



# **YING SHUN**

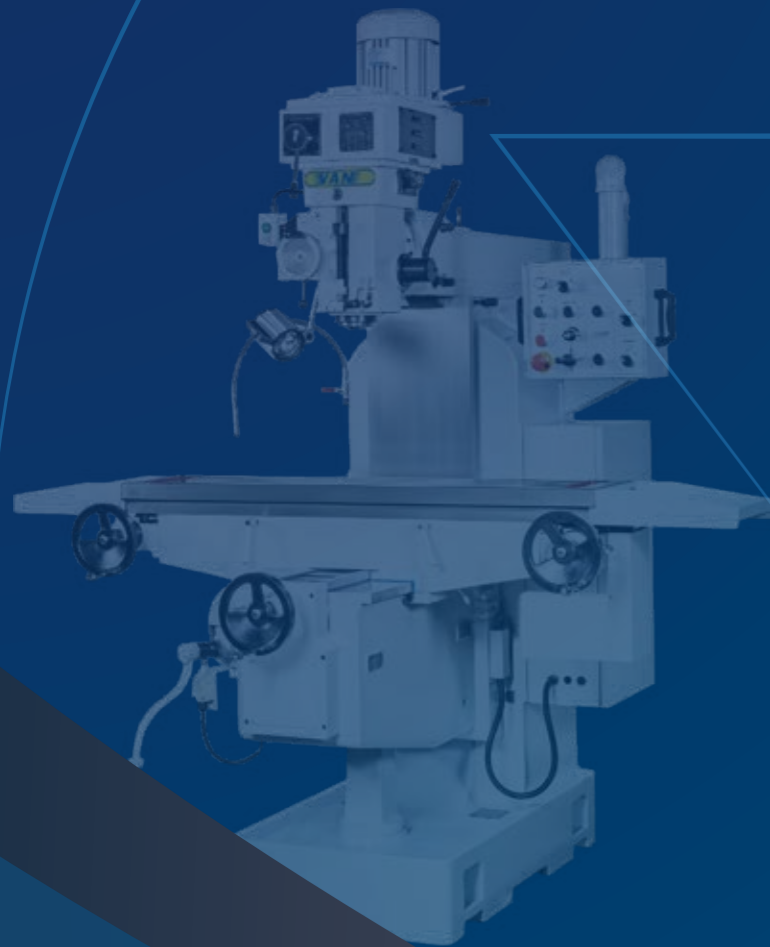
**MACHINERY INDUSTRY CO.,LTD**

*VERTICAL TURRET MILLING MACHINE  
YSM-15/16/18/B60/20A/20B SERIES*

*VERTICAL-HORIZONTAL MILLING MACHINE  
YSM-26/2B SERIES*

*BED TYPE MILLING MACHINE  
YSM-VB600A SERIES*

*CNC BED TYPE MILLING MACHINE  
YSM-VB600S SERIES*



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All specification, dimension and design characteristics shown in this catalogue are subject to change without notice.



# Company Profile

Founded in 1991, YING SHUN (Brand : VAN) machine tools is a professional milling machine manufacturer. We have been recognized world-wide for superior precision, outstanding rigidity and exceptional reliability.

In order to extend business scope, improve the product quality, upgrade technology and sustainable operation, we moved our factory to Houli Dist in 2016.

With over 30 years of milling machine tool manufacturing experience, VAN has established a strong foundation in the field of milling machinery. Offering professional, reliable, high quality products and services to the market are our commitment. We have full confidence that we will meet all your requirements.



**YING SHUN**

## History

- 1991** Developed YSM-15/16 series
- 1996** Developed YSM-18 series
- 2000** Developed YSM-860 series
- 2011** Developed YSM-26 series
- 2016** Factory Relocation to houli Dist, Taichung
- 2017** Developed YSM-20A/B series
- 2017** Developed YSM-28 series
- 2018** Developed YSM-VB600A/S series



# YSM-15 SERIES

## MECHANICAL FEATURE

- The main casting part is made of meehanite casting.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The speed drive up to 4560rpm/50Hz then can meet different processing conditions.
- Used type A belt drive.
- Hardened and ground X,Y axes slideway.
- Turcite-B coated on X Y ways.
- Dovetail slideway.

8 Steps		
60HZ		80-135-210-325-600-1115-1750-2720RPM
50HZ		68-115-185-285-400-910-1500-2280RPM
16 Steps		
50HZ	2P	136-230-370-570-1080-1820-3000-4560RPM
	4P	68-115-185-285-400-910-1500-2280RPM



## SPECIFICATIONS

Model	Unit	YSM-15VS/SS/VC	YSM-16VS/SS/VC
<b>Travel</b>			
Longitudinal travel (M./A.)	mm	700/650(27.56"/25.59")	850/750(33.46"/29.53")
Cross travel (M./A.)	mm	360(14.17")	426(16.77")
Vertical travel (M./A.)	mm	400(15.74")	400(15.74")
Slideway X/Y/Z	type	△ / △ / △	△ / □ / △
Quill travel	mm	127(5")	127(5")
Overarm travel	mm	457(18")	560(22")
Overarm swivel	degree	360	360
Quill swivel (R&L)/(F&B)	degree	±45/±45	±45/±45(Opt. Fixed)
Dist. from spindle nose to table	mm	50-450(1.96"-17.7")	50-450(1.96"-17.7")
Spindle centerline to column	mm	45-502(1.77"-19.76")	60-620(2.36"-24.4")

<b>Table</b>			
Dimension	mm	1067x230(42"x9")	1270x254(50"x10")
T-slots (Width x No. x Pitch)	mm	16x3x63(0.63"x3x2.48")	16x3x63(0.63"x3x2.48")
Max. table load	kg	200	250

