

HAMMERMILL LINE FOR MEDIUM TO EXTRA FINE GRINDING



CARTER DAY

MULTI-ZONE HAMMERMILL



The MZH Hammermill is used for grinds that require medium to fine particle size reduction. It can be used on all free flowing granular materials ranging from alfalfa to wheat.

The Dual Rotation Multi-Zone Hammermill consist of a double radius cutting plate with staggered slotted rows and off-set rotor with 3/16" hammer to cutting plate clearance .

The cutting plates offer significant size reduction prior to the products contact to the screen making size reduction more effective.

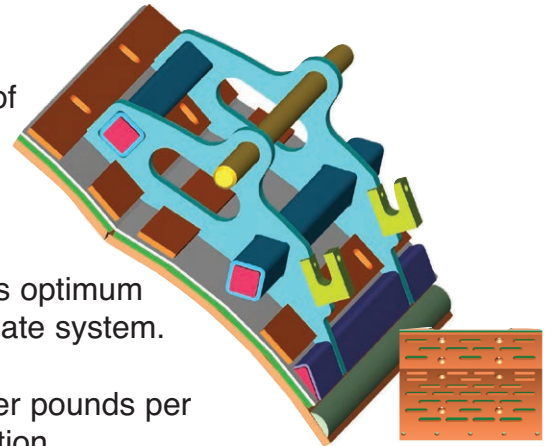
We also use a use of Secondary Cutting Plate at the screen carriage discharge offering product flow interruption sending it back into the hammers path for further size reduction .



Since we are using cutting plates to perform a significant portion of the size reduction, we are able to use larger screen perforations. Larger hole allows thicker screens for extended screen life and reduced air venting volumes required.

The hammer tip speed is up to 19,200 feet per minute which gives optimum grinding performance when used in conjunction with our cutting plate system.

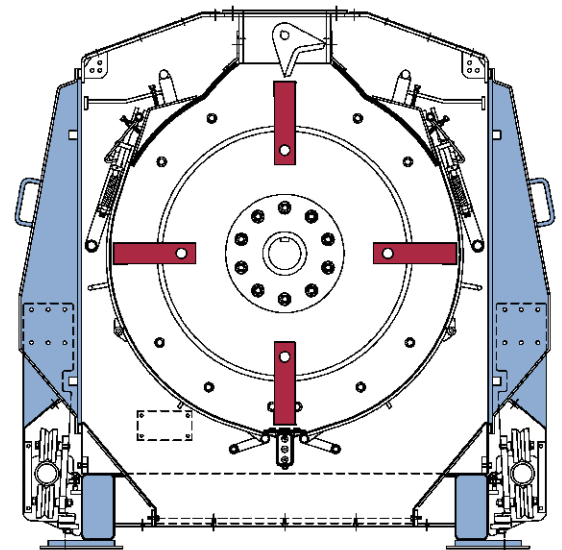
In conclusion, compared to other mills all of this offers you a higher pounds per horsepower per hour production or horsepower savings in production.



The drive package is factory aligned to a rigid tubular frame for accurate alignment of motor and mill. We use a direct drive coupling which allows for exceptional alignment and reliability. The stub shaft bearings are of the highest industrial grade providing long life and reliability.

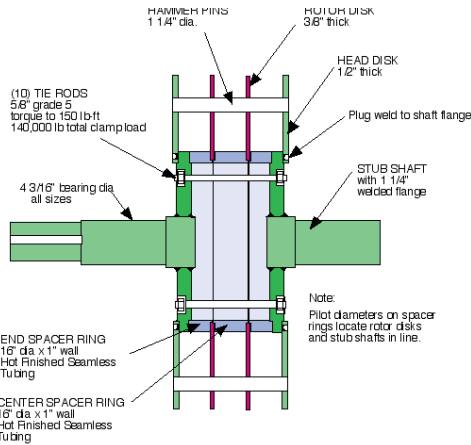
THE SERVICEABILITY OF THIS MACHINE MATCHES ITS EXCEPTIONAL SIZE REDUCTION CAPABILITIES:

- Double roller glide doors
- Two point pivotal screen carriage design
- Two piece screen design for easy replacement
- Side slide out rotor access
- Easy Hammer replacement
- Easy Pin and Collar Replacement
- Keyed Bearing Replacement
- Highest quality Hammers and Screens
- Replaceable AR Wear Liner Kits Available



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MZH AND COMMANDER HAMMERMILL ROTOR DESIGN



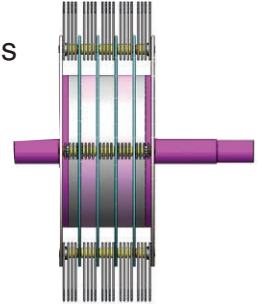
The design of our patented stub shaft rotor assembly is unique:

10 times stronger bending and torsional stiffness than conventional rotors.

