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Product Brochure For M161D

# Workshop Turret Milling Machine - Horizontal - Vertical - HM-52

Table Travel: (X) - 600mm (Y) - 200mm (Z) - 340mm
Includes Digital Readout System, Vice & Collet Chuck System



| | |
|---|---|
| ORDER CODE: | M161D |
| MODEL: | HM-52 |
| 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): | ±90º |
| 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): | 9 (220 - 2400) |
| 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

A well-built entry level 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. The screwed belt guard covers on each side of the head offer secure safety whilst providing easy access to the belts and pulleys for speed changing.

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

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- Mill head tilts to ±90º 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 on/off 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

- 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


3 Axis Digital Readout System



Head Front View


Head Right View


Head Left View


Safety Cutter Guard

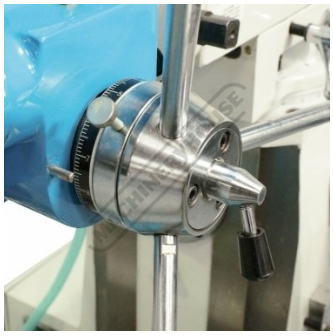

Tilting Head Scale


Adjustable Swivel and Sliding Ram

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Quill Feed Handle and Fine Feed Dial

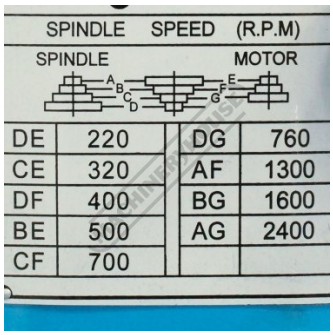

Quill Handle


Quill Fine Adjustent Handle

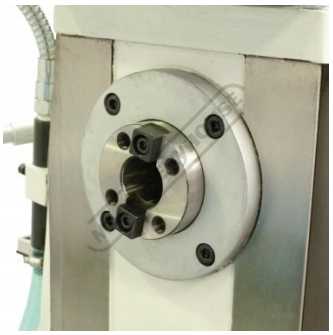


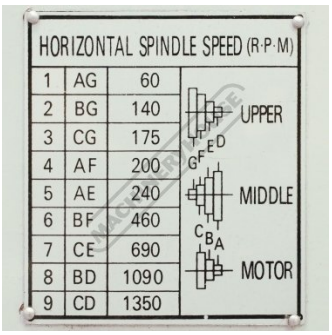
Control Panel


Quill Lock Handle



Spindle Speed Chart


Horizontal Spindle

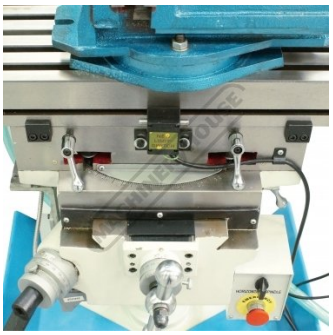


Horizontal Spindle Speed Chart



Horizontal Spindle Switch


Machine Vice


Swivel Table and Feed Limit Switches


Y Axis Dial


X Axis Power Feed with Rapid


X Axis Dial


Knee Feed Handle


Knee Feed Dial

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Worklight and Coolant Hose


Concentina Slide Way Cover


Coolant System


Horizontal Spindle Support


Includes Horzontal Arbors


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

## 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



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# Product Brochure For M161D

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 - 3 Piece with INSERTS



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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# Product Brochure For M161D

M250
Parallel Set - 8 Piece



M252
Parallel Set - 18 Piece



M243
Angle Plate - Precision Ground



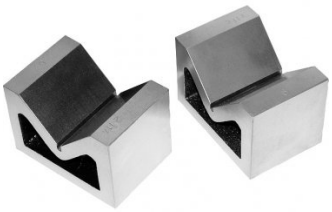
M242
Angle Plate - Precision Ground



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



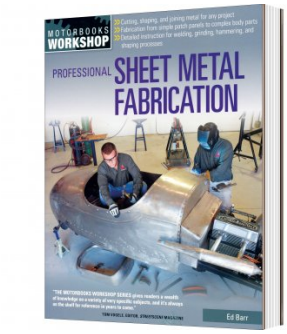

S074
Cutting Tool Lubricant Paste - 500g



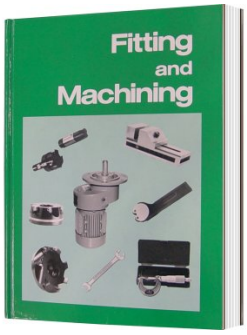
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# Product Brochure For M161D

L3455
Professional Sheet Metal Fabrication Book




L341
Fitting and Machining Technical Book




L300
Magnetic Swarf Remover



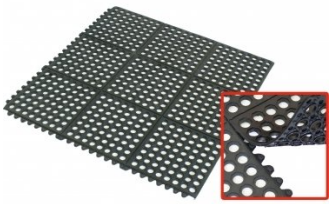
M9991
Magnetic Floor Sweeper



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

