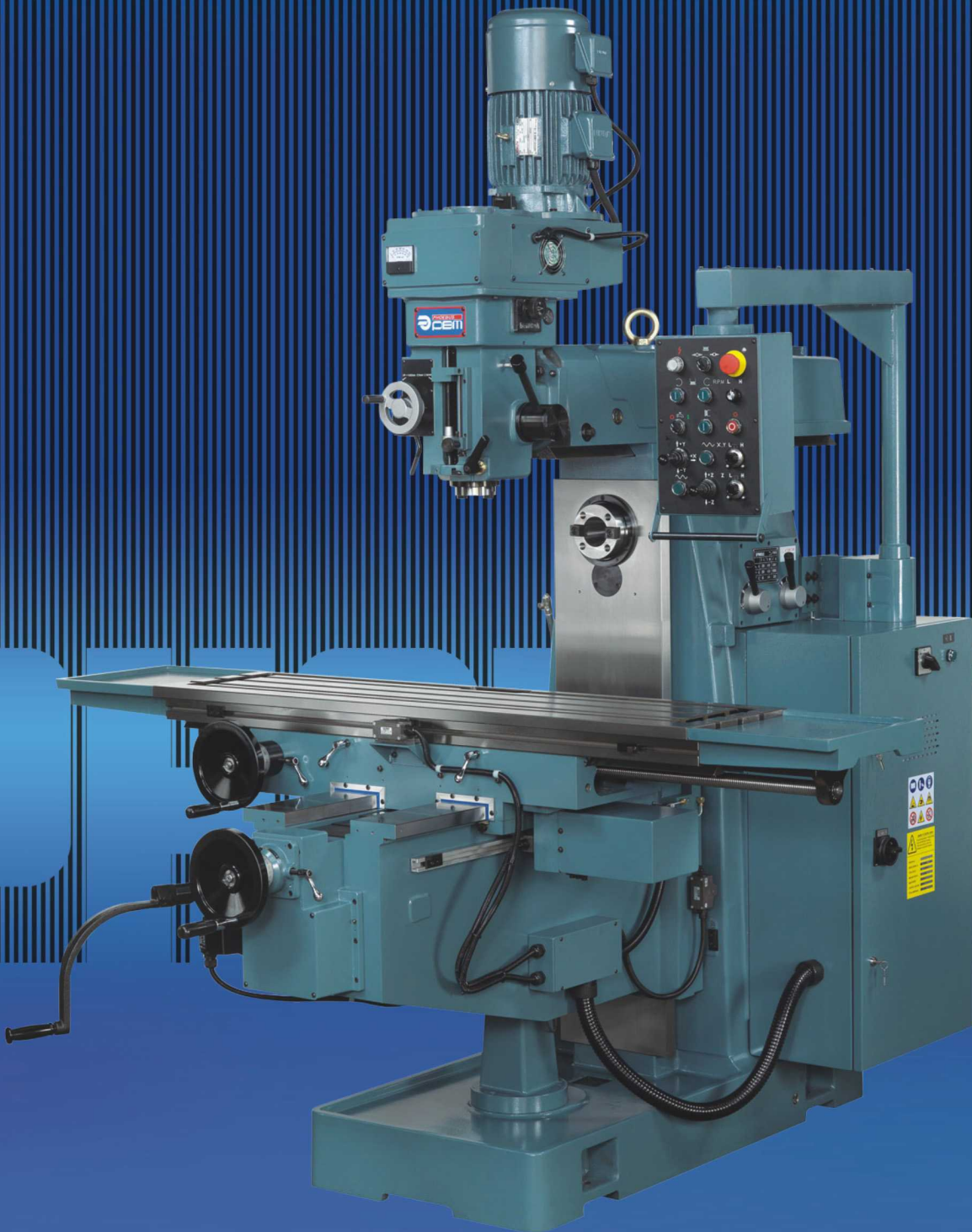


PHOEBUS PDEM[®]



