

Product Brochure For M162D

Workshop Turret Milling Machine Inverter Variable Speed & Geared Head - Horizontal & Vertical - HM-53GV

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

Includes Digital Readout System, Vice & Collet Chuck System



ORDER CODE:	M162D
MODEL:	HM-53GV
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):	Variable (90 - 2000)
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):	240 / 10
Nett Weight (kg):	1050

Description

This HM-53GV geared head vertical and horizontal turret milling machine now includes a inverter variable speed drive on the vertical spindle, 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. The hi-low geared head selector lever mounted on right side of milling head allows for quick change off speed range.

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

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Features

- Electronic inverter variable spindle speeds
 - 3 Axis digital readout system
 - Swivel table left & right with graduated scale
 - Mill head tilts to $\pm 90^\circ$ left to right
 - 500mm horizontally sliding and rotating ram
 - NT30 Horizontal and vertical spindles that are hardened and ground
 - Precision-ground dovetail slide-ways and table
 - Precision milling table incorporating machined T slots
 - Rear concertina slide-way cover
 - Forward and reverse button switch
 - Fine hand wheel operated quill feed
 - Swarf & splash tray
 - Spindle lock for quill
 - Metric dial graduations @ 0.02mm for X , Y & Z-Axis
 - Vertical dial graduations on hand wheel @ 0.05mm
 - All slides utilise dovetail construction for maximum rigidity
 - Includes 1" & 1-1/4" arbors for the horizontal spindle
- * Note: X & Y travels maybe reduced due to digital readout scales and safety stops
 * Note: Optional Y & Z power feeds require additional parts & fitting (not included)

Includes

- Electronic inverter variable spindle speeds
- 3 Axis digital readout system
- X-Axis power-feed
- Safety cutter guard
- Swarf tray
- Coolant system
- Halogen lamp
- 150mm machine vice
- Drill chuck & arbor
- 2 & 3MT adaptors
- 8-piece metric collet chuck set (4-16mm)

Specific Features



Left View



Mill Head Front View



Mill Head Right View



3 Axis Digital Readout



Vertical Spindle Speed Chart



Variable Spindle Speeds With DRO



Safety Chuck Guard



Quill Fine Adjustment Handle

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Quill Handle



Vertical Spindle High Low Lever



Horizontal Spindle



Horizontal Spindle Control Panel

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

UPPER: E, D
MIDDLE: G, F
MOTOR: C, B, A

Horizontal Spindle Speed Chart



Tilting Head Scale



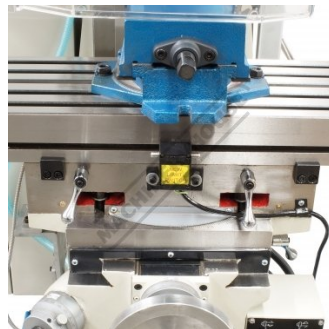
Adjustable Swivel and Sliding Ram



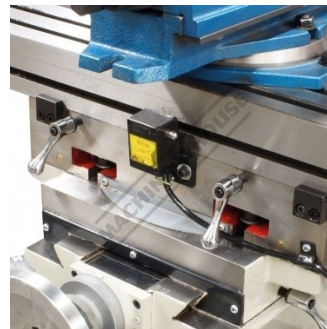
Horizontal Spindle Support



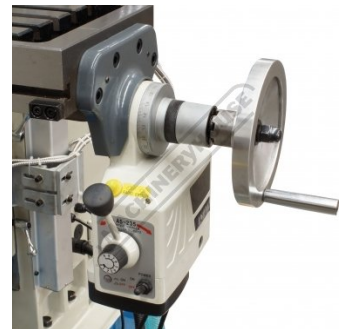
Halogen Work Light and Coolant Hose



Swivel Table



Feed Limit Switches



X Axis Power Feed with Rapid



X Axis Dial



Y Axis Dial



Z Axis Dial

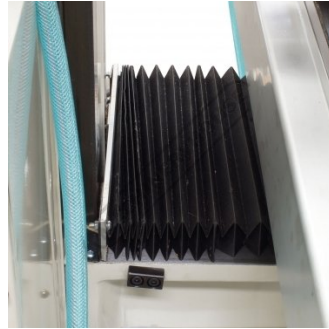


Knee Feed Handle

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Coolant Pump



Concertina Slide Way Cover



Shown with Vice Fitted



Included Accessories



Included Horizontal Arbors and Drawbars

Recommended Accessories

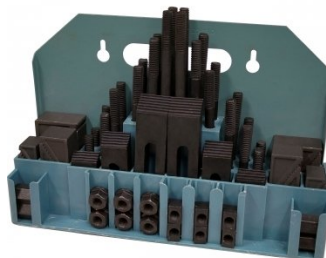
M229
 Power Feed Unit



V106
 Vertex K-Type Milling Vice



C0965
 Clamp Kit 58 piece - Workshop Series



C9245
 Collet & Chuck Set - 8 Piece Series



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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



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M250
 Parallel Set - 8 Piece



M252
 Parallel Set - 18 Piece



M243
 Angle Plate - Precision Ground



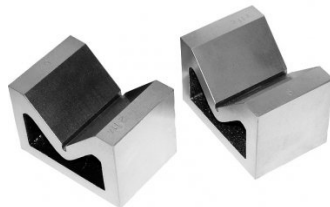
M242
 Angle Plate - Precision Ground



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

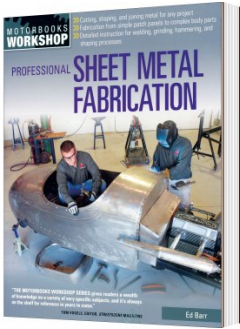


S074
 Cutting Tool Lubricant Paste - 500g

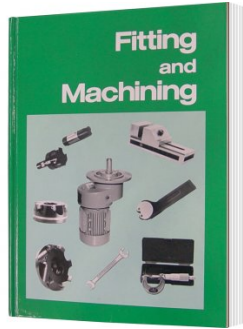


Product Brochure For M162D

L3455
 Professional Sheet Metal
 Fabrication Book



L341
 Fitting and Machining Technical
 Book



L300
 Magnetic Swarf Remover



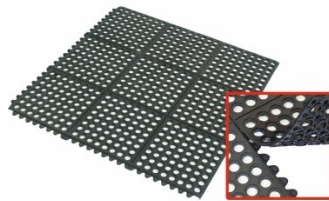
M9991
 Magnetic Floor Sweeper



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

