



# 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
<b>Table</b>				
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
<b>Travel</b>				
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)
<b>Spindle (Horizontal)</b>				
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
<b>Feeds</b>				
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)
<b>Rapid Traverse</b>				
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.
<b>Spindle Drive</b>				
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)
<b>Coolant</b>				
Coolant Pump	1/8 Hp (.10kw)	1/8 Hp (.10kw)	1/8 Hp (.10kw)	1/8 Hp (.10kw)
<b>Spindle (Vertical)</b>				
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)
<b>Weight</b>				
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)
<b>Dimensions</b>				
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 Belt-drive Drills
- Clausing Geared-head Drills
- Clausing Radial Drills

### **Clausing Precision Mills**

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

### **Clausing Precision Lathes**

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- Clausing/Kalamazoo Cold Saws

*Your Authorized Clausing Precision Machine Tools Distributor*

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