

## Product Brochure For M141D

### Mill Drill - Geared & Tilting Head with Digital Readout System - HM-48B

Table Travel: (X) - 670mm (Y) - 205mm (Z) - 380mm

Includes Digital Readout System, Dovetail Column, Power Feed & Stand



**Ex GST**  
**\$5,290.00**

**Inc GST**  
**\$5,819.00**

|                                              |                        |
|----------------------------------------------|------------------------|
| ORDER CODE:                                  | M141D                  |
| MODEL:                                       | HM-48B                 |
| Digital Readout:                             | 3-Axis Digital Readout |
| Type:                                        | Vertical               |
| Table Size (mm):                             | 1000 x 240             |
| Column Type:                                 | Dovetail               |
| Spindle Taper - Vertical:                    | 3MT                    |
| Spindle Taper - Horizontal:                  | ~                      |
| Longitudinal Travel (X-Axis) (mm):           | 670*                   |
| Cross Travel (Y-Axis) (mm):                  | 205*                   |
| Vertical Travel (Z-Axis) (mm):               | 380                    |
| Type of Slides:                              | Dovetail               |
| Ram Travel (mm):                             | ~                      |
| Spindle to Table (mm):                       | 480                    |
| 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): | Yes                    |
| 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):                            | 450                    |

#### Description

This NEW HM-48B milling machines is somewhat like the HM-47B model, but with the additional benefit of a large 1000 x 240mm machine worktable with more travels, an X-Axis auto power feed unit mounted to left side of the table and a motorised Z-Axis for repositioning the mill head height up or down automatically via the switches on the control panel.

The HM-48B also has 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-48B also has a 3-Axis digital readout system fitted for accurate table positioning in all 3 X, Y & Z Axis, 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.

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### Features

- 3-Axis digital readout system
  - Large 1000 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 up to 90° left or 45° right
  - Motorised head for Z-Axis travel with dovetail slides
  - Longitudinal X-Axis power feed with adjustable micro switch feed stops
  - Adjustable leadscrew nuts eliminating backlash on both axis
  - 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 system
- Heavy duty fabricated stand with coolant & swarf collection tray
- Coolant system
- X-Axis power feed unit
- Motorised Z-Axis head
- 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

### Specific Features



Swivel Head-45 Degrees Left or Right



45 Degrees To Right



Mill Head Close Up



Front View

Product Brochure For M141D



Left View



Digital Readout System



Spindle Speed Controls



Control Panel



Quill Depth Stop Gauge



Digital Readout on Quill Depth



Motorized Z Axis



Power Feed Longitudinal X Axis



Quill Feed Handle



Fine Feed Handle



Mill Head Limiter Safety Switch



Milling Cutter



Interlocked Spindle Safety Guard



Large Ground Work Table with T Slots



Table Limit Switches



Table Feed Hand Wheel

## Product Brochure For M141D



Also Manual Handle Rack and Pinion Wind Up Head



Main Switch



2HP 240V Motor



Table Coolant Return

| 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

### M0015

Steel Machine Mount & Rubber Insert



### C0965

Clamp Kit 58 piece - Workshop Series



### K150

Mill-Drill Accessory Package Deal - Imperial Cutters



### K151

Mill-Drill Accessory Package Deal - Metric Cutters



## Product Brochure For M141D

### 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 M141D

L065

KYOCERA Carbide Inserts -  
Milling



M528

Face Mill 90° - Positive Rake



M529

Face Mill 90° - Positive Rake



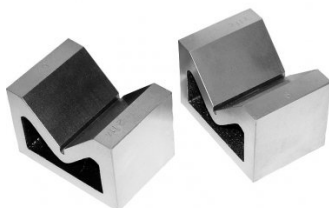
L066

KYOCERA Carbide Inserts -  
Milling



V004

Cast Iron Vee Block



V105

Vertex K-Type Milling Vice



R006

Vertex Rotary Table



M230

Power Feed Unit



M240

Transformer



P235

Coolant Pump & Tank



S090A

Soluble Metal Cutting Fluid - 1  
Litre



S090

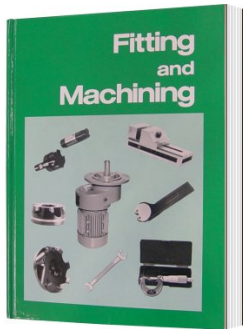
Soluble Metal Cutting Fluid - 5  
Litre



Product Brochure For M141D

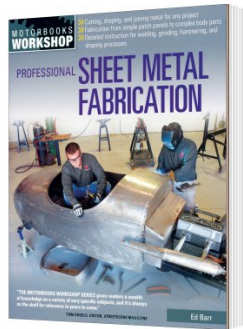
L341

Fitting and Machining Technical Book



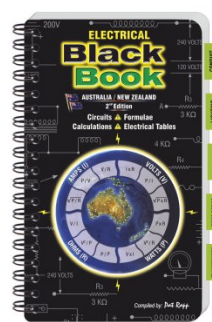
L3455

Professional Sheet Metal Fabrication Book



L342

Electrical Black Book



L300

Magnetic Swarf Remover



M9991

Magnetic Floor Sweeper



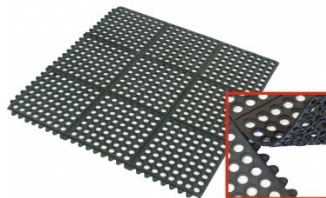
M800

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