PBM-GEVS600A SERIES

VERTICAL & HORIZONTAL MILL

PBM-GEVS600A

**TURRET TYPE INVERTER
VARI. SPEED HEAD**



SPECIFICATIONS

UNIT : MM 50HZ

ITEMS		PBM-GS600A	PBM-GVS600A	PBM-GEVS600A
TABLE	TABLE SIZE	1270 x 370 (1470 X 370 OPT.)		
	T SLOT (W x NO. x PITCH)	18 x 3 x 80		
TRAVEL	TRAVEL (X · Y · Z)	930 x 610 x 440		
FEED	FEED (LONG) / MIN	30 ~ 3000 VARI.		
	FEED (CROSS) / MIN	30 ~ 3000 VARI.		
	VERTICAL / MIN	960 (30 ~ 1150 VARI. OPT)		
SPINDLE	SPINDLE NOSE	N.S.T.40		
	STEPS	16	VARIABLE	INV. VARIABLE
	SPINDLE SPEED RPM	62-3000	75-3165	60-3600
	SWIVELLING ANGLE	45° (R&L)		
	QUILL TRAVEL	140		
	QUILL FEEDS / REW	0.035 / 0.07 / 0.14		
	SPINDLE NOSE TO TABLE	98 ~ 538		
	SPINDLE CENTER TO COLUMN FACE	185 ~ 785		
	CROSS TRAVEL OF RAM	600		
HORIZONTAL SPINDLE	SPINDLE NOSE	N.S.T. 50		
	SPINDLE SPEED RPM	60 ~ 1440		
	STEPS	9		
	SPINDLE TO BOTTOM OF RAM	175		
	SPINDLE CENTER TO TABLE TOP	-8 ~ 432		
MOTOR	VERTICAL SPINDLE	5HP - 2P / 4P	5HP - 4P	5HP - 4P INV.
	HORIZONTAL SPINDLE	7.5HP - 4P		
	FEED X, Y AXIS	AC SERVO 750W		
	FEED Z AXIS	1HP-12P (AC SERVO 850W OPT.)		
	COOLANT PUMP	1/8HP - 2P		
SIZE	MACHINE (L X W X H)	2070 x 2050 x 2600		
	NET WEIGHT(KGS)	2600	2650	2700
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.				

STANDARD ACCESSORIES

1. COOLANT SYSTEM
2. X, Y, AXES SERVO MOTOR
3. X, Y, AXES BALL SCREW
4. VERTICAL HEAD AUTO LUBRICATION PUMP
5. SLIDE WAY AUTO LUBRICATION PUMP

OPTIONAL FUNCTIONS

1. X AXIS TRAVEL 1120MM
2. Z AXIS SERVO MOTOR

VERTICAL & HORIZONTAL MILL

PBM-GEVS500A

**TURRET TYPE INVERTER
VARI. SPEED HEAD**



STANDARD ACCESSORIES

1. COOLANT EQUIPMENT
2. X,Y,AXES SERVO MOTOR
3. X,YAXES BALL SCREW
4. VERTICAL HEAD AUTO LUBRICATION PUMP
5. SLIDE WAY AUTO LUBRICATION PUMP

