



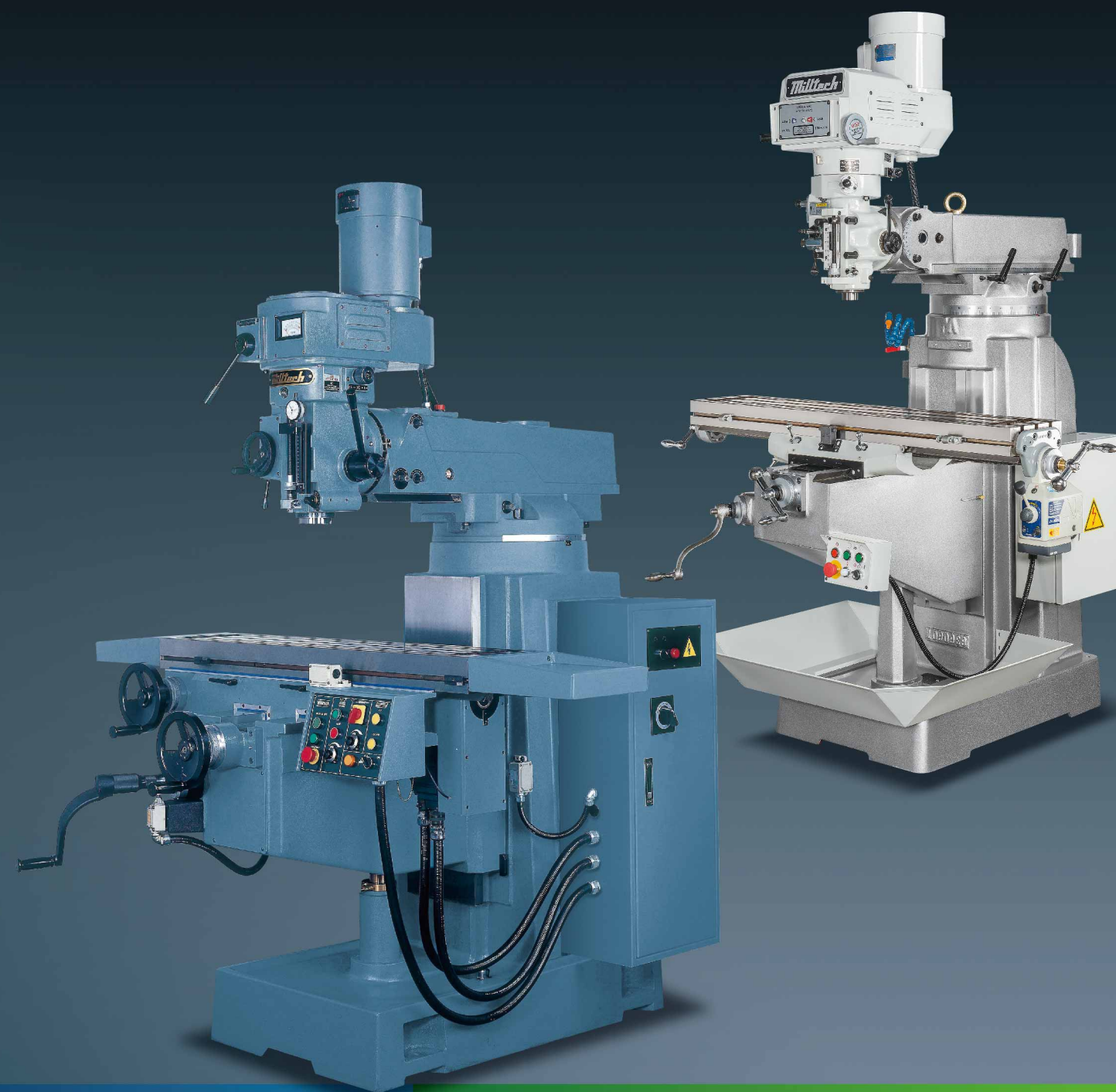
SHIAN RONG JING JI CO., LTD.
No. 95, Ln. 61, Dafu Rd., Shengang Dist.,
Taichung City 429006, Taiwan.
TEL: 886-4-2523 4134-5 FAX: 886-4-2523 7636
E-mail: hymvavs.machine@msa.hinet.net
<http://www.milltech.com.tw>



