

Product Brochure For M630D

## BM-70VE - Industrial Turret Milling Machine

Table Travel: (X) - 1050mm (Y) - 420mm (Z) - 400mm  
 Includes Digital Readout System, Inverter Variable Spindle Speed &  
 Inverter X & Y-Axis Feed Motors

**Ex GST**                      **Inc GST**  
**\$27,500.00**      **\$30,250.00**



ORDER CODE:	M630D
MODEL:	BM-70VE
Digital Readout:	3-Axis Digital Readout
Type:	Vertical
Table Size (mm):	1500 x 305
Column Type:	~
Spindle Taper - Vertical:	NT40
Spindle Taper - Horizontal:	~
Longitudinal Travel (X-Axis) (mm):	1050
Cross Travel (Y-Axis) (mm):	420
Vertical Travel (Z-Axis) (mm):	400
Type of Slides:	Dovetail (X), Square (Y & Z)
Ram Travel (mm):	485
Spindle to Table (mm):	460
Spindle to Base:	~
Spindle Travel / Diameter (mm):	155 / 105
Throat Depth (max.) (mm):	750
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 / 0.13
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):	5/8
Work Table Load Capacity (kg):	500
Spindle Speeds Vertical (No./ rpm):	Inverter (70 - 4200)
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):	1800



### Description

The BM-70VE 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 heavy-duty solid milling machine has a generous scope in all X, Y & Z travels, X-axis 1050mm, Y-axis 420mm & Z-axis 400mm. What separates this BM-70VE turret milling machine from all the others on the market is the large 1500 x 305mm table has a very long table base support and will accept a heavy table weight of 500kg. furthermore, it is complimented with square slide-ways for the Y & Z-axis which relates to more surface area resulting in outstanding rigidity and performance when taking heavy cuts.

This milling machine package is also complete with a few of the most desirable features for example, 5hp motor driving the NT40 spindle taper, Inverter controller X & Y axis feeds, 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-70VE machine also includes features like, electronic variable spindle speed with a digital readout display, turcite B coated X & Y slide-ways that reduces friction to provide smooth table movement even when loaded up with a heavy job, hardened & ground work table & slide-ways and a 3-axis digital readout system fitted.

## Product Brochure For M630D

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

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.

To conclude this BM-70VE heavy-duty industrial turret milling machine is that this model can withstand the heavy metal removal cuts, and when its put to the test it certainly performs its duties with absolutely no hesitation.

### Features

- 3 Axis digital readout fitted
- 5HP 415V motor, inverter control variable speed system with automatic spindle brake (BM-70VE)
- Inverter controlled feed motors on X & Y-Axis
- High quality spindle speed control with digital readout
- NT40 Spindle taper with a 105mm chrome & ground quill
- Digital spindle speed readout
- 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
- 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
- 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
- Slide-way covers Y & Z-Axis
- Mill head tilts to  $\pm 45^\circ$  forward and back
- Mill head tilts to  $\pm 90^\circ$  left and right
- Manual quick action quill lever
- Tool box and manual

### Includes

- 3 Axis digital readout fitted
- Automatic oil lubrication pump and reservoir
- Pneumatic drawbar system M16 thread
- Coolant system
- Slideway covers
- Z-Axis powered elevating motor
- X & Y-Axis inverter controlled power-feed
- Halogen light
- Safety cutter guard
- Swarf tray
- Drawbar M16 thread

