

# CINCINNATI MACHINES

## XGS SERIES CNC HIGH PERFORMANCE



**TWIN  
OUTBOARD  
SUPPORTS**

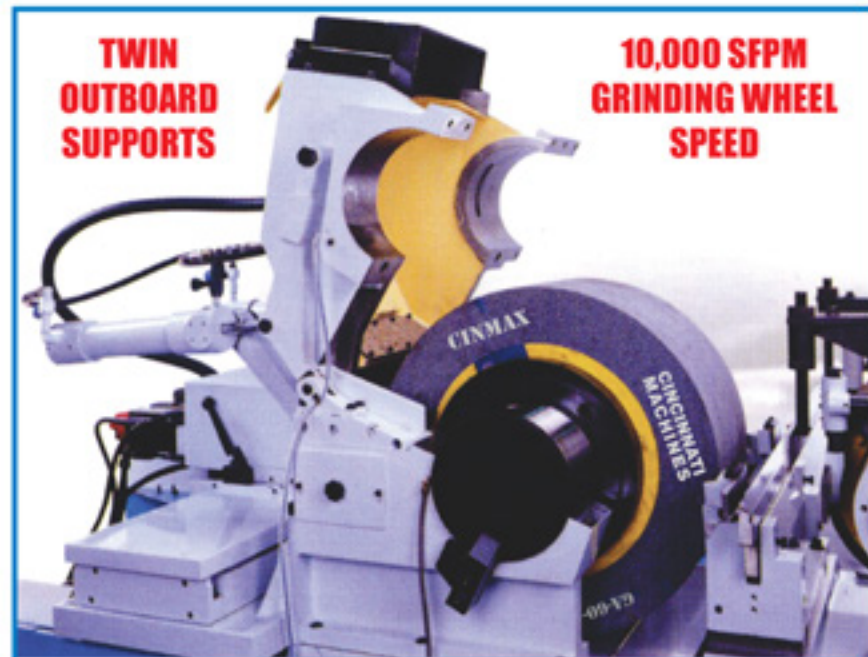
**10,000 SFPM  
GRINDING WHEEL  
SPEED**

### **TWIN OUTBOARD SUPPORTS**

XGS Series CNC High Performance Centerless Grinders feature outboard bearing supports for both the grinding and regulating wheel spindles. The twin outboard bearing design provides maximum spindle rigidity and minimum spindle deflection. Add to that, the standard 10,000 SFPM grinding wheel speed, and the XGS Series machine is one high performance centerless grinder.

The internally pre-loaded, super-precision anti-friction bearing design provides 0.000020" dynamic roundness, low coefficient of friction, no adjustments, and ease of disassembly for wheel changes. These twin outboard bearings are equipped with an automatic lubrication system to insure ease of maintenance and maximum performance for the life of the machine.

The non-direct grinding wheel drive system allows for quick grinding wheel change-over while eliminating vibration.



## Quality Construction Features

- ISO 9002 Quality Standards
- Grinding Wheel Outboard Bearing Support for Maximum Rigidity
- Reg Wheel Outboard Bearing Support for Maximum Rigidity
- Heavy-Duty Meehanite Castings for Strength and Longevity
- (CAD) Finite Element & Natural Frequency Analysis for Damping
- Fanuc CNC with Real-Time Regulation of Grinding Cycles
- Servo Controlled Infeed Slide with Precision Ballscrew
- Servo Controlled Grd Wheel Dresser with Precision Ballscrew
- Servo Controlled Reg Wheel Drive for Precision Speed Control
- Quick-Change Grinding Wheel Spindle for Ultimate Efficiency
- Non-Direct Coupled Grd Wheel Spindle Drive Eliminates Vibration
- Unique Coolant Nozzle for Uniform Cooling/Swarf management

