MFI
MASS FINISHING, INC.

HZ-Series

CENTRIFUGAL BARREL FINISHERS

HZ-12 HZ-40 HZ-60 HZ-85 HZ-120 HZ-160 HZ-220 HZ-330

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sales@massfin.com
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HZ-12

CENTRIFUGAL BARREL FINISHER

Special Features:

Compact Size- The small footprint of the HZ-12 makes it easy to fit into most productions without sacrificing any finishing speed or results. The large caster wheels on the base make it easy to maneuver around the production facility.

Removable Barrels- The HZ-12 comes standard with four removable barrels. By purchasing a second set of barrels the operator can reload while the other set is running.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 250 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-12 extremely safe to operate. The hood is securely locked during cycles. Timers and industrial switches and controls make running the machine simple.

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

Main Motor HP	1
Voltage	120
Total Capacity	12 Liters
Shipping Weight	700
Dimensions LxWxH	34"x30"x30"
Barrel Length/Diameter	8.375"x5"
Max G-Force	11.32

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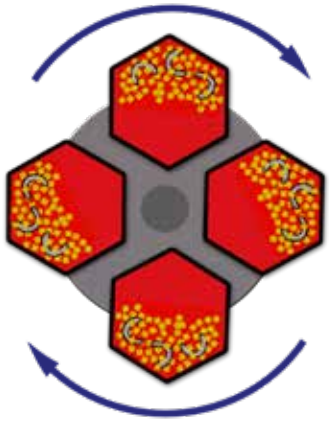
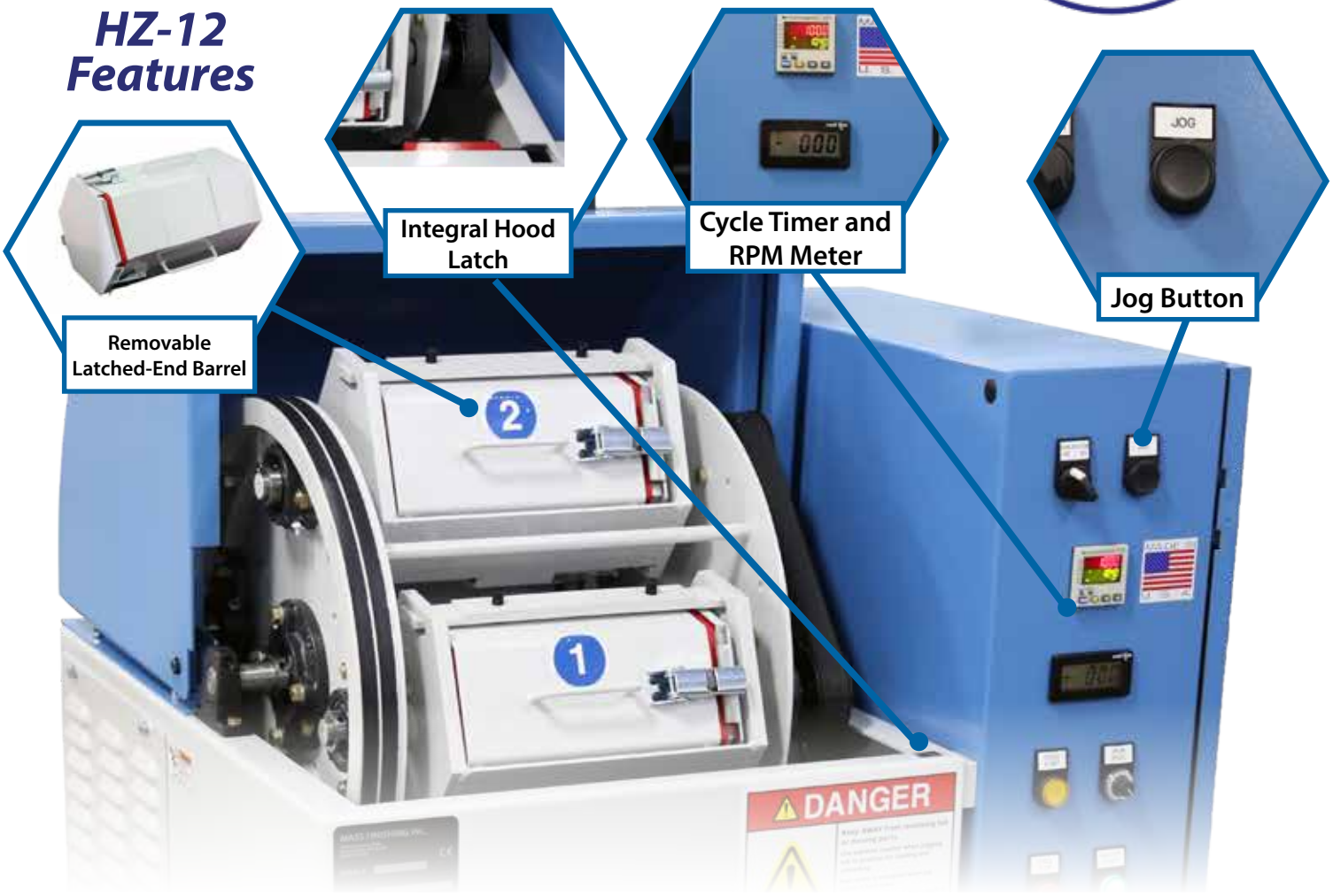
How it Works

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.



HZ-12 Features



Featured Accessory

Media and Parts Separating System

PSA-FS 1660

Optional Accessories

Extra Barrels

Media Drain Basket

Manual Media Separtor Kit

Processing Table with sludge tank

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HZ-40
CENTRIFUGAL BARREL FINISHER

Special Features:

Compact Size- The small footprint of the HZ-40 makes it easy to fit into most productions without sacrificing any finishing speed or results.

