



# KING-PRO

MACHINERY & EQUIPMENTS CO.,LTD.

## Vertical Milling Machine

YSM-20A/20B series



CE



## YSM-20A SERIES



### Mechanical Feature:

Spindle head adopts full gear design to provide highly efficient cutting rigidity.

The spindle material is made by molybdenum steel (SCM21). Then we will continue few steps, such as carburizing heat treatment, precision grinding, with P4 grade bearings to matched the high quality of accuracy and stability.

Our Z-axis come with fast delivery motor,(1150mm/min) not only it can save processing time course, but also improve processing efficiency.

The main casting part is made of meehanite casting(FC30), and machine body come with square design. The rigidity is excellent, illustrating brilliant stability and rigidity.

X / Y axis are using pre-loaded with double nuts C5 class precision ball screw, which is designed to maintain smooth during the drive, then with the best positioning control and low backlash.

The spindle motor provides variable(inverter motor) or steps speed; max speed 3600 RPM can meet different processing conditions then improve production efficiency.

Optional: With servo motor mechanism can shorten the customer processing time, improve processing efficiency.

10 STEPS	
60HZ	75-125-195-280-420-650-1050-1610-2360-3500(RPM)
50HZ	60-100-160-230-350-530-860-1320-1940-2870 (RPM)

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X / Y axis are using pre-loaded with double nuts C5 class precision ball screw, which is designed to maintain smooth during the drive, then with the best positioning control and low backlash.

X/Y/Z axis using automatic feed system, not only it can save processing time course, but also improve processing efficiency.

The spindle motor provides variable or steps speed; max speed 3600 RPM can meet different processing conditions then improve production efficiency.

10 STEPS	
60HZ	75-125-195-280-420-650-1050-1610-2360-3500(RPM)
50HZ	60-100-160-230-350-530-860-1320-1940-2870 (RPM)

## YSM-20B SERIES





## SPECIFICATIONS

Model	Unit	YSM-20AC/20AS		YSM-20BC/20BS	
<b>Travel</b>					
Longitudinal travel (M./A.)	mm	670/670(26.38"/26.38")		1000/1000(39.37"/39.37")	
Cross travel (M./A.)	mm	440(17.32")		420(16.53")	
Vertical travel (M./A.)	mm	460(18.11")		400(15.75")	
Slide X/Y/Z	type	△ / □ / □		△ / □ / □	
Quill travel	mm	140(5.51")		140(5.51")	
Overarm travel	mm	570(22.44")		570(22.44")	
Overarm swivel	degree	Fixed		Fixed	
Quill swivel (R&L)	degree	±45		±45	
Quill swivel (F&B)	degree	Fixed		Fixed	
Dist. from spindle nose to table	mm	100-560(3.94"-22.05")		100-500(3.94"-19.68")	
Spindle centerline to column	mm	185-755(7.28"-29.72")		185-755(7.28"-29.72")	
<b>Table</b>					
Dimension	mm	1270x254(50"x10")		1370x300(54"x12")	
T-slots (Width x No. x Pitch)	mm	16x3x63(0.63"x3x2.48")		16x3x70(0.63"x3x2.75")	
Max. table load	kg	250		300	
<b>Spindle</b>					
Milling head (Belt driven)	type	Variable(Inverter)	10 Steps	Variable(Inverter)	10 Steps
speed	60Hz	rpm	75-3500	55-3600	75-3500
	50Hz	rpm	60-2870	55-3600	60-2870
Vertical feeds	mm/rev	0.04/0.08/0.15			
Taper	type	NT 40			
<b>Motor</b>					
Main spindle	HP	5		5	
X/Y/Z axis traverse	HP			1/1/1	
Coolant pump	HP	1/8		1/8	
<b>Feedrate</b>					
X speed	mm/min			0-1800(0-70.86")	
Z speed	mm/min			0-1800(0-70.86")	
Elevation speed	mm/min	1150(45.27")		1150(45.27")	
<b>Machine</b>					
Space(L x W x H)	mm	2240x2470x2420(88"x97"x95")		2240x3100x2420(88"x97"x95")	
Packing dimension(L x W x H)	mm	1730x1770x2000(68"x70"x79")		1730x2280x2000(68"x90"x79")	
Net Weight	kg	1750		2000	
Gross Weight	kg	1900		2200	