Milltech®
Since 1977

MILLING MACHINES

A wide range of models to select from
light to heavy duty models



2 / 4 / 5 Series

30 / 40 / 50 Series

HIGH QUALITY PERFORMANCE FOR 2 / 3 / 4 SERIES:

- Major castings are manufactured from high quality Meehanite cast iron, completely annealed and stress relieved for deformation free performance.
- The overarm is ruggedly constructed and exhibits exceptional stability when performing heavy cutting.
- Square slideways on Y, Z-axis (for 4V series) way surfaces are hardened and precision ground assuring maximum rigidity and maintaining high accuracy in heavy cutting.
- Table slideways, and top and bottom surfaces are tempered and hardened.
- T-slots on table are also precision ground to upgrade accuracy on reference planes.
- X, Y-axis slideways are coated with Turcite-B for smooth traverse and wear-resistance.
- X, Y-axis feed screws are hard chrome plated for increasing wear-resistance capability and service life.
- The major cast iron of FC-30 and FCD-45 is high tensile material (MEEHANITE), it is annealed for stress relieving, featuring anti-wearness and deformation free.
- Automatic lubrication system provides lubrication to X, Y, Z-axis slideways and feed screws. Lubrication frequency and oil flow are adjustable. (Optional)
- Power feed units for X, Y-axis are available upon request (optional).

- » **2VS series**
Variable speed head
1067 x 230 mm table
3HP spindle motor
- » **2VA series**
8-step speed head
1067 x 230 mm table
3HP spindle motor
- » **2IV series**
Inverter variable speed head
1067 x 230 mm table
3HP frequency inverted spindle motor



2VS



2VA
8-STEP SPEED HEAD



2KVA

- » **2KVS series**
Variable speed head
1067 x 230 mm table
3HP spindle motor



2KVS
VARIABLE SPEED HEAD



DESIGNED FOR MORE RIGIDITY
AND STABILITY.

- » **2KVA series**
8-step speed head
1067 x 230 mm table
3HP spindle motor
- » **2KIV series**
Inverter variable speed head
1067 x 230 mm table
3HP frequency inverted spindle motor

4^{VA} ^{VS} IV Series



4VA
8-STEP SPEED HEAD



4IV

- » 4VA series
8-step speed head
1270 x 254 mm table
3HP spindle motor
- » 4IV series
Inverter variable speed head
1270 x 254 mm table
3HP frequency inverted spindle motor

- » 4VS series
Variable speed head
1270 x 254 mm table
3HP spindle motor

5^{VA} ^{VS} IV Series



5IV
INVERTER VARIABLE



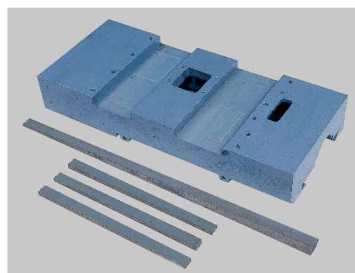
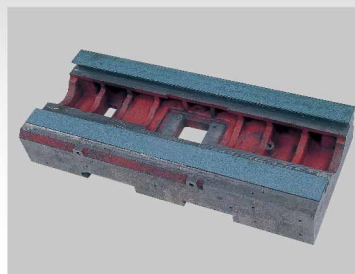
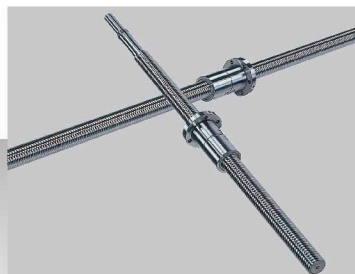
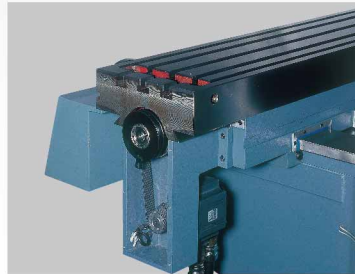
5VA

