

Product Brochure For M160

Workshop Turret Milling Machine - HM-50

Table Travel: (X) - 600mm (Y) - 220mm (Z) - 340mm



ORDER CODE:	M160
MODEL:	HM-50
Digital Readout:	Optional
Type:	Vertical
Table Size (mm):	1000 x 240
Column Type:	~
Spindle Taper - Vertical:	NT30
Spindle Taper - Horizontal:	~
Longitudinal Travel (X-Axis) (mm):	600*
Cross Travel (Y-Axis) (mm):	220*
Vertical Travel (Z-Axis) (mm):	340
Type of Slides:	Dovetail
Ram Travel (mm):	340
Spindle to Table (mm):	430
Spindle to Base:	~
Spindle Travel / Diameter (mm):	125 / 90
Throat Depth (max.) (mm):	600
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):	~
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):	850

Description

A well-built entry level turret milling / 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 taper roller bearing support for the spindle, easy-to-read drilling depth stop, low voltage work light, 8 piece metric collet chuck set, coolant system, X axis power feed unit, drill chuck, 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.

Features

- Mill head tilts to ±90° left to right
- 340mm horizontally sliding and rotating ram
- NT30 vertical spindle is 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

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- 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
- * Note: X & Y travels maybe reduced due to safety stops
- * Note: Optional Y & Z power feeds require additional parts & fitting (not included)

Includes

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

Specific Features



X Axis Power Feed with Rapid

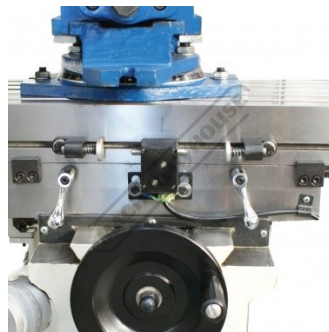


Table Feed Limit Switches



Quill Feed Handle and Fine Feed Dial

HM-50 VERTICAL MILLING MACHINE	
DRILLING	30mm
MILLING	25mm
MOTOR	1.5kW
SERIAL NO	
DATE	
KEN 009 717 668	
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



Tilting Head Scale



Adjustable Swivel & Sliding Ram



Concertina Slide Way Cover



Coolant Pump



Halogen Light



Knee Feed Handle



Control Panel



Coolant Hose

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Accessories Included, Metric Collet Chuck, Drill Chuck & Arbor, Morse Taper Adaptors

Recommended Accessories

L300
 Magnetic Swarf Remover



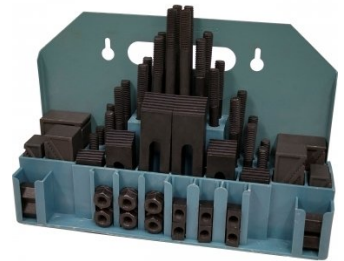
M9991
 Magnetic Floor Sweeper



V106
 Vertex K-Type Milling Vice



C0965
 Clamp Kit 58 piece - Workshop Series



M540
 Face Mill Arbor



M530
 Universal Milling Kit - 4 Piece



M3301
 Metric HSS Slot Drill & End Mill Set - 10 Piece

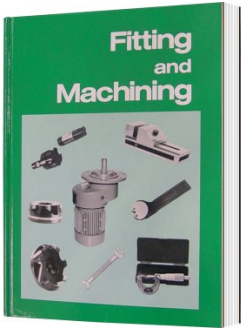


M3321
 Imperial HSS Slot Drill & End Mill Set - 10 Piece

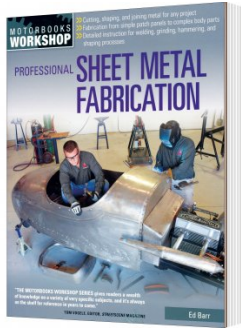


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L341
 Fitting and Machining Technical Book



L3455
 Professional Sheet Metal Fabrication Book



R004
 Vertex Super Indexing Head



R006
 Vertex Rotary Table



M242
 Angle Plate - Precision Ground



M243
 Angle Plate - Precision Ground



M182
 Precision Boring Head Kit



M183
 Precision Boring Head Kit



M184
 Precision Boring Head



M193
 Boring Head Shank



M197
 Boring Head Shank



M250
 Parallel Set - 8 Piece



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M252
 Parallel Set - 18 Piece



M180
 Boring Bar Set - 9 piece



M181
 Boring Bar Set - 12 piece



V010
 Alloy Steel Vee Block



V003
 Cast Iron Vee Block



V004
 Cast Iron Vee Block



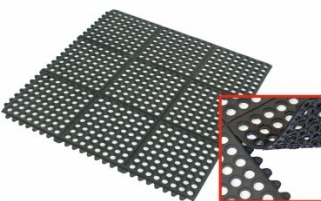
V006
 Cast Iron Vee Block



M800
 Rubber Mat - Anti-Fatigue



M805
 Rubber Mat - Anti-Fatigue



S090A
 Soluble Metal Cutting Fluid - 1 Litre



S090
 Soluble Metal Cutting Fluid - 5 Litre



S076
 Cutting Tool Lubricant Fluid - 500ml



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S077

Drilling, Tapping & Cutting Tool
 Lubricant Spray - 400g



S075

Cutting Tool Lubricant Paste -
 200g



S074

Cutting Tool Lubricant Paste -
 500g



O000

SpillFix Universal Organic
 Absorbent



O043

Rust & Corrosion Preventive



O042

General Purpose Lubricant &
 Corrosion Inhibitor



O040

Rust & Corrosion Preventive



O044

Rust & Corrosion Preventive

