

Clausing **ATLAS** **CNC Vertical Mill**

The affordable 2 or 3 axes CNC Vertical Mill with features found on higher priced Machines...

Manual Operation with DRO • Semi-Automatic Operation • X, Y and Z Axes CNC Operation

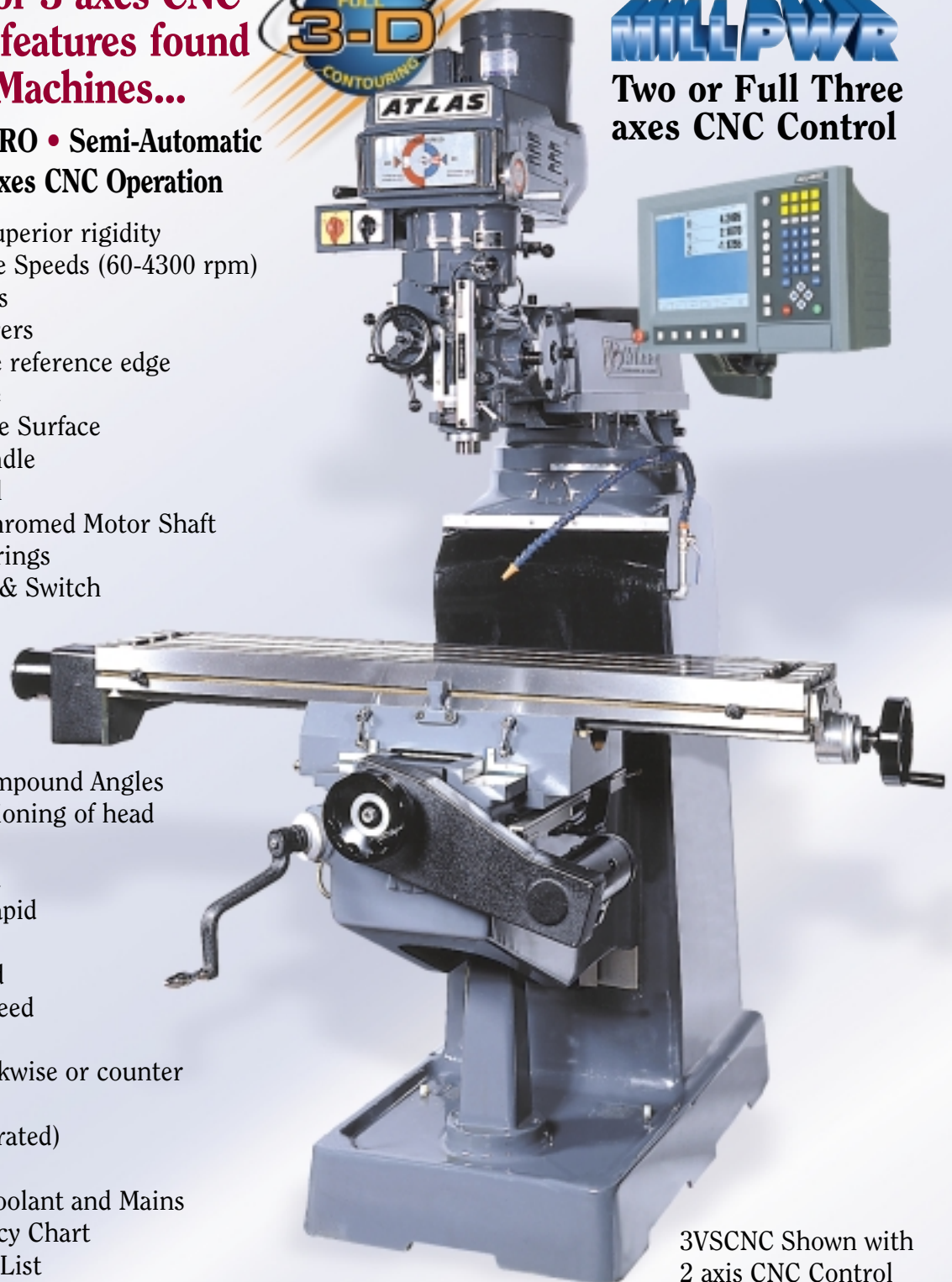
- Meehanite Castings for superior rigidity
- Infinitely Variable Spindle Speeds (60-4300 rpm)
- Hardened & Ground Ways
- Column & Knee Way Covers
- Ground T-slots to provide reference edge for positioning workpiece
- Hardened & Ground Table Surface
- Hardened & Ground Spindle
- Chromed & Ground Quill
- Ground Ball Screws & Chromed Motor Shaft
- ABEC 7/CP4 Spindle Bearings
- Coolant System w/Pump & Switch
- Chromed Cross Feed Screw Covers and One-piece Wiper
- Flexible Segmented Coolant Nozzle
- Articulating Head for Compound Angles
- Worm gear angular positioning of head in two directions
- Handwheel fine quill feed
- Lever-operated manual rapid quill movement
- Adjustable automatic feed disengagement for quill feed in both directions
- Reversing switch for clockwise or counter clockwise operation
- Spindle Brake (Hand operated)
- One-shot lubrication
- Mini Electrical Box for Coolant and Mains
- Tool Kit, Test and Accuracy Chart
- Operations Manual/Parts List



