



松侑機械工業股份有限公司
PHOEBUS MACHINERY INC.

PBM-S500A



VERTICAL TURRET MILLING CE

PBM-S500A **STEP SPEED**



PBM-EVS500A **INVERTER VARI.** **SPEED**



SPECIFICATION :

UNIT: MM

ITEMS			PBM-S500A	PBM-EVS500A
TABLE	TABLE SIZE		1270x370 (1470x370 OPT.)	
	T-SLOT (WxNO.xPITCH)		18x3x80	
	MAX. TABLE LOAD (KGS)		450	
TRAVEL	XxYxZ-MANUAL		930x520x360	
	XxYxZ-AUTO		920x500x360	
FEED	LONG./MIN (50/60 HZ)		30-3000 VARI.	
	CROSS/MIN (50/60 HZ)		30-3000 VARI.	
	VERTICAL/MIN	50 HZ	960 (30-1150 VARI. OPT.) 1150 (30-1150 VARI. OPT.)	
		60 HZ		
VERTICAL SPINDLE	SPINDLE NOSE		NT 40	
	STEPS		16	INVERTER
	SPINDLE SPEED RPM	50 HZ	62-3000 75-3600	60-3600
		60 HZ		
	SWIVELLING ANGLE (R&L)		45°	
	QUILL TRAVEL		140	
	QUILL FEEDS/REV		0.035 / 0.07 / 0.14	
	SPINDLE NOSE TO TABLE		0-500	
	SPINDLE CENTER TO COLUMN		185-785	
CROSS TRAVEL OF RAM		500		
MOTOR	VERTICAL SPINDLE		5 HP	5 HP
	FEED X,Y AXES		AC SERVO 750W	
	FEED Z AXIS		1 HP (AC SERVO 850W OPT.)	
	COOLANT PUMP		1/8 HP	
SIZE	MACHINE (LxWxH)		1870x1700x2500	
	NET WEIGHT (KGS)		2250	2350
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.				

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.COOLANT EQUIPMENT
- 3.X, Y AXES SERVO MOTO
- 4.X, Y AXES BALL SCREW
- 5.VERTICAL HEAD AUTO LUBRICATION PUMP
- 6.SLIDE WAY AUTO LUBRICATION PUMP
- 7.TABLE ELEVATING MOTOR

OPTIONAL FUNCTIONS

- 1.TABLE SIZE 1470x370 (X AXIS TRAVEL +200)
- 2.Z AXIS SERVO MOTOR
- 3.AIR POWER DRAWBAR
- 4.DIGITAL READ OUT
- 5.WORKING LAMP
- 6.TAPPING DEVICE
- 7.TABLE SPLASH GUARD
- 8.TABLE HARDENED

PBM-S300A **STEP SPEED**



PBM-EVS300A **INVERTER VARI.** **SPEED**



SPECIFICATION :

UNIT: MM

ITEMS			PBM-S300A	PBM-EVS300A
TABLE	TABLE SIZE		1270x300 (1470x300 OPT.)	
	T SLOT (WxNO.xPITCH)		16x3x80	
	MAX. TABLE LOAD (KGS)		400	
TRAVEL	XxYxZ-MANUAL		930x390x450	
	XxYxZ-AUTO		920x370x450	
FEED	LONG./MIN	50 HZ	18-320(6 STEPS)	
		60 HZ	22-384(6 STEPS)	
	LONG. RAPID /MIN	50 HZ	1040	
		60 HZ	1250	
	CROSS/MIN (50/60 HZ)		50-2200 VARI.	
	VERTICAL/MIN	50 HZ	360	
60 HZ		430		
VERTICAL SPINDLE	SPINDLE NOSE		NT 40	
	STEPS		16	INVERTER
	SPINDLE SPEED RPM	50 HZ	62-3000	60-3600
		60 HZ	75-3600	
	SWIVELLING ANGLE (R&L)		45°	
	QUILL TRAVEL		140	
	QUILL FEEDS/REV		0.035 / 0.07 / 0.14	
	SPINDLE NOSE TO TABLE		20-470	
	SPINDLE CENTER TO COLUMN		130-550	
	CROSS TRAVEL OF RAM		420	
HORIZONTAL ROTATION OF RAM		360°		
MOTOR	VERTICAL SPINDLE		5 HP	5 HP
	TABLE FEED X AXES		3/4 HP	
	TABLE FEED Y AXES		1/2 HP	
	TABLE RAPID Z AXIS		1/4 HP	
	COOLANT PUMP		1/8 HP	
SIZE	MACHINE (LxWxH)		1740x1600x2400	
	NET WEIGHT (KGS)		1650	1750
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.				

