



Model HV-1000



Model HV-5000



Bladder Fixture & Cylinder Liner



X-Y Axis Table



Turbine Blade Honing



V-6 Engine & Tool



Diesel Injector & Tool



Hydraulic Pump Barrel & Tool

## SERIES HV VERTICAL SPINDLE HONING SYSTEMS

### Barnes Series HV Vertical-Spindle Features

- Full-line of equipment for 0.125" - 30" diameter parts processing
- Stroke lengths from 12" up to 76" in single or multi-spindle configurations
- Robust design and heavy-duty base/column construction for accuracy & repeatability
- Intuitive, menu-driven, programmable system controller, w/color touch-screen PC-based HMI
- Lateral, X-Y and Rotary Index Tables available for parts processing flexibility
- "Open" design allows for easy operator access, maintenance & automation interface
- Compact "Traveling Head" spindle-drive/hone expansion (electromechanical linear actuator)
- Post-Process Parts Gauging options include both Servo-column mounted and Bench-mounted air gauging systems

Specifications	HV-1000	HV-5000	HV-8000
Bore Diameter	0.125" - 3.0"	3.0" - 8.0"	8.0" - 30.0"
Spindle Power (HP)	4.0 - 6.0 HP	7.5 - 15 HP	15.0 - 30.0 HP
Spindle Speeds (RPM)	100 - 3,000	50 - 500	30 - 300
Stroke Length	8.0" - 24.0"	24.0" - 76.0"	24.0" - 76.0"
Spindle Configuration	Single/Multiple	Single/Multiple	Single/Multiple
Voltage Requirement	380 or 460V/50 - 60 Hz	380 or 460V/50 - 60 Hz	380 or 460V/50 - 60 Hz
Stroke Control	Servo-Motor/Ball-Screw	Servo-Motor/Ball-Screw or Hydraulic	Servo-Motor/Ball-Screw or Hydraulic
Reciprocation Speed	Up to 50m/minute	Up to 36m/minute	Up to 36m/minute
Reciprocation Power (HP)	10.0 HP	10.0 HP	15.0 HP
Home Expansion Method	Linear Actuator	Linear Actuator or Hydraulic	Linear Actuator or Hydraulic
Shipping Weight	4,400 lbs	8,000 lbs	12,000 lbs
Approximate Height	96"	128" - 185"	128" - 205"
Approximate Width	57"	64"	80"
Approximate Length	50"	68"	88"