

## Special Features:

**High Speed-** HZ-Series centrifugal barrel finishers can debur 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 and Implants
- ✓ Aerospace and Defense
- ✓ Automotive and Transportation
- ✓ Machine Tooling
- ✓ Jewelry and Accessories
- ✓ Firearm and Ammunition
- ✓ Dental and Orthodontics
- ✓ Oil and Gas



**HZ-160**  
CENTRIFUGAL BARREL FINISHER

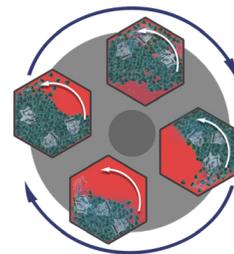
**HZ-40**  
CENTRIFUGAL BARREL FINISHER

**HZ-85**  
CENTRIFUGAL BARREL FINISHER

## How it Works

Centrifugal barrel finishing machines operate on the "Ferris Wheel" principle with a one-to-one ratio of barrel rotation to turret rotation. Each of the four barrels is loaded to roughly 50-80% full of media, parts, water, and compound. During operation, rotation of the turret

creates a sliding force inside the barrel. This motion causes parts and media to contact each other in random or isotropic directions. The resulting finish is consistent across the entire surface of the part. MFI provides complete sample processing, and stocks all required media and supplies.



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Mass Finishing, Inc. is a 100% employee owned company. It is part of Innovance, a holding company for a family of industrial manufacturing businesses.



**HZ-12**

**HZ-40**

**HZ-60**

**HZ-85**

**HZ-120**

**HZ-160**

**HZ-220**

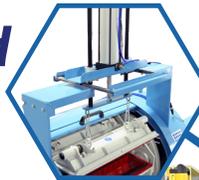
**HZ-330**

**Models**



<b>Main Motor HP</b>	1	3	5	7.5	10	15	15	30
<b>Voltage</b>	110v	230-460v						
<b>Total Capacity</b>	.4 Cu. Ft.	1.4 Cu. Ft.	2 Cu. Ft.	3 Cu. Ft.	4.7 Cu. Ft.	7.1 Cu. Ft.	8 Cu. Ft.	12.8 Cu. Ft.
<b>Shipping Weight</b>	700 lbs.	1280 lbs.	3000 lbs.	3300 lbs.	2900 lbs.	3500 lbs.	5200 lbs.	6800 lbs.
<b>Dimensions L x W x H</b>	32" x 31" x 55"	47" x 38" x 49"	68" x 39" x 94"	75" x 39" x 94"	71" x 57" x 75"	74" x 57" x 75"	81" x 57" x 75"	90" x 56" x 80"
<b>Barrel Length/Diam.</b>	8.375" x 5"	12.5" x 6.75"	25.75" x 6"	33.5" x 6"	17.25" x 10.25"	20.75" x 12"	27.5" x 12"	42" x 12"
<b>Max RPM</b>	250	225	225	225	150	150	135	115

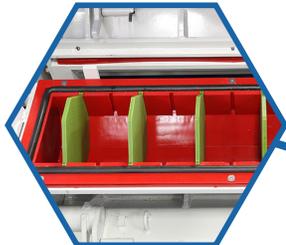
**Features and Options**



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



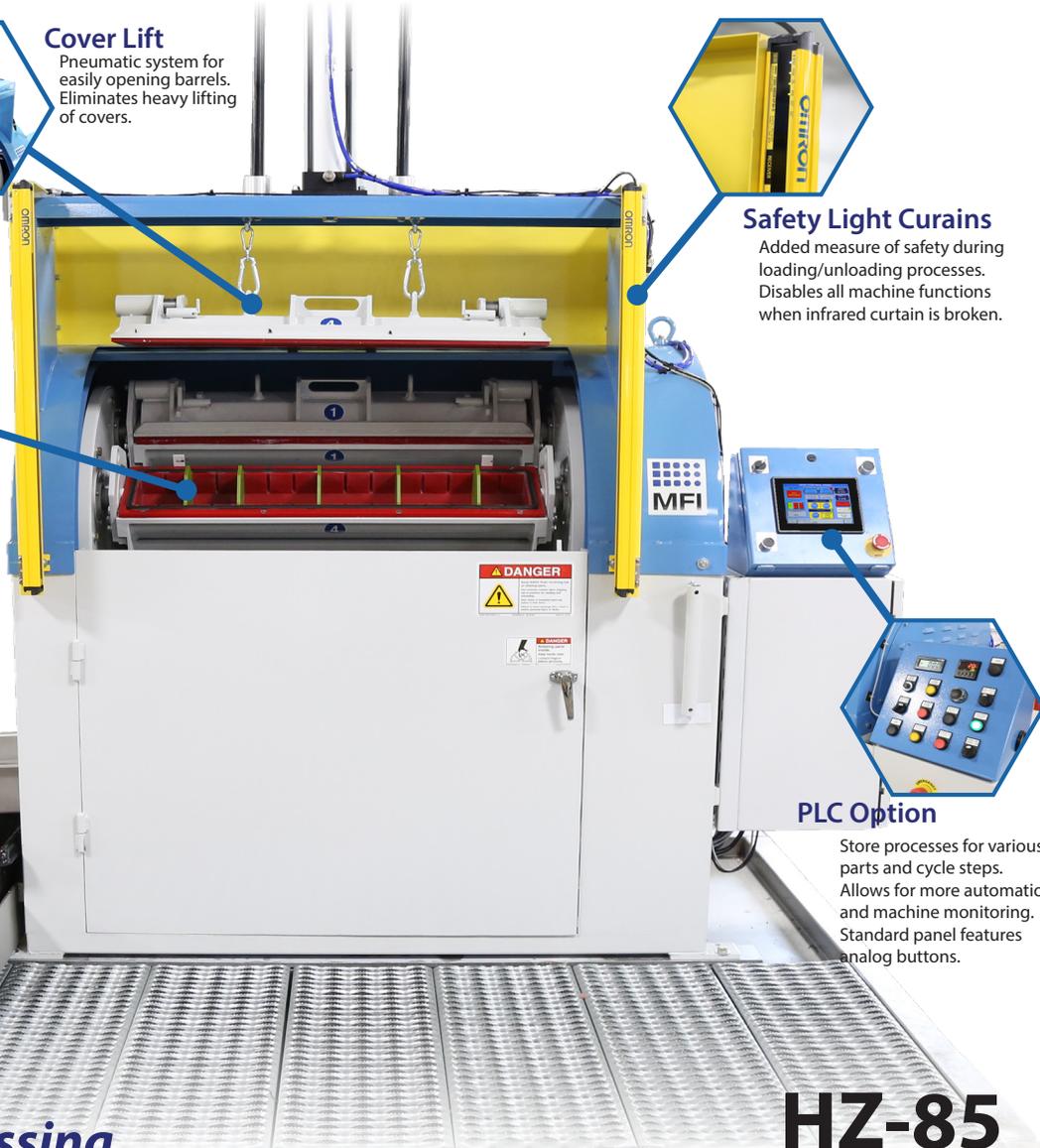
**Safety Light Curains**  
Added measure of safety during loading/unloading processes. Disables all machine functions when infrared curtain is broken.



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



**Media Separator**  
Dump full barrels to easily separate media and parts.



**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**

**HZ-85**  
CENTRIFUGAL BARREL FINISHER



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](mailto:sales@massfin.com) to learn more about our processing lab.