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.COOLANT EQUIPMENT
- 3.X AXIS GEAR BOX FEED
- 4.Y AXIS INVERTER MOVE WITH BALL SCREW
- 5.TABLE ELEVATING MOTOR
- 6.VERTICAL HEAD AUTO LUBRICATION PUMP
- 7.SLIDE WAY AUTO LUBRICATION PUMP

OPTIONAL FUNCTIONS

- 1.TABLE SIZE 1470x300 (X AXIS TRAVEL +200)
- 2.X AXIS BALL SCREW WITH INVERTER MOVE
- 3.AIR POWER DRAWBAR
- 4.DIGITAL READ OUT
- 5.WORKING LAMP
- 6.X AXIS FEED MOTOR 1HP
- 7.TAPPING DEVICE
- 8.TABLE SPLASH GUARD
- 9.TABLE HARDENED

PBM-S300
STEP SPEED



PBM-EVS300
INVERTER VARI.
SPEED



SPECIFICATION :

UNIT: MM

ITEMS			PBM-S300	PBM-EVS300
TABLE	TABLE SIZE		1270x300 (1470x300 OPT.)	
	T SLOT (WxNO.xPITCH)		16x3x80	
	MAX. TABLE LOAD (KGS)		400	
TRAVEL	XxYxZ-MANUAL		930x350x450	
	XxYxZ-AUTO		920x370x450	
FEED	LONG./MIN	50 HZ	18-320(6 STEPS)	
		60 HZ	22-384(6 STEPS)	
	LONG. RAPID /MIN	50 HZ	1040	
		60 HZ	1250	
	VERTICAL/MIN	50 HZ	360	
		60 HZ	430	
VERTICAL SPINDLE	SPINDLE NOSE		NT 40	
	STEPS		10	INVERTER
	SPINDLE SPEED RPM	50 HZ	60-3000	60-3600
		60 HZ	70-3600	
	SWIVELLING ANGLE (R&L)		45°	
	QUILL TRAVEL		127	
	QUILL FEEDS/REV		0.04 / 0.08 / 0.15	
	SPINDLE NOSE TO TABLE		45-495	
	SPINDLE CENTER TO COLUMN		130-550	
	CROSS TRAVEL OF RAM		420	
HORIZONTAL ROTATION OF RAM		360°		
MOTOR	VERTICAL SPINDLE		5 HP	5 HP
	TABLE FEED X AXES		3/4 HP	
	TABLE RAPID Z AXIS		1/4 HP	
	COOLANT PUMP		1/8 HP	
SIZE	MACHINE (LxWxH)		1740x1540x2330	
	NET WEIGHT (KGS)		1650	1750

* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.COOLANT EQUIPMENT
- 3.X AXIS GEAR BOX FEED
- 4.TABLE ELEVATING MOTOR
- 5.SLIDE WAY AUTO LUBRICATION PUMP