<b>Spindle</b>			
Milling head	type	Variable    8/16Steps    Inverter	Variable    8/16Steps    Inverter
Speed	60HZ	rpm 80-2720(8)	rpm 66-2700(8)
	50HZ	rpm 50-3500 68-2280(8) 55-3600 68-4560(16)	rpm 50-3500 68-2280(8) 55-3600 68-4560(16)
Quill Diameter	mm	85	85
Vertical feeds	mm/rev	0.04/0.08/0.15	0.04/0.08/0.15
Taper	type	NT30 / R8 (Opt.NT40)	NT30 / R8 (Opt.NT40)

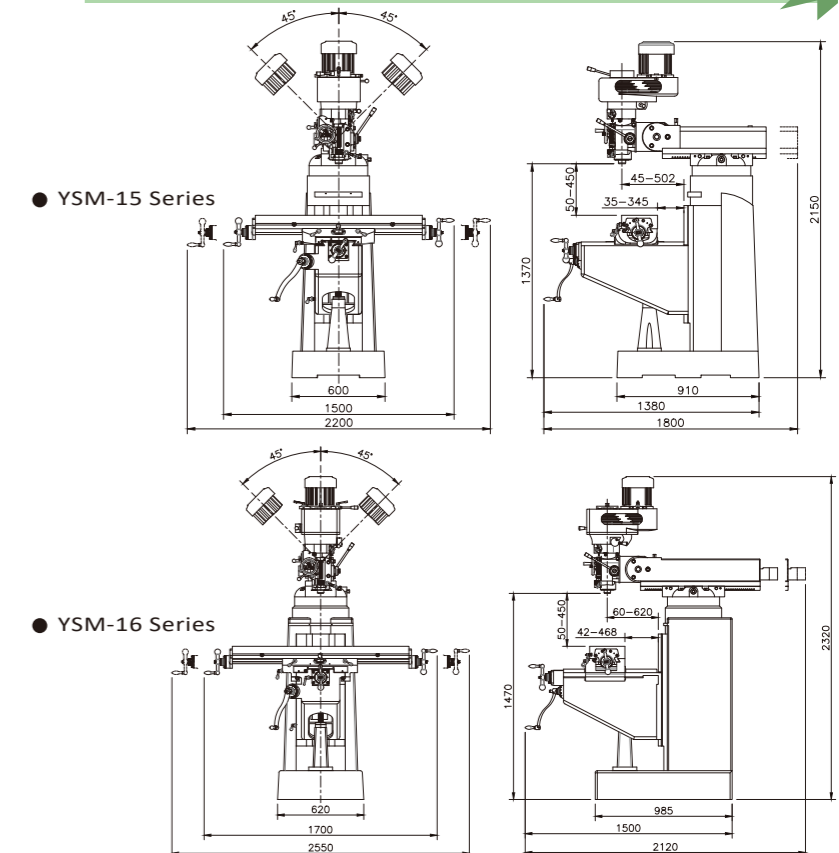
<b>Motor</b>			
Main spindle	HP	2 / 2 / 5	3 / 3 / 5

<b>Machine</b>			
Space(L x W x H)	mm	1800x2200x2150(71"x87"x85")	2120x2550x2320(83"x100"x91")
Packing dimension(L x W x H)	mm	1480x1600x1810(59"x63"x72")	1660x1800x1910(66"x71"x76")
Net Weight	kg	900	1100
Gross Weight	kg	1050	1250

## ACCESSORIES

- ▶ **Standard accessories**
  - Draw bar
  - Tool box and tools
  - Chip cover on Y axis
  - Manual lubrication system
- ▶ **Optional accessories**
  - Chip tray
  - Digital readout ( DRO)
  - Working lamp
  - Auto lubrication system
  - Power feed (X/Y/Z)
  - Gear box(X/Y)
  - Servo feed(X/Y)
  - Z Axis Rapid up/down
  - Draw bar(pneumatic)
  - Electric box (simple / general / deluxe)
  - Coolant system(Pump 1/8HP)
  - Ball screw (X/Y)
  - 100/150/200mm(4"/6"8")riser block
  - 1245x230mm(49"x9")table (YSM-15 )
  - 1370x254mm(54"x10")table (YSM-16 )

## MECHANICAL DIMENSION



# YSM-16 SERIES

## MECHANICAL FEATURE

- The main casting part is made of meehanite casting.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The speed drive up to 4560rpm/50Hz then can meet different processing conditions.
- Patented special quick shift mechanism can be change at one go, reduce the risk of mistakes and increases the life.
- Used type B belt drive.
- Hardened and ground X,Y axes slideway ; Turcite-B coated on X Y ways.
- Unique Y axis anti-slip fixing lock .
- Square way design on Y.

8 Steps		
60HZ		66-120-195-320-570-1040-1680-2700RPM
50HZ		68-115-185-285-400-910-1500-2280RPM
16 Steps		
50HZ	2P	136-230-370-570-1080-1820-3000-4560RPM
	4P	68-115-185-285-400-910-1500-2280RPM





# YSM-18 SERIES

## MECHANICAL FEATURE

- The main casting part is made of meehanite casting.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- Patented special quick shift mechanism can be change at one go, reduce the risk of mistakes and increases the life.
- Used type B belt drive.
- Hardened and ground X,Y,Z axes slideway.
- Turcite-B coated on X Y ways.
- Square way design on Y and column slideway.

