3416 GRC
5016 GRC

'Gantry'-type Vertical CNC machining centers

Standard Features

- Gantry-type beam with twin motor drive
- Automatic lubrication for the linear guides and ball screws
- Working table (vacuum panel holding) divided into (6) zones with an MDF sacrificial board
- Vacuum pump for panel holding
- Routing Head with HSD electro spindle: 5.5 kW (7.3 hp), ISO 30 cone; rotating speeds up to 24,000 rpm
- (2) ISO 30 aggregates with 90° saw blade for 'X' and 'Y' cutting
- (3) ISO 30 cones with ER 32 collets: (2) 6 mm (0.236 in.) collets and (1) 10 mm (0.394 in.) collet
- Cutter with 20 mm (0.787 in.) ER 32 collet and ISO 30 cone supplied to rectify the sacrificial board
- Routing tools supplied with the machine: 4 mm (0.154 in.) dia. and 6 mm (0.236 in.) router bits, 10 mm (0.394 in.) dia. 90° V-cutter, and 20 mm (0.787 in.) 135° V-cutter (one each size)
- Tool Magazine with (10) positions for automatic tool changing and tool detection sensors
- Independent V-Grooving unit (for V-milling at 90°); 0°-90° rotation (pneumatically operated); 30 m/min. (98 ft./ min.) movement; 5 kW (6.7 hp); 6,000 rpm; 175 mm (6.89 in.) Cutter head with Z10 + 10 brazed knives
- (3) controlled and interpolated axes
- (1) Ethernet port for a network connection
- (2) USB ports on the front of the control panel
- 17 in. TFT LCD color screen
- Automatic presetter for tool length
- ASPAN CAD-CAM software, including Parametric Macros and DXF Layer Import Strategy for ACM processing
- Safety guard around the router units with a dust collection port
- Side safety barriers with light curtains
- Standard voltages (three phase, 60 Hz): 208, 240 or 480 VAC (consult elumatec North America for other voltages)
- One (1) year limited warranty

Technical Specifications

Model	**3416 GRC**	**5016 GRC**
Working Capacity:	3,400 x 1,600 mm (11 ft. 2 in. x 5 ft. 2 in.)	5,000 x 1,600 mm (16 ft. 4 in. x 5 ft. 2 in.)
Daily Average Output	300-350 m^2 (3,200-3,700 $ft.^2$)	350-450 m^2 (3,700-4,800 $ft.^2$)
Maximum Axis Speed (X-Y-Z) (3 controlled and interpolated	50-40-10 m/min. (164-131-32 ft./min.)	50-40-10 m/min. (164-131-32 ft./min.)
Working Speed (fluted tool)	18 m/min (59 ft./min.) max.	18 m/min (59 ft./min.) max.
Working Speed (independent V-Groove tool)	50 m/min (164 ft./min.) max.	50 m/min (164 ft./min.) max.
Vacuum Pump	250 m^3/hour (8,800 ft^3/hour)	250 m^3/hour (8,800 ft^3/hour)
Router w/ISO 30 Automatic Tool Changer (1 motor)	5.5 kW (7.4 hp)	5.5 kW (7.4 hp)
Available Tool Positions in the Tool Magazine	10	10
Independent V-Groove Router Head	1.7 kW (2.2 hp); 6,000 rpm (standard) 5 kW (6.7 hp); 6,000 rpm (available)	1.7 kW (2.2 hp); 6,000 rpm (standard) 5 kW (6.7 hp); 6,000 rpm (available)

Available Options for the 3416 GRC and 5016 GRC

- 2,100 mm (82.6 in.) Table extension mounted on the right side of the machine frame
- Additional 100 m^3/hour (3,500 $ft.^3$/hour) vacuum pump; provides a total of 350 m^3/hour (12,300 $ft.^3$/hour)
- Hand-held remote control operator with (4) lines/(16) character display
- 'Nesting' software package for panel optimization
- Additional ASPAN software and USB Dongle for programming from a remote PC
- Cooling device for the electrical cabinet
- Semi-Automatic vacuum reduction for easy release of worked pieces
- Automatic vacuum reduction by the PLC for easy release of worked pieces
- Automatic rack and pinion lubrication for the 'X-X1' and 'Y' axes
- Dust Extractor Unit
- 'ALU Loader' Loading-Positioning Device
- Other options available: consult elumatec North America for details