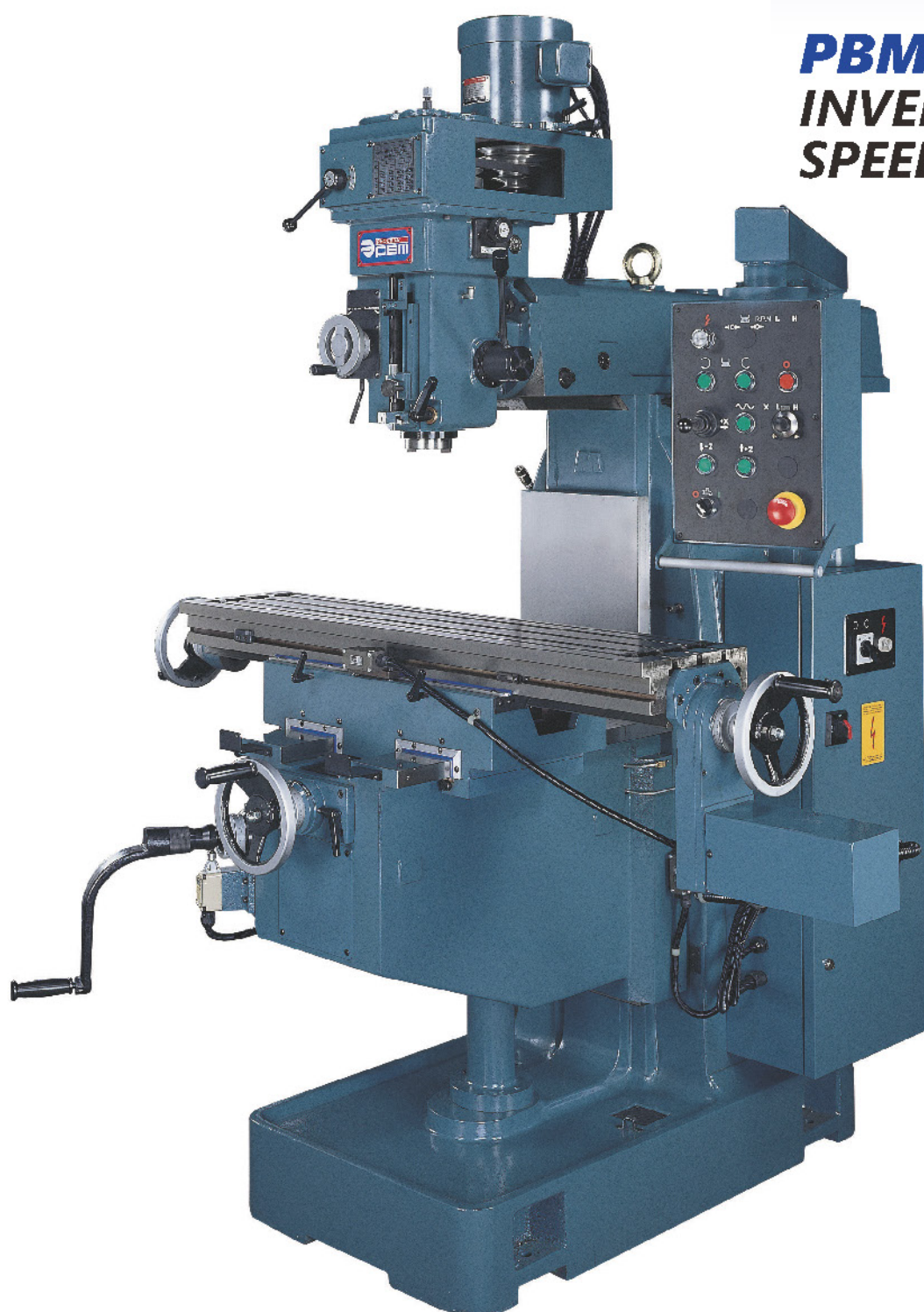
OPTIONAL FUNCTIONS

- 1.TABLE SIZE 1470x300 (X AXIS TRAVEL +200)
- 2.X,Y AXES BALL SCREW WITH INVERTER MOVE
- 3.X AXIS FEED MOTOR 1HP
- 4.X,Y AXES BALL SCREW MOVEMENT
- 5.AIR POWER DRAWBAR
- 6.DIGITAL READ OUT
- 7.WORKING LAMP
- 8.TAPPING DEVICE
- 9.TABLE SPLASH GUARD
- 10.TABLE HARDENED

PBM-S360A
STEP SPEED



PBM-EVS360A
INVERTER VARI.
SPEED



SPECIFICATION :

UNIT: MM

ITEMS			PBM-S360A	PBM-EVS360A
TABLE	TABLE SIZE		1200x280 (1270x370 OPT.)	
	T SLOT (WxNO.xPITCH)		16x3x65 (18x3x80 OPT.)	
	MAX. TABLE LOAD (KGS)		400	
TRAVEL	XxYxZ-MANUAL		700x360x360 (900x360x360 OPT.)	
FEED	X, Y		MANUAL	
	X, Y /MIN (50/60 HZ)		(30-3000 OPT.)	
	Z AXIS RAPID/MIN	50 HZ	960(30-1150 OPT.)	
		60 HZ	1150(30-1150 OPT.)	
VERTICAL SPINDLE	SPINDLE NOSE		NT 40	
	STEPS		16	INVERTER
	SPINDLE SPEED RPM	50 HZ	62-3000 75-3600	60-3600
		60 HZ		
	SWIVELLING ANGLE (R&L)		45°	
	QUILL TRAVEL		140	
	QUILL FEEDS/REV		0.035 / 0.07 / 0.14	
	SPINDLE NOSE TO TABLE		0-500	
	SPINDLE CENTER TO COLUMN		185-635	
CROSS TRAVEL OF RAM		450		
MOTOR	VERTICAL SPINDLE		5 HP	5 HP
	FEED X,Y AXES		(AC SERVO 750W OPT.)	
	FEED Z AXIS		1 HP (AC SERVO 850W OPT.)	
	COOLANT PUMP		1/8 HP	
SIZE	MACHINE (LxWxH)		1710x1560x2285	
	NET WEIGHT (KGS)		1900	2000
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.				