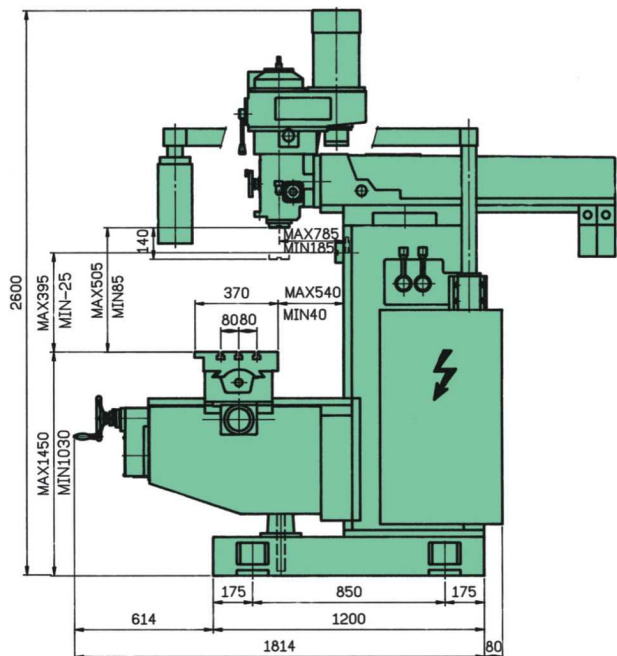
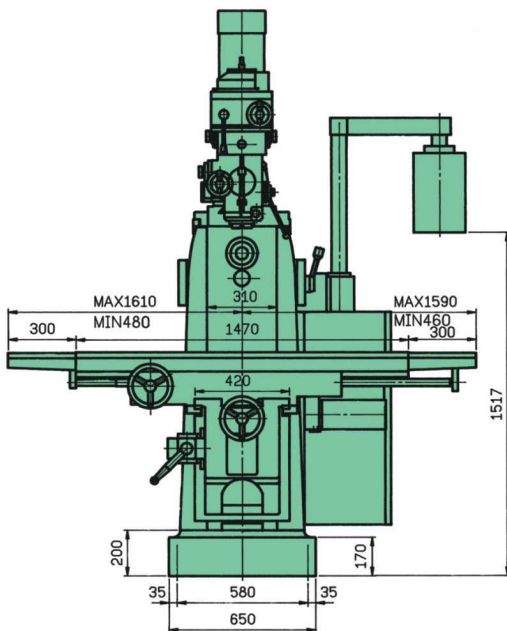
OPTIONAL FUNCTIONS

