

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

On Sale

Ex GST	Inc GST
\$5,290.00	\$5,819.00
\$4,950.00	\$5,445.00



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.

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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.

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 may be 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



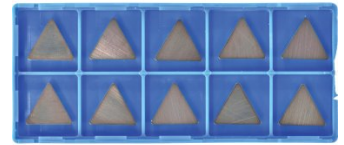
M528
 Face Mill 90° - Positive Rake



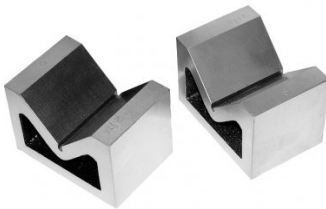
M529
 Face Mill 90° - Positive Rake



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

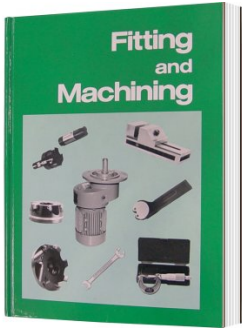


S090
 Soluble Metal Cutting Fluid - 5
 Litre

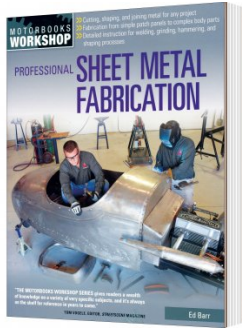


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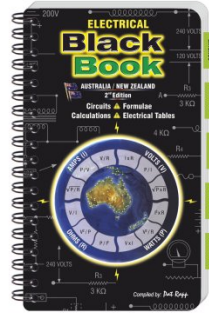
L341
 Fitting and Machining Technical Book



L3455
 Professional Sheet Metal Fabrication Book



L342
 Electrical Black Book



L300
 Magnetic Swarf Remover



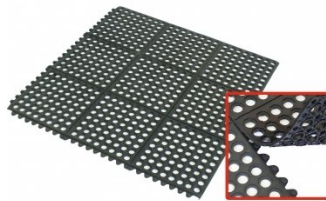
M9991
 Magnetic Floor Sweeper



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