10 Steps		
60HZ	70-125-190-285-420-600-1025-1530-2200-3350RPM	
50HZ	58-110-165-240-360-500-870-1290-1900-2780 RPM	
20 Steps		
50HZ	2P	116-220-330-480-720-1000-1740-2580-3800-5560RPM
	4P	58-110-165-240-360-500-870-1290-1900-2780 RPM

# YSM-B60 SERIES

## MECHANICAL FEATURE

- The main casting part is made of meehanite casting.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The speed drive up to 5560rpm/50Hz then can meet different processing conditions.
- Patented special quick shift mechanism can be change at one go, reduce the risk of mistakes and increases the life.
- Used type B belt drive.
- Hardened and ground X,Y,Z axes slideway.
- Turcite-B coated on X Y ways.
- Unique Y axis anti-slip fixing lock.
- X/Y axis are using precision ball screw.
- Square way design on Y and column slideway.

10 Steps		
60HZ	70-125-190-285-420-600-1025-1530-2200-3350RPM	
50HZ	58-110-165-240-360-500-870-1290-1900-2780 RPM	
20 Steps		
50HZ	2P	116-220-330-480-720-1000-1740-2580-3800-5560RPM
	4P	58-110-165-240-360-500-870-1290-1900-2780 RPM



## SPECIFICATIONS

Model	Unit	YSM-18VS/SS/VC	YSM-860V/S/C
<b>Travel</b>			
Longitudinal travel (M./A.)	mm	800/700(31.5"/27.56")	860(33.86")
Cross travel (M./A.)	mm	426(16.77")	400(15.74")
Vertical travel (M./A.)	mm	470(18.5")	470(18.5")
Slideway X/Y/Z	type	△ / □ / □	△ / □ / □
Quill travel	mm	140(5.51")	140(5.51")
Overarm travel	mm	540(21.26")	540(21.26")
Overarm swivel	degree	360	360
Quill swivel (R&L)(F&B)	degree	±45/Fixed(Opt.±45)	±45/Fixed(Opt.±45)
Dist. from spindle nose to table	mm	90-560(3.54"-22.05")	20-490(0"-19.29")
Spindle centerline to column	mm	85-625(3.34"-24.6")	85-625(3.34"-24.6")

<b>Table</b>			
Dimension	mm	1270x254(50"x10")	1270x300(50"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	type	Variable    10/20Steps    Inverter	Variable    10/20Steps    Inverter
Speed	60HZ	rpm	70-3350(10)
	50HZ	rpm	50-3500
Speed	50HZ	rpm	58-2780(10) 55-3600
	50HZ	rpm	58-5560(20) 58-5560(20)
Quill Diameter	mm	105	105
Vertical feeds	mm/rev	0.04/0.08/0.15	0.04/0.08/0.15
Taper	type	NT 40	NT 40

<b>Motor</b>			
Main spindle	HP	5	5
X-axis traverse	HP	X	1/2
Z-axis elevation	HP	1/2	1/2

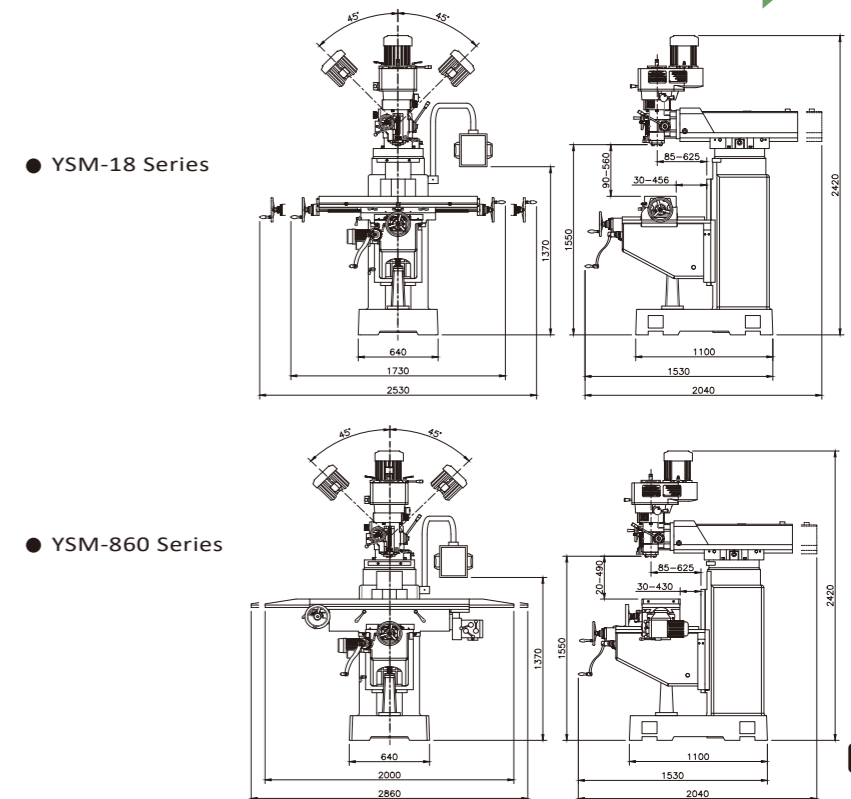
<b>Feedrate</b>			
X-axis speed	mm/min	X	30-1300(1.2"-51.1")(9 Steps)
Z-axis speed	mm/min	345(13.58")	345(13.58")

<b>Machine</b>			
Space(L x W x H)	mm	2040x2530x2420(76"x100"x96")	2040x2860x2420(76"x113"x96")
Packing dimension(L x W x H)	mm	1620x1830x1960(64"x73"x78")	1620x2100x1960(64"x83"x78")
Net Weight	kg	1500	1700
Gross Weight	kg	1650	1900