- 1.VERTICAL HEAD ATTACHMENT
- 2.Z AXIS SERVO MOTOR
- 3.X AXIS TRAVEL 1120mm



DIMENSION

PBM-GEVS500A



SPECIFICATIONS

UNIT : MM 50HZ

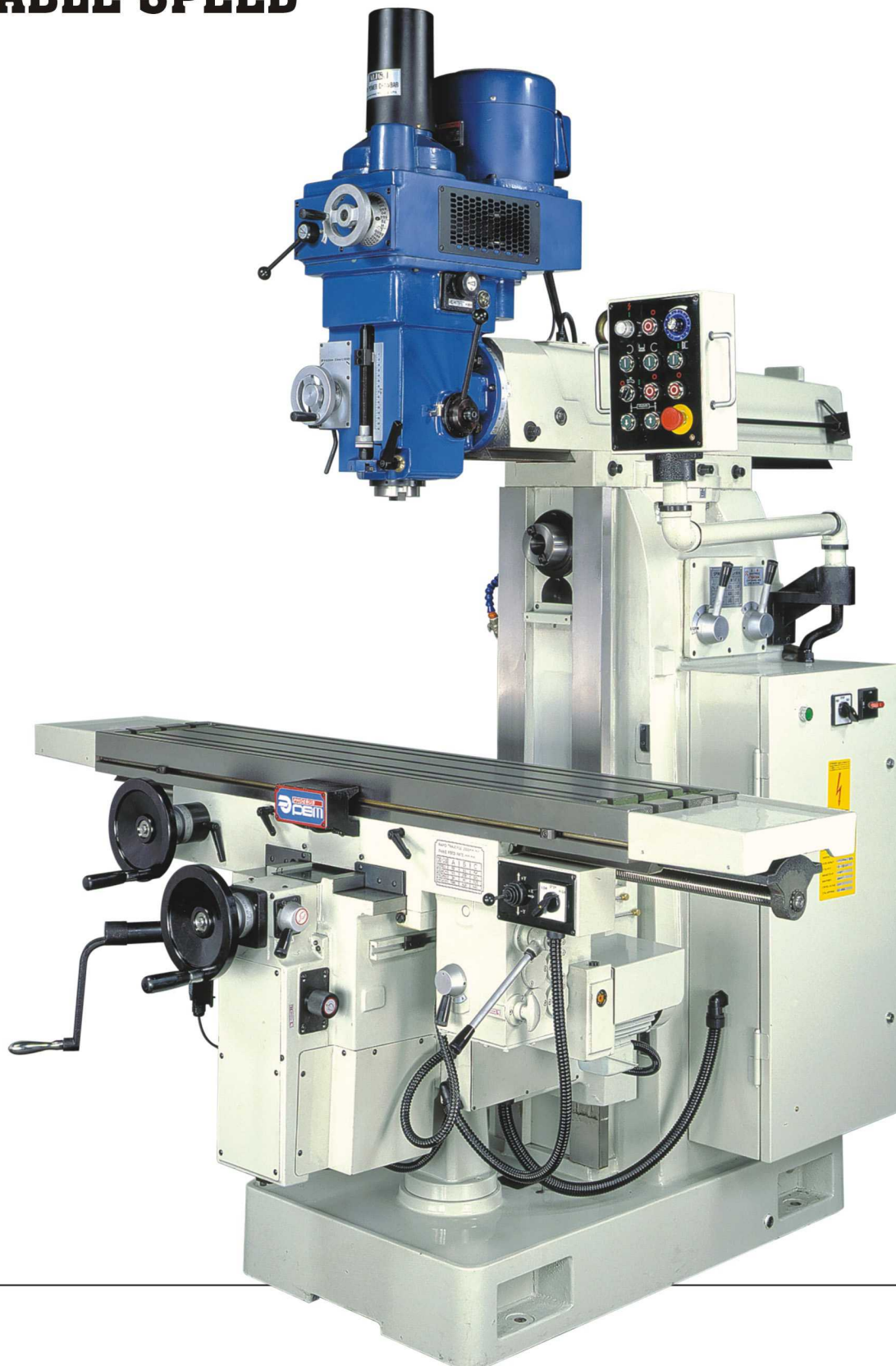
ITEMS		PBM-GEVS500A	ITEMS		PBM-GEVS500A
TABLE	TABLE SIZE	1270 x 370 (1470 x 370 OPT.)	SPINDLE	SPINDLE CENTER TO COLUMN	185 - 785
	T SLOT (W x NO. x PITCH)	18 x 3 x 80		CROSS TRAVEL OF RAM	600
TRAVEL	X · Y · Z-MANUAL	930 x 520 x 440	HORIZONTAL SPINDLE	SPINDLE NOSE	N.S.T 40
	X · Y · Z-AUTO	920 x 500 x 420		SPINDLE SPEED RPM	65 - 1440
FEED	LONG./MIN	30 - 3000 VARI.	STEPS	9	
	CROSS/MIN	30 - 3000 VARI.	SPINDLE TO BOTTOM OF RAM	175	
	VERTICAL/MIN	960 (30 - 1150 VARI. OPT.)	SPINDLE CENTER TO TABLE	-25 ~ 395	
SPINDLE	SPINDLE NOSE	N.S.T 40	MOTOR	VERTICAL SPINDLE	5 HP - 4P INVERTER
	STEPS	INVERTER VARIABLE		HORIZONTAL SPINDLE	5 HP - 4P
	SPINDLE SPEED RPM	60 - 3600	FEED X,Y AXES	AC SERVO 750W	
	SWIVELLING ANGLE	45° (R&L)	FEED Z AXIS	1HP - 12P (AC SERVO 850W OPT.)	
	QUILL TRAVEL	140	COOLANT PUMP	1/8 HP - 2P	
	QUILL FEEDS/REV	0.035/0.07/0.14	SIZE	MACHINE (L x W x H)	2070 x 1900 x 2600
SPINDLE NOSE TO TABLE	85 - 505	NET WEIGHT (KGS)		2650	

* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.

