

# VERTICAL KNEE TYPE MILLING MACHINE

**SM-4AL**





**Head movement (Z axis) by program control**

## SPECIFICATION

ITEMS		SM-4AL
TABLE	TABLE SIZE	1500 x 305 mm
	T SLOT (WxNO.xPITCH)	16 x 3 x 71 mm
TRAVEL	XxYxZ-MANUAL	1000 x 380 x 403 mm
FEED	LONG.	5 M/min
	CROSS m	5 M/min
	VERTICAL ( Head )	5 M/min
SPINDLE	SPINDLE NOSE	ISO 40
	SPINDLE SPEED	70 - 4200 RPM
	QUILL TRAVEL	140 mm
	QUILL FEEDS/REV	0.035/0.07/0.14 mm
	HEAD TRAVEL	100 mm
MOTOR	SPINDLE	5HP - Inverter
	X AXES	750w servo motor
	Y AXES	750w servo motor
	Z AXIS ( Head )	1.5kw servo motor
	Z AXIS ( Knee )	1/2HP
	COOLANT PUMP	1/8HP
SIZE	MACHINE (LxWxH)	2250 x 2400 x 2500 mm
	NET WEIGHT	1900 kgs

\* SPECIFICATIONS MAY BE CHANGED OR IMPROVED WITHOUT NOTICE.

# VERTICAL AND HORIZONTAL MILLING MACHINE

**SM-300AH**



**SPECIFICATION**

<b>ITEMS</b>		<b>SM-300AH</b>
<b>TABLE</b>	<b>TABLE SIZE</b>	<b>1270x300 (1470x300 OPT.) mm</b>
	<b>T SLOT (WxNO.xPITCH)</b>	<b>1 6x 3 x 80 mm</b>
	<b>X x Y x Z</b>	<b>920 x 380 x 450 mm</b>
<b>FEED</b>	<b>LONG.</b>	<b>18-320 M/min</b>
	<b>CROSS</b>	<b>50-2200 M/min</b>
	<b>VERTICAL</b>	<b>360 M/min</b>
<b>VERTICAL SPINDLE</b>	<b>SPINDLE NOSE</b>	<b>N.S.T 40</b>
	<b>SPINDLE SPEED</b>	<b>70 - 4000 RPM</b>
	<b>SWIVELLING ANGLE</b>	<b>45° (R&amp;L)</b>
	<b>QUILL TRAVEL</b>	<b>140</b>
	<b>QUILL FEEDS/REV</b>	<b>0.035 / 0.07 / 0.14 mm</b>
	<b>SPINDLE NOSE TO TABLE</b>	<b>95 - 545 mm</b>
	<b>SPINDLE CENTER TO COLUMN</b>	<b>190 – 690 mm</b>
	<b>CROSS TRAVEL OF RAM</b>	<b>500 mm</b>
<b>HORIZONTAL SPINDLE</b>	<b>SPINDLE NOSE</b>	<b>N.S.T 40</b>
	<b>SPINDLE SPEED RPM</b>	<b>60-1440 (50 HZ) 65-1500 (60 HZ)</b>
	<b>STEPS</b>	<b>9</b>
	<b>SPINDLE TO BOTTOM OF RAM</b>	<b>175 mm</b>
	<b>SPINDLE CENTER TO TABLE</b>	<b>0 – 450 mm</b>
<b>MOTOR</b>	<b>VERTICAL SPINDLE</b>	<b>5HP - Inverter</b>
	<b>HORIZONTAL SPINDLE</b>	<b>5HP</b>
	<b>TABLE FEED X AXES</b>	<b>750w servo motor</b>
	<b>TABLE FEED Y AXES</b>	<b>750w servo motor</b>
	<b>TABLE RAPID Z AXIS</b>	<b>1kw servo motor</b>
	<b>COOLANT PUMP</b>	<b>1/8HP</b>
<b>SIZE</b>	<b>MACHINE (LxWxH)</b>	<b>1740 x 1614 x 2007 mm</b>
	<b>NET WEIGHT (KGS)</b>	<b>2550</b>

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# MINI BED TYPE MILLING MACHINE



**SM 450H**

**SM-450H**

## SPECIFICATION

ITEMS		SM-450H	SM-650H
TABLE	TABLE SIZE	550 x 400 mm	700 x 450 mm
	T SLOT (WxNO.xPITCH)	14 x 3 x 100 mm	14 x 3 x 100 mm
	TABLE LOAD	90 kgs	90 kgs
TRAVEL	XxYxZ-MANUAL	450 x 400 x 400 mm	650 x 450 x 550 mm
FEED	LONG.	5 M/min	5 M/min
	CROSS m	5 M/min	5 M/min
	VERTICAL ( Head )	5 M/min	5 M/min
SPINDLE	SPINDLE NOSE	BT 40	BT 40
	SPINDLE SPEED	60 - 8000 RPM	60 - 8000 RPM
BALL SCREW	X x Y x Z	Ø 30 mm	Ø 30 mm
LINEAR GUIDE WAY	X x Y x Z	32 mm	32 mm
MOTOR	SPINDLE	5HP - Inverter	5HP - Inverter
	X x Y x Z	1kw servo motor	1kw servo motor
	COOLANT PUMP	1/8HP	1/8HP
SIZE	MACHINE (LxWxH)		
	NET WEIGHT	1100 kgs	1200 kgs

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