

BM-90HV - Industrial Turret Milling Machine - Horizontal - Vertical

Table Travel: (X) - 1120mm (Y) - 520mm (Z) - 440mm
 Includes Digital Readout System, Servo Driven Ball screw System X & Y-Axis & Pneumatic Draw bar System

Ex GST **Inc GST**
\$45,950.00 **\$50,545.00**



ORDER CODE:	M633D
MODEL:	BM-90HV
Digital Readout:	3-Axis Digital Readout
Type:	Vertical & Horizontal
Table Size (mm):	1470 x 370
Column Type:	~
Spindle Taper - Vertical:	NT40
Spindle Taper - Horizontal:	NT40
Longitudinal Travel (X-Axis) (mm):	1120
Cross Travel (Y-Axis) (mm):	520
Vertical Travel (Z-Axis) (mm):	440
Type of Slides:	Dovetail (X), Square (Y & Z)
Ram Travel (mm):	600
Spindle to Table (mm):	505
Spindle to Base:	~
Spindle Travel / Diameter (mm):	140 / 110
Throat Depth (max.) (mm):	785
Tilting Head (Left ~ Right):	±90°
Tilting Head (Forward ~ Back):	Fixed
Drilling Capacity (mm):	~
End Milling Capacity (mm):	~
Face Milling Capacity (mm):	~
Power Feed - Quill (mm/rev):	0.035 / 0.07 / 0.14
Power Feed - Longitudinal (X-Axis) (mm/min):	30 - 3000
Power Feed - Cross (Y-Axis) (mm/min):	30 - 3000
Power Feed - Vertical (Z-Axis) (mm/min):	Rapid
Table T-Slot Size (inch / mm):	18
Work Table Load Capacity (kg):	600
Spindle Speeds Vertical (No./ rpm):	Inverter (60 - 3600)
Spindle Speeds Horizontal (No./ rpm):	9 (65 - 1500)
Spindle Speeds - Universal Head:	~
Motor Power - Vertical Spindle (kW / hp):	3.75 / 5
Motor Power - Horizontal Spindle (kW / hp):	3.75 / 5
Motor Power - Universal Head:	~
Voltage / Amperage (V / amp):	415
Nett Weight (kg):	2725



Description

The BM-90HV industrial horizontal & vertical turret milling machine is manufactured in Taiwan to a strict precision engineering ultra-high tolerance & superior excellence to cope with many jobs from small to big that is set out by the professional machinist, and importantly to deliver many years of valuable & reliable service.

This magnificent milling machine is very similar to the BM-90VE, however the BM-90HV model is built with a vertical & horizontal NT40 spindles to give you much more scope & usability. It also has a generous range in all X, Y & Z travels, X-axis 1120mm, Y-axis 520mm & Z-axis 440mm. The large 1470 x 370mm hardened & ground table is controlled by servo driven feed motors coupled to hardened ballscrew system in X & Y-Axis providing smooth & accurate positioning. The 5hp vertical spindle motor speed is regulated via a Japanese quality Yaskawa inverter control unit and designed to achieve maximum torque in all speed ranges. In addition, the large vertical spindle measure 110mm in diameter and helps provide greater rigidity when side loading with large diameter cutters. The 5hp horizontal spindle motor is coupled to a gearbox mounted on the side for quick access speed changes.

This milling machine package is also complete with a few of the most desirable features for example, NT40 spindle taper, Z-axis powered elevating motor, pneumatic operated draw bar to easily & quickly change tool holders with a push of a button and automatic operated oil pump to keep slides in perfect working order.

The BM-90HV machine also includes features like, 3-axis digital readout system fitted, turcite B coated X & Y slide-ways that reduces friction

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sales@machineryhouse.com.au
www.machineryhouse.com.au

to provide smooth table movement even when loaded up with a heavy job, square constructed slideways on X & Z-Axis, Steel slideway cover on Y-Axis for maximum protection & an electric fan installed on the milling head to reduce excessive heat & maintain accuracy.