VERTICAL & HORIZONTAL MILL

PBM-GVS300A

VARIABLE SPEED



PBM-GS300AF

STEP SPEED

FEATURES

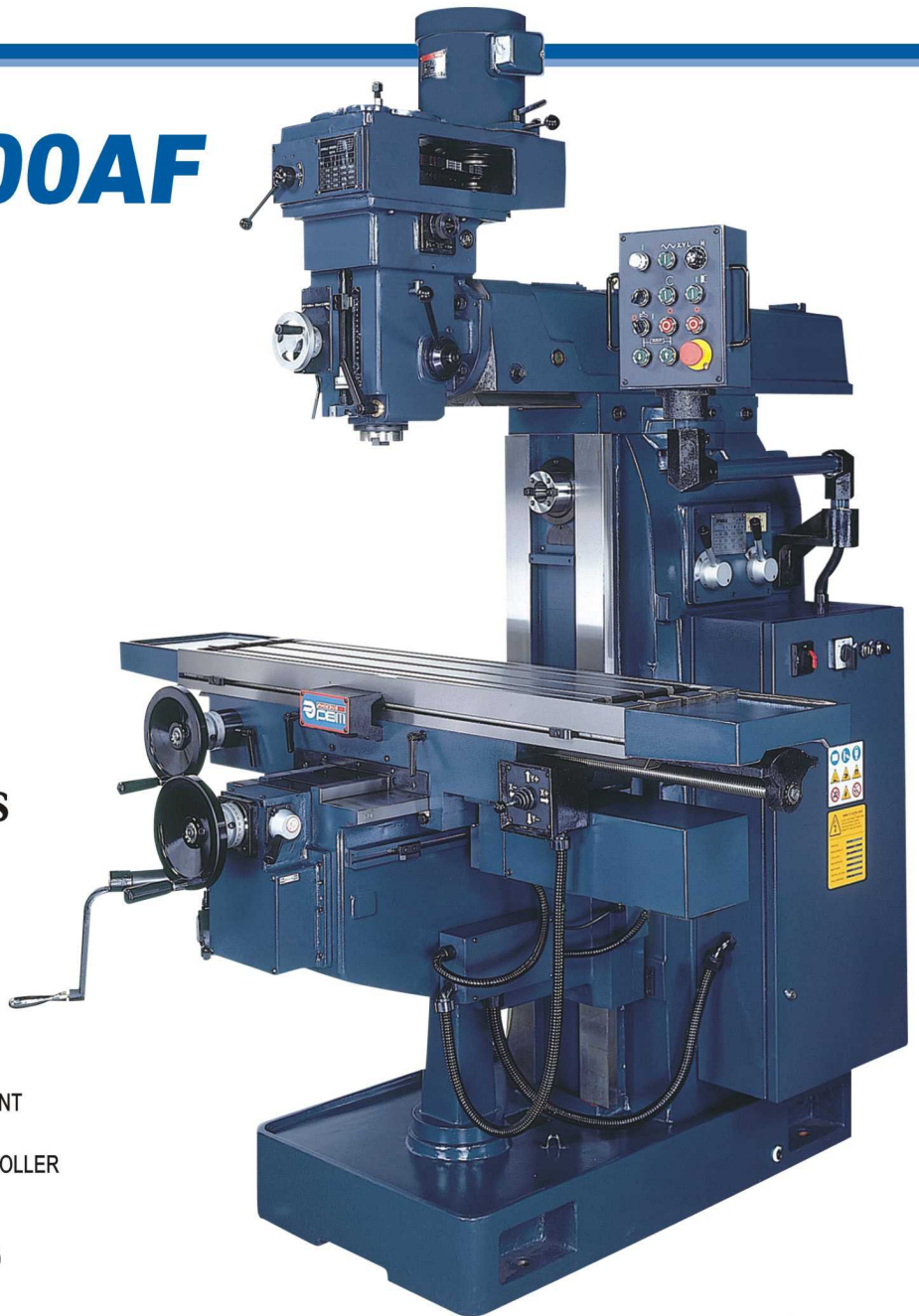
1. THE VERY WIDE SADDLE 910MM KEEPS TABLE MOVEMENT SMOOTHLY IN ALL DIRECTIONS, TO PREVENT ANY DEFORMATION AND ALLOWANCE OCCURED.
2. GEAR BOX TYPE FEED TO MAINTAIN POWERFUL MACHINING AND END MILLING, WILL INCREASE THE WORKING EFFICIENCY. (FOR GS300A)
3. HARDENED AND GROUND SLIDE WAYS ASSURES THAT THE TABLE WILL STAY WHERE SIT BELONGS.