## ACCESSORIES

- ▶ **Standard accessories**
  - Draw bar
  - Tool box and tools
  - Chip cover on Y axis
  - Auto lubrication system
  - Working lamp
  - Z Axis Rapid up/down
  - Deluxe type operation panel
  - Electric box
  - X axis Gear box (YSM-860 series)
  - X/Y axis Ball screw (YSM-860 series)
- ▶ **Optional accessories**
  - Chip tray
  - Digital readout ( DRO)
  - Adjustable auto lubrication system
  - Power feed (X/Y)
  - Gear box(X/Y)
  - Servo feed(X/Y)
  - Draw bar(pneumatic)
  - Coolant system(Pump 1/8HP)
  - Ball screw (X/Y)
  - 100/150/200mm(4"/6"/8")riser block
  - 1370x254mm(54"x10") table(YSM-18)
  - 1370x300mm(54"x12") table(YSM-860)

## MECHANICAL DIMENSION



# YSM-20A SERIES

## MECHANICAL FEATURE

- FC30 are materialized on machine frame structure. All frames are compulsorily by tempering treatment to reduce the inner stress.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- Designed with an automatic forced lubrication system oil level indicator for the ground gears, clutch, and bearings inside the milling head, ensuring long service life of the head parts.
- The tilting angle is 45 degrees. Double screw locking device makes the head tighten securely and release conveniently.
- The X and Y axis feeds are driven by a high precision C5 class preloaded, double nut ball screw then ensuring the transmission quality –small backlash & fine positioning.

10 Steps	
60HZ	75-125-195-280-420-600-1050-1610-2360-3500RPM
50HZ	60-100-160-230-350-530-860-1320-1940-2870 RPM



# YSM-20B SERIES

## MECHANICAL FEATURE

- FC30 are materialized on machine frame structure. All frames are compulsorily by tempering treatment to reduce the inner stress.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- Designed with an automatic forced lubrication system oil level indicator for the ground gears, clutch, and bearings inside the milling head, ensuring long service life of the head parts.
- The tilting angle is 45 degrees. Double screw locking device makes the head tighten securely and release conveniently.
- The X and Y axis feeds are driven by a high precision C5 class preloaded, double nut ball screw then ensuring the transmission quality –small backlash & fine positioning.
- The X/Y axis is use servo motor with standard accessories.

10 Steps	
60HZ	75-125-195-280-420-600-1050-1610-2360-3500RPM
50HZ	60-100-160-230-350-530-860-1320-1940-2870 RPM

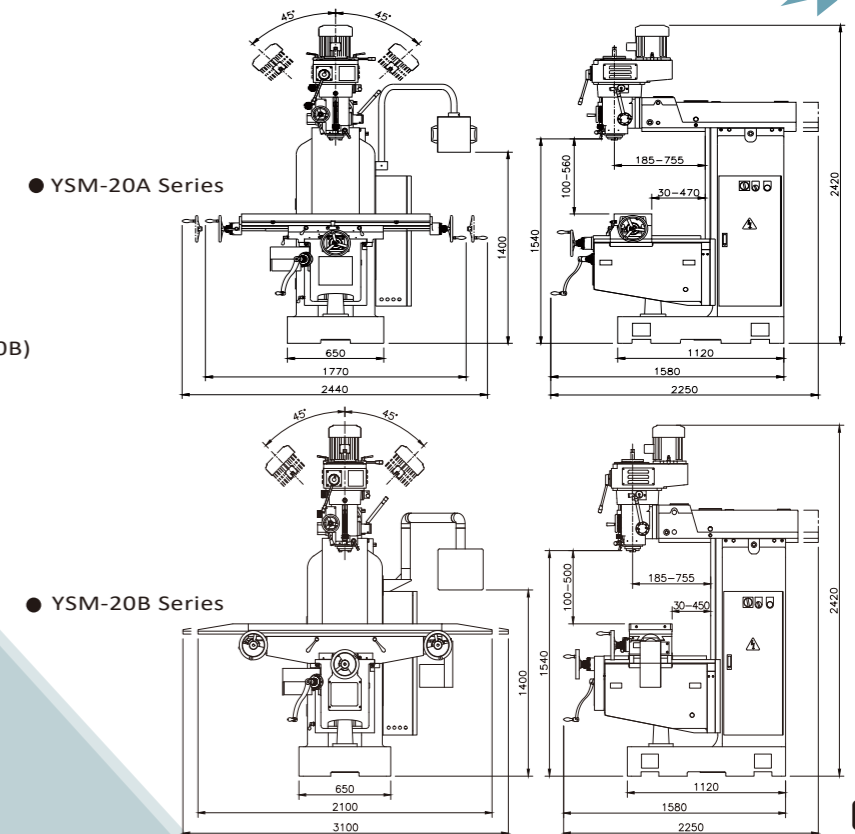
## SPECIFICATIONS

Model	Unit	YSM-20AS/AC	YSM-20BS/BC
<b>Travel</b>			
Longitudinal travel (M./A.)	mm	670(26.38")	1000(39.37")
Cross travel (M./A.)	mm	440(17.32")	420(16.53")
Vertical travel (M./A.)	mm	460(18.11")	400(15.75")
Slideway 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)(F&B)	degree	±45/Fixed	±45/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	type	10 Steps / Inverter	10 Steps / Inverter
Speed	60HZ	75-3500	75-3500
	50HZ	60-2870	60-2870
Quill Diameter	mm	110	110
Vertical feeds	mm/rev	0.04/0.08/0.15	0.04/0.08/0.15
Taper	type	NT 40	NT 40
<b>Motor</b>			
Main spindle	HP	5	5
X/Y-axis traverse	HP	X	1/1
Z-axis elevation	HP	1	1
<b>Feedrate</b>			
X-axis speed	mm/min	X	0-1800(0-70.86")
Y-axis speed	mm/min	X	0-1800(0-70.86")
Z-axis speed	mm/min	1150(45.27")	1150(45.27")
<b>Machine</b>			
Space(L x W x H)	mm	2250x2440x2420(89"x96"x95")	2250x3100x2420(89"x97"x95")
Packing dimension(L x W x H)	mm	1770x1870x2040(70"x74"x81")	1770x2200x2040(70"x87"x81")
Net Weight	kg	1750	2000
Gross Weight	kg	1900	2200

