

## Product Brochure For M140D

# Mill Drill - Geared & Tilting Head with Digital Readout System - HM-47B

Table Travel: (X) - 540mm (Y) - 205mm (Z) - 385mm

Includes Digital Readout System, Dovetail Column & Stand

**Ex GST**  
**\$4,868.00**

**Inc GST**  
**\$5,598.20**



ORDER CODE:	M140D
MODEL:	HM-47B
Digital Readout:	3-Axis Counter, X, Y Scales
Type:	Vertical
Table Size (mm):	800 x 240
Column Type:	Dovetail
Spindle Taper - Vertical:	3MT
Spindle Taper - Horizontal:	~
Longitudinal Travel (X-Axis) (mm):	540*
Cross Travel (Y-Axis) (mm):	205*
Vertical Travel (Z-Axis) (mm):	385
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):	430

## Description

This NEW HM-47B milling machines is somewhat like the HM-46B model, but with the additional benefit of a larger machine worktable with more travels, a tapping function switch to allow you to control the required depth when tapping holes, a coolant pump system with flexible hose & nozzle, a LED work light on a flexible arm to adjust the light beam as needed and a very sturdy fabricated stand with an access panel.

The HM-47B also has 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. 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 quill movement is also coupled to a digital depth counter mounted on the face of the machine for convenience and allows you to achieve accurate drilling or milling depths. Tilting the head can be also measured accurately via the digital head gauge mounted on the right side of the mill head.

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.

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### Features

- 3-Axis digital readout counter fitted with 2-Axis X & Y scales only
  - Large 800 x 240mm ground work table with T-slots
  - Powerful 2HP-240V gear driven head
  - 6 spindle speeds ranging from 95-1650rpm
  - 3MT spindle with 75mm diameter lockable quill
  - Drilling/Milling & Tapping Functions
  - Mill head tilts to  $\pm 90^\circ$  from vertical with digital display
  - Dovetail vertical Z-Axis with rack and pinion wind-up head
  - Adjustable leadscrew nuts eliminating backlash on both axis
  - Adjustable table stops with table locks
  - Fine down feed handwheel operating quill feed with adjustable stop
  - Digital depth display with zero reset for quill (Includes LR44 battery)
  - Digital display bevel box to set head tilting (Includes AAA battery)
  - Forward and reverse on/off switch
  - Metric dial graduations @ 0.05mm for X & Y-Axis
  - Rear slide-way cover and slide clamps on all axis
  - Fixed control panel
  - Coolant system with flexible hose
  - Heavy duty fabricated stand with coolant & swarf tray
  - LED work light
- \* 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
- Heavy duty fabricated stand with coolant & swarf collection tray
- Coolant system
- LED work light
- Digital depth display
- Digital tilting head gauge
- Drill chuck & arbor
- Drill sleeve – 3MT – 2MT
- Face cutter & arbor
- Interlocked spindle safety guard
- 1/2" x 12TPI drawbar
- M12 x 1.75mm drawbar

### Optional Accessories

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

### Specific Features



Swivel Head-45 Degrees Left or Right



45 Degrees To Right



Mill Head Close Up



Front View

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Left View



Digital Readout System



Spindle Speed Controls



Control Panel



Quill Depth Stop Gauge



Digital Readout on Quill Depth



Quill Feed Handle



Fine Quill Feed Hand Wheel



Tilting Head Scale



Milling Cutter



Interlocked Spindle Safety Guard



Large Ground Work Table with T Slots



Table Limit Switches



Table Feed Hand Wheel



Rack and Pinion Wind Up Head



2HP 240V Motor

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Main Switch

SPINDLE SPEEDS RPM

	1	2	3
L	95	180	300
H	570	1000	1650

**CAUTION**  
Ensure spindle has stopped before changing speed

Speed Chart

**Recommended Accessories**

C0965

Clamp Kit 58 piece - Workshop Series



K150

Mill-Drill Accessory Package Deal - Imperial Cutters



K151

Mill-Drill Accessory Package Deal - Metric Cutters



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



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**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



**L065**  
KYOCERA Carbide Inserts - Milling



**M528**  
Face Mill 90° - Positive Rake



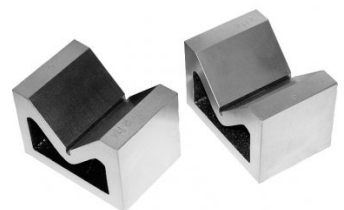
**M529**  
Face Mill 90° - Positive Rake



**L066**  
KYOCERA Carbide Inserts - Milling



**V004**  
Cast Iron Vee Block



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V105  
Vertex K-Type Milling Vice



R006  
Vertex Rotary Table



M230  
Power Feed Unit



M240  
Transformer



P235  
Coolant Pump & Tank



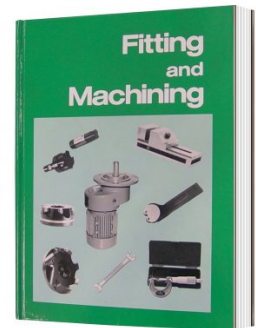
S090A  
Soluble Metal Cutting Fluid - 1 Litre



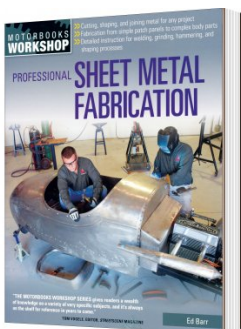
S090  
Soluble Metal Cutting Fluid - 5 Litre



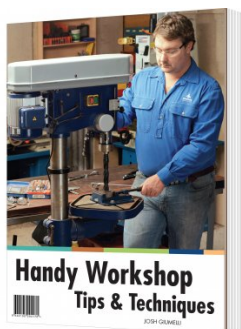
L341  
Fitting and Machining Technical Book



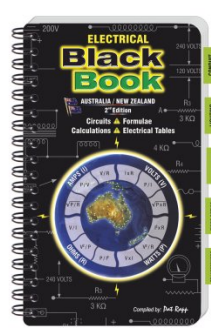
L3455  
Professional Sheet Metal Fabrication Book



L345  
Handy Workshop Tips & Techniques - 1st Edition



L342  
Electrical Black Book



L300  
Magnetic Swarf Remover



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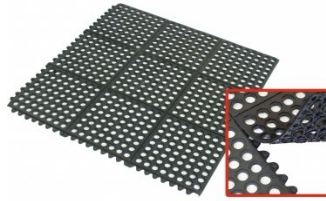
M9991  
Magnetic Floor Sweeper



M800  
Rubber Mat - Anti-Fatigue



M805  
Rubber Mat - Anti-Fatigue



O043  
Rust & Corrosion Preventive



O042  
General Purpose Lubricant &  
Corrosion Inhibitor



O044  
Rust & Corrosion Preventive