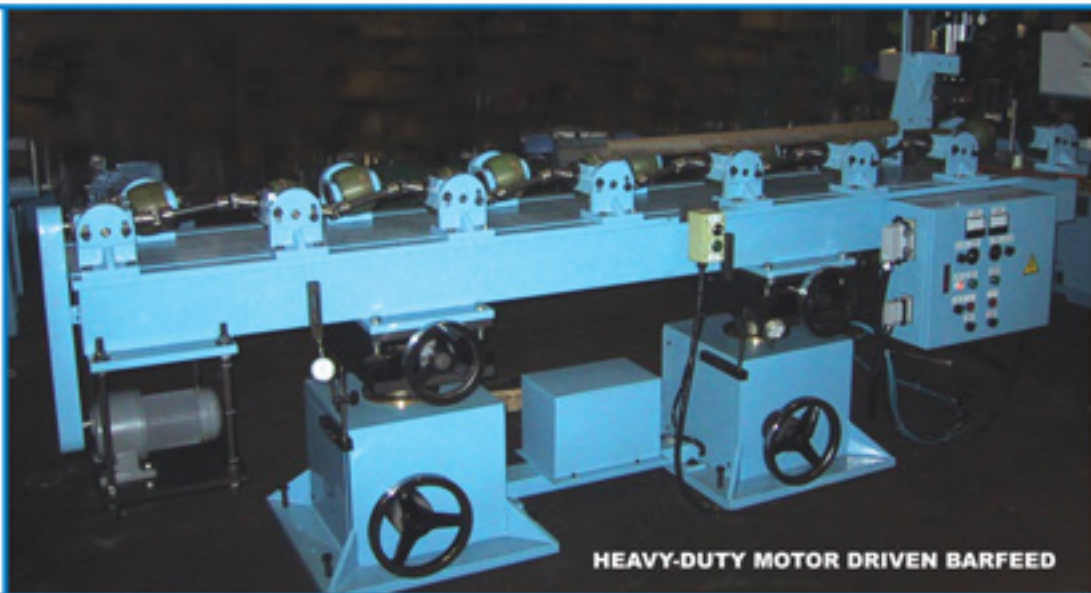
## Standard Equipment and Features



- Grinding Wheel and Flange
- Regulating Wheel and Flange
- Thrufeed Workrest with Blade
- Infeed Workrest with Blade
- Grinding Wheel Truing Unit
- Regulating Wheel Truing Unit
- 2) Diamond Truing Nibs
- Infeed Slide Counter-Weight
- Coolant Pump and Tank Unit
- Tool Box with Tools
- Isolated Hydraulic Unit

## Optional Accessories

- Wheel Balancing Stand with Arbor
- Thrufeed Auto Load & Unload equipment
- Infeed Auto Load & Unload equipment
- Manual Infeed Injector
- Hydraulic Infeed Ejector
- Grinding Wheel Storage Rack  
(can also be used as balancing stand)
- Special Ring Grinding Load Fixture
- Rotary Wheel - Grinding Wheel Dresser
- Power Grinding Wheel Guard Opener
- Wheel Change Jib Cranes
- Extra Grinding Wheel Spindle Cartridge
- Magnetic Coolant Separator
- Paper Coolant Filtration System



HEAVY-DUTY MOTOR DRIVEN BARFEED

## 330-12 XGS



## Machine Specifications

MODEL	330-12XGS	375-20XGS
Grinding Capacity (dia) std workrest	1/2" - 3"	1/2" - 3"
Grinding Capacity (dia) special workrest	2 1/2" - 6"	2 1/2" - 6"
Grinding Wheel Dia. x Width x Hole	24"x12"x12"	24"x20"x12"
Regulating Wheel Dia. x Width x Hole	14"x12"x6"	14"x20"x6"
Grinding Wheel Surface speed (sfpm)	10,000	10,000
Regulating Wheel Speed (Inf Variable)	15-300 rpm	15-300 rpm
Grinding Wheel Drive Motor	30 hp	75 hp
Regulating Wheel Drive Motor	3 hp	4 hp
Regulating Wheel Tilt Angle	-2° - +5°	-2° - +5°
Regulating Wheel Swivel Angle	front 1° rear 2°	front 1° rear 2°
Net weight (Approx)	18,700lbs	22,800lbs

