

Product Brochure For M163D

## Workshop Turret Milling Machine Geared Head Horizontal - Vertical - HM-52G

Table Travel: (X) - 600mm (Y) - 200mm (Z) - 340mm

Includes Digital Readout System, Vice & Collet Chuck System



ORDER CODE:	M163D
MODEL:	HM-52G
Digital Readout:	3-Axis Digital Readout
Type:	Vertical & Horizontal
Table Size (mm):	1000 x 240
Column Type:	~
Spindle Taper - Vertical:	NT30
Spindle Taper - Horizontal:	NT30
Longitudinal Travel (X-Axis) (mm):	600*
Cross Travel (Y-Axis) (mm):	200*
Vertical Travel (Z-Axis) (mm):	340
Type of Slides:	Dovetail
Ram Travel (mm):	500
Spindle to Table (mm):	375
Spindle to Base:	~
Spindle Travel / Diameter (mm):	125 / 90
Throat Depth (max.) (mm):	640
Tilting Head (Left ~ Right):	±90°
Tilting Head (Forward ~ Back):	Fixed
Drilling Capacity (mm):	30
End Milling Capacity (mm):	25
Face Milling Capacity (mm):	80
Power Feed - Quill (mm/rev):	Manual
Power Feed - Longitudinal (X-Axis) (mm/min):	20 - 2000
Power Feed - Cross (Y-Axis) (mm/min):	Optional *
Power Feed - Vertical (Z-Axis) (mm/min):	Optional *
Table T-Slot Size (inch / mm):	14
Work Table Load Capacity (kg):	175
Spindle Speeds Vertical (No./ rpm):	8 (115 - 1750)
Spindle Speeds Horizontal (No./ rpm):	9 (60 - 1350)
Spindle Speeds - Universal Head:	~
Motor Power - Vertical Spindle (kW / hp):	1.5 / 2
Motor Power - Horizontal Spindle (kW / hp):	1.5 / 2
Motor Power - Universal Head:	~
Voltage / Amperage (V / amp):	415
Nett Weight (kg):	1050

### Description

A well-built entry level geared head, turret milling, vertical and horizontal, drilling machine with a powerful continuous-load 1.5kW / 2hp motor, intended for trade use. The work table is precision made with adjustable dovetail guides and is recognised for its 600mm X axis by 200mm Y axis travel. There is a three armed handle on the side for drilling also incorporating a fine feed control hand wheel on the front for milling. Two levers mounted on right side of milling head enables quick change off the geared spindle speeds.

Other features include 3-Axis digital readout system, taper roller bearing support for the spindle, easy-to-read drilling depth stop, low voltage work light, 150mm machine vice, 8 piece metric collet chuck set, coolant system, X axis power feed unit, drill chuck, 1" & 1-1/4" horizontal arbors, 2 & 3 morse taper adaptors. The combination of generous sized vertical support and rugged cast iron construction throughout reduces vibration and guarantees accurate and chatter-free operation.

#### Extra Features:

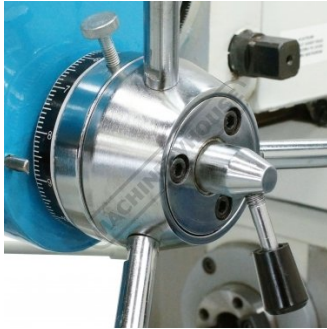
Swivel table  
 1" & 1-1/4" horizontal arbors

### Features

- 3 Axis digital readout system
- Swivel table left & right with graduated scale



Product Brochure For M163D



Quill Handle



Vertical Spindle Speed Levers



Horizontal Spindle



Horizontal Spindle Switch

HORIZONTAL SPINDLE SPEED (R.P.M)			
1	AG	60	UPPER
2	BG	140	
3	CG	175	
4	AF	200	MIDDLE
5	AE	240	
6	BF	460	MOTOR
7	CE	690	
8	BD	1090	
9	CD	1350	

