

**Milltech<sup>®</sup>**

***Milling  
Machine***

**HONG YEONG MACHINERY**

**HYM 30VA • HYM30VS / HYM 50VA • HYM50VS**

# Milling Machine

## **HYM 50 series**

Table size : 1250 x 280 mm

Longitudinal travel (X-axis) : 750 mm

Cross travel (Y-axis) : 400 mm

Knee travel : 440 mm



**HYM 50VA**



**HYM 50VS**

- The machine is suitable for vertical milling, angular milling, drilling, tapping, boring, die sinking and jig boring.
- The spindle is driven by high quality V-belt, featuring high tensile strength, excellent flexibility, minimum elongation, minimum slipping, positive transmission and long service life.
- Gears in the milling head are manufactured from high quality Chrome Molybdenum alloy steel carburization treated and precision ground, providing maximum durability, high precision and minimum wear.
- Major castings are made of high quality cast iron, completely annealed and stress relieved for deformation free performance.
- Square slideways on vertical and cross feed, way surfaces are hardened and precision ground, assuring maximum rigidity and maintaining high accuracy in heavy duty machining.



- Clutch teeth are hardened and precision ground for quiet running.
- Digital lubrication permits for timed lubrication and oil flow rate adjustment.
- Continuous speed change for automatic feed gives operation convenience.
- Rugged construction throughout combined with extra wide slideways ensures maximum rigidity and stability.
- The quill is hard chrome plated and precision ground. Head bore is honed to precisely fit the quill, assuring accurate movement of quill and maximum wear resistance.

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- The X-axis feed is driven by servo system. Mitsubishi AC motor drive permits variable speed change as desired, and also features rapid traverse function and MPG electronic handwheel.



- The machine employs preloaded ball screw with double nuts. This assures high precision, high rigidity, no backlash, high repeatability, long life, high transmission efficiency and power saving.
- Heavy duty NST#40 vertical milling head.
- Spindle is manufactured from SCM-21 material, carburization treated, tempered and precision ground. Supported by class P4 bearings.
- Forced lubrication system for gears, clutches and bearings in the milling head, for long service life of parts.
- The major cast iron of FC-30 and FCD-45 are high tensile material (MEEHANITE), it is annealed for stress relieving, featuring anti-wearness and deformation free.



- The table slideway, and top and bottom surfaces are tempered and hardened. Precision ground T-slots upgrade accuracy on reference planes.
- Automatic lubrication to X, Y, Z-axis slideways and feed screws assures long parts life. Lubrication frequency is 60 minutes.
- X, Y-axis slideways and gibs are coated with Turcite-B for smooth traverse and wear resistance.