Removable Barrels- Four barrel options make the HZ-40 extremely versatile. Each barrel configuration provides its own unique advantages. By purchasing a second set of barrels the operator can reload while the other set is running.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 225 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-40 extremely safe to operate. The hood is securely locked during cycles. Timers and industrial switches and controls make running the machine simple.

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

Main Motor HP	3
Voltage	230/460 Volt
Total Capacity	1.4 Cu. Ft.
Shipping Weight	1280 lbs.
Dimensions	47" L x 38"W x 49" H
Max G Force	11.32

Barrel Options

2 Sided Barrels (Can use dividers)	8.75"x5.75"
Bolted End Barrels (High Pressure)	11"x5.875"
Latched End Barrels (Highest Capacity)	12.5"x6.875"
Two Half Barrels (8 Total)	5.375"x6.875"

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How it Works

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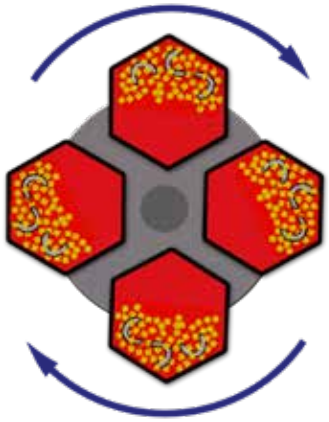


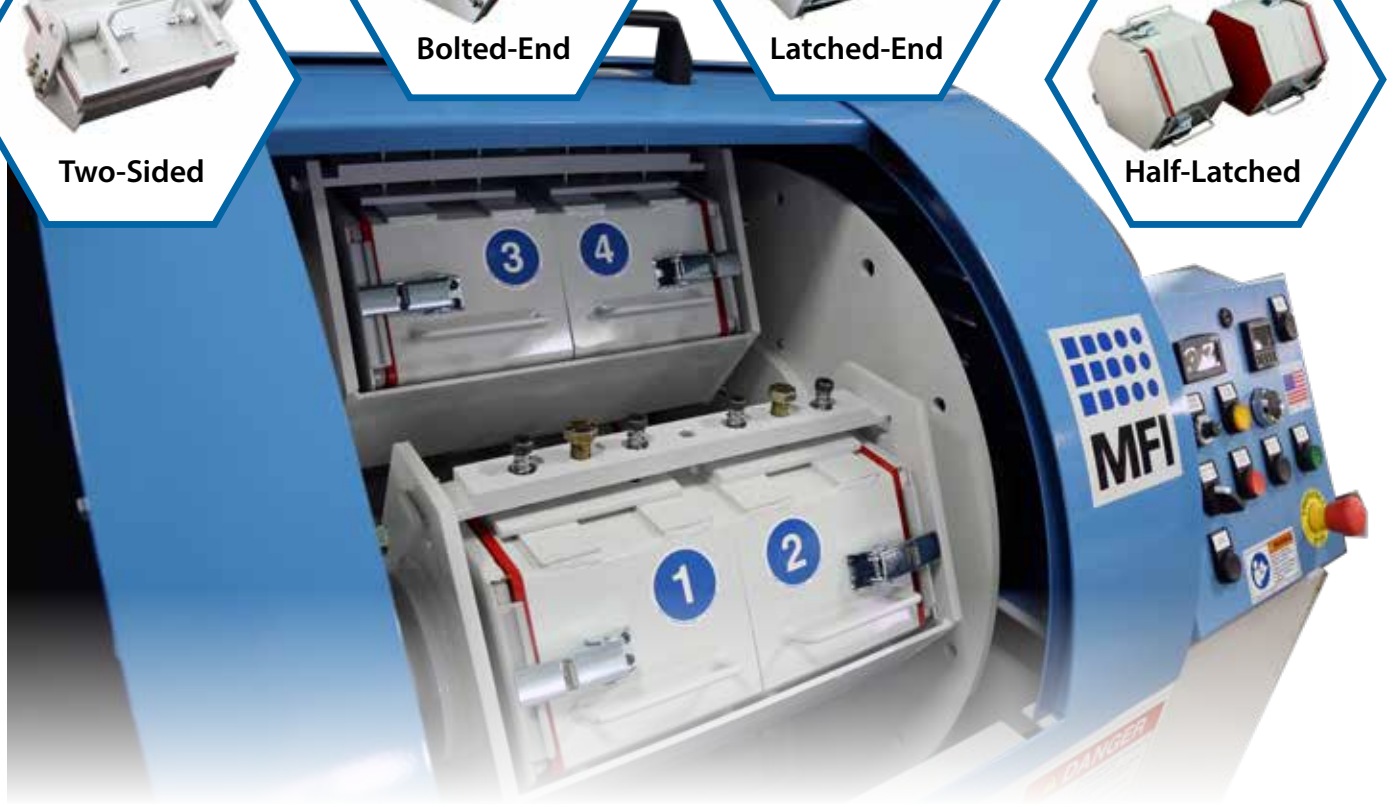
FOUR BARREL OPTIONS

Two-Sided

Bolted-End

Latched-End

Half-Latched



Featured Accessory

Media and Parts Separating System

PSA-FS 1660

Optional Accessories

Electronic Hoist

Media Drain Basket

Manual Media Separtor Kit

Processing Table with sludge tank

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HZ-60

CENTRIFUGAL BARREL FINISHER

Special Features:

Full Size Production- The HZ-60 provides more than double the capacity and efficiency over the compact centrifugal barrel tumblers like the HZ-12 and HZ-40.