STANDARD ACCESSORIES

1. COOLANT EQUIPMENT
2. VERTICAL HEAD AUTO LUBRICATION PUMP
3. X, Y AXES TURCITE B
4. SLIDE WAY AUTO LUBRICATION PUMP
5. Y AXIS INVERTER MOVEMENT. WITH BALL SCREW

OPTIONAL FUNCTIONS

1. X AXIS BALL SCREW WITH INVERTER MOVEMENT
2. VERTICAL HEAD ATTACHMENT
3. TURRET HEAD INVERTER MOTOR WITH CONTROLLER
4. AIR POWER DRAWBAR
5. TABLE SIZE 1470 x 300 mm
6. X AXIS FEED MOTOR 1HP - 2P / 4P (FOR GS300A)



SPECIFICATIONS

UNIT : MM 50HZ

ITEMS		PBM-GS300A	PBM-GVS300A	PBM-GS300AF	ITEMS		PBM-GS300A	PBM-GVS300A	PBM-GS300AF
TABLE	SIZE (LxW)	1270 x 300			SPINDLE	SPINDLE CENTER TO COLUMN	190 - 690		
	T SLOT (W x NO. x PITCH)	16 x 3 x 80				CROSS TRAVEL OF RAM	500		
TRAVEL	X · Y · Z-MANUAL	930 x 400 x 450			HORIZONTAL SPINDLE	SPINDLE NOSE	N.S.T 40		
	X · Y · Z-AUTO	920 x 380 x 450				SPINDLE SPEED RPM	60 - 1440		
FEED	LONG. / MIN	18-320 (6 STEPS)	50-2200		STEPS	9			
	LONG. RAPID TRAVERSE / MIN	1040	2200		SPINDLE TO BOTTOM OF RAM	175			
	CROSS / MIN	50-2200			SPINDLE CENTER TO TABLE	0 - 450			
	VERTI, RAPID TRAVERSE / MIN.	360			MOTOR	VERTICAL SPINDLE	5 HP - 2/4P	5 HP - 4P	5 HP - 2/4P
SPINDLE	SPINDLE NOSE	N.S.T 40				HORIZONTAL SPINDLE	5 HP - 4P		
	STEPS	16	VARIABLE	16	TABLE FEED (LONG.)	3/4 HP - 4P		1/2HP-4P-1/5	
	SPINDLE SPEED RPM	62 - 3000	75 - 3166	62 - 3000	TABLE FEED (CROSS)	1/2HP - 4P - 1/5			
	SWIVELLING ANGLE	45° (R&L)			TABLE RAPID (VERTICAL)	1/2 HP - 4P - 1/10			
	QUILL TRAVEL	140			COOLANT PUMP	1/8 HP - 2P			
	QUILL FEEDS/REV	0.035/0.07/0.14			SIZE	MACHINE (LxWxH)	1740 x 1614 x 2007		
SPINDLE NOSE TO TABLE	95 - 545			NET WEIGHT (KGS)		2350	2450	2350	

* SPECIFICATIONS MAY BE CHANGED IMPROVED WITHOUT NOTICE.

UNIVERSAL MILLING MACHINE

PBM-HU300

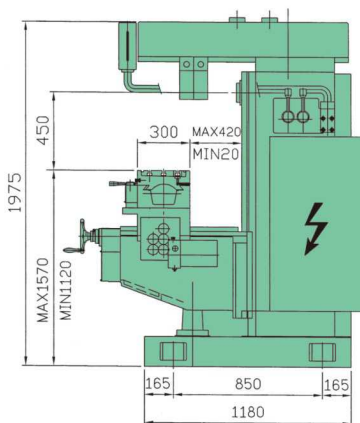
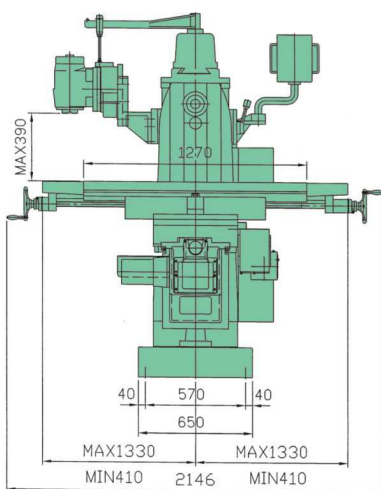