## **HYM 30 series**

Table size : 1200 x 260 mm

Longitudinal travel (X-axis) : 680 mm

Cross travel (Y-axis) : 370 mm

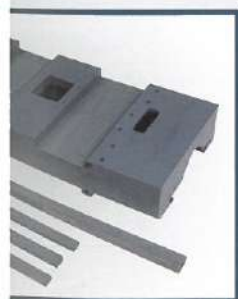
Knee travel : 400 mm



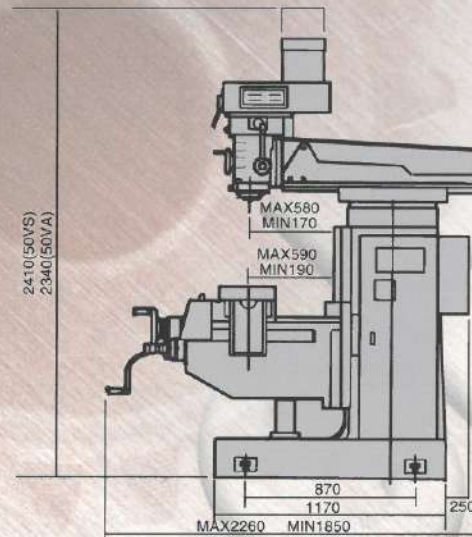
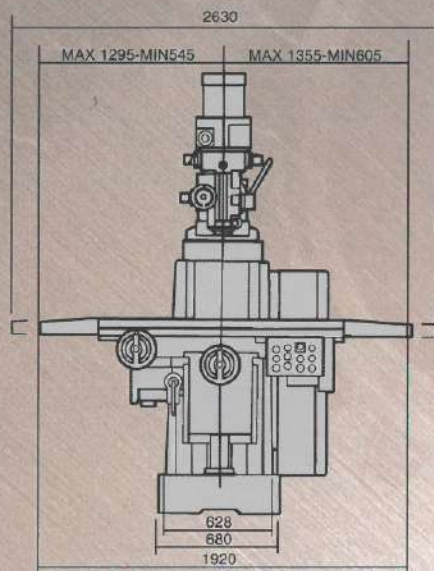
**HYM 30VS**



**HYM 30VA**



## Dimensional drawings



### Standard Accessories

- Service tools
- Toolbox
- Splash guard
- Spindle downfeed depth indicator
- Simple tapping device

- Automatic feed on table X-axis
- Automatic feed on table Y-axis



### Optional Accessories

- Cooling system
- Coolant tray
- Magnetic scale
- Halogen work light



- MPG handwheel
- Table splash guard

## Specifications

Table	HYM 50VA / VS	HYM 30VA / VS
Table size	1250 x 280mm	1200 x 260mm (OPT.1200 x 280mm)
T-slots (W x No. x Dist.)	16mm x 3 x 65mm	16mm x 3 x 65mm
X-axis feedrate	0-1500 mm/min	—
X-axis feedrate	3500 mm/min	—
Z-axis elevation rate	1150 mm/min	1150 mm/min
<b>Travel</b>		
Longitudinal travel (X-axis)	750 mm	680 mm
Cross travel (Y-axis)	400 mm	370 mm
Knee travel	440 mm	400 mm
Ram travel	410 mm	450 mm
<b>Spindle</b>		
Spindle speeds	75-3600 PRM (16 steps) / 60-3600 Variable speed.(Limited 4050 RPM)	75-3600 PRM (16 steps) / 60-3600 Variable speed.(Limited 4050 RPM)
Spindle taper	NT 40	NT 40
Quill travel	140 mm	140 mm
Quill feedrate	0.035 / 0.07 / 0.14 mm/rev	0.035 / 0.07 / 0.14 mm/rev
Spindle motor	2.2 kw (3HP) OPT. 3.7 kw (5HP) / 3.7 kw (5HP) Inverter motor	2.2 kw (3HP) OPT. 3.7 kw (5HP) / 3.7 kw (5HP) Inverter motor
Quill diameter	110 mm	110 mm
Head tilt	45° (R & L)	45° (R & L)
Spindle nose to top of table	0-530 mm (OPT.0-630)	0-530 mm
Spindle center to column	170-580 mm	165-615 mm
<b>Electric</b>		
Longitudinal feed motor	0.75 Kw (1HP)	—
Elevation (Z-axis) motor	0.75 Kw (1HP)	0.75 Kw (1HP)
Coolant pump	125 W (1/6HP)	125 W (1/6HP)
Lubrication pump (travel)	25 W	25 W
Lubrication pump (head)	13 W	13 W
Magnetic brake	20 W	—
<b>Size and weight</b>		
Machine dimensions	1935 x 1800 x 2340 mm / 1935 x 1800 x 2410 mm	2400x 1660 x 2410 mm
Packing dimensions	1300 x 1850 x 2100 mm / 1300 x 1850 x 2150 mm	1700 x 1750 x 2150 mm
Net weight	2380 kgs / 2430 kgs	1720 kgs / 1800 kgs
Gross weight	2780 kgs / 2830 kgs	2100 kgs / 2200 kgs

■ Design and specification are subject to change without prior notice.

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