Another reliable feature in this range of precision milling machines is the manufacturing process of the main body & supports, it is made up from the highest quality Meehanite® cast iron. The key to the undisputed success of Meehanite® metals is the rigid application of its patented manufacturing process to provide ultimate strength & durability performance.

Features

- 3-Axis Digital Readout fitted
- 5HP 415V motor on vertical spindle, Inverter control variable speed system (BM-90HV)
- 5HP 415V motor on horizontal spindle, Speeds control by gear selection levers
- Hardened ballscrew X & Y-Axis providing smooth and accurate operation
- Japanese Quality Yaskawa Spindle speed control
- NT40 vertical spindle taper with a 110mm chrome & ground quill
- NT40 horizontal spindle taper
- Servo controlled feed motors on X & Y-Axis ensures response, accuracy and consistent feed
- Hardened & ground work table & slide-ways
- Square construction slides for X & Z-Axis to maximise rigidity
- Turcite B coated X & Y-Axis slide-ways reduces friction for smooth operation
- Pneumatic operation drawbar system for quick and effortless tool change
- Powered elevating motor for Z-Axis
- Large 1470mm x 370mm work table
- Electric fan incorporated in milling head to reduce heat
- Meehanite casting for high strength & minimal deformation
- Quality electrics & overload protection in an easy access enclosure
- Horizontal travelling ram mounted on a solid base allowing repositioning of spindle
- High / neutral and low gear selection lever to maximise torque
- Micro switch on the manual knee handle for additional operator safety
- Metric dial graduations @ 0.02mm for X, Y & Z-Axis
- Automatic quill feed 0.35, 0.07, 0.14mm/rev
- Automatic cut off depth stop on quill
- Automatic oil lubrication pump and reservoir
- Table trays each end of work table
- Clutch hand wheels X & Y-Axis
- Steel slide-way cover Y-Axis
- Mill head tilts to $\pm 90^\circ$ left and right
- Manual quick action quill lever
- Toolbox and Manual

Includes

- 3-Axis digital readout fitted
- 1" horizontal arbor & support
- Hardened ballscrew X & Y-Axis
- Automatic oil lubrication pump and reservoir
- Pneumatic drawbar system M16 thread
- Coolant system
- Steel slide-way cover
- Z axis powered elevating motor
- X & Y-Axis servo controlled power-feed
- Halogen light
- Safety cutter guard
- Swarf tray
- Drawbar M16 thread

