

## Product Brochure For M652

### Mill Drill - Geared & Tilting Head - MH-28V

Table Travel: (X) - 430mm (Y) - 220mm (Z) - 355mm

Electronic Variable Speeds & Dovetail Column



OPTIMUM



On Sale

Ex GST

Inc GST

**\$3,356.00**

**\$3,859.40**

**\$2,980.00**

**\$3,427.00**

ORDER CODE:	M652
MODEL:	HM-28V
Digital Readout:	Optional
Type:	Vertical
Table Size (mm):	730 x 210
Column Type:	Dovetail
Spindle Taper - Vertical:	3MT
Spindle Taper - Horizontal:	~
Longitudinal Travel (X-Axis) (mm):	430
Cross Travel (Y-Axis) (mm):	220
Vertical Travel (Z-Axis) (mm):	355
Type of Slides:	Dovetail
Ram Travel (mm):	~
Spindle to Table (mm):	465
Spindle to Base:	~
Spindle Travel / Diameter (mm):	70 / ~
Throat Depth (max.) (mm):	210
Tilting Head (Left ~ Right):	±90°
Tilting Head (Forward ~ Back):	Fixed
Drilling Capacity (mm):	20
End Milling Capacity (mm):	28
Face Milling Capacity (mm):	70
Power Feed - Quill (mm/rev):	~
Power Feed - Longitudinal (X-Axis) (mm/min):	~
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):	Variable (100 - 2500)
Spindle Speeds Horizontal (No./ rpm):	~
Spindle Speeds - Universal Head:	~
Motor Power - Vertical Spindle (kW / hp):	1.1 / 1.5
Motor Power - Horizontal Spindle (kW / hp):	~
Motor Power - Universal Head:	~
Voltage / Amperage (V / amp):	240 / 10
Nett Weight (kg):	240

### Description

Excellent quality mill drill machine designed for the model engineer

### Features

- Electronic infinitely variable speed
- 3MT spindle taper
- Dovetail vertical Z-Axis
- Digital readout speed display
- Digital depth display with zero reset for quill
- Tilting head to ± 90° from vertical
- 2 speed gearbox (high / low) drive

**Product Brochure For M652**

- Forward and reverse spindle switch
- Adjustable dovetail slideways on all 3 axis
- 730 x 210mm cast iron table with T-slots
- Adjustable table and drill length stops
- Rear slideway covers and slide clamps on all axis
- Metric dial graduations on X & Y-Axis

**Includes**

- 3MT x JT6 drill chuck arbor
- Safety cutter guard
- Bracket kit for optional digital readout
- 1/2" x 12tpi whitworth drawbar

