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Horizontal & Vertical Universal Mills

*Celebrating Over 103 Years
in the Machine Tool Business*

A Line of Heavy-duty Universal Mills



Shown with
optional DRO

**Durable and Versatile...
For Horizontal & Vertical Applications**

MILLING



Shown with optional DRO

Model 2500UM

Model 2500M

Clausing Horizontal & Vertical Universal Knee Mills are heavy-duty, reliable, extremely accurate and very versatile machines. These heavy-duty cast iron mills can be used for one-off pieces as well as small to medium size production runs, making them ideal for maintenance tool rooms, job shops or tool and die shops. A wide range of spindle speeds combined with infinitely variable feed rates makes cutting ferrous and non-ferrous metals highly efficient.

MODEL 2500UM is equipped with a vertical spindle motor and a horizontal spindle motor with a fixed quill

MODEL 2500M is equipped with a vertical spindle motor and a horizontal spindle motor with a traveling quill

MODEL 2500U is equipped with a vertical spindle motor only with a fixed quill

MODEL 2500QM is equipped with a vertical spindle motor and a horizontal spindle motor with a traveling quill



Model 2500U Head



Model 2500QM Head



Table rotates 45° right & left

Standard Features and Equipment:

- X, Y & Z infinitely variable speed is achieved by a inverter through the gear box and controlled at the operator friendly control panel
- Rapid traverse on X, Y & Z axis
- Variable speed on X, Y & Z axis
- High quality meehanite casting for superior rigidity and wear resistance
- All gears and shafts are hardened
- Large 13.7" x 59" (350 x 1500mm) table with 5 T-slots
- Table swivels 45° left and right
- Extra large square and dovetail square slide ways for greater accuracy
- All slide ways and table are hardened and ground
- Turcite coated Y axis for wear resistance
- Double clamps on all square slide ways
- Motorized overarm with a 5.5 Hp (3.75kw) motor
- 1" (27mm) long horizontal ISO-40 milling arbor
- Horizontal & vertical manual drawbars
- Automatic coolant system and coolant pump
- Tool box and service tools

Clausing Horizontal & Vertical Universal Knee Mills Specification...

Model	2500UM	2500U	2500QM	2500M
Table				
Table Area	13.7" x 59" (350 x 1500mm)	13.7" x 59" (350 x 1500mm)	13.7" x 59" (350 x 1500mm)	13.7" x 59" (350 x 1500mm)
Table Load Capacity	1,540 lbs. (700kg)	1,540 lbs. (700kg)	1,540 lbs. (700kg)	1,540 lbs. (700kg)
Number of T-slots	5	5	5	5
Distance Between T-slots	2.36" (60mm)	2.36" (60mm)	2.36" (60mm)	2.36" (60mm)
Table Rotation	45° right/left	45° right/left	45° right/left	45° right/left
Travel				
X Longitudinal	46" (1150mm)	46" (1150mm)	46" (1150mm)	46" (1150mm)
Y Cross	15.75" (400mm)	15.75" (400mm)	15.75" (400mm)	15.75" (400mm)
Z Knee	20" (500mm)	20" (500mm)	20" (500mm)	20" (500mm)
Distance from Spindle to Overarm	6" (155mm)	6" (155mm)	6" (155mm)	6" (155mm)
Spindle (Horizontal)				
Spindle Taper	ISO-40	ISO-40	ISO-40	ISO-40
Diameter of the Main Shaft Nose	3.5"-5.06" (88.88-128.57mm)	3.5"-5.06" (88.88-128.57mm)	3.5"-5.06" (88.88-128.57mm)	3.5"-5.06" (88.88-128.57mm)
Milling Arbor	1" (27mm)	1" (27mm)	1" (27mm)	1" (27mm)
Number Spindle Speeds	12	12	12	12
Spindle Speed Range	40-1800 rpm	40-1800 rpm	40-1800 rpm	40-1800 rpm
Feeds				
Longitudinal and Cross Feeds	0.4"-47" (10-1208mm)	0.4"-47" (10-1208mm)	0.4"-47" (10-1208mm)	0.4"-47" (10-1208mm)
Vertical Feed	0.2-23" (5-604mm)	0.2-23" (5-604mm)	0.2-23" (5-604mm)	0.2-23" (5-604mm)
Rapid Traverse				
Longitudinal and Cross Feeds	47"/min. (1208mm/min.)	47"/min. (1208mm/min.)	47"/min. (1208mm/min.)	47"/min. (1208mm/min.)
Vertical Feed	23" (804mm)/min.	23" (804mm)/min.	23" (804mm)/min.	23" (804mm)/min.
Spindle Drive				
Main Spindle Motor	7.5 Hp (5kw)	7.5 Hp (5kw)	7.5 Hp (5kw)	7.5 Hp (5kw)
Feed Motor	2.5 Hp (1.5kw)	2.5 Hp (1.5kw)	2.5 Hp (1.5kw)	2.5 Hp (1.5kw)
Coolant				
Coolant Pump	1/8 Hp (.10kw)	1/8 Hp (.10kw)	1/8 Hp (.10kw)	1/8 Hp (.10kw)
Spindle (Vertical)				
Spindle Taper	ISO-40	-	ISO-40	ISO-40
Quill Diameter	-	-	4.13" (105mm)	4.92" (125mm)
Quill Travel	-	-	4.92" (125mm)	3.94" (100mm)
Number of Speeds	12	-	-	12
Variable Spindle Speed	35-1600 rpm	-	70-3500 rpm V.S.	35-1600 rpm
Spindle Motor	5.5 Hp (3.75kw)	-	5.5 Hp (3.75kw)	5.5 Hp (3.75kw)
Weight				
Net Weight	7,040 lbs. (3200kg)	7,040 lbs. (3200kg)	7,040 lbs. (3200kg)	7,040 lbs. (3200kg)
Shipping Weight	7,770 lbs. (3500kg)	7,770 lbs. (3500kg)	7,770 lbs. (3500kg)	7,770 lbs. (3500kg)
Dimensions				
Shipping Dimensions	70" x 89" x 88" (1778 x 2260 x 2235mm)	70" x 89" x 88" (1778 x 2260 x 2235mm)	70" x 89" x 88" (1778 x 2260 x 2235mm)	70" x 89" x 88" (1778 x 2260 x 2235mm)

(Specifications subject to change without notification)



Your Single Source for Machine Tools

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- Clausing Geared-head Drills
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Clausing Precision Mills

- Clausing Bed Mills
- Clausing CNC Bed Mills
- Clausing Knee Mills
- Clausing EVS Knee Mills
- Clausing Universal Mills

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- Clausing MA/MAV Series Lathes
- Clausing Large Swing Standard Lathes
- Clausing Large Swing CNC Lathes

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- Clausing 2 Axes Hydraulic Grinders
- Clausing 3 Axes Hydraulic Grinders
- Clausing ASDIII Automatic Grinders

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