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Specific Features



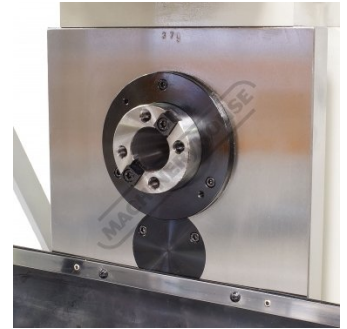
Pendant Control



3 Axis Digital Read Out



Control Panel



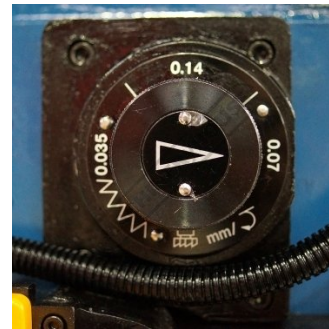
NT40 Horizontal Spindle Taper



Horizontal Spindle Speed Selectors



Low Height Selector Dial



Quill Power Feed Dial



Engage Disengage Quill Feed Dial



Air Power Drawbar



Power Drawbar Switch



Knee Elevating Motor for Z Axis



Tilting Head Scale



Adjustable Swivel and Sliding Ram



Safety Cutter Guard

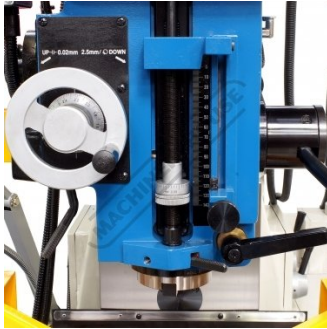


Head Left View

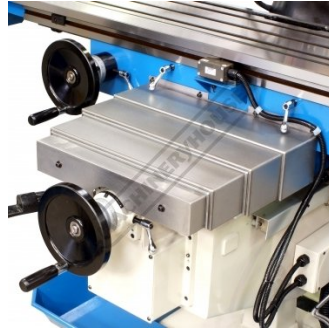


Head Right View

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Quill Feed Depth Stop



Concertina Slide Way Cover



Cross Feed Handle



Knee Feed Handle



Knee Feed Graduations



X Axis Handle



Horizontal Spindle Supports



Horizontal Cutting Safety Guards Up Position



Horizontal Cutting Safety Guards



Auto Lubrication System



Align Air Operated Draw Bar System



Halogen Work Light and Coolant Hose



RPM Meter

Recommended Accessories

C097

Clamp Kit 58 piece - Industrial Series



C966

Collet & Chuck Set - 25 Piece



M3301

Metric HSS Slot Drill & End Mill Set - 10 Piece



M3321

Imperial HSS Slot Drill & End Mill Set - 10 Piece



M184

Precision Boring Head



M185

Precision Universal Facing & Boring Head



M197A

Boring Head Shank



C290

Heavy Duty Drill Chuck - Keyed Type



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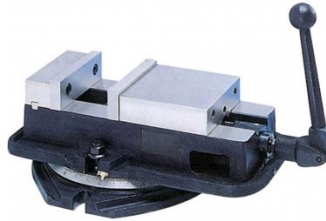
C294
Industrial Drill Chuck - Keyless Type



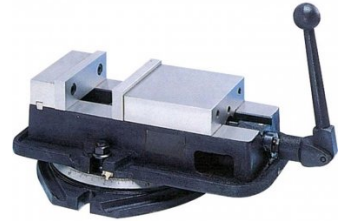
D448
NT40-JT3 Drill Chuck Arbor



V306
Vertex Anglock Machine Vice



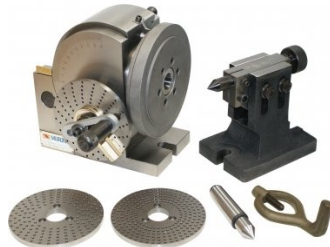
V307
Vertex Anglock Machine Vice



R010
Vertex Rotary Table



D002
Vertex Dividing Head - Semi Universal



C2806
3 Jaw Self Centring Lathe Chuck



R002
Vertex Super Indexing Head



M512
Face Mill 90° - Positive Rake



M503
Face Mill 90° - Positive Rake



M517
Face Mill 45° - Super High-Rake



M518
Face Mill 45° - Super High-Rake

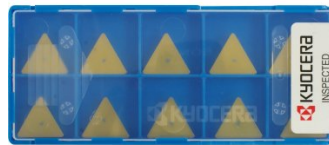


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L065
KYOCERA Carbide Inserts -
Milling



L066
KYOCERA Carbide Inserts -
Milling



M552
Face Mill Arbor



M554
Face Mill Arbor



M555
Face Mill Arbor



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



M2295
Power Feed Unit



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L300
 Magnetic Swarf Remover



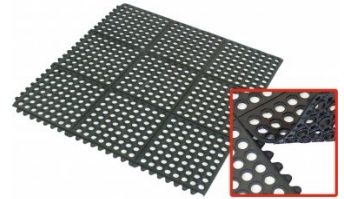
M9991
 Magnetic Floor Sweeper



M800
 Rubber Mat - Anti-Fatigue



M805
 Rubber Mat - Anti-Fatigue



O000
 SpillFix Universal Organic Absorbent



O000A
 Natural Zeolite Absorbent



O043
 Rust & Corrosion Preventive - Penetrant & Lubrication



O042
 General Purpose Lubricant & Corrosion Inhibitor



O040
 Rust & Corrosion Preventive - Penetrant & Lubrication



O044
 Rust & Corrosion Preventive - Penetrant & Lubrication

