

HAFCO METALMASTER BM-63VE



Turret Milling Machine

(X) 890mm (Y) 400mm (Z) 400mm











Left Side View



Right Side View



Front View



Control Panel



3 Axis Digital Readout



Variable Speed Hand Wheel



Variable Speed Digital Display



Spindle Brake Lever



Drawbar



High Low Speed Range Selection Lever



Quill Feed Engage Lever



Quill Feed Depth Stop



Feed Speed Selector Lever



Quill Hand Lever



Head Tilt Knucle





Universal Tilting and Rotating Head



Adjustable Swivel and Sliding Ram



Tail Lug Spigot Supports Slotting Head



Table Feed Limit Switches



X Axis Power Feed with Rapid



X Axis Dial Graduations



Y Axis Power Feed with Rapid



Y Axis Dial Graduations



Z Axis Handle



Z Axis Dial Graduations



Z Axis Elevating Motor



Rear Slideway Protection



Manual Slideway Lubrication Pump



Safety Cutter Guard



Work Light and Coolant Hose



Includes Machine Vice





Included Accessories

Description

Quality product representing excellent value

Features

- 3 Axis digital readout fitted
- 5HP 415V motor with mechanical variable speed system
- NT40 Spindle taper with a 105mm chrome & ground quill
- Hardened ballscrew X & Y-Axis providing smooth and accurate operation
- Digital speed readout display for accurate cutter speed
- · Hardened & ground work table & slide-ways
- · Square construction slides for Y & Z-Axis to maximise rigidity
- Powered elevating motor for Z-Axis
- · Meehanite casting for high strength & minimal deformation
- Quality electrics & overload protection in an easy access enclosure
- Horizontal travelling ram mounted on a rotating base allowing repositioning of spindle
- The ram incorporates a tail lug (spigot) to accept a slotting attachment etc.
- High / neutral and low gear selection lever to maximise torque
- X & Y-Axis power-feed with adjustable micro switch feed stops
- Coolant system, halogen light, 160mm machine vice & swarf tray
- Micro switch on the manual knee handle for additional operator safety
- Metric dial graduations @ 0.02mm for X, Y & Z-Axis
- Automatic quill feed 0.04, 0.08, 0.15mm/rev
- · Automatic cut off depth stop on quill
- · Oil lubrication pump and reservoir
- Slide-way covers Y & Z-Axis
- Mill head tilts to ±45° forward and back
- Mill head tilts to ±90° left and right
- · Manual quick action quill lever
- Mechanical spindle brake
- Tool box and manual



Includes

- · 3 Axis digital readout fitted
- Hardened ballscrew X & Y-Axis
- Digital speed readout display
- · One-shot oil lubrication pump and reservoir
- X & Y-Axis power-feed
- Z-Axis powered elevating motor
- Machine vice 160mm
- Clamp kit set
- Drawbar M16 thread
- Coolant system
- · Slideway covers
- · Safety cutter guard

