

## Product Brochure For M139D

### Mill Drill - Geared & Tilting Head - 415V - HM-46B

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

Includes Digital Readout System & Dovetail Column

**On Sale**

<b>Ex GST</b>	<b>Inc GST</b>
<b>\$4,088.00</b>	<b>\$4,701.20</b>
<b>\$3,500.00</b>	<b>\$4,025.00</b>



ORDER CODE:	M139D
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):	415 /
Nett Weight (kg):	380

#### Description

This HM-46B 415V 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 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 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

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longitudinal drive.

### Features

- 3-Axis digital readout counter fitted with 2-Axis X & Y scales only
  - 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
  - LED work light
- \* Note: X & Y travels maybe reduced due to digital readout scales and safety stops  
• \* Note: Digital readout requires 10amp 240V power

### 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
- LED work light

### Optional Accessories

- Z-Axis scale 470mm travel - (D5220)

### Specific Features



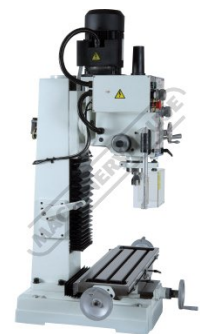
Front View



Left View



Right Side View



Left Side View

Product Brochure For M139D



Tilt Head Left



Tilt Head Right



Shown with Optional Stand



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



Quill Feed Lever



Fine Quill Feed Handwheel



Head Controls



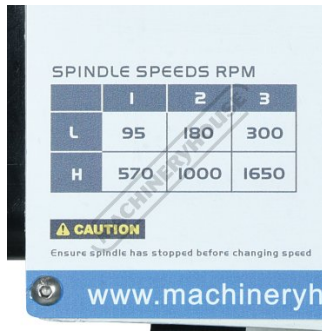
Forward Reverse ON OFF and Emergency Switches



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

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Digital Tilting Head Gauge



Table Cross Feed Handle



Table Longitudinal Handle



Interlocked Spindle Safety Guard



Drawbar and Motor



Included Accessories

**Recommended Accessories**

M135  
Mill Drill Stand



M230  
Power Feed Unit



M240  
Transformer



K150  
Mill-Drill Accessory Package Deal - Imperial Cutters

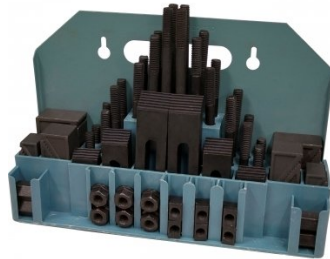


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**K151**  
Mill-Drill Accessory Package Deal - Metric Cutters



**C0965**  
Clamp Kit 58 piece - Workshop Series



**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



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M562  
Face Mill Arbor



M515  
Face Mill 45° - Super High-Rake



L065  
KYOCERA Carbide Inserts - Milling



M528  
Face Mill 90° - Positive Rake



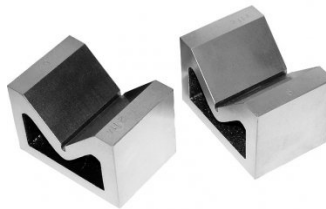
M529  
Face Mill 90° - Positive Rake



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

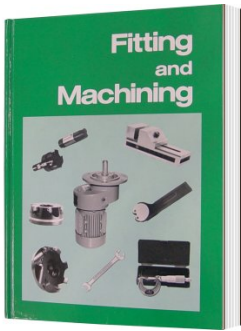


S090  
Soluble Metal Cutting Fluid - 5 Litre

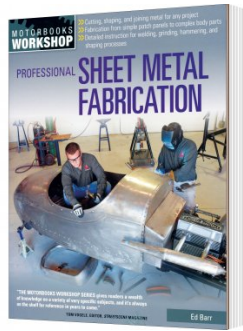


Product Brochure For M139D

L341  
Fitting and Machining Technical Book



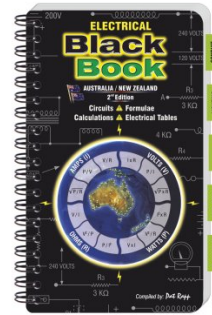
L3455  
Professional Sheet Metal Fabrication Book



L345  
Handy Workshop Tips & Techniques - 1st Edition



L342  
Electrical Black Book



L300  
Magnetic Swarf Remover



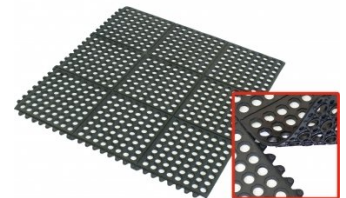
M9991  
Magnetic Floor Sweeper



M800  
Rubber Mat - Anti-Fatigue



M805  
Rubber Mat - Anti-Fatigue



O043  
Rust & Corrosion Preventive



O042  
General Purpose Lubricant & Corrosion Inhibitor



O044  
Rust & Corrosion Preventive