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.TABLE HARDENED AND GROUND
- 3.T SLOT EDGE GROUND
- 4.X, Y AXES BALL SCREW
- 5.X, Y AXES TURCITE B SLIDE WAY
- 6.VERTICAL HEAD AUTO LUBRICATION PUMP
- 7.SLIDE WAY AUTO LUBRICATION PUMP
- 8.TABLE ELEVATING MOTOR

OPTIONAL FUNCTIONS

- 1.TABLE SIZE 1270x370 (X AXIS TRAVEL +200)
- 2.COOLANT SYSTEM
- 3.AIR POWER DRAWBAR
- 4.DIGITAL READ OUT
- 5.WORKING LAMP
- 6.X, Y, Z AXES AC SERVO MOTOR
- 7.TAPPING DEVICE
- 8.TABLE SPLASH GUARD

PBM-5EVKA
INVERTER VARI.
SPEED



PBM-5KA
STEP SPEED



SPECIFICATION :

UNIT: MM

ITEMS			PBM-5KA	PBM-5EVKA
TABLE	TABLE SIZE		1370x254	
	T SLOT (WxNO.xPITCH)		16x3x63	
	MAX. TABLE LOAD (KGS)		350	
TRAVEL	XxYxZ-MANUAL		900x400x450	
	XxYxZ-AUTO		820x400x450	
FEED	VERTICAL/MIN	50 HZ	360	
		60 HZ	430	
VERTICAL SPINDLE	SPINDLE NOSE		NT 40	
	STEPS		16	INVERTER
	SPINDLE SPEED RPM	50 HZ	62-3000 75-3600	60-3600
		60 HZ		
	SWIVELLING ANGLE(R&L)		45°	
	QUILL TRAVEL		140	
	QUILL FEEDS/REV		0.035 / 0.07 / 0.14	
	SPINDLE NOSE TO TABLE		150-600	
	SPINDLE CENTER TO COLUMN		130-550	
	CROSS TRAVEL OF RAM		420	
HORIZONTAL ROTATION OF RAM		360°		
MOTOR	VERTICAL SPINDLE		5 HP	5 HP
	TABLE RAPID Z AXIS		1/2 HP	
	COOLANT PUMP		1/8 HP	
SIZE	MACHINE (LxWxH)		1900x1500x2400	
	NET WEIGHT (KGS)		1600	1700
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.				

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.X, Y AXES TURCITE B
- 3.X, Y AXES BALL SCREW
- 4.SLIDE WAY AUTO LUBRICATION PUMP
- 5.VERTICAL HEAD AUTO LUBRICATION PUMP
- 6.TABLE ELEVATING MOTOR
- 7.FRONT AND REAR CHIP COVER
- 8.COOLANT EQUIPMENT

OPTIONAL FUNCTIONS

- 1.X, Y AXES POWER FEED UNIT
- 2.AIR POWER DRAWBAR
- 3.DIGITAL READ OUT
- 4.WORKING LAMP
- 5.TAPPING DEVICE
- 6.TABLE SPLASH GUARD

PBM-5EVS
INVERTER VARI.
SPEED



PBM-5K
STEP SPEED



SPECIFICATION :

UNIT: MM

ITEMS			PBM-5K	PBM-5EVS
TABLE	TABLE SIZE		1270x254 (1370x254 OPT.)	
	T SLOT (WxNO.xPITCH)		16x3x63	
	MAX. TABLE LOAD (KGS)		300	
TRAVEL	XxYxZ-MANUAL		775x400x450	
	XxYxZ-AUTO		700x400x450	
FEED	VERTICAL/MIN	50 HZ	360	
		60 HZ	430	
VERTICAL SPINDLE	SPINDLE NOSE		NT 40	
	STEPS		10	INVERTER
	SPINDLE SPEED RPM	50 HZ	60-3000 70-3600	60-3600
		60 HZ		
	SWIVELLING ANGLE (R&L)		45°	
	QUILL TRAVEL		127	
	QUILL FEEDS/REV		0.04 / 0.08 / 0.15	
	SPINDLE NOSE TO TABLE		55-505	
	SPINDLE CENTER TO COLUMN		130-550	
	CROSS TRAVEL OF RAM		420	
HORIZONTAL ROTATION OF RAM		360°		
MOTOR	VERTICAL SPINDLE		5 HP	5 HP
	TABLE RAPID Z AXIS		1/2 HP	
	COOLANT PUMP		1/8 HP	
SIZE	MACHINE (LxWxH)		1480x1435x2330	
	NET WEIGHT (KGS)		1500	1600
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.				