- » 5VA series
10-step speed head
1270 x 254 mm table
5HP spindle motor
- » 5IV series
Inverter variable speed head
1270 x 254 mm table
5HP frequency inverted spindle motor

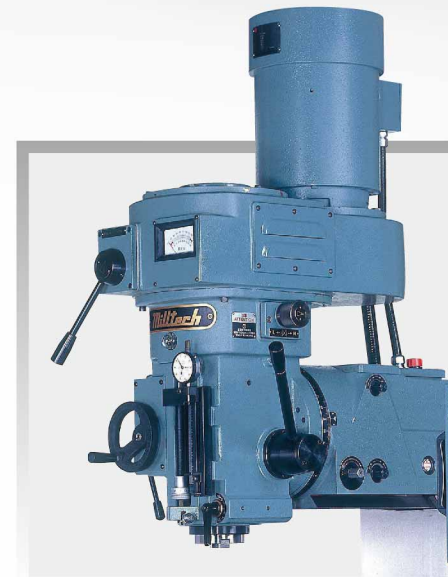
- » 5VS series
Variable speed head
1270 x 254 mm table
5HP spindle motor

HIGH QUALITY PERFORMANCE FOR 30 / 40 / 50 SERIES:

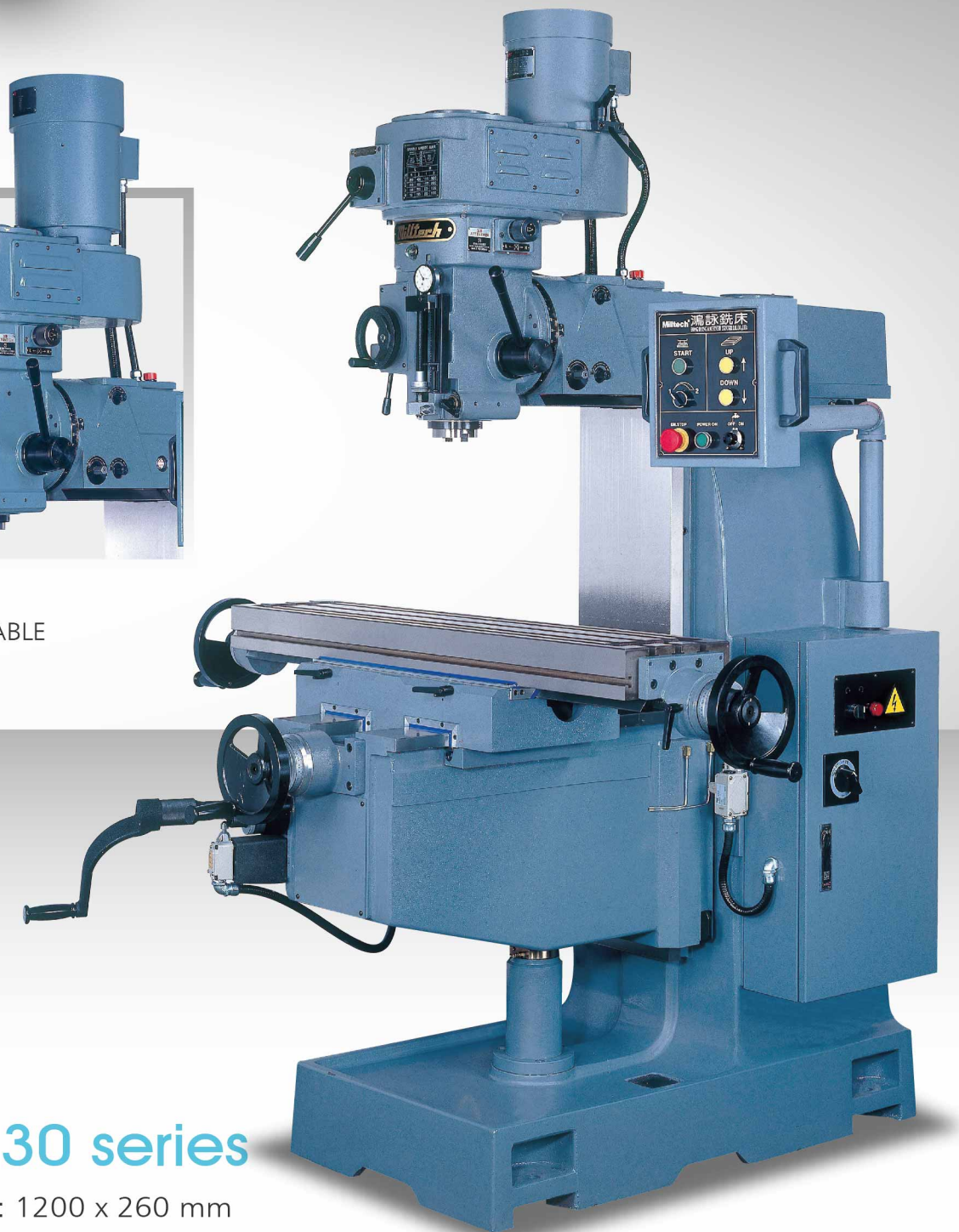
- The machine is suitable for vertical milling, angular milling, drilling, tapping, boring, die sinking and jig boring.
- The spindle is driven by high quality V-belt, featuring high tensile strength, excellent flexibility, minimum elongation, minimum slipping, positive transmission and long service 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.
- 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 is 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.