Specifications

- Halogen light
- Swarf tray

ORDER CODE M599D MODEL BM-63VE Digital Readout 3-Axis Digital Readout Type Vertical Table Size (mm) 1370 x 254 Column Type > Spindle Taper - Vertical NT40 Spindle Taper - Horizontal ~ Longitudinal Travel (X-Axis) (mm) 890 Cross Travel (Y-Axis) (mm) 400 Vertical Travel (Z-Axis) (mm) 400 Type of Slides Dovetail (X), Square (Y&Z) Ram Travel (mm) 550 Spindle to Table (mm) 450 Quill Travel / Diameter (mm) 127 / 105 Throat Depth (max.) (mm) 740 Tilting Head (Left ~ Right) ±90° Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000		
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Vertical Travel (Z-Axis) (mm)400Type of SlidesDovetail (X), Square (Y&Z)Ram Travel (mm)550Spindle to Table (mm)450Quill Travel / Diameter (mm)127 / 105Throat Depth (max.) (mm)740Tilting Head (Left ~ Right)±90°Tilting Head (Forward ~ Back)±45°Drilling Capacity (mm)~End Milling Capacity (mm)~Face Milling Capacity (mm)~Power Feed - Quill (mm/rev)0.04 / 0.08 / 0.15Power Feed - Longitudinal (X-Axis) (mm/min)20 - 2000	Longitudinal Travel (X-Axis) (mm)	890
Type of Slides Ram Travel (mm) 550 Spindle to Table (mm) 450 Quill Travel / Diameter (mm) 127 / 105 Throat Depth (max.) (mm) 740 Tilting Head (Left ~ Right) Tilting Head (Forward ~ Back) Drilling Capacity (mm) End Milling Capacity (mm) Face Milling Capacity (mm) Power Feed - Quill (mm/rev) Power Feed - Longitudinal (X-Axis) (mm/min) 250 - 2000	Cross Travel (Y-Axis) (mm)	400
Ram Travel (mm) 550 Spindle to Table (mm) 450 Quill Travel / Diameter (mm) 127 / 105 Throat Depth (max.) (mm) 740 Tilting Head (Left ~ Right) ±90° Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) ~ End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Vertical Travel (Z-Axis) (mm)	400
Spindle to Table (mm) 450 Quill Travel / Diameter (mm) 127 / 105 Throat Depth (max.) (mm) 740 Tilting Head (Left ~ Right) ±90° Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) ~ End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Type of Slides	Dovetail (X), Square (Y&Z)
Quill Travel / Diameter (mm) 127 / 105 Throat Depth (max.) (mm) 740 Tilting Head (Left ~ Right) ±90° Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) ~ End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Ram Travel (mm)	550
Throat Depth (max.) (mm) 740 Tilting Head (Left ~ Right) Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) End Milling Capacity (mm) Face Milling Capacity (mm) Power Feed - Quill (mm/rev) Power Feed - Longitudinal (X-Axis) (mm/min) 740 ±90° - C 0.04/0.08/0.15	Spindle to Table (mm)	450
Tilting Head (Left ~ Right) ±90° Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) ~ End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Quill Travel / Diameter (mm)	127 / 105
Tilting Head (Forward ~ Back) ±45° Drilling Capacity (mm) ~ End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Throat Depth (max.) (mm)	740
Drilling Capacity (mm) ~ End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Tilting Head (Left ~ Right)	±90º
End Milling Capacity (mm) ~ Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Tilting Head (Forward ~ Back)	±45º
Face Milling Capacity (mm) ~ Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Drilling Capacity (mm)	~
Power Feed - Quill (mm/rev) 0.04 / 0.08 / 0.15 Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	End Milling Capacity (mm)	~
Power Feed - Longitudinal (X-Axis) (mm/min) 20 - 2000	Face Milling Capacity (mm)	~
	Power Feed - Quill (mm/rev)	0.04 / 0.08 / 0.15
	Power Feed - Longitudinal (X-Axis) (mm/min)	20 - 2000
Power Feed - Cross (Y-Axis) (mm/min) 20 - 2000	Power Feed - Cross (Y-Axis) (mm/min)	20 - 2000
Power Feed - Vertical (Z-Axis) (mm/min) Rapid	Power Feed - Vertical (Z-Axis) (mm/min)	Rapid
Table T-Slot Size (inch / mm) 16	Table T-Slot Size (inch / mm)	16
Work Table Load Capacity (kg) 400	1 4210 1 3101 3120 (1110117 11111)	

Spindle Speeds Vertical (No./ rpm)

Variable (50 - 3550)



Spindle Speeds Horizontal (No./ rpm)	~
Motor Power - Vertical (kW / hp)	3.75 / 5
Motor Power - Horizontal (kW / hp)	~
Voltage / Amperage (V / amp)	415
Overall Height (mm)	2200
Nett Weight (kg)	1375