

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

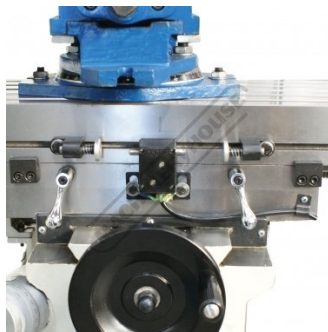


Table Feed Limit Switches



Quill Feed Handle and Fine Feed Dial



HM-50 VERTICAL MILLING MACHINE			
DRILLING	30mm		
MILLING	25mm		
MOTOR	1.5kW		
SERIAL NO			
DATE			
ACN 009 717 668			
SPINDLE SPEED (R.P.M)		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



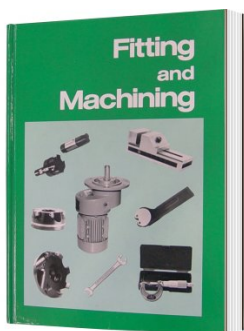
M3321
Imperial HSS Slot Drill & End Mill Set - 10 Piece



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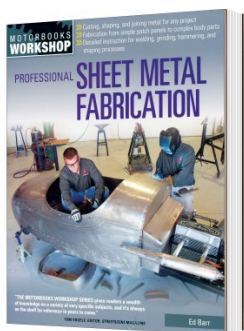
L341

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



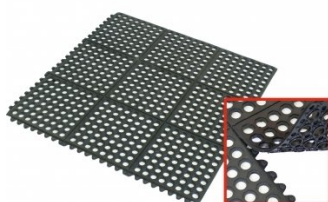
M800

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

