

HAFCO-METALMASTER HM-46

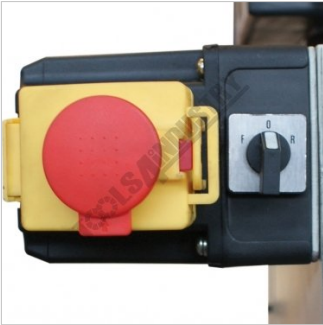


Mill Drill - Geared & Tilting Head

Table Travel: (X) - 475mm (Y) - 195mm (Z) - 450mm



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



Forward & Reverse On Off Switch



Fine Feed Handwheel Operating Quill Feed



Quill Depth Scale



Spindle Speed Selectors

SPINDLE SPEEDS (r/min)			
	I-L	I-M	I-H
50Hz	95	170	280
60Hz	120	210	340
	II-L	II-M	II-H
50Hz	540	960	1600
60Hz	670	1180	1970

Speed Chart



Spindle lock for quill



Face Mill Cutter



Rack & Pinion Wind Up Head



Large 730mm x 210mm ground work table with T Slots



Head Controls



Dovetailed Vertical Z Axis



Tilting head



Digital Tilting Head Gauge



Drawbar



Table Cross Feed Handle



Table Longitudinal Handle

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



Includes These Accessories



Tilt Head Front View



Head Shown in Vertical Position



Left View



Shown mounted to Optional Stand

Description

The HM-46 milling machines is similar in overall size to the popular RF-31 or HM-32 but with the additional benefit of a 6-speeds 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 standard forward and reverse on/off switch.

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

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.

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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 switch
- 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

Includes

- Drill chuck
- 3MT arbor
- 3MT-2MT drill sleeve
- Face cutter & arbor
- Safety cutter guard
- Digital tilting head gauge
- 1/2" x 12tpi whitworth drawbar

Specifications

ORDER CODE	M124
MODEL	HM-46
Digital Readout	Optional
Type	Vertical
Table Size (mm)	730 x 210
Column Type	Dovetail
Spindle Taper - Vertical	3MT
Spindle Taper - Horizontal	~
Longitudinal Travel (X-Axis) (mm)	475
Cross Travel (Y-Axis) (mm)	195
Vertical Travel (Z-Axis) (mm)	450
Type of Slides	Dovetail
Ram Travel (mm)	~
Spindle to Table (mm)	510
Spindle to Base	~
Spindle Travel / Diameter (mm)	120 / 75
Throat Depth (max.) (mm)	265
Tilting Head (Left ~ Right)	$\pm 90^\circ$
Tilting Head (Forward ~ Back)	Fixed
Drilling Capacity (mm)	31.5

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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)	~
Spindle Speeds - Universal Head	~
Motor Power - Vertical Spindle (kW / hp)	1.1 / 1.5
Motor Power - Horizontal Spindle (kW / hp)	~
Motor Power - Universal Head	~
Voltage / Amperage (V / amp)	415
Nett Weight (kg)	318