

Product Brochure For K8742

## HM-48 Mill Drill Machine - Includes Tooling Package - QLD Schools / TAFE

(X) 540mm (Y) 185mm (Z) 410mm  
 QLD Contract Item No. 16.2



ORDER CODE:	K8742
NSW DOE Item No.:	~
QLD DOE Item No.:	16.2
MODEL:	Schools / TAFE HM-48
Digital Readout:	Optional
Drilling Capacity (mm):	31.5
End Milling Capacity (mm):	28
Face Milling Capacity (mm):	76
Spindle Taper:	3MT
Quill Travel / Diameter (mm):	120 / 75
Spindle to Table (mm):	~
Type of Slides:	Dovetail
Spindle to Column (mm):	273
Table Size (mm):	820 x 240
T-Slot (mm):	14
Longitudinal Travel (X-Axis) (mm):	540
Cross Travel (Y-Axis) (mm):	185
Vertical Travel (Z-Axis) (mm):	410
Work Table Load Capacity (kg):	60
Swivel Head (Left - Right):	±90°
Quill Feed Rate/Rev (mm/rev):	Manual
Spindle Speeds (Vertical) (No. / rpm):	6 (95-1600rpm)
Spindle Speeds (Horizontal) (No. / rpm):	~
Motor Power (Vertical) (kW / hp):	1.5 / 2
Motor Power (Horizontal) (kW / hp):	~
Motor Voltage (V / amp):	240
Nett Weight (kg):	430



### Description

We for many years have been working in close consultation with the education departments to ensure the most suitable equipment is provided to our schools and TAFE, not only does it comply with the departments stringent safety requirements but is built to last the distance. That's why we consider our company to be a specialist when it comes to supplying quality Wood Work and Metal Working Machinery for Public or Private Schools, TAFE Colleges and Trade Training Centres in all states of Australia.

The HM-48 milling machines is similar in overall size to the popular RF-31 or HM-32 but with the additional benefit of a 6-speed 95-1600rpm, 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.

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 standard forward and reverse on/off switch.

### Features

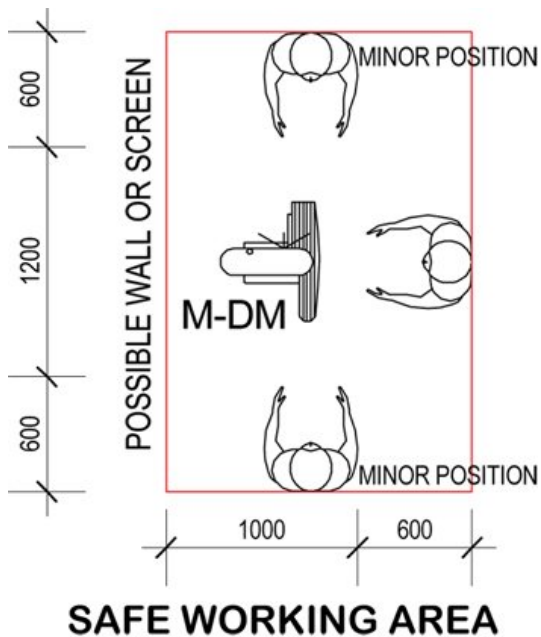
- Gear driven head with 6 speeds
  - Dovetail vertical Z-Axis
  - Pendant control with swivel arm
  - Tilting head to ±90° from vertical with digital display
  - Large 820 x 240mm ground work table with T-slots
  - Adjustable leadscrew nuts eliminating backlash on both axis
  - Fine feed hand wheel operating quill feed
  - Digital depth display with zero reset for quill
  - Digital tilting head gauge
  - Longitudinal X-Axis power feed
  - Motorised head for Z-Axis travel
  - Forward and reverse on/off switch
  - 3MT spindle with 75mm diameter lockable quill
  - Adjustable table and drill length stops
  - Metric dial graduations @ 0.05mm for X & Y-Axis
  - Rear slide-way cover and slide clamps on all axis
  - Table lock on both axis
- Heavy duty cast iron stand with coolant tray

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- Includes coolant system, swarf tray & work light

### Includes

- Cast iron stand
- Coolant system
- X-Axis power feed unit
- Motorised vertical head motor
- Digital tilting head gauge
- Halogen light
- Safety cutter guard
- 125mm Machine Vice (V105)
- 75mm Face Mill Cutter (M512)
- MT3 x 27mm Face Mill Arbor (M563)
- Pkt of 10 Milling Inserts (L066)
- MT3 x 6 Piece Collet Chuck Set (C922B)
- 6-20mm Metric End Mill & Slot Drill Set (M330)
- 10mm T Slot Cutter (M3280)
- 12mm T Slot Cutter (M3281)
- 14mm Clamp Kit (C096)
- 16mm Keyless Drill Chuck (C294)
- MT3 Drill Chuck Arbor (D443A)
- 100mm- BS-0 Dividing Head (D001)
- 125mm 3 Jaw Lathe Chuck (C202)