Wide Barrels- The HZ-60 features a 25.75 inch wide barrel that can be divided up to create several chambers inside each of the four barrels. This is an critical feature when part-on-part impingement needs to be avoided.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 225 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-60 extremely safe to operate. The hood is securely locked during cycles. A built in cover lift with industrial timers and switches make running the machine simple.

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

Main Motor HP	7
Barrel Rotation Motor HP	1.15
Voltage	230/460
Total Capacity	2 Cu. Ft.
Shipping Weight	3000 lbs.
Dimensions LxWxH	68"x40"x90"
Barrel Length/Diameter	25.75"x5.875"
Max RPM	225

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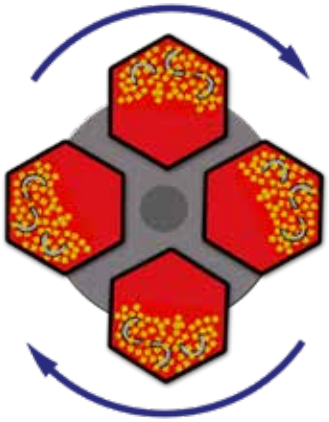
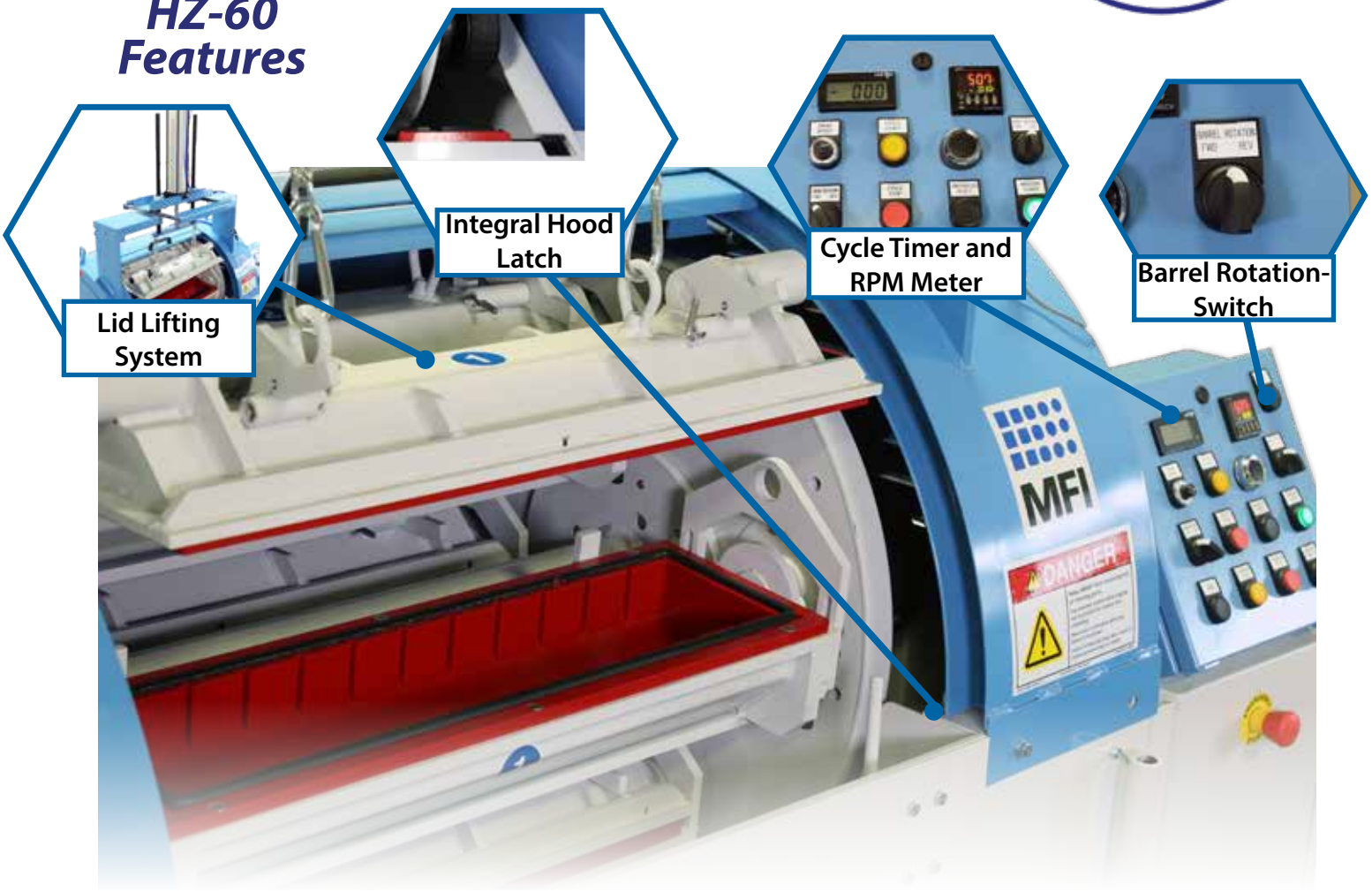


HZ-60 Features



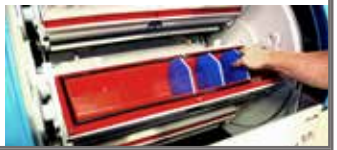
Featured Accessory

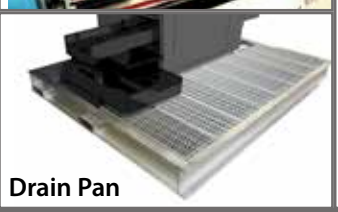
Media and Parts Separating System

Optional Accessories

PLC Control System

Barrel Dividers





Drain Pan

Processing Table with sludge tank

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HZ-85

CENTRIFUGAL BARREL FINISHER

Special Features:

Full Size Production- The HZ-85 provides more than double the capacity and efficiency over the compact centrifugal barrel tumblers like the HZ-12 and HZ-40.