## ACCESSORIES

- ▶ Standard accessories
  - Draw bar
  - Tool box and tools
  - Tapping equipment of spindle
  - Back chip cover on Y axis
  - Auto lubrication system
  - Working lamp
  - Z Axis Rapid up/down
  - Deluxe type operation panel
  - Electric box
  - X/Y axis Ball screw
  - Front chip cover on Yaxis(YSM-20A)
  - Front finned bellows cover on Y axis(YSM-20B)
  - X/Y axis servo motor(YSM-20B)
- ▶ Optional accessories
  - Chip tray
  - Digital readout ( DRO)
  - Adjustable auto lubrication system
  - Draw bar(pneumatic)
  - Coolant system(Pump 1/8HP)
  - 1370x254mm(54"x10")table(YSM-20A)
  - Power feed (X/Y) (YSM-20A)
  - Gear box(X/Y) (YSM-20A)
  - Servo feed(X/Y) (YSM-20A)

## MECHANICAL DIMENSION





## YSM-26 SERIES

### MECHANICAL FEATURE

- The main casting part is made of meehanite casting.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The speed drive up to 5560rpm/50Hz then can meet different processing conditions.
- Patented special quick shift mechanism can be change at one go, reduce the risk of mistakes and increases the life.
- Used type B belt drive.
- Hardened and ground X,Y,Z axes slideway.
- Turcite-B coated on X Y ways.
- X/Y axis are using precision ball screw.
- Horizontal milling equipment come with a arbor bracket. can meet different cutting conditions.

10 Steps	
60HZ	70-125-190-285-420-600-1025-1530-2200-3350RPM
50HZ	58-110-165-240-360-500-870-1290-1900-2780 RPM

20 Steps	
50HZ	2P 116-220-330-480-720-1000-1740-2580-3800-5560RPM
	4P 58-110-165-240-360-500-870-1290-1900-2780 RPM

Horizontal Mill Spindle Speed (9 Steps)	
60HZ	92-204-241-251-536-590-660-1311-1614RPM
50HZ	73-163-193-201-428-471-527-1046-1288RPM



## YSM-28 SERIES

### MECHANICAL FEATURE

- The main casting part is made of meehanite casting.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- Designed with an automatic forced lubrication system oil level indicator for the ground gears, clutch, and bearings inside the milling head, ensuring long service life of the head parts.
- The tilting angle is 45 degrees. Double screw locking device makes the head tighten securely and release conveniently.
- The tilting angle is 45 degrees. Double screw locking device makes the head tighten securely and release conveniently.
- Used type B belt drive.
- Hardened and ground X,Y,Z axes slideway.
- Turcite-B coated on X Y ways.
- X/Y axis are using precision ball screw.
- Horizontal milling equipment come with a arbor bracket. can meet different cutting conditions.

10 Steps	
60HZ	75-125-195-280-420-600-1050-1610-2360-3500RPM
50HZ	60-100-160-230-350-530-860-1320-1940-2780 RPM

Horizontal Mill Spindle Speed (9 Steps)	
60HZ	92-204-241-251-536-590-660-1311-1614RPM
50HZ	73-163-193-201-428-471-527-1046-1288RPM

## SPECIFICATIONS

Model	Unit	YSM-26VHB/SHB/CHB	YSM-28SHB/CHB
<b>Travel</b>			
Longitudinal travel (M./A.)	mm	1000(39.37")	1000(39.37")
Cross travel (M./A.)	mm	400(15.79")	400(15.79")
Vertical travel (M./A.)	mm	470(18.5")	440(17.32")
Slideway X/Y/Z	type	△ / □ / □	△ / □ / □
Quill travel	mm	140(5.51")	140(5.51")
Overarm travel	mm	700(27.56")	700(27.56")
Overarm swivel	degree	360	360
Quill swivel (R&L)(F&B)	degree	±45/Fixed	±45/Fixed
Dist. from spindle nose to table	mm	100-570(3.93"-22.44")	100-540(3.93"-21.25")
Spindle centerline to column	mm	180-880(7.09"-34.65")	180-880(7.09"-34.65")
<b>Table</b>			
Dimension	mm	1370x300(54"x12")	1370x300(54"x12")
T-slots (Width x No. x Pitch)	mm	16x3x70(0.63"x3x2.75")	16x3x70(0.63"x3x2.75")
Max. table load	kg	300	300
<b>Spindle</b>			
Milling head	type	Variable    10/20Steps    Inverter	10 Steps / Inverter
Speed	60HZ	rpm 70-3350(10)	75-3500
	50HZ	rpm 50-3500 58-2780(10) 55-3600 58-5560(20)	60-2870 55-3600
Quill Diameter	mm	105	110
Vertical feeds	mm/rev	0.04/0.08/0.15	0.04/0.08/0.15
Taper	type	NT 40	NT 40
Horizontal spindle speed	rpm	60HZ : 92-1614(9 Steps) / 50HZ : 73-1288(9 Steps)	
<b>Motor</b>			
Main/ Horizontal spindle	HP	5	5
X-axis traverse	HP	1/2	1/2
Z-axis elevation	HP	1/2	1/2
<b>Feedrate</b>			
X-axis speed	mm/min	30-1300(1.2"-51.1") (9 Steps)	30-1300(1.2"-51.1") (9 Steps)
Z-axis speed	mm/min	345(13.58")	345(13.58")
<b>Machine</b>			
Space(L x W x H)	mm	2270x3100x2520(90"x122"x100")	
Packing dimension(L x W x H)	mm	1800x2200x2100(71"x87"x83")	
Net Weight	kg	2200	2250
Gross Weight	kg	2400	2450