SPECIFICATIONS

UNIT : MM 50HZ

ITEMS		PBM-HU300
TABLE	SIZE (LxW)	1270 x 300
	T SLOT (W x NO. x PITCH)	16 x 3 x 80
	SWIVEL (L&R)	45°
	VERT. SPINDLE NOSE TO TABLE	0 ~ 390
TRAVEL	X · Y · Z - MANUAL	930 x 400 x 450
	X · Y · Z - AUTO	920 x 380 x 450
FEED	LONG. FEED RATE (mm/min)	18 ~ 320 (6 STEPS)
	LONG. RAPID TRAVERSE (mm/min)	1040
	CROSS FEED RATE (mm/min)	50 ~ 2200
	VERT. RAPID TRAVERSE (mm/min)	360
VERTICAL SPINDLE	SPINDLE NOSE	N.S.T.40
	SPINDLE SPEED (RPM)	45 ~ 1100
	STEPS	9
HORIZONTAL SPINDLE	SPINDLE NOSE	N.S.T.40
	STEPS	9
	SPEED (RPM)	60 ~ 1440
	CENTER TO BOTTOM OF RAM	175
	CENTER TO TABLE	0 ~ 450
MOTOR	HORIZONTAL SPINDLE	5HP
	TABLE LONG. FEED	3/4HP
	TABLE CROSS FEED	1/2HP
	TABLE VERT. RAPID	1/2HP
	COOLANT PUMP	1/8HP
SIZE	MACHINE (L X W X H)	2150 x 1750 x 1975
	NET WEIGHT	2550 KGS.
	GROSS WEIGHT	2700 KGS.

