

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 **Inc GST**
\$6,454.00 **\$7,422.10**



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

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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

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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



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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



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L065
KYOCERA Carbide Inserts -
Milling



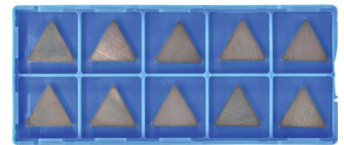
M528
Face Mill 90° - Positive Rake



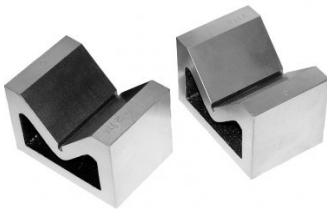
M529
Face Mill 90° - Positive Rake



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

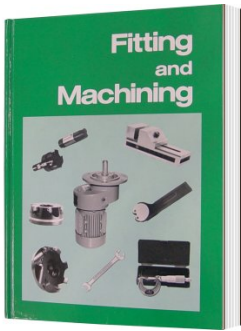


S090
Soluble Metal Cutting Fluid - 5
Litre

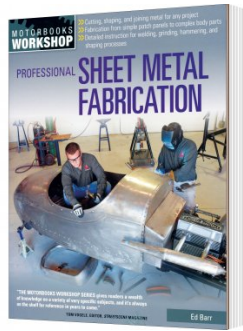


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L341
Fitting and Machining Technical Book



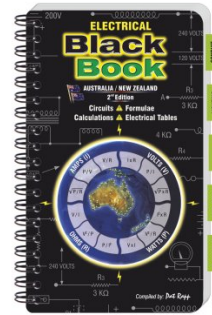
L3455
Professional Sheet Metal Fabrication Book



L345
Handy Workshop Tips & Techniques - 1st Edition



L342
Electrical Black Book



L300
Magnetic Swarf Remover



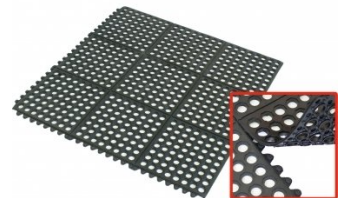
M9991
Magnetic Floor Sweeper



M800
Rubber Mat - Anti-Fatigue



M805
Rubber Mat - Anti-Fatigue



O043
Rust & Corrosion Preventive



O042
General Purpose Lubricant & Corrosion Inhibitor



O044
Rust & Corrosion Preventive