18% lighter rotor, yet provides 18% greater stored kinetic energy

Increased diameter of spacer rings eliminates need for hammer bumper rods.

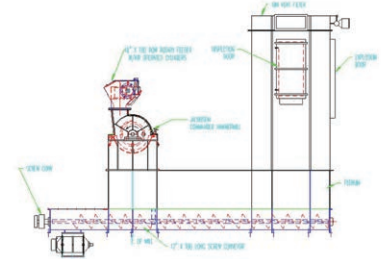
Stub shaft design allows for lower cost replacement



Hammermills need CFM in order to perform to their fullest potential so we offer the following options: Air discharge sub-base are designed for each of our models which include an air velocity control damper.

We have Bin-Vent System designed for each of our MZH Models. We provide the system less the product collector.

We also have many alliances with Product Collector companies who can assist you.



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POCKET FEEDER AND FEED OPTIONS



STAINLESS STEEL POCKET FEEDER TO HANDLE ALL FREE FLOWING GRANULAR MATERIALS. THE FEEDER OFFERS THE FOLLOWING:

- 5-16 Rows to covering all our hammermill designs
- Adjustable gate for product blow by or FM Blow By
- Product flow magnet with stripper plate.
- Pneumatic control or manual control magnet system.
- Shaft mounted gear reduction drive (direct drive)
- Pocket liners for high fat low flow products
- Inlet Air Flow Control
- Full Rotor Removal from Drive end for service.
- Collector Tray for tramp metals
- Optional Load Minder for MZH,COMMANDER AND XLT

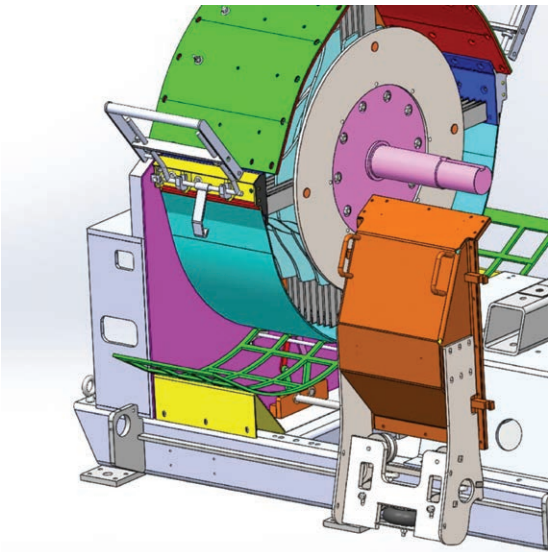


ADDITIONAL FEED OPTIONS AVAILABLE:

- Destoner bolt on option for MZH, XLT and Commander
- Inlet with magnet for MZH,XLT and Commander
- Screw feeder option available for light bulk density product.

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COMMANDER QC HAMMERMILL



The Commander QC Hammermill Center Feed is used for grinds that require fine to extra fine particle size reduction. It can be used on all free flowing granular materials and materials which contain high fat, oil or moisture. The range of products could be from flours, pet food, aquafeed and a like.

The Commander Hammermill uses single radius high impact cutting-plate which has staggered slot-ted rows on either side of the hammermill for dual rotation milling. The cutting plates offer significant size reduction prior to the product contact of the screen making size reduction more effective.

The drive package is factory aligned to a Mono-Weld frame for accurate alignment of motor and mill. We use a direct drive coupling offering exceptional alignment and reliability. The shaft bearings are of the highest industrial grade providing long life and reliability.

The use of hard faced cutting plates as the significant size reducer offers a very fine particle distribution which leads to a more uniform pellet.

The hammer to screen tolerance is 1/8" offering minimal screen buildup and increases product flow through the screen. In addition the staggered head plate rotor design offers full hammer to screen coverage.

THE SERVICEABILITY OF THIS MACHINE MATCHES ITS EXCEPTIONAL SIZE REDUCTION CAPABILITIES:

The hammer tip speed is up to 22,600 feet per minute which gives optimum grinding performance when used in conjunction with our cutting plate system.

New Easy Access Sliding Doors

New Retractable screen carriage design for easy screen changes

Heavy Duty Screen Carriage to positively hold thinner gauge screens in place.