Wide Barrels- The HZ-85 features a 34 inch wide barrel that can be divided up to create several chambers inside each of the four barrels. This is an critical feature when part-on-part impingement needs to be avoided.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 225 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-85extremely safe to operate. The hood is securely locked during cycles. A built in cover lift with industrial timers and switches make running the machine simple.

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

Main Motor HP	7
Barrel Rotation Motor HP	1.15
Voltage	230/460
Total Capacity	3 Cu. Ft.
Shipping Weight	3300 lbs.
Dimensions LxWxH	75"x38"x92"
Barrel Length/Diameter	34"x6"
Max RPM	225

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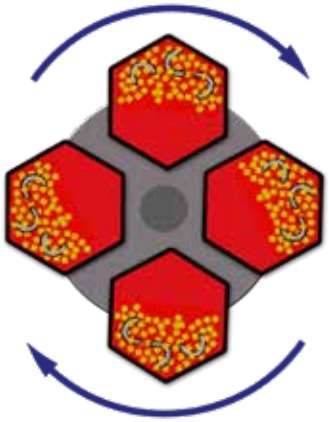
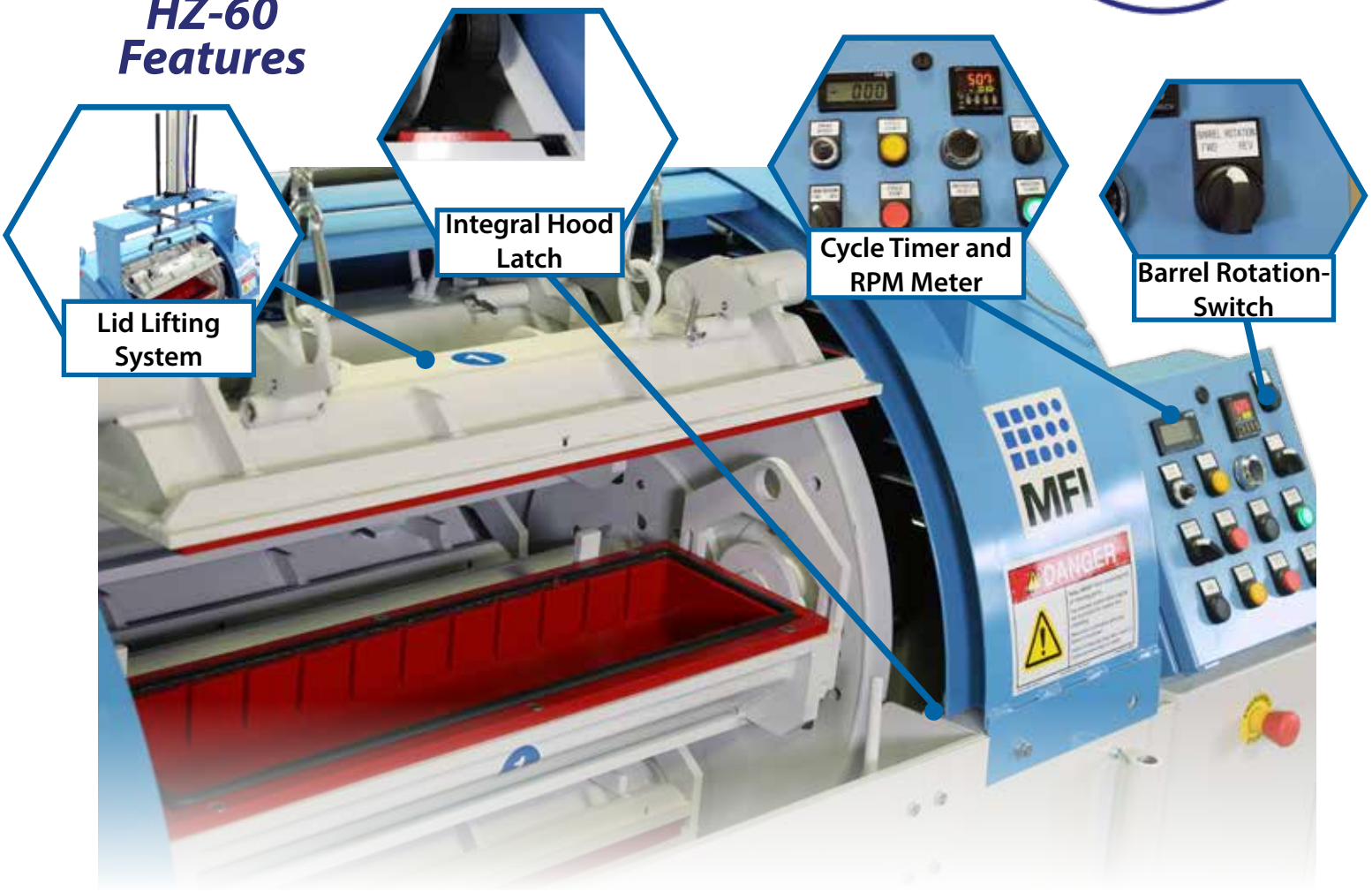


HZ-60 Features



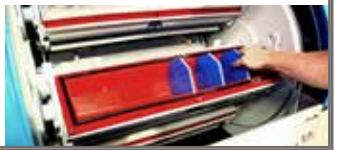
Featured Accessory

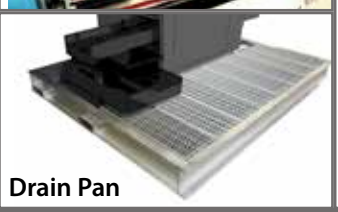
Media and Parts Separating System

Optional Accessories

PLC Control System

Barrel Dividers





Drain Pan

Processing Table with sludge tank

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HZ-120

CENTRIFUGAL BARREL FINISHER

Special Features:

Full Size Production- The HZ-120 provides more than double the capacity and efficiency over the compact centrifugal barrel tumblers like the HZ-12 and HZ-40.