Product Brochure For M630D

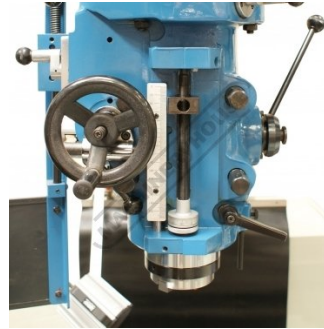
**Specific Features**



Controller



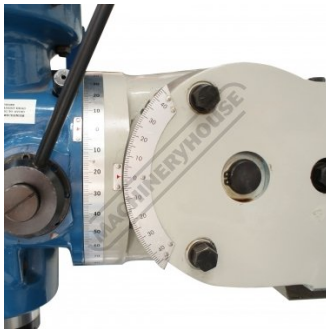
3 Axis Digital Readout



Quill Feed Depth Stop



Mill Head Right View



Universal Tilting and Rotating Head



Front View



Extra Wide Saddle Support



Micro Switch on Knee Handle



Feed Selector



Quill Feed Mechanism



Automatic oil lubrication pump and reservoir



Adjustable Swivel & Sliding Ram



Heavy Duty X Axis Feed Motor



Cross Feed Handle



Pneumatic Drawbar



Head Controls

Product Brochure For M630D

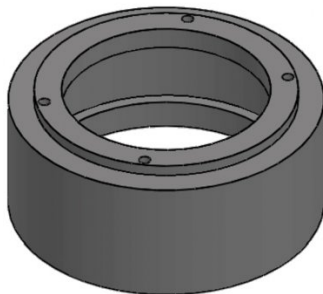


Head Left Side View

**Recommended Accessories**

**M223**

Riser Spacer - Suits Turret Milling Machines



**C091**

Clamp Kit 58 piece - Workshop Series



**C966**

Collet & Chuck Set - 25 Piece



**M3301**

Metric HSS Slot Drill & End Mill Set - 10 Piece



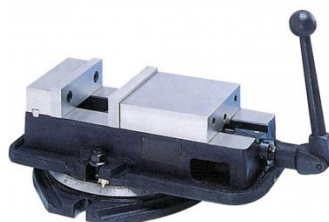
**M3321**

Imperial HSS Slot Drill & End Mill Set - 10 Piece



**V306**

Vertex Anglock Machine Vice



**M184**

Precision Boring Head



**M185**

Precision Universal Facing & Boring Head



Product Brochure For M630D

**M197A**  
Boring Head Shank



**M181**  
Boring Bar Set - 12 piece



**M181A**  
Boring Bar Set - 4 piece



**C294**  
Industrial Drill Chuck - Keyless Type



**D448**  
NT40-JT3 Drill Chuck Arbor



**M252**  
Parallel Set - 18 Piece



**R008**  
Vertex Rotary Table



**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



Product Brochure For M630D

**M503**  
 Face Mill 90° - Positive Rake



**M517**  
 Face Mill 45° - Super High-Rake



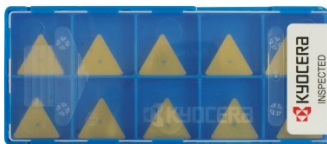
**M518**  
 Face Mill 45° - Super High-Rake



**L065**  
 KYOCERA Carbide Inserts -  
 Milling



**L066**  
 KYOCERA Carbide Inserts -  
 Milling



**M552**  
 Face Mill Arbor



**M554**  
 Face Mill Arbor



**M555**  
 Face Mill Arbor



**M250**  
 Parallel Set - 8 Piece



**L059**  
 Carbide Inserts - Milling



**S090A**  
 Soluble Metal Cutting Fluid - 1  
 Litre



**S090**  
 Soluble Metal Cutting Fluid - 5  
 Litre



Product Brochure For M630D

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



M247

Air Power Drawbar



M229

Power Feed Unit



M2295

Power Feed Unit



M225

Precision Slotting Head Attachment



L300

Magnetic Swarf Remover



M9991

Magnetic Floor Sweeper



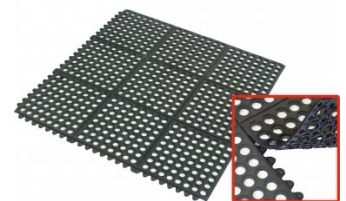
M800

Rubber Mat - Anti-Fatigue



M805

Rubber Mat - Anti-Fatigue



Product Brochure For M630D

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