* SPECIFICATIONS MAY CHANGED WITHOUT NOTICE TO INCORPORATE IMPROVEMENTS

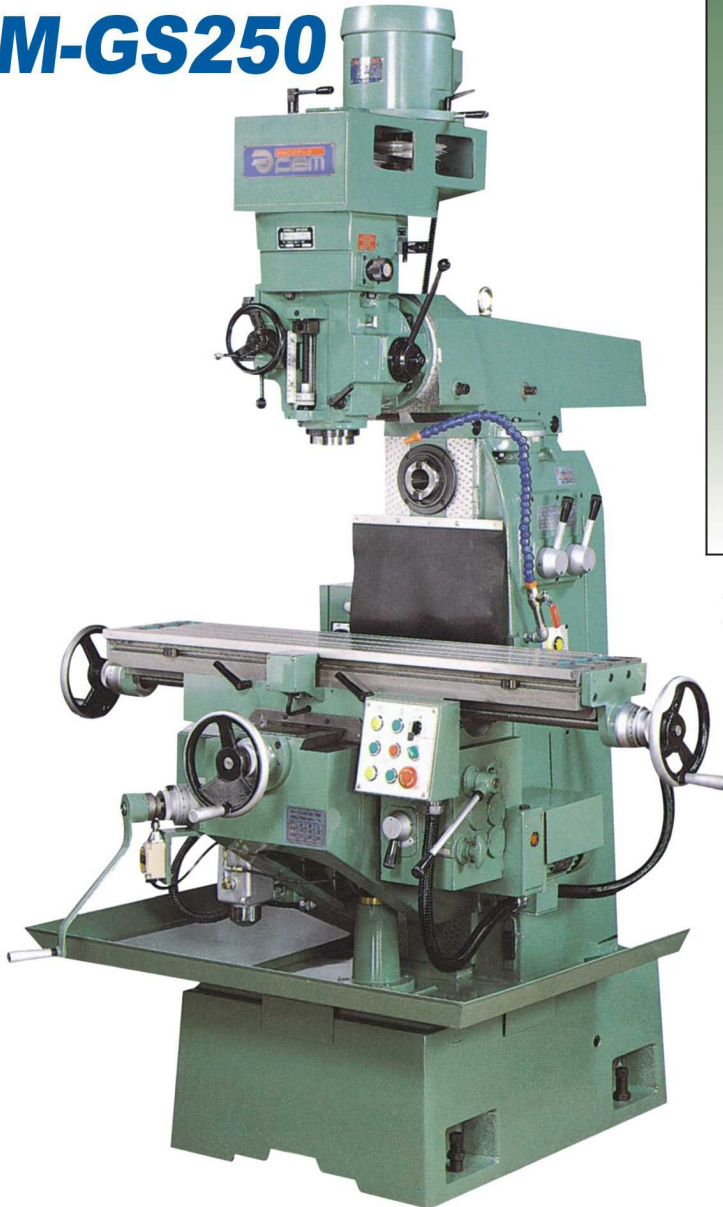


STANDARD ACCESSORIES

1. COOLANT EQUIPMENT & TRAY
2. LONG, GEAR BOX FEED
3. TABLE ELEVATING MOTOR
4. TABLE SWIVEL
5. X, Y, AXES TURCITE B
6. SLIDE WAY AUTO LUBRICATION PUMP
7. ADJ. TOOLS AND TOOL BOX
8. VERTICAL HEAD ATTACHMENT
9. Y AXIS INVERTER MOVEMENT.
WITH BALL SCREW

VERTICAL & HORIZONTAL MILL

PBM-GS250



FEATURES

- MAIN CASTINGS ARE MADE OF MEEHANITE CAST IRON OF HIGH TENSILE STRENGTH AND SUPERIOR QUALITY, THESE ARE SUBJECTED TO ARTIFICIAL SEASONING, AFTER WHICH THEY ARE CAREFULLY MACHINED TO ENSURE ACCURACY OVER A LONG PERIOD OF TIME.
- HARDEND AND GROUND SLIDE WAYS ASSURE THE MACHINE IN HIGH ACCURACY, RIGIDITY AND WEAR RESISTANCE.
- THE MAIN SPINDLES AND INTERMEDIATE SHAFTS ARE CONSTRUCTED OF NICKELCHROME STEEL WHICH IS HEAT TREATED AND FINISHED GROUND.



PBM-GS250



PBM-GVS250



PBM-H250

SPECIFICATIONS

UNIT : MM 50HZ

ITEMS		PBM-GS250	PBM-GVS250	PBM-H250	PBM-HU250
TABLE	SIZE (L X W)	1100 x 250			
	T SLOT (W x NO. x PITCH)	16 x 3 x 60			
	SWIVEL (L&R)	—	—	—	45°
TRAVEL	X · Y · Z	700 x 250 x 440			700x260x390
FEED	LONG. / MIN	18 - 320 (6 STEPS)			
	LONG. RAPID TRAVERSE / MIN	1040			
	VERTICAL RAPID TRAVERSE / MIN	290			
SPINDLE	SPINDLE NOSE	N.S.T.40			
	STEPS	10	VARIABLE	—	6
	SPINDLE SPEED RPM	60-3000	66-3166	—	60-1100
	SWIVELLING ANGLE (L&R)	45°			
	QUILL TRAVEL	127	127	—	—
	QUILL FEEDS/REW	0.04/0.08/0.15			
	SPINDLE NOSE TO TABLE	30 - 470	30 - 470	—	0 - 342
	SPINDLE CENTER TO COLUMN	200 - 500	200 - 500	—	—
	CROSS TRAVEL OF RAM	300			
HORIZONTAL SPINDLE	SPINDLE NOSE	N.S.T. 40			
	SPINDLE SPEED RPM	60 - 1100 (6 STEPS)			
	SPINDLE TO BOTTOM OF RAM	115			
	SPINDLE CENTER TO TABLE	0 - 420			0 - 390
MOTOR	VERTICAL SPINDLE	5 HP - 4P		—	
	HORIZONTAL SPINDLE	3HP - 4P			
	TABLE FEED (LONG)	3/4HP - 4P			
	TABLE RAPID (VERTICAL)	1/2HP - 6P - 1/10			
	COOLANT PUMP	1/8HP - 2P			
SIZE	MACHINE (L X W X H)	1570 x 1230 x 1652			
	NET WEIGHT	1300KGS.	1350KGS.	1000KGS.	1000KGS.
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.					



STANDARD ACCESSORIES

1. COOLANT EQUIPMENT
2. LONG. GEAR BOX FEED
3. TABLE ELEVATING MOTOR
4. ADJUSTING TOOL AND TOOL BOX

OPTIONAL FUNCTIONS

1. TABLE SWIVEL 45° L&R (FOR H250)
2. VERTICAL HEAD ATTACHMENT