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Specific Features



Left View



Tilting Head



Control Panel



Digital Tilting Head Gauge



Milling Head and Quill Handle



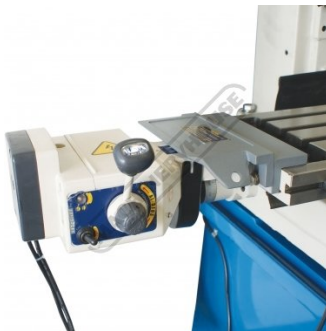
Digital Quill Depth Stop



Spindle Speed Controls

SPINDLE SPEEDS (r/min)			
	I-L	I-M	I-H
50Hz	95	170	280
	II-L	II-M	II-H
50Hz	540	960	1600

Speed Chart



Power Feed X Axis



Vertical Power Feed Motor



Manual Vertical Fine Feed Handle



Table Limit Switch



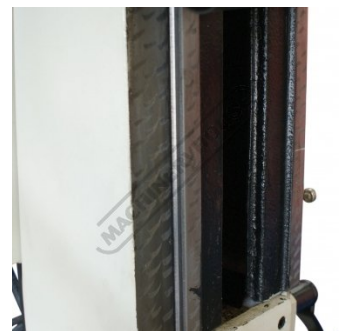
Motorised Head Safety Lock



Aluminum Motor



Swivel Head Adjustment



Dovetail Slide

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Quill Depth Stop Gauge



Height Micro Limit Switch



Dial Graduations



Keyed Drill Chuck



Halogen Light



Flexible Coolant Hose



On Off Switch



Drawbar

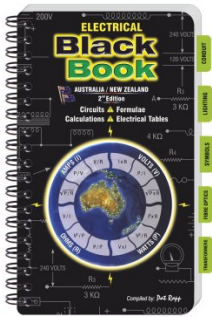


Includes these Accessories

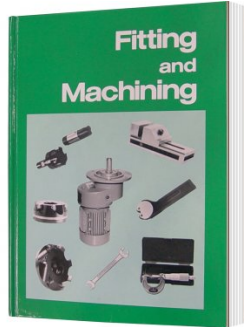
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**Recommended Accessories**

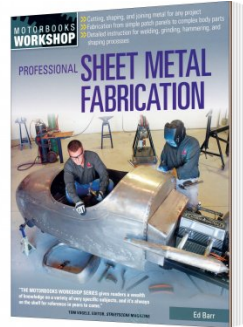
**L342**  
 Electrical Black Book



**L341**  
 Fitting and Machining Technical Book



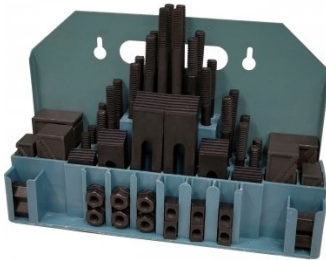
**L3455**  
 Professional Sheet Metal Fabrication Book



**C926**  
 Collet & Chuck Set - 20 Piece



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



**C922B**  
 Collet & Chuck Set - 8 Piece



**M333**  
 Metric HSS Slot Drill & End Mill Set - 12 Piece



**M335**  
 Imperial HSS Slot Drill & End Mill Set - 12 Piece



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**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



**L065**  
 KYOCERA Carbide Inserts - Milling



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



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

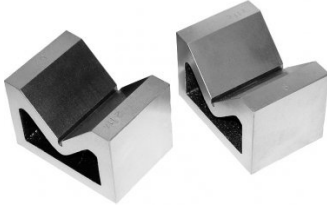


**L066**  
 KYOCERA Carbide Inserts - Milling



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V004  
 Cast Iron Vee Block



V105  
 Vertex K-Type Milling Vice



R006  
 Vertex Rotary Table



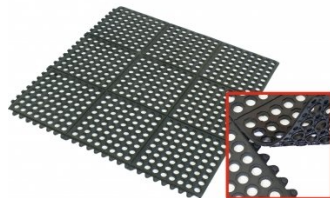
P235  
 Coolant Pump & Tank



M800  
 Rubber Mat - Anti-Fatigue



M805  
 Rubber Mat - Anti-Fatigue



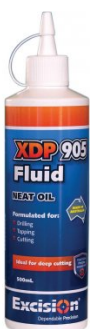
S090A  
 Soluble Metal Cutting Fluid - 1  
 Litre



S090  
 Soluble Metal Cutting Fluid - 5  
 Litre



S076  
 Cutting Tool Lubricant Fluid -  
 500ml



S077  
 Drilling, Tapping & Cutting Tool  
 Lubricant Spray - 400g



S075  
 Cutting Tool Lubricant Paste -  
 200g



S074  
 Cutting Tool Lubricant Paste -  
 500g



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O000

SpillFix Universal Organic Absorbent



O043

Rust & Corrosion Preventive



O042

General Purpose Lubricant & Corrosion Inhibitor



O040

Rust & Corrosion Preventive



O044

Rust & Corrosion Preventive