ACU-RITE®

MILLPWR

Two or Full Three axes CNC Control



3VSCNC Shown with
2 axis CNC Control



ATLAS CNC Vertical Mill

Machine Specifications	2VSCNC	3VSCNC	4VSCNC
Table Size (in.)	9x49	10x54	10x54
No. of T-Slots	3	3	3
T-Slot Width (in.)	5/8	5/8	5/8
T-Slot Center Distance (in.)	2.48	2.48	2.48
Table Ways	Dovetail	Dovetail	Dovetail
Knee Ways	Dovetail	Square	Square
Column Ways	Dovetail	Dovetail	Square
Travels			
X Longitudinal (in.)	30	33	33
Y Cross (in.)	11.5	15.5	16
Knee (in.)	16	17.7	17.7
Ram (in.)	12.2	20.5	26.75
Motors & Spindle			
Motor Hp. variable	3	3	5
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 (in.)	5	5	5
Quill Feed"/Spindle rev.	.0015/.003/.006	.0015/.003/.006	.0015/.003/.006
Quill Diameter (in.)	3-3/8	3-3/8	4-1/8
Construction			
Column Turret Diameter (in.)	14.9	16.33	16.33
Knee Width (in.)	11.8	14.17	14.75
Column Bearing Length (in.)	16.9	18.1	19.7
Saddle/Table Bearing Length (in.)	19.8	20.5	20.5
Ram/Turret Bearing Length (in.)	15-3/4	17-3/8	17-3/8
Ram Length (in.)	24-1/2	32-3/4	38-5/8
Table Load lbs.	700	880	990
Net Weight lbs.	2090	2970	3630

Specifications subject to change without notice

Optional Accessories

- Chip Tray
- Full Electrics*
- Slotting Attachment
- Air PWR Drawbar #8 & #30*
- Air PWR Drawbar #40*
- 52 Piece Clamping Ki
- Milling Chuck kit W/7 Collets
- Horizontal Milling Attachment
- AC Rapid Vertical Drive (4VSC)*
- 4" Riser Block (2VS)
- 6" Riser Block (2VS)
- 8" Riser Block (All Models)

* Factory Installed only

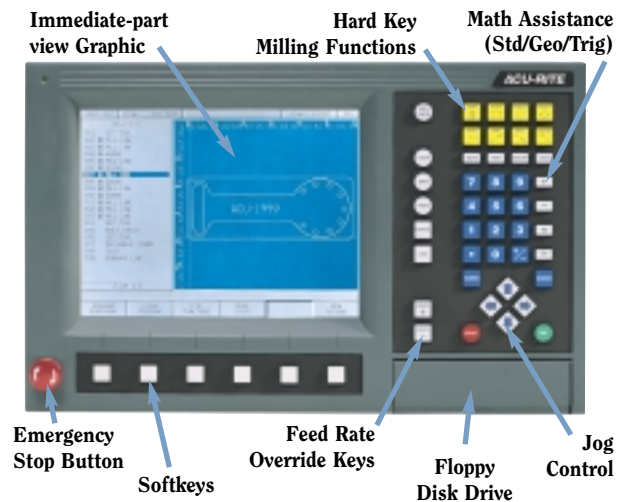


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ACU-RITE®



Two or Full Three axes CNC Control



Hardware Features

- Precision Ground and Hardened Ball Screws
- Powerful DC Servo Motors Assemblies
- Closed Loop Feedback using ACU-RITE Precision Glass Scales with (2µm/.0001 Resolution)
- 10" Flat Panel, Color, LCD Display
- Large Internal Part Program Storage Capacity
- RS-232 Port for Downloading from an Offline Source
- Remote Stop/Go Switch
- Floppy Disk Drive
- Modular Construction
- Maximum Table Feedrate of 100 IPM

Features and Benefits

- 2 or 3 axes Control/3-axes Readout
- Menu-prompted, Conversational Programming
- Immediate Part View Graphic
- Tool Offset Compensation
- Hard Key Milling Functions, Select routine functions (lines, arcs, rectangles, circles, etc.)
- Bolthole Calculations, Calculate Full & Partial Circles, Linear Row/Column/ Rectangle
- Mirror/Repeat/Rotate • Custom Pocket • Skew
- Contour with Approach and Departure option
- Ellipse Pocket/Frame • Chamfer • Spiral
- Island • Engrave Line/Arc • DXF File Import
- RS-232 Remote Storage • Tool Offset - Z-depth
- Feed Rate Override • Reference Table
- Math Calculator, Geometric/Trig/Standard
- Edgfinder/Touch Probe Input • Teach Position
- Auxiliary Function (optional)