

# ***Clausing CNC Vertical Mills...***

***A Line of Affordable Heavy-duty Precision CNC Vertical Knee Mills with A Wide Range of 2 or 3 Axes CNC Control Options and Features Found Only on Higher Priced Machines.***

***Clausing CNC Mills can be operated as manual machines with a DRO, semi-automatic operation or full X, Y and Z axes CNC operation.***



Shown with ACU-RITE MILLPWR CNC Control

## ***Machine Features***

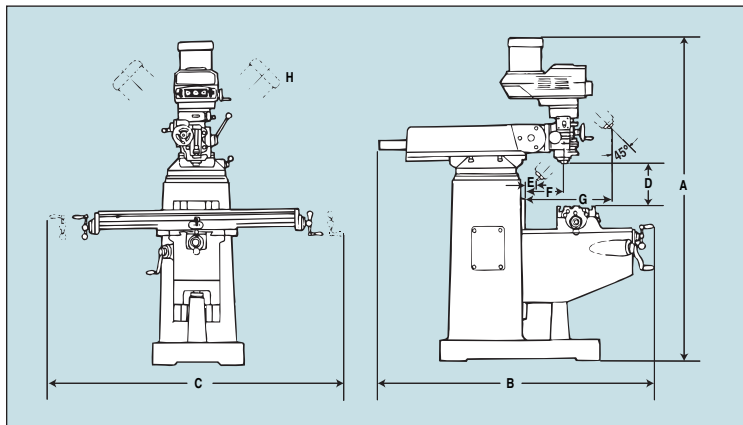
- A wide range of CNC Control options ACU-RITE MILLPWR, Fagor 8055i MC, ANILAM 3000M and ANILAM 5000M
- Flexible operating modes: manual operation with DRO, semi-automatic operation, and two or three axes full CNC operation
- Meehanite Castings for superior rigidity and wear resistance
- Hardened and Ground X, Y, and Knee ways for superior accuracy and wear resistance
- Turcite B applied to X, Y ways for wear resistance and extend machine life
- Work areas up to 10" x 54" table size
- Ground T-Slots provide a reference edge for positioning workpieces or fixtures
- Large travel range up to 33" X axis travel, 16" Y axis travel, 17.7" knee travel and 5" quill travel
- Two Range Variable Speed Spindle: 60-500 rpm low range and 550-4300 high range
- 3 Hp Spindle Motor for exceptional machining power
- Spindle Brake manually operated with auto power off
- ABEC 7/CP4 Spindle Bearings provide accuracy and smooth operation for close tolerance machining
- Hardened and Ground Chrome Plated, Carbon Steel Quill giving the quill wear resistance with close tolerances between the quill and housing
- One Shot Lubrication maintains proper lubrication to all critical machine components
- Built in Coolant System w/pump, switch, and flexible coolant nozzle
- Precision Hardened and Ground Ballscrews for smooth positioning and accuracy

# Specifications: *(see pages 6 & 7 for control options and Model numbers)*

Model	2VSCNC	3VSCNC	4VSQCNC
<b>Table &amp; Ways:</b>			
Table Size	9"x49" (228x1244mm)	10"x54" (254x1372mm)	10"x54" (254x1372mm)
No. of T-Slots	3	3	3
T-Slot Width	.63" (16mm)	.63" (16mm)	.63" (16mm)
T-Slot Center Distance	2.48" (63mm)	2.48" (63mm)	2.48" (63mm)
Table Ways	Dovetail	Dovetail	Dovetail
Knee Ways	Dovetail	Square	Square
Column Ways	Dovetail	Dovetail	Square
<b>Travels:</b>			
X Longitudinal	30" (762mm)	33" (838mm)	33" (838mm)
Y Cross	11.5" (292mm)	15.5" (394mm)	16" (406mm)
Knee	16" (406mm)	17.7" (450mm)	17.7" (450mm)
Ram	18.5" (470mm)	20.5" (520mm)	26.75" (680mm)
<b>Motors &amp; Spindle:</b>			
Motor Hp. variable	3 ( 2.25Kw)	3 (2.25Kw)	5 (3.75Kw)
Variable Spindle Speed rpm			
Low Range	60-500	60-500	60-500
High Range	550-4300	550-4300	550-4300
Main Spindle Taper	R-8 or ISO-30	R-8 or ISO-30	ISO-40
Spindle Travel	5" (127mm)	5" (127mm)	5" (127mm)
Quill Feed (2 axis)	.0015/.003/.006in/rev. (.004/.008/.015mm/rev)		
Quill Diameter	3.38" (86mm)	3.38" (86mm)	4.13" (105mm)
<b>Construction:</b>			
Column Turret Diameter	14.96" (380mm)	16.33" (415mm)	16.33" (415mm)
Knee Width	11.81" (300mm)	14.17" (360mm)	14.96" (380mm)
Column Bearing Length	16.83" (427mm)	18.11" (460mm)	19.7" (500mm)
Saddle/Table Bearing Length	19.88" (305mm)	20.47" (520mm)	20.47" (520mm)
Ram/Turret Bearing Length	17.51" (445mm)	17.51" (445mm)	20.67" (525mm)
Ram Length	32.75" (832mm)	32.75" (832mm)	38.63" (980mm)
Table Load	700 lbs. (316kg)	880 lbs. (400kg)	990 lbs. (450kg)
Net Weight	2250 lbs. (1020kg)	2970 lbs. (1348kg)	3630 lbs. (1647kg)

Specifications subject to change without notice.

## Machine Dimensions:



Model	2VS	3VS	4VSQ
A Height	86" (2185mm)	91" (2310mm)	91" (2310mm)
B Depth	75" (1905mm)	71" (1803mm)	80.3" (2040mm)
C Width	69" (1752mm)	73.6" (1870mm)	73.6" (1870mm)
D Table to Spindle	3.54"-19.29" (90-490mm)	1.97"-19.68" (50-500mm)	1.97"-19.68" (50-500mm)
E 45° Inward	0-13" (0-330mm)	0-18" (0-457mm)	0-16.53" (0-420mm)
F Spindle ø to column	5.5"-26" (140-660mm)	5.5"-24" (140-610mm)	0-26" (0-660mm)
G 45° Outward	10.43"-27.95" (265-710mm)	10.43"-27.95" (265-710mm)	8.85"-29.13" (225-740mm)
H Head Tilt	90° right & left		