



HZ-160

WIDE DIAMETER

These machines are ideal for parts that have a larger diameter, or for more efficiently running parts that are over 5" in length.



HZ-12

COMPACT

With their small footprints, these machines can fit into the smallest production environments.



HZ-330

HIGH CAPACITY

These tumblers are ideal for those needing a machine that can handle large parts, or to process higher volume parts.



HZ-85

HIGH EFFICIENCY

Experience superior efficiency and expanded capacity with this line of finishers. They are the ideal choice for those looking for high efficiency or ample space to process their parts.

Special Features:

High Speed- HZ-Series centrifugal barrel finishers can deburr and polish parts in a fraction of the time compared with other conventional methods. A part that takes four hours to finish in a vibratory tumbler can be done in just 20 minutes or less. Single digit Ra surface finishes are possible.

Divided Barrels- A key advantage with barrel tumbling is the ability to easily separate small parts into their own compartment through the use of barrel dividers. This helps to avoid part-on-part impingement and damage from parts hitting each other.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at lower speeds. Higher speeds allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes HZ-Series machines extremely safe to operate. The hood is securely locked during cycles. Timers and industrial switches and controls make running the machine simple. The barrel cover lift eliminates the heavy lifting.

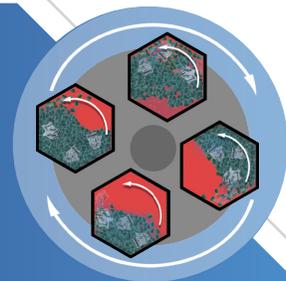
Isotropic Finishing- The finish achieved by centrifugal barrel tumbling machines is isotropic. This means the surface is consistent in all directions unlike hand polishing.

Industries:

- Medical Device & Implants*
- Automotive & Transportation*
- Aerospace & Defense*
- Contract Manufacturing*
- Industrial Equipment*
- Dental & Orthodontics*
- Additive*
- Firearms & Munitions*
- Knife*
- Jewelry & Accessories*

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.



	COMPACT			HIGH EFFICIENCY			WIDE DIAMETER		HIGH CAPACITY	
	HZ-6	HZ-12	HZ-40	HZ-60	HZ-85	HZ-175	HZ-120	HZ-160	HZ-220	HZ-330
MODELS										
Main Motor HP	1	1	3	5	7.5	15	15	10	15	30
Voltage	110V	110V	230-460V	230-460V	230-460V	230-460V	230-460V	230-460V	230-460V	230-460V
Total Capacity	0.2 Ft ³	0.4 Ft ³	1.4 Ft ³	2.0 Ft ³	3.0 Ft ³	6.0 Ft ³	7.1 Ft ³	4.7 Ft ³	8.0 Ft ³	12.8 Ft ³
Shipping Weight	310 Lbs	700 Lbs	1,280 Lbs	3,000 Lbs	3,300 Lbs	7,000 Lbs	3,500 Lbs	2,900 Lbs	5,200 Lbs	6,800 Lbs
Dimensions (WxLxH)	23"x37"x47.5"	34"x34"x55"	47"x38"x49"	68"x39"x94"	77"x39"x94"	102"x57"x86"	74"x57"x106"	102"x57"x86"	86"x57"x106"	101"x65"x123"
Barrel Dimensions (LxDia)	8.375"x5"	8.375"x5"	12.5"x6.75"	25.75"x5.8"	33.5"x5.8"	48"x8"	20.625"x11.8"	17"x10.25"	27.375"x11"	41.4"x11.9"
Max Part Size	8"x4.5"	8"x4.5"	11"x5.5"	25.25"x5.25"	33"x5.25"	47"x7"	20"x11"	16"x9.5"	26.5"x10"	40.75"x11"
Max RPM	250	250	225	225	225	150	150	150	135	115

Features and Options



Cover Lift

Pneumatic system for easily opening barrels. Eliminates heavy lifting of covers.



Barrel Dividers

Keep precision parts separate during the tumbling process to avoid damage.



Media Separator

Dump full barrels to easily separate media and parts.



Safety Light Curtains

Added measure of safety during loading/unloading processes. Disables all machine functions when infrared curtain is broken.



PLC Option

Store processes for various parts and cycle steps. Allows for more automation and machine monitoring. **Standard panel features analog buttons.**

Free Sample Processing



Mass Finishing offers a free sample processing service to demonstrate how our equipment and media will work on your parts. Call or email us today at sales@massfin.com to learn more about our processing lab.