**Specific Features**



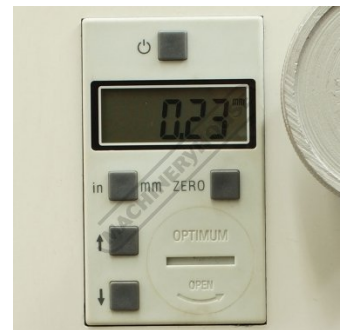
Front View



Left View



Variable Spindle Speed with DRO



Digital Readout for Quill Depth



Tilting Head Scale



Head Close Up - Right View



Front Head View



Shown On Optional Stand with Head Tilted



Shown On Optional Stand M653



Shown On Optional Stand Left View



Fine Feed Quill Dial

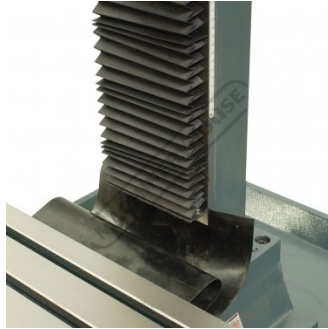


Z-Axis Adjustment Handwheel

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Z-Axis Scale



Concertina Slideway Cover



High & Low Gear Head



Longitudinal Handwheel



Cross Feed Handwheel



Table Limit Stops



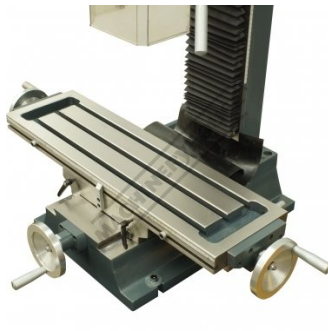
Safety Cutter Guard



Drawbar



3MT Spindle Taper



Table



Includes Drill Chuck Arbour & Tools



DRO Bracket Kit

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Recommended Accessories

M653  
Mill Drill Stand



M0015  
Steel Machine Mount & Rubber Insert



D695  
3-Axis Optimum Digital Readout Counter - 1µm



D694  
1500mm Optimum Magnetic Digital Readout Scale



D697  
Optimum Magnetic Digital Readout Reader Head



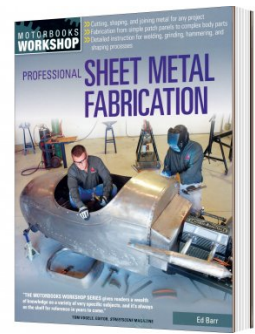
T773  
Industrial Mobile Tooling Cabinet Workstation



L345  
Handy Workshop Tips & Techniques - 1st Edition



L3455  
Professional Sheet Metal Fabrication Book



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**K150**  
Mill-Drill Accessory Package Deal - Imperial Cutters



**K151**  
Mill-Drill Accessory Package Deal - Metric Cutters



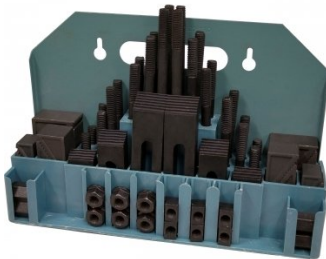
**C922B**  
Collet & Chuck Set - 8 Piece



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



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



**V105**  
Vertex K-Type Milling Vice



**M3301**  
Metric HSS Slot Drill & End Mill Set - 10 Piece



**M3321**  
Imperial HSS Slot Drill & End Mill Set - 10 Piece



**M3281**  
14mm HSS End Mill Long Series



**M182**  
Precision Boring Head Kit



**M192**  
Boring Head Shank



**M180**  
Boring Bar Set - 9 piece



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**M250**  
Parallel Set - 8 Piece



**M530**  
Universal Milling Kit - 4 Piece



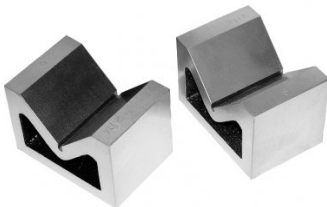
**M528**  
Face Mill 90° - Positive Rake



**L066**  
KYOCERA Carbide Inserts - Milling



**V004**  
Cast Iron Vee Block



**R001**  
Rotary Table



**R0014**  
Tilting Rotary Table



**P235**  
Coolant Pump & Tank



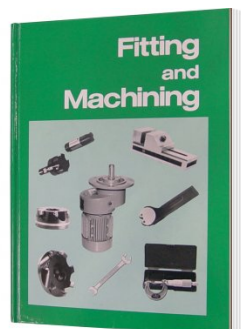
**S090A**  
Soluble Metal Cutting Fluid - 1 Litre



**S090**  
Soluble Metal Cutting Fluid - 5 Litre



**L341**  
Fitting and Machining Technical Book



**L300**  
Magnetic Swarf Remover



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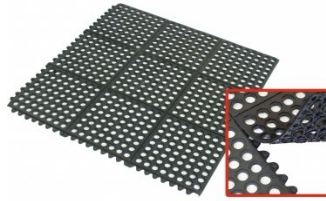
M9991  
Magnetic Floor Sweeper



M800  
Rubber Mat - Anti-Fatigue



M805  
Rubber Mat - Anti-Fatigue



O043  
Rust & Corrosion Preventive



O042  
General Purpose Lubricant &  
Corrosion Inhibitor



O044  
Rust & Corrosion Preventive