## ACCESSORIES

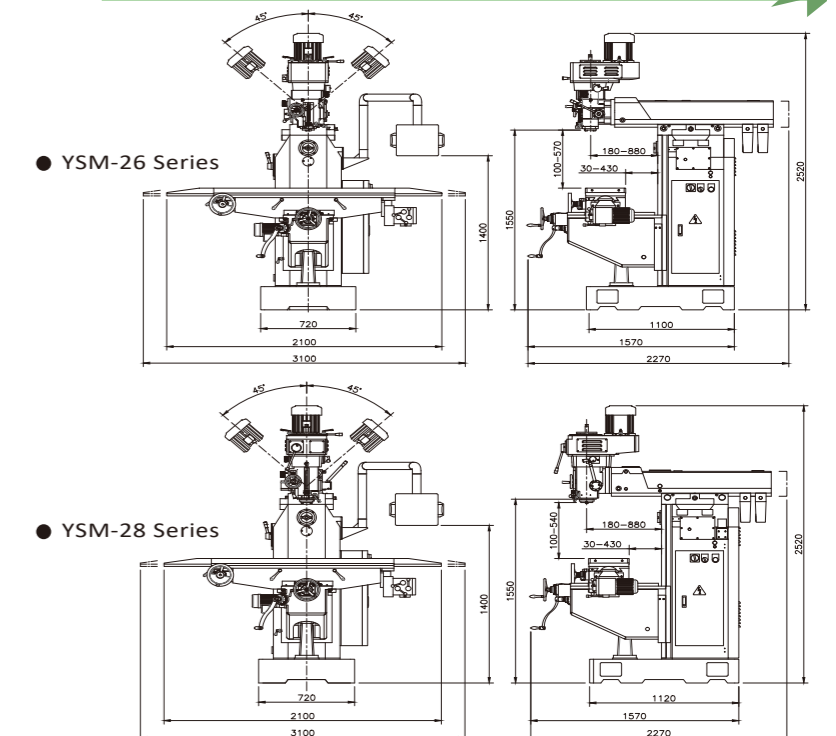
### ► Standard accessories

- Draw bar
- Tool box and tools
- Chip cover on Y axis
- Front finned bellows cover on Y axis
- Auto lubrication system
- Working lamp
- Z Axis Rapid up/down
- Deluxe type operation panel
- Electric box
- X/Y axis Ball screw
- X axis Gear box
- Horizontal arbor X 1 set(25.4 or 27mm)
- Horizontal bracket x 2 set
- Tapping equipment of spindle(YSM-28)

### ► Optional accessories

- Chip tray
- Digital readout ( DRO)
- Adjustable auto lubrication system
- Draw bar(pneumatic)
- Coolant system(Pump 1/8HP)
- Power feed (Y)
- Gear box(Y)
- Servo feed(X/Y)

## MECHANICAL DIMENSION



Model	Unit	YSM-15VS/SS/VC	YSM-16VS/SS/VC	YSM-18VS/SS/VC	YSM-860V/S/C	YSM-20AS/AC	YSM-20BS/BC	YSM-26VHB/SHB/CHB	YSM-28SHB/CHB
<b>Travel</b>									
Longitudinal travel (M./A.)	mm	700/650(27.56"/25.59")	850/750(33.46"/29.53")	800/700(31.5"/27.56")	860(33.86")	670(26.38")	1000(39.37")	1000(39.37")	1000(39.37")
Cross travel (M./A.)	mm	360(14.17")	426(16.77")	426(16.77")	400(15.75")	440(17.32")	420(16.53")	400(15.79")	400(15.79")
Vertical travel (M./A.)	mm	400(15.74")	400(15.74")	470(18.5")	470(18.5")	460(18.11")	400(15.75")	470(18.5")	440(17.32")
Sideway X/Y/Z	type	△ / △ / △	△ / □ / △	△ / □ / □	△ / □ / □	△ / □ / □	△ / □ / □	△ / □ / □	△ / □ / □
Quill travel	mm	127(5")	127(5")	140(5.51")	140(5.51")	140(5.51")	140(5.51")	140(5.51")	140(5.51")
Overarm travel	mm	457(18")	560(22")	540(21.26")	540(21.26")	570(22.44")	570(22.44")	700(27.56")	700(27.56")
Overarm swivel	degree	360	360	360	360	Fixed	Fixed	360	360
Quill swivel (R&L)	degree	±45	±45	±45	±45	±45	±45	±45	±45
Quill swivel (F&B)	degree	±45	±45(Opt. Fixed)	Fixed(Opt.±45)	Fixed(Opt.±45)	Fixed	Fixed	Fixed	Fixed
Dist. from spindle nose to table	mm	50-450(1.96"-17.7")	50-450(1.96"-17.7")	90-560(3.54"-22.05")	20-490(0.79"-19.29")	100-560(3.93"-22.08")	100-500(3.93"-19.68")	100-570(3.93"-22.44")	100-540(3.93"-21.25")
Spindle centerline to column	mm	45-502(1.77"-19.76")	60-620(2.36"-24.4")	85-625(3.34"-24.6")	85-625(3.34"-24.6")	185-755(7.28"-29.72")	185-755(7.28"-29.72")	180-880(7.09"-34.65")	180-880(7.09"-34.65")