Deep Barrels- The HZ-120 features a 10.25 inch diameter by 17.25 inch barrel that can be divided up to create several chambers inside each of the four barrels. This is an critical feature when part-on-part impingement needs to be avoided.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 150 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-120 extremely safe to operate. The hood is securely locked during cycles. A built in cover lift with industrial timers and switches make running the machine simple.

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

Main Motor HP	10
Barrel Rotation Motor HP	2
Voltage	230/460
Total Capacity	4.7 Cu. Ft.
Shipping Weight	2900 lbs.
Dimensions LxWxH	66"x54"x76"
Barrel Length/Diameter	17.25"x10.25"
Max RPM	150

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How it Works

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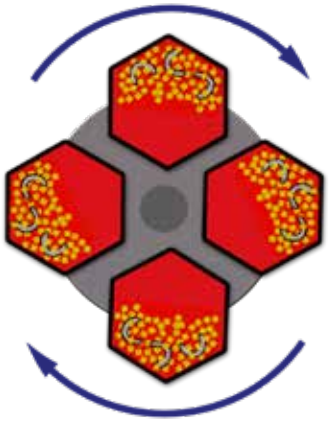
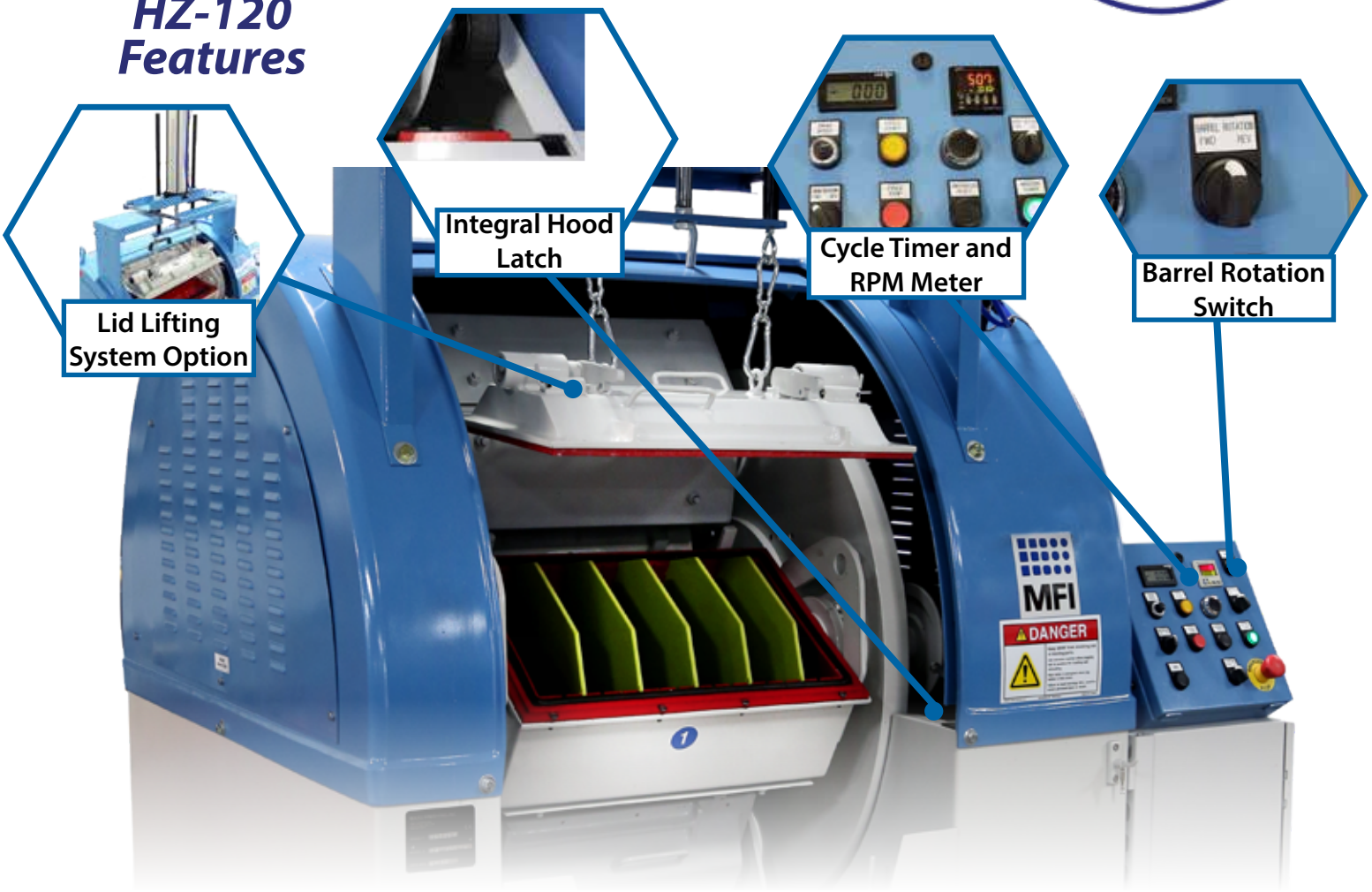


HZ-120 Features



Featured Accessory

Media and Parts Separating System

Optional Accessories

PLC Control System

Barrel Dividers

Drain Pan

Processing Table with sludge tank

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HZ-160

CENTRIFUGAL BARREL FINISHER

Special Features:

Full Size Production- The HZ-160 provides more than double the capacity and efficiency over the compact centrifugal barrel tumblers like the HZ-12 and HZ-40.

