

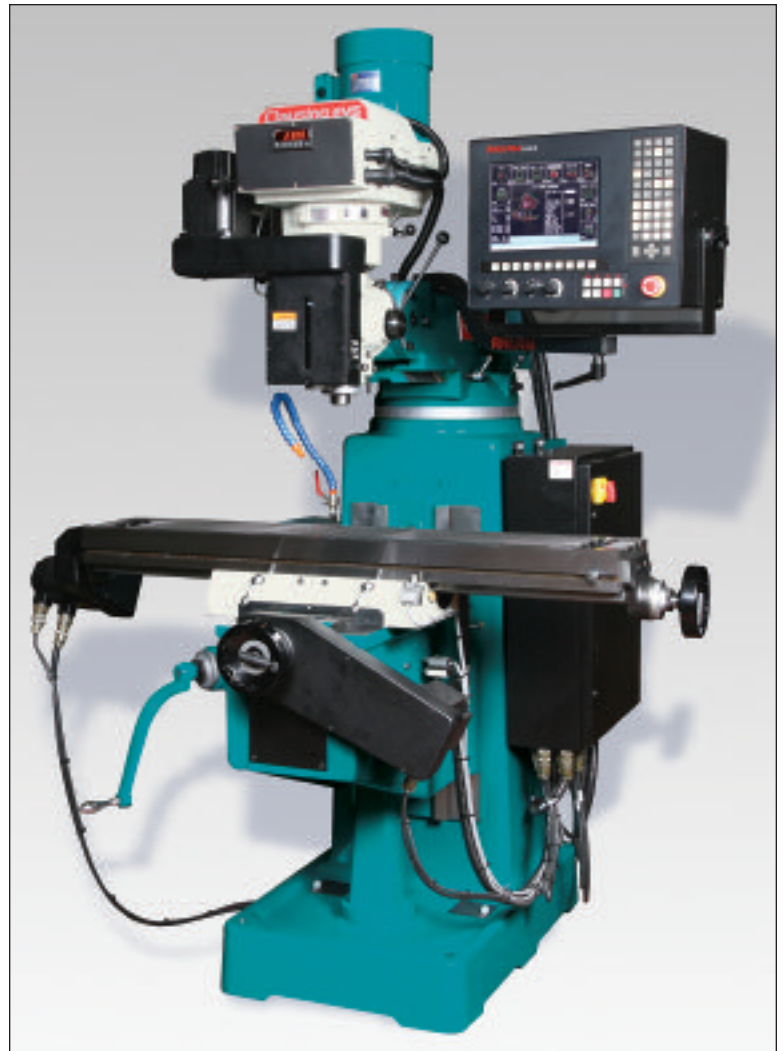
Clausing EVS CNC Vertical Mills...

***A Line of Affordable Heavy-duty
CNC Electronic Variable Speed (EVS)
Vertical Knee Mills with A Wide
Range of CNC Control Options.***



The LCD Display allows the operator to select spindle speeds quickly and accurately.
(Not available on models with Programmable Spindle Speeds)

Shown with ANILAM 5000M CNC Control



Machine Features

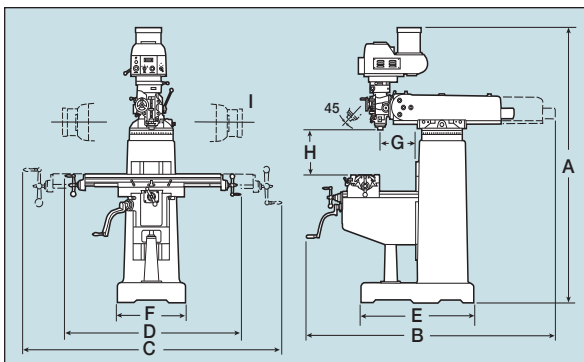
- A wide range of CNC Control options ACU-RITE MILLPWR, Fagor 8055i MC, ANILAM 3000M and ANILAM 5000M
- Flexible operating modes: manual operation with DRO, semi-automatic operation and two or three axes full CNC operation
- Meehanite Castings for superior rigidity and wear resistance
- Hardened and 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
- Table size up to 11" x 58"
- Ground T-Slots provide a reference edge for positioning workpieces or fixtures
- Large travel range up to 35.5" X axis travel, 16" Y axis travel, 17.7" knee travel and 4.75" quill travel
- Inverter Drive Variable Speed Spindle achieving more accurate surface speeds for enhanced tool life
- 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 giving the operator full control over tool cooling
- Precision Hardened and Ground Ballscrews for smooth positioning and accuracy

