



# HV 1000

VERTICAL SPINDLE HONING MACHINE



BORE DIAMETER 0.125–3" (3–76 MM)  
 STROKE LENGTH 12–49" (305–1245 MM)

## HIGH MATERIAL REMOVAL RATES AND PRECISION

-  Robust design and heavy duty base / column construction for accuracy and repeatability
-  Lateral, X-Y and rotary index tables available for parts processing flexibility
-  Compact "Traveling Head" spindle-drive / hone expansion (ball-screw & servo-motor actuation)
-  Heavy duty base and column providing superior vibration dampening characteristics

THE LATEST TECHNOLOGY WITH A MODULAR DESIGN

**HIGHLIGHTS HV 1000**

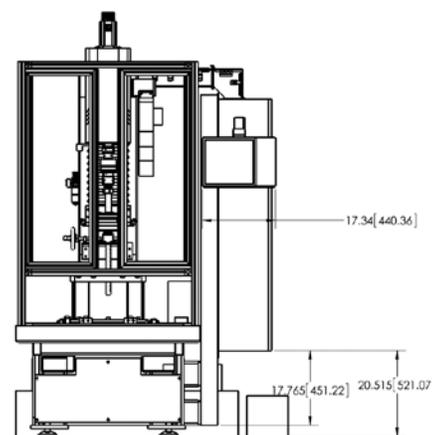
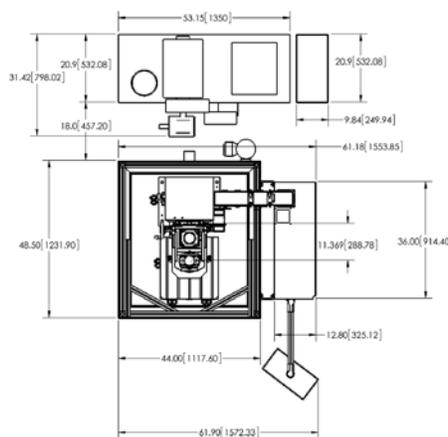
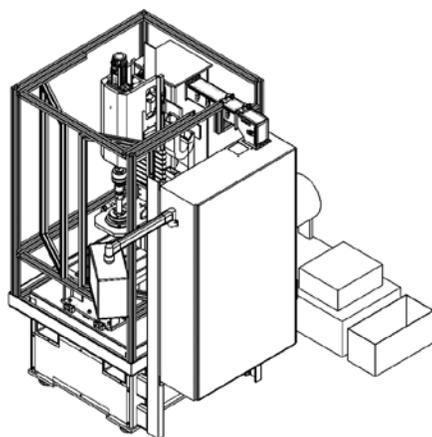
- ✔ Intuitive, menu-driven, programmable system controller, w/color touch-screen PC-based HMI
- ✔ “Open” design allows for easy operator access, maintenance & automation interface
- ✔ In process parts gauging capability

- ✔ Adjustable height (programmable) honing tool guides, auto-lubrication and OSHA safety/splash guards

**OPTIONS**

- ✔ Coolant filtration system
- ✔ Coolant chillers

- ✔ Automated parts handling
- ✔ Barnes Honing offers fully integrated systems and machines for high volume production applications and equipment for low volume job shop applications



TECHNICAL DATA	HV 1000
Bore diameter	0.125 – 3" / 3 – 76 mm
Spindle power	5 HP (3.7kW) to 7.5 HP (5.5 kW)
Spindle speeds (rpm)	0 – 3000
Stroke length	12 – 49" / 305 – 1245 mm
Spindle configuration	single / multiple
Voltage requirement	230 or 460V / 50 – 60 Hz
Stroke control	servo-motor / ball-screw
Reciprocation speed	up to 100' / 30 m per minute
Reciprocation power	10 HP / 7.5 kW
Hone expansion method	linear actuator
Machine weight approx.	4400 lbs / 1996 kg
Machine dimensions [H × W × L]	96 × 57 × 50" / 2440 × 1450 × 1270 mm

**GET IN TOUCH WITH US TODAY**  
**TOGETHER WE WILL FIND A SOLUTION**  
**FOR YOUR REQUIREMENTS**

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