Horizontal Spindle Speed Chart



Tilting Head Scale



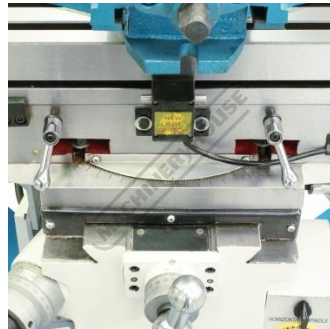
Adjustable Swivel and Sliding Ram



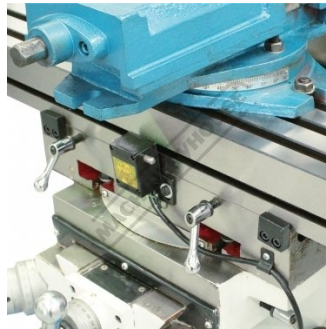
Horizontal Spindle Support



Halogen Work Light and Coolant Hose



Swivel Table



Feed Limit Switches



X Axis Power Feed with Rapid



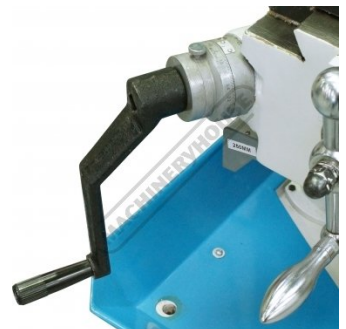
X Axis Dial



Y Axis Dial



Z Axis Dial



Knee Feed Handle

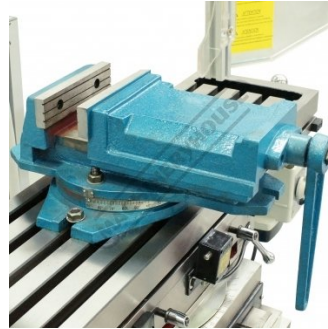
Product Brochure For M163D



Coolant Pump



Concertina Slide Way Cover



Shown with Vice Fitted



Accessories Included, 150mm Vice, Metric Collet Chuck, Drill Chuck and Arbor, Morse Taper Adaptors



Horizontal Arbors

**Recommended Accessories**

**M229**  
 Power Feed Unit



**V106**  
 Vertex K-Type Milling Vice



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



**C9245**  
 Collet & Chuck Set - 8 Piece



Product Brochure For M163D

**C928**  
 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



**M530**  
 Universal Milling Kit - 4 Piece



**M540**  
 Face Mill Arbor



**R004**  
 Vertex Super Indexing Head



**R006**  
 Vertex Rotary Table



**M184**  
 Precision Boring Head



**M197**  
 Boring Head Shank



**M182**  
 Precision Boring Head Kit



**M183**  
 Precision Boring Head Kit



**M193**  
 Boring Head Shank



Product Brochure For M163D

M250  
 Parallel Set - 8 Piece



M252  
 Parallel Set - 18 Piece



M243  
 Angle Plate - Precision Ground



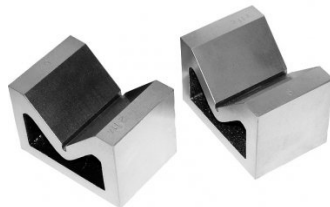
M242  
 Angle Plate - Precision Ground



V010  
 Alloy Steel Vee Block



V006  
 Cast Iron Vee Block



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

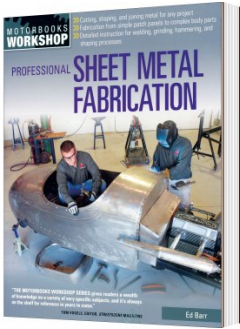


S074  
 Cutting Tool Lubricant Paste -  
 500g

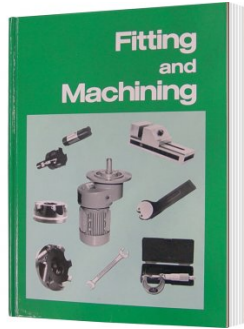


Product Brochure For M163D

**L3455**  
 Professional Sheet Metal Fabrication Book



**L341**  
 Fitting and Machining Technical Book



**L300**  
 Magnetic Swarf Remover



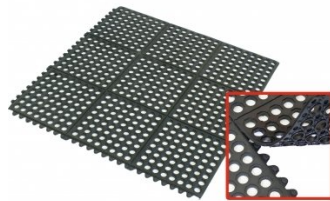
**M9991**  
 Magnetic Floor Sweeper



**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