Deep Barrels- The HZ-160 features a 12 inch diameter by 20.75 inch long barrel that can be divided up to create several chambers inside each of the four barrels. This is an critical feature when part-on-part impingement needs to be avoided.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 150 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-160 extremely safe to operate. The hood is securely locked during cycles. A built in cover lift with industrial timers and switches make running the machine simple.

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

Main Motor HP	15
Barrel Rotation Motor HP	2
Voltage	230/460
Total Capacity	7.1 Cu. Ft.
Shipping Weight	3500 lbs.
Dimensions LxWxH	70"x54"x76"
Barrel Length/Diameter	20.75"x12"
Max RPM	150

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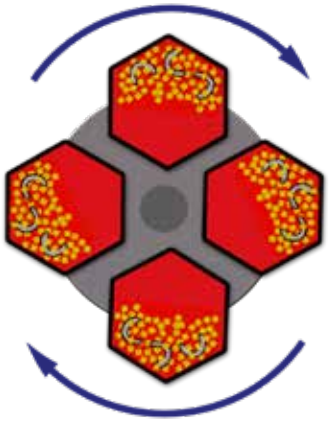
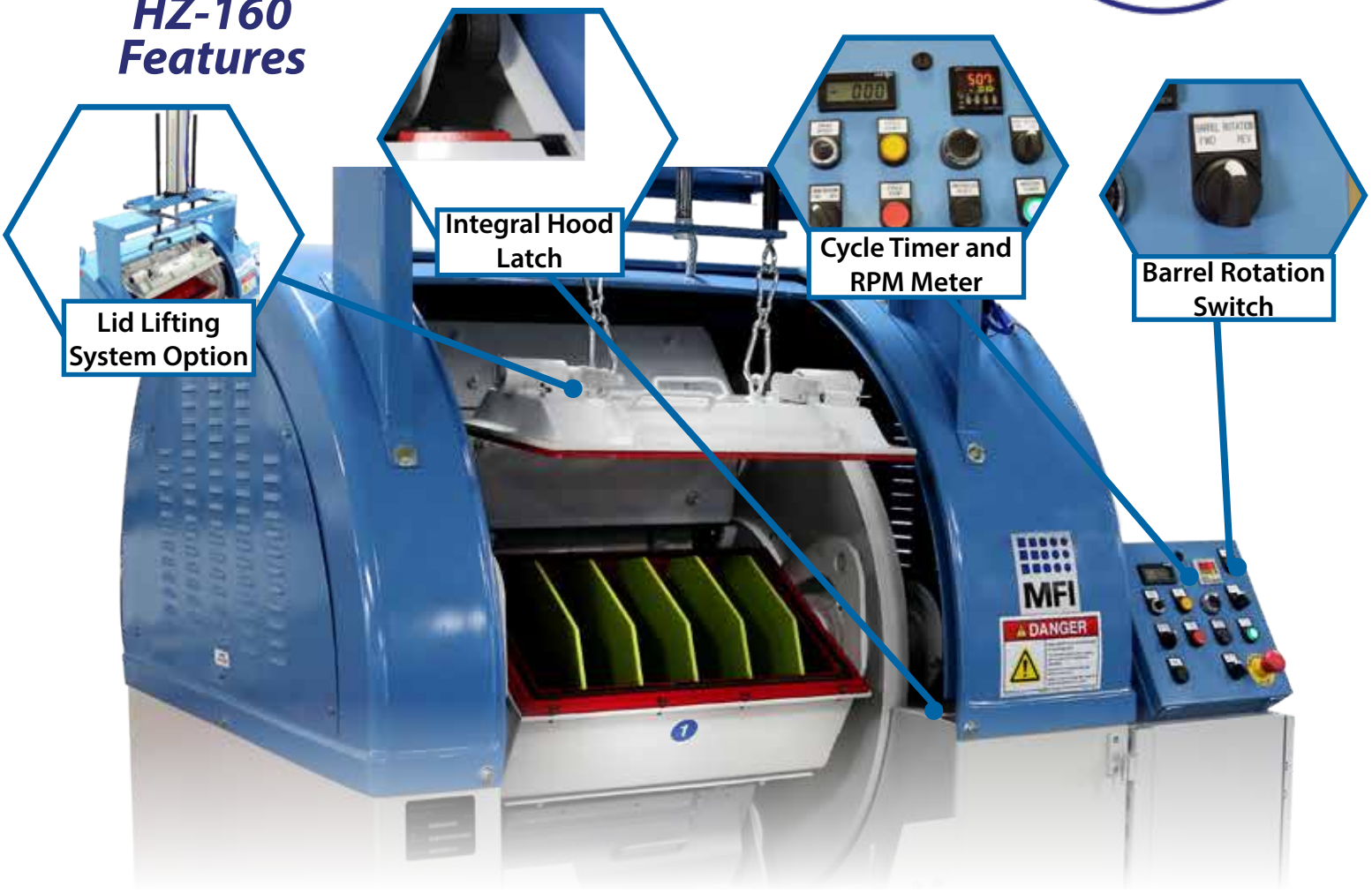
How it Works

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.



HZ-160 Features



Featured Accessory

Media and Parts Separating System

Optional Accessories

PLC Control System

Barrel Dividers

Drain Pan

Processing Table with sludge tank

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HZ-220

CENTRIFUGAL BARREL FINISHER

Special Features:

Full Size Production- The HZ-220 provides more than double the capacity and efficiency over the compact centrifugal barrel tumblers like the HZ-120 and HZ-60.

