

Product Brochure For M138D

Mill Drill - Geared & Tilting Head - 240V - HM-46B

Table Travel: (X) - 485mm (Y) - 175mm (Z) - 430mm

Includes Digital Readout System & Dovetail Column

Ex GST
\$2,990.00

Inc GST
\$3,289.00



ORDER CODE:	M138D
MODEL:	HM-46B
Digital Readout:	3-Axis Counter, X, Y Scales
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 to Base:	~
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 - 1650)
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):	380



Description

This HM-46B 240V milling machines is similar in overall size to the popular HM-32 but with the additional benefit of a 3-Axis digital readout counter fitted with 2-Axis X & Y scales for accurate table positioning with ease, 6-speeds 95-1650rpm, gear driven head which can be tilted out 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 on different angles. In addition the milling head is also mounted to a vertical dovetail slide system that allows the head to maintain on the exact same centre position when raising or lowering.

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

Features

— 3-Axis digital readout counter fitted with 2-Axis X & Y scales only

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- 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
- * Note: X & Y travels maybe reduced due to digital readout scales and safety stops

Includes

- 3-Axis digital readout counter fitted with 2-Axis X & Y scales only
- Digital tilting head gauge
- Drill chuck & arbor
- Face cutter & arbor
- Interlocked spindle safety guard
- 3-2MT sleeve
- M12 drawbar
- 1/2" x 12tpi Whitworth drawbar

Optional Accessories

- Z-Axis scale 470mm travel - (Q8527)

Specific Features



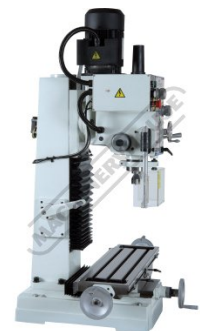
Front View



Left View



Right Side View



Left Side View



Tilt Head Left



Tilt Head Right



Shown with Optional Stand



3 Axis Digital Readout Counter Fitted with 2 Axis X-Y Scales Only

Product Brochure For M138D



Quill Feed Lever



Fine Quill Feed Handwheel



Head Controls



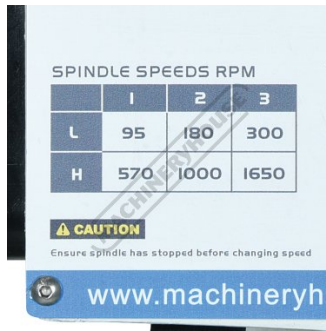
Forward Reverse ON OFF and Emergency Switches



Quill Depth Stop Scale-Spindle Lock



Spindle Speed Selectors



Spindle Speed Chart



Includes Face Mill Cutter



Includes Drill Chuck



Rack And Pinion Wind Up Head



Ground Work Table with T Slots



Tilting Head Scale



Digital Tilting Head Gauge



Table Cross Feed Handle



Table Longitudinal Handle



Interlocked Spindle Safety Guard

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Drawbar and Motor



Included Accessories

Recommended Accessories

M001

Steel Machine Mount & Rubber Insert



M135

Mill Drill Stand



M230

Power Feed Unit



M240

Transformer



Q8527

470mm Digital Readout Scale



K150

Mill-Drill Accessory Package Deal - Imperial Cutters



K151

Mill-Drill Accessory Package Deal - Metric Cutters



C0965

Clamp Kit 58 piece - Workshop Series



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C922B
 Collet & Chuck Set - 8 Piece



C926
 Collet & Chuck Set - 20 Piece



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



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



M3280
 13mm HSS End Mill Long Series



M182
 Precision Boring Head Kit



M192
 Boring Head Shank



M180
 Boring Bar Set - 9 piece



M250
 Parallel Set - 8 Piece



M530
 Universal Milling Kit - 4 Piece



M562
 Face Mill Arbor



M515
 Face Mill 45° - Super High-Rake



Product Brochure For M138D

L065
 KYOCERA Carbide Inserts -
 Milling



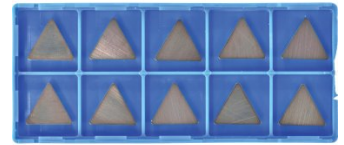
M528
 Face Mill 90° - Positive Rake



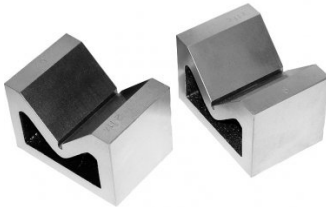
M529
 Face Mill 90° - Positive Rake



L066
 KYOCERA Carbide Inserts -
 Milling



V004
 Cast Iron Vee Block



V105
 Vertex K-Type Milling Vice



R006
 Vertex Rotary Table



P235
 Coolant Pump & Tank



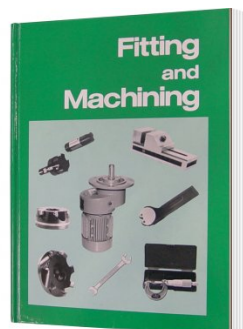
S090A
 Soluble Metal Cutting Fluid - 1
 Litre



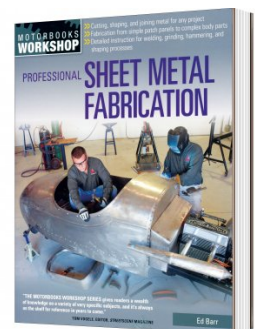
S090
 Soluble Metal Cutting Fluid - 5
 Litre



L341
 Fitting and Machining Technical
 Book

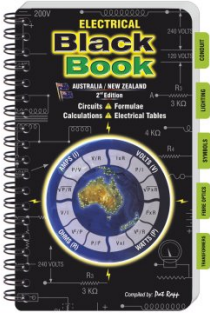


L3455
 Professional Sheet Metal
 Fabrication Book



Product Brochure For M138D

L342
 Electrical Black Book



L300
 Magnetic Swarf Remover



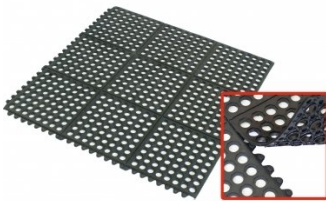
M9991
 Magnetic Floor Sweeper



M800
 Rubber Mat - Anti-Fatigue



M805
 Rubber Mat - Anti-Fatigue



O000
 SpillFix Universal Organic Absorbent



O043
 Rust & Corrosion Preventive



O042
 General Purpose Lubricant & Corrosion Inhibitor



O040
 Rust & Corrosion Preventive



O044
 Rust & Corrosion Preventive