**30^{VA}
VS**
Series



HYM 30VS
INVERTER VARIABLE



HYM 30VA



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

40^{VA}
VS
Series



HYM 40VS
INVERTER VARIABLE

» HYM 40 series

Table size : 1250 x 280 mm
Longitudinal travel (X-axis) : 750 mm
Cross travel (Y-axis) : 400 mm
Knee travel : 440 mm

HYM 40VA

50^{VA}
VS
Series



HYM 50VS
INVERTER VARIABLE

» 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



Specifications

Table	HYM 2VA / VS / IV	HYM 2KVA / KVS / KIV	HYM 4VA / VS / IV	HYM 5VA / VS / IV
Table size	1067 x 230 or 1245 x 230 mm	1067 x 230 or 1245 x 230 mm	1270 x 254 or 1370 x 254 mm	1270 x 254 or 1370 x 254 mm
T-slots (W x No. x Dist.)	16 x 3 x 63 mm	16 x 3 x 63 mm	16 x 3 x 63 mm	16 x 3 x 63 mm
X-axis feedrate	–	–	–	–
X-axis feedrate	–	–	–	–
Z-axis elevation rate	–	–	–	1150 mm/min
Travel				
Longitudinal travel (X-axis)	725 mm	680 mm	776 mm	776 mm
Cross travel (Y-axis)	400 mm	355 mm	400 mm	400 mm
Knee travel	406 mm	406 mm	406 mm	420 mm
Ram travel	320 mm	460 mm	480 mm	480 mm
Spindle				
Spindle speeds	8 steps 80-2720 PRM 60-4200 / 0-4200	8 steps 80-2720 PRM 60-4200 / 0-4200	8 steps 80-2720 PRM 60-4200 / 0-4200	10 steps 70-3600 PRM 80-3800 / 0-3600
Spindle taper	NST 30 or R8	NST 30 or R8	NST 30 or R8	NST 40
Quill travel	127 mm	127 mm	127 mm	127 mm
Quill feedrate	0.04 / 0.08 / 0.15 mm/rev	0.04 / 0.08 / 0.15 mm/rev	0.04 / 0.08 / 0.15 mm/rev	0.04 / 0.08 / 0.15 mm/rev
Spindle motor	3HP	3HP	3HP	5HP
Quill diameter	Ø86	Ø86	Ø86	Ø100
Head tilt	45° (Head swivel 90°)	45° (Head swivel 90°)	45° (Head swivel 90°)	45° (Head swivel 90°)
Spindle nose to top of table	57-463 mm	80-466 mm	40-446 mm	80-483 mm
Spindle center to column	213-553 mm	140-450 mm	200-680 mm	180-515 mm
Electric				
Longitudinal feed motor	–	–	–	–
Elevation (Z-axis) motor	–	–	–	0.75 Kw (1HP)
Coolant pump	1/8HP -2P	1/8HP -2P	1/8HP -2P	1/8HP -2P
Lubrication pump (travel)	–	–	–	–
Lubrication pump (head)	–	–	–	–
Magnetic brake	–	–	–	–
Size and weight				
Machine dimensions	1600 x 1450 x 2100 mm	1680 x 1430 x 2200 mm	1750 x 1550 x 2200 mm	1750 x 1550 x 2350 mm
Packing dimensions	1450 x 1450 x 1900 mm	1600 x 1450 x 1900 mm	1500 x 1650 x 1980 mm	1720 x 1500 x 1900 mm
Net weight	900 kgs	950 kgs	1350 kgs	1500 kgs
Gross weight	–	–	–	–

