



Model HH-12 Dual-Spindle

Model HH-12 Single-Spindle



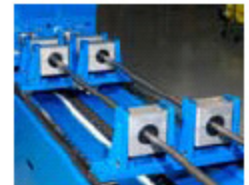
Cannon Barrel Honing



Twin Spindle Drive



Twin Oil Pump Barrel Honing



Twin Spindles



Coolant Injection System



Thin-Walled Tube Chuck Fixture

## SERIES HH HORIZONTAL SPINDLE HONING SYSTEMS

### Barnes Series HH Horizontal-Spindle Features

- Rigid construction for long service life, low cost of ownership and accuracy
- Stroke lengths up to 40' (HH-10 and HH-12) and 80' (HH-25)
- Single or multiple spindle design available (Model HH-12)
- Intuitive, menu-driven, programmable system controller, with color touch-screen HMI
- Choice of hydraulic or linear actuator honing tool expansion
- Process capability of bores from 1" to 42" diameter (also OD honing capability)
- Variety of parts fixturing available for thin wall & thick wall tubes
- Expansion system torque monitoring for automatic "tight spot" detection and correction

Specifications	HH-10	HH-12	HH-25
Maximum Bore Size and Outer Diameter	25.5" Bore, 28" Diameter	4.8" Bore, 5.5" Diameter (Twin Spindle) 25.5" Bore, 28" Diameter (Single Spindle)	39.4" Bore, 42" Diameter
Spindle Power (HP)	15.0 HP	25.0 HP	40.0 HP
Spindle Speeds (RPM)	0 - 500	50 - 500	20 - 200
Stroke Length	Up to 40'	Up to 40'	Up to 80'
Reciprocation Speed	10 - 90'/minute	10 - 70'/minute	10 - 70'/minute
Reciprocation Power (HP)	10.0 HP	15.0 HP	30.0 HP
Spindle Configuration	Single	Single or Twin	Single
Voltage Requirements	380 or 460V/50 - 60Hz	380 or 460V/50 - 60Hz	380 or 460V/50 - 60Hz
Stroke Control	Servo-Motor	Hydraulic or Servo-Motor	Hydraulic or Servo-Motor
Hone Expansion Method	Linear Actuator	Hydraulic or Linear Actuator	Hydraulic or Linear Actuator
Approximate Shipping Weight	15,000 lbs	30,000 lbs. (Twin)	45,000 lbs (Single)
Approximate Length	84' Maximum	84' Maximum	170' Maximum