Deep Barrels- The HZ-220 features a 12 inch diameter by 27.5 inch long barrel that can be divided up to create several chambers inside each of the four barrels. This is an critical feature when part-on-part impingement needs to be avoided.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 135 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-220 extremely safe to operate. The hood is securely locked during cycles. A built in cover lift with industrial timers and switches make running the machine simple.

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

Main Motor HP	15
Barrel Rotation Motor HP	2
Voltage	230/460
Total Capacity	8 Cu. Ft.
Shipping Weight	5200 lbs.
Dimensions LxWxH	75"x54"x76"
Barrel Length/Diameter	27.5"x12"
Max RPM	135

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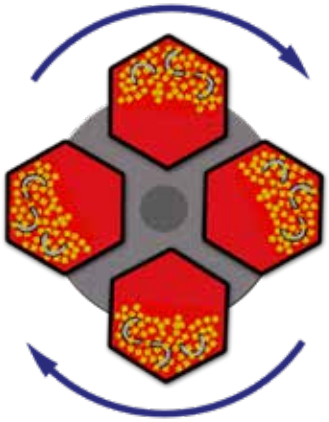
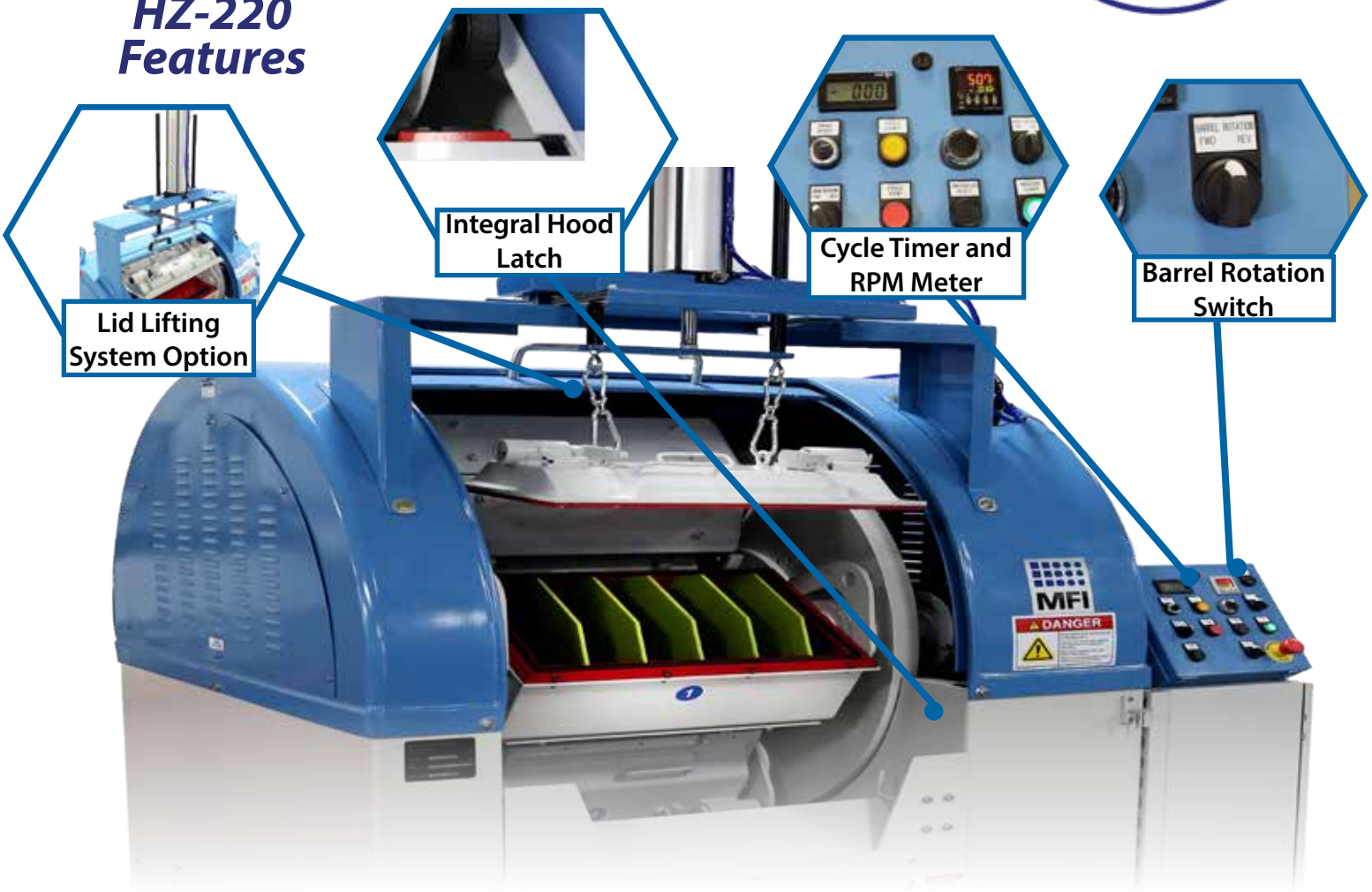


HZ-220 Features



Featured Accessory

Media and Parts Separating System

Optional Accessories

PLC Control System

Barrel Dividers

Drain Pan

Processing Table with sludge tank

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HZ-330

CENTRIFUGAL BARREL FINISHER

Special Features:

Full Size Production- The HZ-330 provides more than double the capacity and efficiency over the compact centrifugal barrel tumblers like the HZ-120 and HZ-160.