• Design and specifications are subject to change without prior notice.

Standard Accessories

- Tool and toolbox
- One shot lubrication
- Chip cover front and rear
- X, Y Turcite B

Optional Accessories

- X, Y power feed unit
- Coolant equip with tray
- Electric with control box
- Table elevating motor
- Spindle nose N.S.T.40 with quill DIA. 105 mm



Specifications

Table	HYM 30VA / VS	HYM 40VA/VS	HYM 50VA / VS
Table size	1200 x 260mm (OPT.1200 x 280mm)	1250 x 280 mm	1250 x 280 mm
T-slots (W x No. x Dist.)	16 x 3 x 65 mm	16 x 3 x 65 mm	16 x 3 x 65mm
X-axis feedrate	–	0-1500	0-1500 mm/min
X-axis feedrate	–	3500	3500 mm/min
Z-axis elevation rate	1150 mm/min	1150 mm/min	1150 mm/min
Travel			
Longitudinal travel (X-axis)	680 mm	750 mm	750 m m
Cross travel (Y-axis)	370 mm	400 mm	400 mm
Knee travel	400 mm	440 mm	440 mm
Ram travel	450 mm	450 mm	410 mm
Spindle			
Spindle speeds	75-3600 PRM (16 steps) 60-3600 Variable speed.(Limited 4050 RPM)	75-3600 (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	NT 40
Quill travel	140 mm	140 mm	140 mm
Quill feedrate	0.035 / 0.07 / 0.14 mm/rev	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) / 3.7 kw	2.2 kw (3HP) OPT. 3.7 kw (5HP) / 3.7 kw (5HP) Inverter motor
Quill diameter	110 mm	110 mm	110 mm
Head tilt	45° (R & L)	45° OPT.	45° (R & L)
Spindle nose to top of table	0-530 mm	0-530 mm (OPT.0-630)	0-530 mm (OPT.0-630)
Spindle center to column	165-615 mm	165-615 mm	170-580 mm
Electric			
Longitudinal feed motor	–	0.75 kw (1HP)	0.75 Kw (1HP)
Elevation (Z-axis) motor	0.75 Kw (1HP)	0.75 Kw (1HP)	0.75 Kw (1HP)
Coolant pump	125 W (1/6HP)	125 W (1/6HP)	125 W (1/6HP)
Lubrication pump (travel)	25 W	25 W	25 W
Lubrication pump (head)	13 W	13 W	13 W
Magnetic brake	–	20 W	20 W
Size and weight			
Machine dimensions	2400 x 1660 x 2410 mm	2400 x 1800 x 2410 mm	1935 x 1800 x 2340 mm / 1935 x 1800 x 2410 mm
Packing dimensions	1700 x 1750 x 2150 mm	1700 x 1850 x 2150 mm	1300 x 1850 x 2100 mm / 1300 x 1850 x 2150 mm
Net weight	1850 kgs / 1900 kgs	2150 kgs / 2200 kgs	2300 kgs / 2350 kgs
Gross weight	2050 kgs / 2100 kgs	2350 kgs / 2400 kgs	2500 kgs / 2550 kgs

• Design and specifications are subject to change without prior notice.

Standard Accessories

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

Optional Accessories

- Cooling system
- Coolant tray
- Magnetic scale
- Halogen work light
- MPG handwheel
- Table splash guard
- Automatic feed on table Y-axis