## Table

Dimension	mm	1067x230(42"x9")	1270x254(50"x10")	1270x254(50"x10")	1270x300(50"x12")	1270x254(50"x10")	1370x300(54"x12")	1370x300(54"x12")	1370x300(54"x12")
T-slots (Width x No. x Pitch)	mm	16x3x63(0.63"x3x2.48")	16x3x63(0.63"x3x2.48")	16x3x63(0.63"x3x2.48")	16x3x70(0.63"x3x2.75")	16x3x63(0.63"x3x2.48")	16x3x70(0.63"x3x2.75")	16x3x70(0.63"x3x2.75")	16x3x70(0.63"x3x2.75")
Max. table load	kg	200	250	250	300	250	300	300	300

## Spindle

Milling head	type	Variable   8/16Steps   Inverter	Variable   8/16Steps   Inverter	Variable   10/20 Steps   Inverter	Variable   10/20 Steps   Inverter	10 Steps   Inverter	10 Steps   Inverter	Variable   10/20 Steps   Inverter	10 Steps   Inverter	10 Steps   Inverter
Speed	60HZ	rpm	80-2720(8)	66-2700(8)	70-3350(10)	70-3350(10)	75-3500	70-3350(10)	75-3500	75-3500
	50HZ	rpm	50-3500 68-2280(8) 55-3600	50-3500 68-2280(8) 55-3600	50-3500 58-2780(10) 55-3600	50-3500 58-2780(10) 55-3600	60-2870 55-3600	50-3500 58-2780(10) 55-3600	60-2870 55-3600	60-2870 55-3600
		rpm	68-4560(16)	68-4560(16)	58-5560(20)	58-5560(20)		58-5560(20)		
Quill Diameter	mm	85	85	105	105	110	110	105	110	110
Vertical feeds	mm	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15
Taper	type	NT30 / R8(Opt.NT40)	NT30 / R8(Opt.NT40)	NT40	NT40	NT40	NT40	NT40	NT40	NT40
Horizontal spindle speed	rpm	X	X	X	X	X	X	60HZ : 92-1614(9 Steps) 50HZ : 73-1288(9 Steps)	60HZ : 92-1614(9 Steps) 50HZ : 73-1288(9 Steps)	60HZ : 92-1614(9 Steps) 50HZ : 73-1288(9 Steps)
Horizontal Taper	type	X	X	X	X	X	X	NT 40	NT 40	NT 40

## Motor

Main spindle	HP	2/2/5	3/3/5	5	5	5	5	5	5	5
Horizontal spindle	HP	X	X	X	X	X	X	X	X	X
X-axis traverse	HP	X	X	X	1/2	X	1	1/2	1/2	1/2
Y-axis traverse	HP	X	X	X	X	X	1	X	X	X
Z-axis elevation	HP	X	X	1/2	1/2	1	1	1/2	1/2	1/2

## Feedrate

X-axis speed	mm/min	X	X	X	30-1300(1.2"-51.1") (9 Steps)	X	0-1800(0-70.86")	30-1300(1.2"-51.1") (9 Steps)	30-1300(1.2"-51.1") (9 Steps)
Y-axis speed	mm/min	X	X	X	X	X	0-1800(0-70.86")	X	X
Z-axis speed	mm/min	X	X	345(13.58")	345(13.58")	1150(45.27")	1150(45.27")	345(13.58")	345(13.58")

## Machine

Space(L x W x H)	mm	1800x2200x2150(71"x87"x85")	2120x2550x2320(83"x100"x91")	2040x2530x2420(76"x100"x96")	2040x2860x2420(76"x113"x96")	2250x2440x2420(89"x96"x95")	2250x3100x2420(89"x97"x95")	2270x3100x2520(90"x122"x100")	2270x3100x2520(90"x122"x100")
Packing dimension(L x W x H)	mm	1480x1600x1810(59"x63"x72")	1660x1800x1910(66"x71"x76")	1620x1830x1960(64"x73"x78")	1620x2100x1960(64"x83"x78")	1770x1870x2040(70"x74"x81")	1770x2200x2040(70"x87"x81")	1800x2200x2100(71"x87"x83")	1800x2200x2100(71"x87"x83")
Net Weight	kg	900	1100	1500	1700	1750	2000	2200	2250
Gross Weight	kg	1050	1250	1650	1900	1900	2200	2400	2450

## YSM-VB600A SERIES

### MECHANICAL FEATURE

- The main casting part is made of meehanite casting(FC30), and machine body come with squarerall design. The rigidity is excellent, illustrating brilliant stability and rigidity.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The three-axis uses a pre-pressed double-nut ball screw (C5 grade) with angled ball bearings for optimum axial rigidity.
- Three-axis with servo motor feed (Z-axis with brake) for optimum cutting characteristics.
- The swivel boom and rotary operating box design allow the operator to easily access the workpiece.
- The speed drive up to 5560rpm/50Hz then can meet different processing conditions.