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

Model	400EVSCNC	450EVSCNC	500EVSCNC
Table:			
Table Size	10" x 50" (254x1370mm)	10" x 54" (254x1270mm)	11" x 58" (254x1475mm)
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)	2.76" (70mm)
Table load capacity	700 lbs. (318kg)	880 lbs. (400kg)	990 lbs. (450kg)
Travels:			
X axis, longitudinal	32.3" (820mm)	31.9" (810mm)	35.5" (902mm)
Y axis, cross	16" (406mm)	16" (406mm)	16" (406mm)
Z axis, knee	16" (406mm)	16" (406mm)	17.7" (450mm)
Ram travel	22" (560mm)	22" (560mm)	22" (560mm)
Ram swivel	360°	360°	360°
Spindle Head:			
Spindle drive motor	3 Hp (2.25Kw)	3 Hp (2.25Kw)	4 Hp (3.5Kw)
Spindle speed range	50-5000 rpm	50-5000 rpm	50-5000 rpm
Spindle taper	R-8 or ISO-30	R-8 or ISO-30	R-8 or IS-O30
Quill travel	4.75" (120mm)	4.75" (120mm)	4.75" (120mm)
Quill diameter	3.28" (83mm)	3.38" (86mm)	3.38" (86mm)
Quill feed (2 axis)	.00157/.00315/.006in/rev (0.04/.08/.152mm/min)		
Head tilt (front or back)	45°	45°	45°
Head tilt left or right (2 axis)	90°	90°	90°
Construction:			
Column turret diameter	15.75" (400mm)	15.75" (400mm)	16.54" (420mm)
Knee width	13.75" (349mm)	15.35" (390mm)	15.35" (390mm)
Knee bearing length	17.72" (450mm)	17.72" (450mm)	19.69" (500mm)
Saddle length	20.08" (510mm)	25.59" (650mm)	25.59" (650mm)
Table bearing length	11.26" (286mm)	11.26" (286mm)	11.02" (280mm)
Ram/turret bearing length	17.72" (450mm)	17.72" (450mm)	17.72" (450mm)
Machine weight	2,640 lbs. (1198kg)	2,750 lbs. (1247kg)	3,300 lbs. (1497kg)
Shipping weight	3,040 lbs. (1379kg)	3,150 lbs. (1429kg)	3,700 lbs. (1678kg)

Specifications and design subject to change without notice.

Machine Dimensions:



Model	400EVSCNC	450EVSCNC	500EVSCNC
Height (A)	88.6" (2250mm)	88.6" (2250mm)	90.6" (2300mm)
Depth w/ram travel (B)	78" (1980mm)	78" (1980mm)	82.7" (2100mm)
Width w/table travel (C)	102" (2590mm)	105" (2667mm)	110" (2795mm)
Width (D)	66" (1676mm)	70" (1778mm)	74" (1880mm)
Base depth (E)	39" (990mm)	39" (990mm)	44" (1118mm)
Base width (F)	23.6" (600mm)	23.6" (600mm)	25" (635mm)
Spindle to column (G)	5.9"-28.9" (150-734mm)	5.9"-28.9" (150-734mm)	5.3"-27.3" (135-691mm)
Spindle nose to table (H)	3.54"-19.7" (90-500mm)	3.54"-19.7" (90-500mm)	1.57"-19.2" (40-489mm)