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.COOLANT EQUIPMENT
- 3.TABLE ELEVATING MOTOR
- 4.SLIDE WAY AUTO LUBRICATION PUMP
- 5.ELECTRIC WITH CONTROL BOX

OPTIONAL FUNCTIONS

- 1.TABLE SIZE 1370x254 (X AXIS TRAVEL +100)
- 2.X, Y AXES POWER FEED UNIT
- 3.AIR POWER DRAWBAR
- 4.DIGITAL READ OUT
- 5.WORKING LAMP
- 6.TAPPING DEVICE
- 7.TABLE SPLASH GUARD

PBM-2S
STEP SPEED



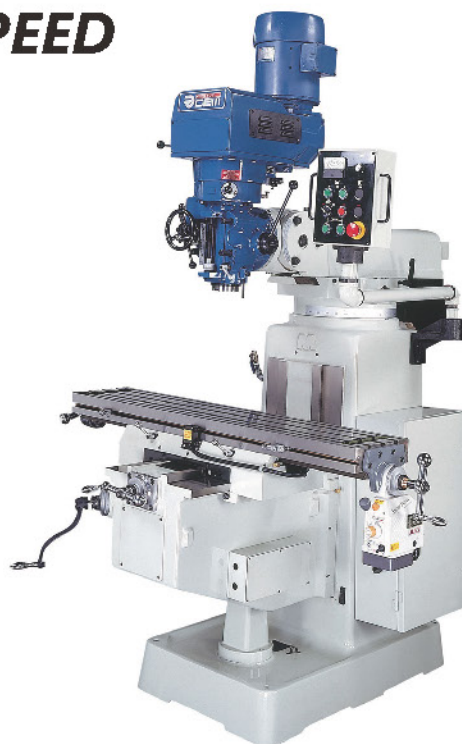
PBM-2EVS
INVERTER VARI.
SPEED



PBM-4S
STEP SPEED



PBM-4EVS
INVERTER VARI.
SPEED



SPECIFICATION :
UNIT: MM

ITEMS			PBM-2S	PBM-2EVS	PBM-4S	PBM-4EVS
TABLE	TABLE SIZE		1067x230		1270x254	
	T SLOT (WxNO.xPITCH)		16x3x63			
	MAX. TABLE LOAD (KGS)		250		300	
TRAVEL	XxYxZ-MANUAL		720x330x406		775x380x395	
	XxYxZ-AUTO		630x310x395		700x360x375	
VERTICAL SPINDLE	SPINDLE NOSE		R8 / NT 30			
	STEPS		8	INVERTER	8	INVERTER
	SPINDLE SPEED RPM	50 HZ	66-2265	60-3600	66-2265	60-3600
		60 HZ	80-2720		80-2720	
	SWIVELLING ANGLE (R&L, F&B)		45°			
	QUILL TRAVEL		127			
	QUILL FEEDS/REV		0.04 / 0.08 / 0.15			
	SPINDLE NOSE TO TABLE		55-461		45-440	
	SPINDLE CENTER TO COLUMN		145-525		200-680	
	CROSS TRAVEL OF RAM		380		480	
HORIZONTAL ROTATION OF RAM		360°				
MOTOR	VERTICAL SPINDLE		2HP	3HP	3HP	
	COOLANT PUMP		(1/8HP OPT.)			
SIZE	MACHINE (LxWxH)		1400x1450x2100		1500x1500x2200	
	NET WEIGHT (KGS)		900		1150	
* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.						

STANDARD ACCESSORIES

- 1.TOOL AND TOOL BOX
- 2.ONE SHOT LUBRICATION
- 3.CHIP COVER FRONT AND REAR
- 4.SADDLE SIZE: 650 LENGTH(4S, 4EVS)
- 5.X, Y AXES TURCITE B SLIDE WAY(4S, 4EVS)
- 6.ELECTRIC WITH CONTROL BOX
(2EVS, 4EVS)

OPTIONAL FUNCTIONS

- 1.TABLE SIZE 1245x230 (2S,2EVS,X TRAVEL +130)
- 2.TABLE SIZE 1370x254 (4S,4EVS,X TRAVEL +100)
- 3.X, Y AXES POWER FEED UNIT
- 4.COOLANT EQUIPMENTS
- 5.ELECTRIC WITH CONTROL BOX (2S, 4S)
- 6.TABLE ELEVATING MOTOR (4S, 4EVS,1/4 HP)
- 7.SPINDLE NT40 WITH 5HP MOTOR, 10 STEPS (4S, 4EVS)
- 8.AIR POWER DRAWBAR
- 9.DIGITAL READ OUT
- 10.WORKING LAMP
- 11.Z AXIS SQUARE SLIDE WAY(4S, 4EVS)
- 12.TAPPING DEVICE
- 13.TABLE SPLASH GUARD



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