

HZ-6 COMPACT

The HZ-6 Centrifugal Barrel Tumbler is the smallest industrial high-energy tumbler on the market. With heavy-duty steel construction and a one-horsepower motor, this machine is built for all-day, everyday use. This unit features two barrel positions that can each hold one full-size barrel, or two half-size barrels. With rotational speeds of up to 250 RPM, the HZ-6 creates similar performance to other models in MFI's HZ-Series line despite its small stature. All the benefits of isotropic superfinishing are now available in a smaller, more affordable package.

Machine Specifications

Drive Motor	1HP TEFC
Voltage	110V Single Phase
Total Capacity	0.2 Ft ³ 6 Liters
Shipping Weight	310 Lbs
Dimensions	23"W x 37"D x 47.5"H
Full-Sized Barrel	8.375"L x 5"Dia
Half-Sized Barrel	3.625"L x 5"Dia
Max Part Size	8"L x 4.5"Dia
Max RPM	250

Features & Benefits

Small Footprint:

The HZ-6 occupies less than six square feet of floor space, making it ideal for tight spaces. The heavy-duty base allows for little to no movement when in operation.

Variable Speed Controller & Timer:

The digital RPM and Time selector allows you to adjust the main parameters of the unit. This allows you to slow down for light polishing or speed up for heavy deburring.

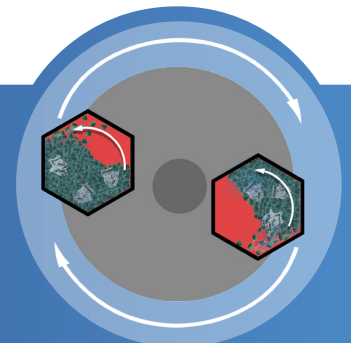
Simple Construction:

With a one-piece hood, just two cradle positions, and simple tool-less lockdown bar, the HZ-6 has everything you need to get started in high-energy isotropic polishing.



How it Works

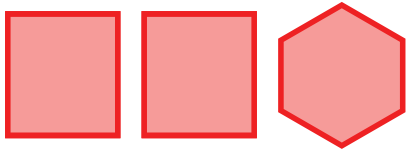
Centrifugal barrel finishing is a type of high-energy finishing that uses centrifugal force to subject parts and media to pressures greater than the force of gravity to efficiently finish parts. Our HZ-6 machine reaches upwards of 12Gs. The process involves loading the two locking barrels with a mixture 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



3.625" 3.625" 5"



Ideal For:

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

Full-Size Barrel



8.375" 5"



Ideal For:

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

HZ-6 Barrels

The HZ-6 features two cradle positions for locking in processing containers, available in either standard full-size barrels or half-size 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.

Sample Parts

Dental

Before



After



Jewelry

Before



After



Precision Machined

Before



After



Try Before You Buy

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.



Shop Media & Compounds



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

