

HAFCO-METALMASTER HM-52



Workshop Turret Milling Machine - Horizontal - Vertical

Table Travel: (X) - 600mm (Y) - 200mm (Z) - 340mm



HAFCO-METALMASTER Workshop Turret Milling Machine - Horizontal - Vertical HM-52



Left View



3 Axis Digital Readout System



Head Front View



Head Right View



Head Left View



Safety Cutter Guard



Tilting Head Scale



Adjustable Swivel and Sliding Ram



Quill Feed Handle and Fine Feed Dial



Quill Handle



Quill Fine Adjust Handle



Control Panel



Quill Lock Handle

SPINDLE SPEED (R.P.M)	
SPINDLE	MOTOR
DE 220	DG 760
CE 320	AF 1300
DF 400	BG 1600
BE 500	AG 2400
CF 700	

Spindle Speed Chart



Horizontal Spindle

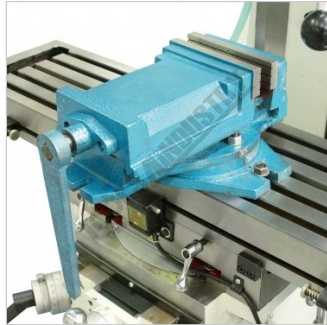
HORIZONTAL SPINDLE SPEED (R.P.M)	
1 AG 60	UPPER
2 BG 140	
3 CG 175	
4 AF 200	MIDDLE
5 AE 240	
6 BF 460	MOTOR
7 CE 690	
8 BD 1090	
9 CD 1350	

Horizontal Spindle Speed Chart

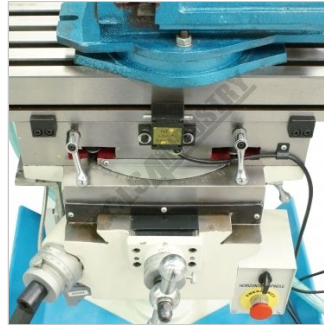
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Horizontal Spindle Switch



Machine Vice



Swivel Table and Feed Limit Switches



Y Axis Dial



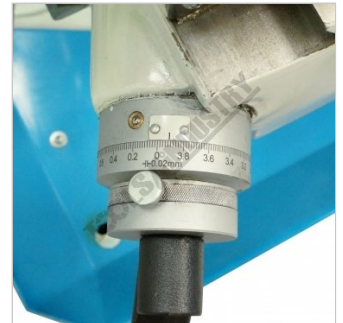
X Axis Power Feed with Rapid



X Axis Dial



Knee Feed Handle



Knee Feed Dial



Worklight and Coolant Hose



Concentina Slide Way Cover



Coolant System



Horizontal Spindle Support



Includes Horizontal Arbors



Accessories Included, 150mm Vice, Metric Collet Chuck, Drill Chuck and Arbor, Morse Taper Adaptors

HAFCO-METALMASTER Workshop Turret Milling Machine - Horizontal - Vertical HM-52**Description**

A well-built entry level turret milling vertical and horizontal, drilling machine with a powerful continuous-load 1.5kW / 2hp motor, intended for trade use. The work table is precision made with adjustable dovetail guides and is recognised for its 600mm X axis by 200mm Y axis travel. There is a three armed handle on the side for drilling also incorporating a fine feed control hand wheel on the front for milling. The screwed belt guard covers on each side of the head offer secure safety whilst providing easy access to the belts and pulleys for speed changing.

Other features include 3-Axis digital readout system, taper roller bearing support for the spindle, easy-to-read drilling depth stop, low voltage work light, 150mm machine vice, 8 piece metric collet chuck set, coolant system, X axis power feed unit, drill chuck, 1" & 1-1/4" horizontal arbors, 2 & 3 morse taper adaptors. The combination of generous sized vertical support and rugged cast iron construction throughout reduces vibration and guarantees accurate and chatter-free operation.

Extra Features:

Swivel table

1" & 1-1/4" horizontal arbors

Features

- 3 Axis digital readout system
 - Swivel table left & right with graduated scale
 - Mill head tilts to $\pm 90^\circ$ left to right
 - 500mm Horizontally sliding and rotating ram
 - NT30 Horizontal and vertical spindles that are hardened and ground
 - Precision-ground dovetail slide-ways and table
 - Precision milling table incorporating machined T-slots
 - Rear concertina slide-way cover
 - Forward and reverse on/off switch
 - Fine hand wheel operated quill feed
 - Swarf & splash tray
 - Spindle lock for quill
 - Metric dial graduations @ 0.02mm for X , Y & Z-Axis
 - Vertical dial graduations on hand wheel @ 0.05mm
 - All slides utilise dovetail construction for maximum rigidity
 - Includes 1" & 1-1/4" arbors for the horizontal spindle
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- * Note: X & Y travels maybe reduced due to digital readout scales and safety stops
 - * Note: Optional Y & Z power feeds require additional parts & fitting (not included)

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Includes

- 3 Axis digital readout system
- X-Axis power feed
- Safety cutter guard
- Swarf tray
- Coolant system
- Halogen lamp
- 150mm machine vice
- Drill chuck & arbor
- 2 & 3MT adaptors
- 8-piece metric collet chuck set (4-16mm)

Specifications

ORDER CODE	M161D
MODEL	HM-52
Digital Readout	3-Axis Digital Readout
Type	Vertical & Horizontal
Table Size (mm)	1000 x 240
Column Type	~
Spindle Taper - Vertical	NT30
Spindle Taper - Horizontal	NT30
Longitudinal Travel (X-Axis) (mm)	600*
Cross Travel (Y-Axis) (mm)	200*
Vertical Travel (Z-Axis) (mm)	340
Type of Slides	Dovetail
Ram Travel (mm)	500
Spindle to Table (mm)	375
Spindle to Base	~
Spindle Travel / Diameter (mm)	125 / 90
Throat Depth (max.) (mm)	640
Tilting Head (Left ~ Right)	±90°
Tilting Head (Forward ~ Back)	Fixed
Drilling Capacity (mm)	30
End Milling Capacity (mm)	25
Face Milling Capacity (mm)	80
Power Feed - Quill (mm/rev)	Manual
Power Feed - Longitudinal (X-Axis) (mm/min)	20 - 2000
Power Feed - Cross (Y-Axis) (mm/min)	Optional *
Power Feed - Vertical (Z-Axis) (mm/min)	Optional *
Table T-Slot Size (inch / mm)	14
Work Table Load Capacity (kg)	175
Spindle Speeds Vertical (No./ rpm)	9 (220 - 2400)
Spindle Speeds Horizontal (No./ rpm)	9 (60 - 1350)
Spindle Speeds - Universal Head	~
Motor Power - Vertical Spindle (kW / hp)	1.5 / 2
Motor Power - Horizontal Spindle (kW / hp)	1.5 / 2

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Motor Power - Universal Head	~
Voltage / Amperage (V / amp)	240 / 10
Nett Weight (kg)	1050