

HAFCO METALMASTER HM-46B

Mill Drill - Geared & Tilting Head

(X) 485mm (Y) 175mm (Z) 430mm



HAFCO METALMASTER HM-46B Mill Drill - Geared & Tilting Head



Left Side View



Quill Feed



Fine Feed Handwheel



Head Controls



Forward Reverse, ON OFF & Emergency Switches



Quill Depth Stop Scale & Spindle Lock



Spindle Speed Selectors



Spindle Speed Chart



Rack & Pinion Wind Up Head



Ground Work Table with T Slots



Tilting Head Scale



Digital Tilting Head Gauge



Table Longitudinal Dial



Table Cross Feed Dial



Includes Drill Chuck & Arbor



Includes Face Mill Cutter

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Swivel Safety Guard



Drawbar & Motor



Included Accessories

Description

The HM-46B milling machines is similar in overall size to the popular RF-31 or HM-32 but with the additional benefit of a 6-speed 95-1600rpm, 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.

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.

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

Features

- 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



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Includes

- Digital tilting head gauge
- Drill chuck & arbor
- Face cutter & arbor
- Safety cutter guard
- M12 draw bar
- 1/2" x 12tpi whitworth draw bar

Specifications

ORDER CODE	M138
MODEL	HM-46B
Digital Readout	~
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)	~
Spindle to Table (mm)	485
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 - 1600)
Spindle Speeds Horizontal (No./ rpm)	~
Motor Power - Vertical (kW / hp)	1.5 / 2
Motor Power - Horizontal (kW / hp)	~
Voltage / Amperage (V / amp)	240 / 10
Shipping Dimensions (L x W x H) (cm)	102 x 102 x 143
Nett Weight (kg)	380