Auckland: (09) 2717 234
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Product Brochure For M632D

Industrial Turret Milling Machine - BM-90VE

Table Travel: (X) - 1120mm (Y) - 520mm (Z) - 360mm

Includes Digital Readout System, Servo Driven Ballscrew System X & Y-Axis & Pneumatic Brawbar System

Ex GST	Inc GST
$48,130.00	$55,349.50



ORDER CODE:	M632D
MODEL:	BM-90VE
Digital Readout:	3-Axis Digital Readout
Type:	Vertical
Table Size (mm):	1470 x 370
Column Type:	~
Spindle Taper - Vertical:	NT40
Spindle Taper - Horizontal:	~
Longitudinal Travel (X-Axis) (mm):	1120
Cross Travel (Y-Axis) (mm):	520
Vertical Travel (Z-Axis) (mm):	360
Type of Slides:	Dovetail (X), Square (Y & Z)
Ram Travel (mm):	500
Spindle to Table (mm):	500
Spindle to Base:	~
Spindle Travel / Diameter (mm):	140 / 110
Throat Depth (max.) (mm):	685
Tilting Head (Left ~ Right):	±90º
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):	~
Spindle Speeds - Universal Head:	~
Motor Power - Vertical Spindle (kW / hp):	3.75 / 5
Motor Power - Horizontal Spindle (kW / hp):	~
Motor Power - Universal Head:	~
Voltage / Amperage (V / amp):	415
Nett Weight (kg):	2600

Description

The BM-90VE Industrial 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 has a generous range in all X, Y & Z travels, X-axis 1120mm, Y-axis 520mm & Z-axis 360mm. 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 spindle motor speed is regulated via a Japanese quality Yaskawa inverter control unit and designed to achieve maximum torque in all spend ranges. In addition, the large spindle measure 110mm in diameter and helps provide greater rigidity when side loading with large diameter cutters.

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

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Another reliable feature in this range of precision milling machines is the manufacturing process of the main body & supports, it is made up form 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, inverter control variable speed system(BM-90VE)
- Hardened ballscrew X & Y-Axis providing smooth and accurate operation
- Japanese quality Yaskawa spindle speed control
- NT40 Spindle taper with a 110mm chrome & ground quill
- 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 0.04, 0.08, 0.13mm/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 slideway cover Y-Axis
- Mill head tilts to ±90º left and right
- Manual quick action quill lever
- Tool box and manual

Includes

- 3 Axis digital readout fitted
- Hardened ballscrew X & Y-Axis
- Automatic oil lubrication pump and reservoir
- Pneumatic drawbar system M16 thread
- Coolant system
- Steel slideway 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


Auto Lubrication System



3 Axis Digital Read Out



Align Air Operated Drawbar System


Control Panel


Safety Micro Switch On Z Axis Lever


Knee Elevating Motor for Z Axis


Side View

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









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M184
Precision Boring Head



M185
Precision Universal Facing & Boring Head



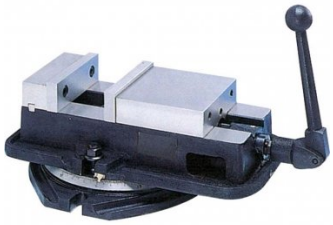
M197A
Boring Head Shank



V106
Vertex K-Type Milling Vice



V306
Vertex Anglock Machine Vice



C290
Heavy Duty Drill Chuck - Keyed Type



C294
Industrial Drill Chuck - Keyless Type



D446
NT40 x JT6 Drill Chuck Arbor - M16 Threaded Shank



D448
NT40 x JT3 Drill Chuck Arbor - M16 Threaded Shank



M252
Parallel Set - 18 Piece



R010
Vertex Rotary Table



D002
Vertex Dividing Head - Semi Universal



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C2806
3 Jaw Self Centring Lathe Chuck



R002
Vertex Super Indexing Head



M512
Face Mill 90º - Positive Rake



M503
Face Mill 90º - Positive Rake



M517
Face Mill 45º - Super High-Rake



M518
Face Mill 45º - Super High-Rake



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



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S090
Soluble Metal Cutting Fluid - 5 Litre



S076
Cutting Tool Lubricant Fluid - 500ml



S077
Drilling, Tapping & Cutting Tool Lubricant Spray - 400g



S074
Cutting Tool Lubricant Paste - 500g



M2295
Power Feed Unit



L300
Magnetic Swarf Remover



M9991
Magnetic Floor Sweeper



M800
Rubber Mat - Anti-Fatigue



M805
Rubber Mat - Anti-Fatigue



O043
Rust & Corrosion Preventive



O042
General Purpose Lubricant & Corrosion Inhibitor



O044
Rust & Corrosion Preventive

