

Product Brochure For K8740

HM-46 Mill Drill Machine - Includes Tooling Package - QLD Schools / TAFE

(X) 475mm (Y) 195mm (Z) 450mm

QLD Contract Item No. 16.1



ORDER CODE:	K8740
NSW DOE Item No.:	~
QLD DOE Item No.:	16.1
MODEL:	Schools / TAFE HM-46
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):	510
Type of Slides:	Dovetail
Spindle to Column (mm):	265
Table Size (mm):	730 x 210
T-Slot (mm):	14
Longitudinal Travel (X-Axis) (mm):	475
Cross Travel (Y-Axis) (mm):	210
Vertical Travel (Z-Axis) (mm):	450
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):	1.1 / 1.46
Motor Power (Horizontal) (kW / hp):	~
Motor Voltage (V / amp):	415
Nett Weight (kg):	350

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-46 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.

Also available is a optional power feed attachment which fits to the left hand end of the table and provides a smooth, variable speed longitudinal drive.

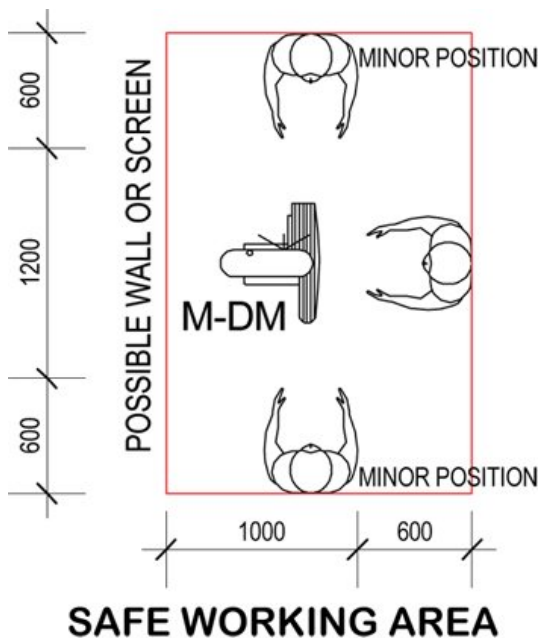
Features

- Gear driven head 6 speeds
- Dovetail vertical Z-axis
- Tilting head to ±90° from vertical
- Large 730mm x 210mm ground work table with T-slots
- Adjustable leadscrew nuts eliminating backlash on both axis
- Fine feed handwheel operating quill feed
- Forward and reverse on/off switch
- 3MT spindle with 75mm diameter quill
- Adjustable table and drill length stops
- Rack and pinion wind-up head
- Rear slide-way cover and slide clamps on all axis
- Spindle lock for quill
- Table lock on both Axis
- Metric dial graduations @ 0.05mm for X & Y axis

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Includes

- Machine stand
- 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



Forward and Reverse On Off Switch



Spindle Speed Selectors



Spindle lock for quill



Quill Depth Scale



Fine Feed Handwheel Operating Quill Feed

SPINDLE SPEEDS (r/min)

	I-L	I-M	I-H
50Hz	95	170	280
60Hz	120	210	340
	II-L	II-M	II-H
50Hz	540	960	1600
60Hz	670	1180	1970

Speed Chart



Face Mill Cutter



Rack and Pinion Wind Up Head



Large 730mm x 210mm ground work table with T Slots



Drawbar



Tilting head



Head Controls



Dovetailed Vertical Z Axis



Table Cross Feed Handle



Table Longitudinal Handle



Includes These Accessories

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Tilt Head Front View



Head Shown in Vertical Position



Left View



Shown mounted to Optional Stand

Recommended Accessories

M230

Power Feed Unit

M240

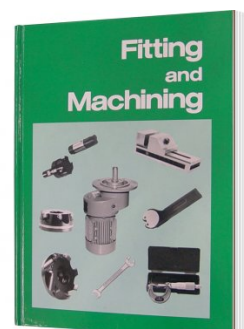
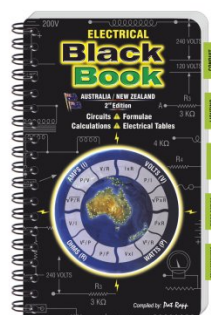
Transformer

L342

Electrical Black Book

L341

Fitting and Machining Technical Book



L3455

Professional Sheet Metal Fabrication Book

C926

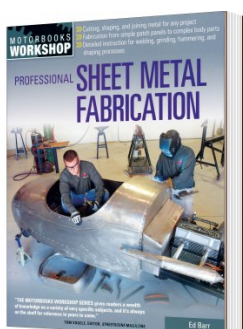
Collet & Chuck Set - 20 Piece

C0965

Clamp Kit 58 piece - Workshop Series

C922B

Collet & Chuck Set - 8 Piece



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M333

Metric HSS Slot Drill & End Mill Set - 12 Piece



M335

Imperial HSS Slot Drill & End Mill Set - 12 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



L065

KYOCERA Carbide Inserts - Milling



M528

Face Mill 90° - Positive Rake



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M529

Face Mill 90° - Positive Rake



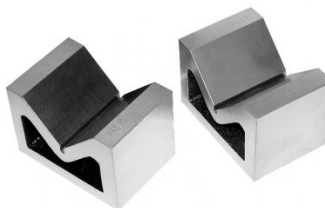
L066

KYOCERA Carbide Inserts -
Milling



V004

Cast Iron Vee Block



V105

Vertex K-Type Milling Vice



R006

Vertex Rotary Table



P235

Coolant Pump & Tank



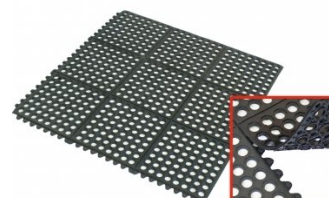
M800

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



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S075

Cutting Tool Lubricant Paste -
200g



S074

Cutting Tool Lubricant Paste -
500g



O000

SpillFix Universal Organic
Absorbent



O043

Rust & Corrosion Preventive



O042

General Purpose Lubricant &
Corrosion Inhibitor



O040

Rust & Corrosion Preventive



O044

Rust & Corrosion Preventive