10 Steps		
60HZ		75-125-195-280-420-600-1050-1610-2360-3500RPM
50HZ		60-100-160-230-350-530-860-1320-1940-2780 RPM
20 Steps		
50HZ	2P	116-220-330-480-720-1000-1740-2580-3800-5560RPM
	4P	58-110-165-240-360-500-870-1290-1900-2780 RPM

## YSM-VB600S SERIES

### MECHANICAL FEATURE

- The main casting part is made of meehanite casting(FC30), and machine body come with squarerall design. The rigidity is excellent, illustrating brilliant stability and rigidity.
- The spindle is one piece machined from SCM440 alloy steel, thermal refining, high-frequency and precision ground.
- The three-axis uses a pre-pressed double-nut ball screw (C5 grade) with angled ball bearings for optimum axial rigidity.
- Three-axis with servo motor feed (Z-axis with brake) for optimum cutting characteristics.
- The swivel boom and rotary operating box design allow the operator to easily access the workpiece.
- The speed drive up to 5000rpm then can meet different processing conditions.
- Conversational framework function, repetitive cyclic processing.
- X/Y/Z panel-mounted handwheel and CNC programming operation switch.



## SPECIFICATIONS

Model	Unit	YSM-VB600AE/AT/EC/TC	YSM-VB600SE/ST
<b>Travel</b>			
X axis travel	mm	1000(Opt.1200)	1000(Opt.1200)
Y axis travel	mm	550	550
Z axis travel	mm	600	600
Slideway X/Y/Z	type	△ / □ / □	△ / □ / □
Quill travel	mm	140	140
Quill swivel (R&L)	degree	±45	±45
Dist. from spindle nose to table	mm	100-700	100-700
Spindle centerline to column	mm	570	570
<b>Table</b>			
Dimension	mm	1400x450/(Opt.1600x450)	1400x450/(Opt.1600x450)
T-slots (Width x No. x Pitch)	mm	18x3x100	18x3x100
Max. table load	kg	1000	1000
<b>Spindle</b>			
Milling head	type	10/20 Steps    10 Steps   Inverter	Inverter
Speed	60HZ	70-3350(10)   75-3500	55-5000   55-3600
	50HZ	58-2780(10)   58-5560(20)	55-5000   55-3600
Quill Diameter	mm	105   110   105/110	105   110
Vertical feeds	mm/rev	0.04/0.08/0.15	0.04/0.08/0.15
Taper	type	NT40/BT40	NT40/BT40
<b>Motor</b>			
Main spindle	KW	3.7	3.7
X/Y/Z axis	KW	0.75/0.75/0.75	1//1/1 (SINUMERIK 808D Advanced) 0.85/0.85/0.85(SYNTEC MA21-H) 1/1/1(FAGOR 8055i FL)
<b>Feedrate</b>			
X/Y/Z Feed speed	m/min	1.5/1.5/1.5	3/3/3
X/Y/Z Rapid feed speed	m/min	1.8/1.8/1.8	5/5/5
<b>Machine</b>			
Space(L x W x H)	mm	3000(Opt.3600)x2600x2700	3000(Opt.3600)x2650x2700
Packing dimension(L x W x H)	mm	2000(Opt.2400)x2200x2500	2000(Opt.2400)x2250x2500
Net Weight	kg	3400	3500
Gross Weight	kg	3700	3800

## ACCESSORIES

### YSM-VB600A Series

#### ► Standard accessories

- Draw bar
- Tool box and tools
- Deluxe type operation panel
- Electric box
- Front steel cover on Y axis
- Rear cover on Y axis
- Working lamp
- Coolant system(Pump 1/8HP)
- X/Y/Z axis Ball screw
- X/Y/Z Servo motor

#### ► Optional accessories

- Chip tray
- Digital readout (DRO)
- Draw bar(pneumatic)
- Rear splash guard
- Working table safety shield
- Above finned bellows cover on Z axis

### YSM-VB600S Series

#### ► Standard accessories

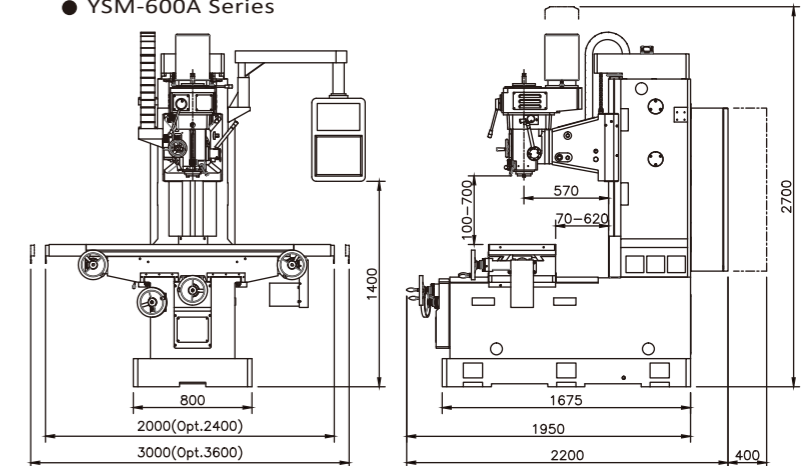
- Draw bar
- Tool box and tools
- Deluxe type operation panel
- Heat exchanger for electrical cabinet
- Working lamp & 3-color signal lamp
- steel cover on X axis
- Front steel cover on Y axis
- Rear finned bellows cover on Y axis
- Below finned bellows cover on Z axis
- Coolant system(Pump 1/8HP)
- X/Y/Z axis Ball screw
- X/Y/Z Axis panel-mounted handwheel

#### ► Optional accessories

- Chip tray
- linear scale
- Draw bar(pneumatic)
- Rear splash guard
- Working table safety shield
- Above finned bellows cover on Z axis

## MECHANICAL DIMENSION

### ● YSM-600A Series



### ● YSM-600S Series

