



HAFCO-METALMASTER HM-46B

Mill Drill - Geared & Tilting Head - 415V

Table Travel: (X) - 485mm (Y) - 175mm (Z) - 430mm



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Front View



Left View



Right Side View



Left Side View



Tilt Head Left



Tilt Head Right



Shown with Optional Stand



3 Axis Digital Readout Counter
Fitted with 2 Axis X-Y Scales Only



Quill Feed Lever



Fine Quill Feed Handwheel



Head Controls



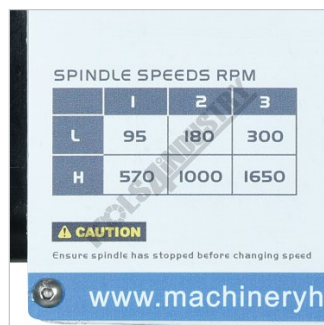
Forward Reverse ON OFF
and Emergency Switches



Quill Depth Stop Scale-
Spindle Lock



Spindle Speed Selectors



Spindle Speed Chart



Includes Face Mill Cutter

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Includes Drill Chuck



Rack And Pinion Wind Up Head



Ground Work Table with T Slots



Tilting Head Scale



Digital Tilting Head Gauge



Table Cross Feed Handle



Table Longitudinal Handle



Interlocked Spindle Safety Guard



Drawbar and Motor



Included Accessories

Description

This HM-46B 415V milling machines is similar in overall size to the popular HM-32 but with the additional benefit of a 3-Axis digital readout counter fitted with 2-Axis X & Y scales for accurate table positioning with ease, 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. In addition 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.

The usual handle-driven down feed is available for precision drilling and there is a fine manual down-feed control for precise vertical milling.

The motor is controlled by a separate forward and reverse on/off button switches.

There is a heavy duty steel stand available as an extra, strongly recommended bearing in mind the weight of the machine.

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Also available is an optional power feed attachment which fits to the left hand end of the table and provides a smooth, variable speed longitudinal drive.

Features

- 3-Axis digital readout counter fitted with 2-Axis X & Y scales only
- Gear driven head 6 speeds
- Dovetail vertical Z-axis
- Mill head tilts to $\pm 90^\circ$ from vertical with digital display
- Large 730 x 210mm ground work table with T-slots
- Adjustable leadscrew nuts eliminating backlash on both axis
- Fine feed hand wheel operating quill feed
- Forward and reverse on/off button switches
- Digital tilting head gauge
- 3MT spindle with 75mm diameter quill
- Adjustable table and drill length stops
- Rack and pinion wind-up head
- Rear slide-way cover and slide clamps on all axis
- Spindle lock for quill
- Table lock on both axis
- Metric dial graduations @ 0.05mm for X & Y axis
- * Note: X & Y travels maybe reduced due to digital readout scales and safety stops
- * Note: Digital readout requires 10amp 240V power

Includes

- 3-Axis digital readout counter fitted with 2-Axis X & Y scales only
- Digital tilting head gauge
- Drill chuck & arbor
- Face cutter & arbor
- Interlocked spindle safety guard
- 3-2MT sleeve
- M12 drawbar
- 1/2" x 12tpi Whitworth drawbar

Specifications

ORDER CODE	M139D
MODEL	HM-46B
Digital Readout	3-Axis Counter, X, Y Scales
Type	Vertical
Table Size (mm)	730 x 210
Column Type	Dovetail
Spindle Taper - Vertical	3MT
Spindle Taper - Horizontal	~
Longitudinal Travel (X-Axis) (mm)	485*
Cross Travel (Y-Axis) (mm)	175*
Vertical Travel (Z-Axis) (mm)	430
Type of Slides	Dovetail
Ram Travel (mm)	~

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Spindle to Table (mm)	485
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)	Optional
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)	415 /
Nett Weight (kg)	380