for X & Y-Axis
 - Rear slide-way cover and slide clamps on all axis
 - Fixed control panel
 - Coolant system with flexible hose
 - Heavy duty fabricated stand with coolant & swarf tray
 - LED work light
- * Note: X & Y travels maybe reduced due to digital readout scales and safety stops

Includes

- 3-Axis digital readout system
- Heavy duty fabricated stand with coolant & swarf collection tray
- Coolant system
- X-Axis power feed unit
- Motorised Z-Axis head
- LED work light
- Digital depth display
- Digital tilting head gauge
- Drill chuck & arbor
- Drill sleeve - 3MT - 2MT
- Face cutter & arbor
- Interlocked spindle safety guard
- 1/2" x 12TPI drawbar
- M12 x 1.75mm drawbar

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Specifications

ORDER CODE	M141D
MODEL	HM-48B
Digital Readout	3-Axis Digital Readout
Type	Vertical
Table Size (mm)	1000 x 240
Column Type	Dovetail
Spindle Taper - Vertical	3MT
Spindle Taper - Horizontal	~
Longitudinal Travel (X-Axis) (mm)	670*
Cross Travel (Y-Axis) (mm)	205*
Vertical Travel (Z-Axis) (mm)	380
Type of Slides	Dovetail
Ram Travel (mm)	~
Spindle to Table (mm)	480
Spindle to Base	~
Spindle Travel / Diameter (mm)	120 / 75
Throat Depth (max.) (mm)	265
Tilting Head (Left ~ Right)	±90°
Tilting Head (Forward ~ Back)	Fixed
Drilling Capacity (mm)	31.5
End Milling Capacity (mm)	28
Face Milling Capacity (mm)	80
Power Feed - Quill (mm/rev)	~
Power Feed - Longitudinal (X-Axis) (mm/min)	Yes
Power Feed - Cross (Y-Axis) (mm/min)	~
Power Feed - Vertical (Z-Axis) (mm/min)	~
Table T-Slot Size (inch / mm)	14
Work Table Load Capacity (kg)	55
Spindle Speeds Vertical (No./ rpm)	6 (95 - 1650)
Spindle Speeds Horizontal (No./ rpm)	~
Spindle Speeds - Universal Head	~
Motor Power - Vertical Spindle (kW / hp)	1.5 / 2
Motor Power - Horizontal Spindle (kW / hp)	~
Motor Power - Universal Head	~
Voltage / Amperage (V / amp)	240 / 10
Nett Weight (kg)	450