



EDAC Machinery
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1210G Vertical Grinder

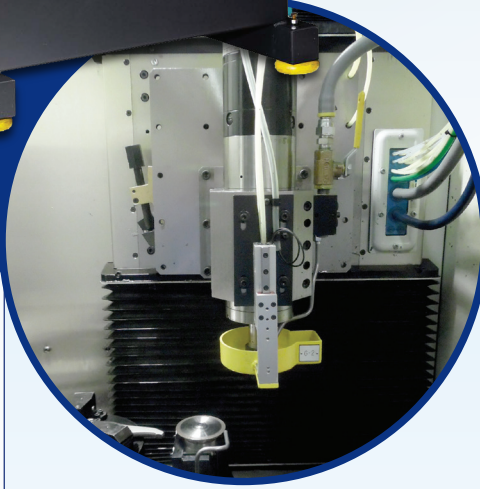
Unrivaled Accuracy and Performance

The Accura 1210G's vertical orientation eliminates the adverse effects of gravity, allowing for precision at the highest level possible. The 1210G has a large work envelope (12" D x 10" H) that can be configured for a variety of complex workpiece shapes and a PMC controller for a flexible user interface. Precision linear axes and an optional hydrostatic spindle, coupled with the stability of the natural granite base, achieve exceptional surface finish for roundness, flatness, and concentricity.

Ultra Precision. Ultra Versatile.

- Simplified set-up
- Multiple machining operations
- Rapid changeover
- Ideal for:
 - Bearings
 - Gears
 - Seal rings
 - Parts requiring tight tolerances

EDAC Machinery is an industry leader in precision grinding applications in aerospace, automotive, and industries requiring tight tolerance ground parts. Our extensive experience translates to unrivaled parts, service and performance knowledge. Our engineering expertise and support ensure you keep production moving forward with confidence.



Micro-Inch Technology

- Bearing Components
- Seal Rings
- Hydraulic Parts
- Gear Components
- Precision Tools and Dies
- Can and Container Tooling
- Ceramic Parts



Machine Specifications

General	Machine Configuration	Vertical Axis Chucking Type Grinder	
	Workpiece Capacity	12" O.D. x 10" length (300mm x 250mm), 500lb	
	Base Structure	Natural granite	
	Utilities	460 VAC, 3 phase – standard shop air (85psi 6 SCFM)	
	Machine Floor Space	65"W x 44"L (1610mm x 1113mm)	
Control System	Controller	Allen Bradley PMC Controller	
	Programming Resolution	0.1 micrometer (4 micro-inch), X and Z axes	
	HMI Interface	Allen Bradley PMC Control Panel	
Axes Specifications	Type	X and Z axes	Preloaded recirculating ball slideway
	Travel	X axis	14"
		Z axis	12"
	Drive System	X and Z axes	Linear motor
	Feedback Resolution	X and Z axes	Linear scales providing 10 μ m system resolution
Spindles	Wheel	Type	A wide variety of wheel spindles are available (see optional equipment below)
	Work	Type	Pressurized oil bearing or ball bearing
		Speed	0-2000 RPM
		Drive/Motor	Belt drive – servo motor
		Workpiece Mount	Standard A – 5 spindle nose
		Feedback	Rotary Encoder

Optional Equipment

Coolant System	Recirculating flood coolant system using a self-feeding fine mesh paper bed filter. (Consult EDAC Machinery for alternate coolant systems.)
High Pressure Coolant System	Recirculating flood coolant system operating at 100 PSI @ 5 gallons per minute.
Mist Collection Unit	Standalone mist collector to remove grinding mist and airborne particles from the work area.
Rotary Wheel Dressing	Rotary dressing system that trues the wheel prior to grinding for accurate and repeatable dressing procedures.
C- Axis	Servo-controlled work spindle can provide constant surface speed, along with work-piece positioning.
Acoustical Emissions Monitoring	Acoustical emissions monitoring device allows for high-speed touch detection and/or gap elimination.
Grinding Spindle(s)	High frequency grinding spindles can be supplied, including ball and hydrostatic bearing designs.

Accessories

NIB Type Dresser(s)	Modular single point diamond NIB dressing station(s) can be mounted in multiple configurations.
Chucks	Mechanical (collet and hydraulic), magnetic, air actuated, vacuum, or custom chucking can be added.
Wheel Adapters/Tool Holders	Various types of adapters/holders including threaded quill, HSK, V-flange, or collet can be added based on customer requirements.
Work Light	Work lights are standard equipment on all EDAC Machinery machines.

Expertise. Quality. Precision.

EDAC Machinery defines the benchmark for advanced grinding machine design, manufacturing and process engineering. We provide more than 100 years of unmatched precision grinding experience. We are uniquely qualified to provide the best service, solutions, and support for the demanding high tolerances in today's market.



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