

# HZ-12 COMPACT

The HZ-12 Centrifugal Barrel Finishing Machine offers exceptional finishing performance in a compact design. With its small footprint and caster wheels, this machine is easily maneuverable and can fit into the smallest production environments. By harnessing pressure and friction, this high-energy finishing machine efficiently removes excess material, polishes part surfaces, and creates a uniform finish. Unlike hand finishing, the HZ-12 achieves isotropic finishes, ensuring consistent and uniform polishing in all directions.



## Machine Specifications

• <b>Main Motor HP</b>	<b>1</b>
• <b>Voltage</b>	<b>110v</b>
• <b>Total Capacity</b>	<b>0.4 Cu. Ft.</b>
• <b>Shipping Weight</b>	<b>700 lbs.</b>
• <b>Dimensions L x W x H</b>	<b>34" x 34" x 55"</b>
• <b>Barrel Length/Diam.</b>	<b>8.375" x 5"</b>
• <b>Max Part Size</b>	<b>8" L x 4.5" D</b>
• <b>Max RPM</b>	<b>250</b>

## Features & Benefits

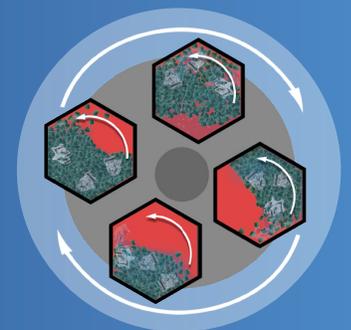
**Small Footprint:** The HZ-12 occupies minimal space, making it a great fit for Lean manufacturing and small-cell operations. Commonly used in the jewelry industry and dental labs, this machine is ideal in production environments where floor space is limited.

**Easy to Maneuver:** The large caster wheels on the HZ-12 base make this machine easy to maneuver throughout your facility.

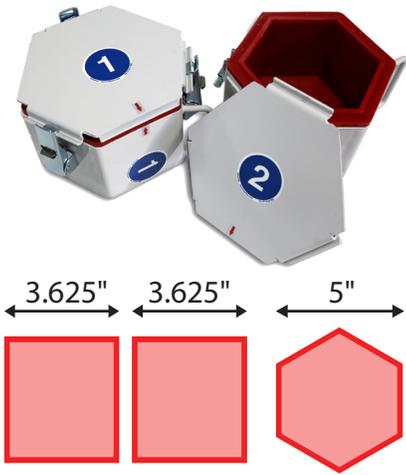
**Variable Frequency Control:** Tailor the speed of the tumble to your specific requirements, ranging from low speeds for simple polishing, to higher speeds of up to 250 RPM for aggressive deburring and radiusing.

## How it Works

Centrifugal barrel finishing is a type of high-energy finishing that uses centrifugal force to subject parts and media to pressures greater than the force of gravity to efficiently finish parts. Our HZ-Series machines reach upwards of 12Gs. The process involves loading the four locking barrels with a mixture of parts, water, compound, and media. As the machine rotates, the barrels spin around the turret on their own axis, creating a sliding force inside the barrel.



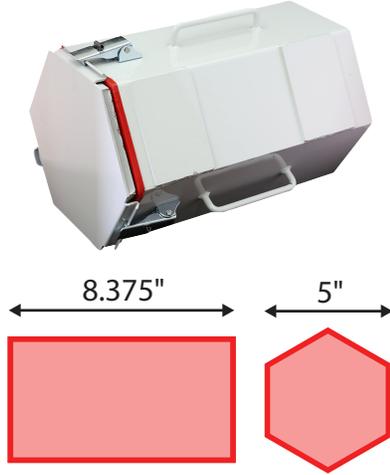
### Half-Size Barrel



**Ideal For:**

- Heavy loads
- Large parts or dedicated runs
- High-mix productions

### Full Size Barrel



**Ideal For:**

- Small, lightweight parts
- Long production runs
- One, high-volume part

## HZ-12 Barrels

The HZ-12 features four cradle positions for locking in processing containers, available in either standard full-size latched-end barrels or half-size latched-in barrels. Each barrel requires only a small amount of media, making the unit ideal for iterative testing with different media types and processing parameters.

Full-size barrels accommodate parts up to 8 inches long and 4.5 inches in outside diameter, while half-size barrels are suited for dividing larger parts or processing small lots of micro-precision components. A second set of barrels enables loading and unloading while the first set is in operation.

### Free Sample Processing

Mass Finishing offers a free sample processing service to help customers determine the right machine for their operation. In our sample processing lab, we'll create a custom recipe and process tailored to your business and designed to produce the exact results you require.



### Scan to Shop Media & Compounds

From media to compounds, MFI offers a wide range of consumable products to support your finishing operations.



### Sample Parts

#### Before



#### After



### Available Accessories

Media and Parts Separating System



PLC Control System



Media Screen Kit



Processing Table with Sludge Tank

