

New Gate - PBM

Specifications Universal Milling Machines

Premium universal mills affordably priced

Gate - universal milling machines have been designed with present day requirements in mind. They feature strong construction, correct power-weight ratio, ergonomic design, giving ease of handling. These machines are ideal for use in education, light and heavy engineering. All our machines come with a 2 year warranty as standard.

MILLING

PBM-UM1



PBM-UM1 with Vertical Head on Swivel Arm (Pictured without Guarding and Splash Tray)

PBM-UM2



PBM-UM2 with pendant control and Vertical Head on Swivel Arm (Pictured without Guarding and Splash Tray)

PBM-UM5



PBM-UM5 with pendant control and Multiangular head with swivel arm (Pictured without Guarding and Splash Tray)

Features

- Rigid webbed castings with ample dimensions
- Square prismatic slides which ensure maximum rigidity
- Spindle, gears and shafts manufactured from Cr.Ni steel are hardened and ground
- Central lubrication system
- Minimum wear feature achieved by shaft and gear design
- Overload clutch on feed boxes

OPTIONS



Machine options

- | | | | |
|---|--|---|-------------------------|
| 1 | 3 Axis DRO integrated in pendant control | 4 | Universal dividing head |
| 2 | Universal, Huron type head with swivel arm | 5 | ER spring collet system |
| 3 | Horizontal / vertical rotary table | 6 | 52 piece clamping kit |
| | | 7 | Hydraulic machine vice |

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PBM-UM5 (MOA)

Features of Motorised Overarm (MOA)

As per PBM-UM5 but with Multiangular head with Quill (Huron type multiangular head opt.),
 Vertical Spindle motor 5.5HP,
 ISO-40 (ISO-50 opt.)
 Net weight: 3200 Kg,
 Gross weight: 3400 Kg,
 Dimensions: 190x230x230 cm



*pictured with motorised overarm (option). Pictured without guarding for clarity

Standard Equipment - all models

- * Interlocked machine guarding
- * Horizontal arbor with collars and draw bar
- * Electrical equipment
- * Coolant pump and fittings
- * Set of spanners
- * Instruction manual
- * Wide range of accessories and options available

New

Specifications

MODEL	PBM-UM1	PBM-UM2	PBM-UM3R	PBM-UM5
Table:				
Working surface	1100 x 250mm	1270 x 300mm	1300 x 300mm	1500 x 350mm
Tee slots	(3) 16mm	(3) 16mm	(3) 16 x 70mm	(5) 16 x 60mm
Swivel angle	±45°	±45°	±45°	±45°
Travel:				
Longitudinal	700mm	930mm	950mm	1150mm
Cross	260mm	400mm	380mm	400mm
Vertical	390mm	450mm	450mm	500mm
Spindle:				
Taper	ISO40	ISO40	ISO40 (ISO50 opt)	ISO40 (ISO50 opt)
Spindle speeds	60-1100rpm	45-1100rpm	40-1800rpm	40-1800rpm
No of speeds	6	9	12	12
Feeds:				
Longitudinal	Gear Type with Auto feed & Rapid		X, Y and Z Auto and rapid feeds with inverter	X, Y and Z Auto and rapid feeds with inverter
Cross	Manual	Ballscrew with inverter		
Vertical	Manual	Up & Down Motor		
Motors:				
Main motor (s)	3HP	5HP	5.5HP	7.5HP (10HP opt)
Coolant motor	1/8HP	1/8HP	0.1HP	0.1HP
Net Weight	1000 Kg	2500 Kg	2500 Kg	3100 Kg
Gross Weight	1150Kg	2700Kg	2700Kg	3300Kg
Dimensions	157x123x165cm	215x175x198cm	220x170x220cm	220x190x230cm