## STANDARD & OPTIONAL ACCESSORIES

### YSM-20A SERIES

#### Standard accessories

Draw bar	Working lamp
Tool box and tools	Z Axis Rapid up/down
Tapping equipment of spindle	Deluxe type Electric box
Chip cover on Y axis	X/Y axis Ball screw
Automatic lubrication system	

#### Optional accessories

Coolant tray	1370x254mm table
Digital readout ( DRO)	Coolant system
Power feed (X/Y)	Plate
Gear box (X/Y)	Angle lock vise6"(150mm)
Servo feed (X/Y)	NT 40 Fixture (7PCS)
Draw bar(pneumatic)	

### YSM-20B SERIES

#### Standard accessories

Draw bar	Working lamp
Tool box and tools	X/Y Servo motor
Tapping equipment of spindle	Z Axis Rapid up/down
Back chip cover on Y axis	Deluxe type Electric box
Front chip cover on Y axis	X/Y axis Ball screw
Automatic lubrication system	Coolant system and tray

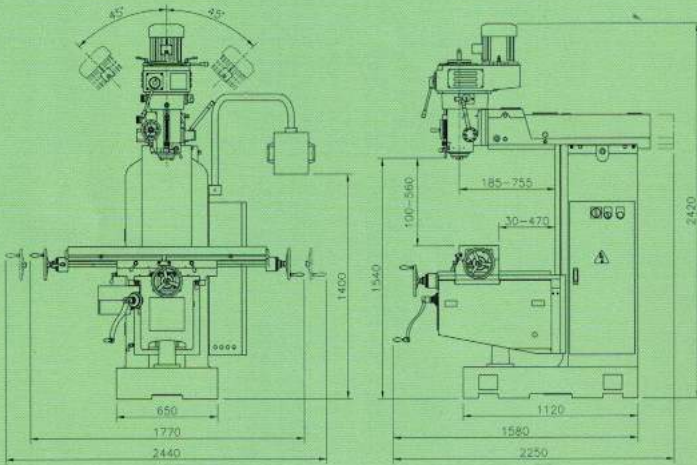
#### Optional accessories

Digital readout ( DRO)	Angle lock vise6"(150mm)
Draw bar(pneumatic)	NT 40 Fixture (7PCS)
Plate	

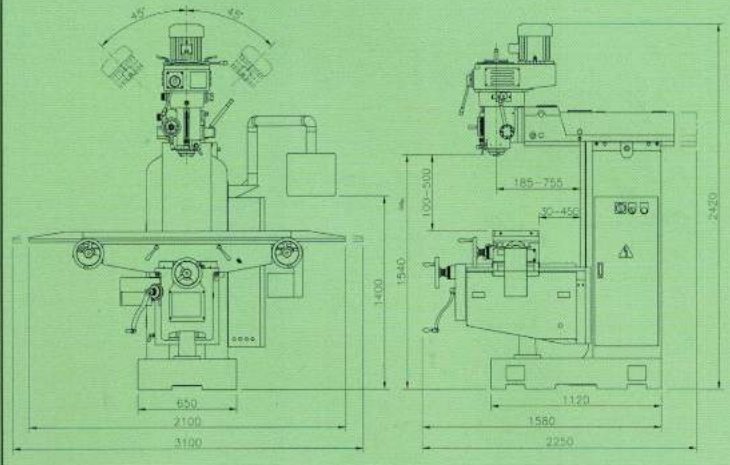


# MECHANICAL DIMENSION

## YSM-20A SERIES



## YSM-20B SERIES



All specifications, dimensions and design characteristics are subject to change without previous notice .



# KING-PRO

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