Deep Barrels- The HZ-330 features a 12 inch diameter by 42 inch long barrel that can be divided up to create several chambers inside each of the four barrels. This is an critical feature when part-on-part impingement needs to be avoided.

Variable Frequency Control- With the ability to control the speed of the tumble, the operator can polish and achieve finer finishing at low speeds. Higher speeds, up to 115 RPM, allow for aggressive deburring and edge radiusing.

Safe and Easy Operation- The integral hood switch and two-button jog requirement makes the HZ-330 extremely safe to operate. The hood is securely locked during cycles. A built in cover lift with industrial timers and switches make running the machine simple.

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

Main Motor HP	25
Barrel Rotation Motor HP	2
Voltage	230/460
Total Capacity	12.8 Cu. Ft.
Shipping Weight	6800 lbs.
Dimensions LxWxH	90"x56"x80"
Barrel Length/Diameter	42"x12"
Max RPM	115

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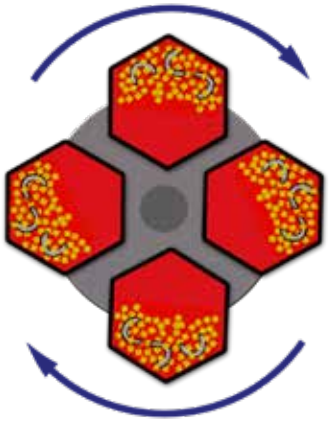
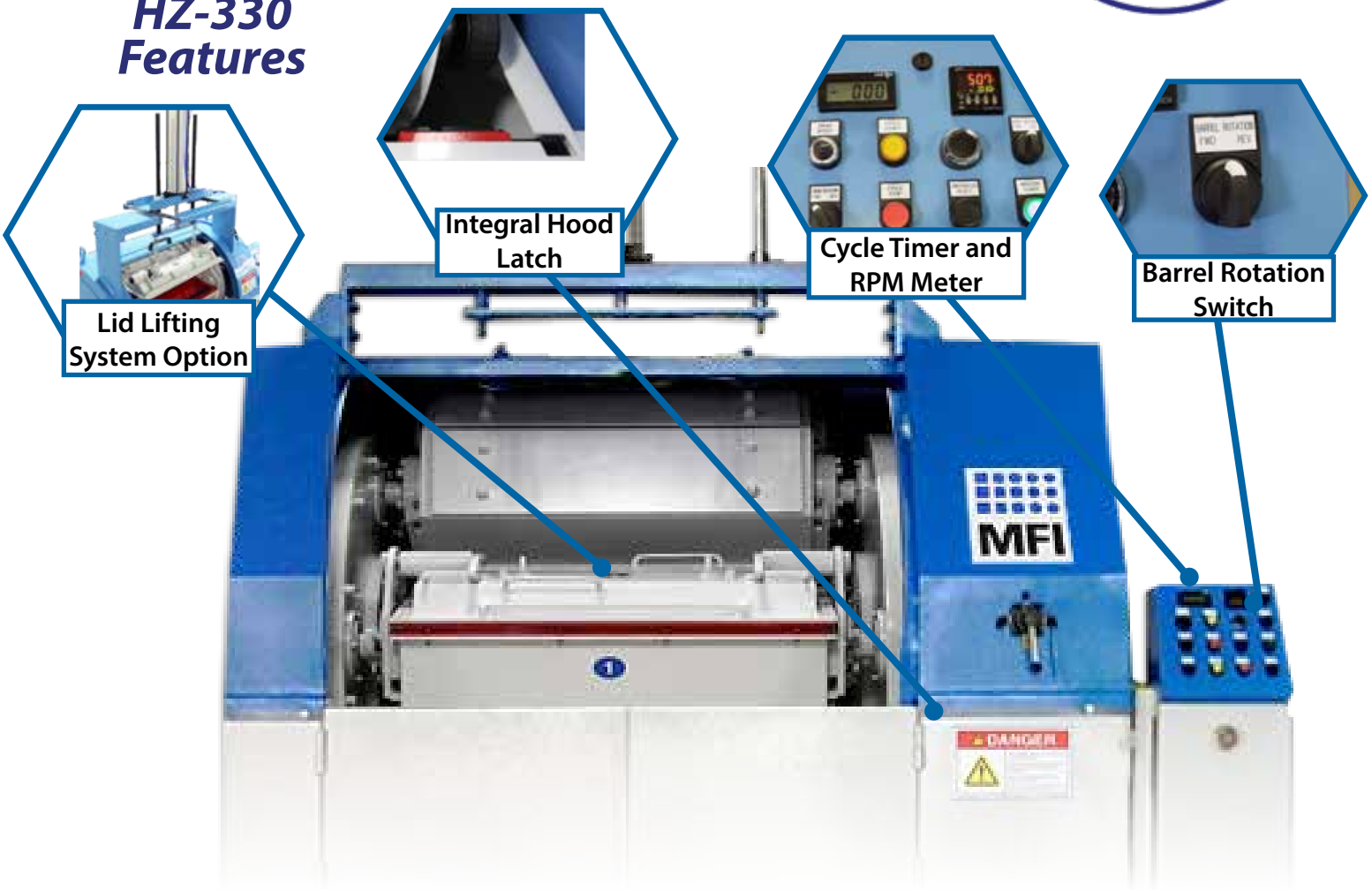


HZ-330 Features



Featured Accessory

Media and Parts Separating System

Optional Accessories

PLC Control System

Barrel Dividers

Drain Pan

Processing Table with sludge tank

MFI
MASS FINISHING, INC.

HZ-Series

CENTRIFUGAL BARREL FINISHERS

HZ-12 HZ-40 HZ-60 HZ-85 HZ-120 HZ-160 HZ-220 HZ-330

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