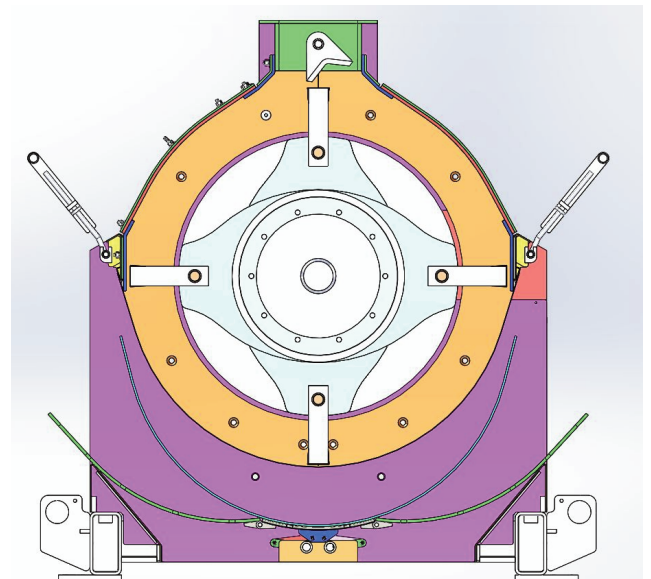
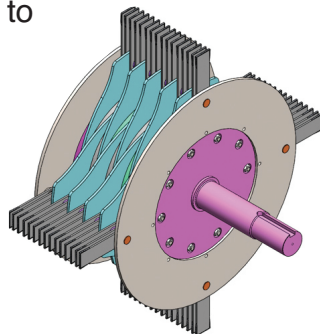
Cut Away Rotor Discs For Increased Clearance For Fine and Aqua/Pet Food

Top Housing Removal rotor access

Easy Hammer access

Easy Pin and Collar access

Easy Bearing Replacement



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HAMMERMILL CAPACITIES



Medium Grind									
Model	Motor	Hammers	Screen	Venting	6-8 64th	6-8 64th	6-8 64th	6-8 64th	6-8 64th
Range	& Pattern	Area	CFM	Corn 56	Wheat 60	Barley 48	Oats	Sorghum 56	
P160	5-10	3X3 C	360	450	150-190	170-210	120-150	90-120	140-190
P195	10-30	3X3 C	425	600	" "	" "	" "	" "	" "
P241	40-75	3X2 C	808	1100	" "	" "	" "	" "	" "
XLT 24313	25-75	3X2 C	954	1200	" "	" "	" "	" "	" "
XLT 24320	40-125	3X2 C	1422	1800	" "	" "	" "	" "	" "
XLT 24326	100-200	3X2 C	1854	2400	" "	" "	" "	" "	" "
					10-12 64th	10/12 64th	10/12 64th	10/12 64th	10/12 64th
MZH 4216	75-100	3X2 C	1270	2000	220-280	190-230	150-190	150-180	220-280
MZH 4222	100-150	3X2 C	1795	2900	" "	" "	" "	" "	" "
MZH 4232	150-200	3X2 C	2583	4100	" "	" "	" "	" "	" "
MZH 4241	250-300	3X2 C	3370	5400	" "	" "	" "	" "	" "
MZH 4250	300-400	3X2 C	4158	6700	" "	" "	" "	" "	" "
HULLS									
Model	Motor	Hammers	Screen	Venting	6-8 64th	6-8 64th	6-8 64th	6-8 64th	6-8 64th
Range	& Pattern	Area	CFM	Rice Hulls	Oat Hulls	Gr-Screen	Soy Hulls	Sun Hulls	
P160	5-10	3X3 C	360	600	70-110	70-110	80-120	60-90	60-90
P195	10-30	3X3 C	425	700	" "	" "	" "	" "	" "
P241	40-75	3X3 C	808	1300	" "	" "	" "	70-110	70-110
XLT 24313	25-75	3X3 C	954	1500	" "	" "	" "	" "	" "
XLT 24320	75-125	3X3 C	1422	2300	" "	" "	" "	" "	" "
XLT 24326	100-200	3X3 C	1854	3000	" "	" "	" "	" "	" "
					10/12 64th	10/12 64th	10/12 64th	10/12 64th	10/12 64th
MZH 4216	75-100	3X3 C	1270	2000	110-150	110-150	140-200	110-170	110-170
MZH 4222	100-150	3X3 C	1795	2900	" "	" "	" "	" "	" "
MZH 4232	150-200	3X3 C	2583	4100	" "	" "	" "	" "	" "
MZH 4241	250-300	3X3 C	3370	5400	" "	" "	" "	" "	" "
MZH 4250	300-400	3X2 C	4158	6700	" "	" "	" "	" "	" "
MEAL/CAKE									
Model	Motor	Hammers	Screen	Venting	6-864th	6-864th	6-864th	6-864th	6-864th
Range	& Pattern	Area	CFM	Soy Meal	Canola Meal	Corn Gluten	Soy Cake	Oat Groat	
P160	5-10	3X3 C	360	450	240-320	240-320	240-320	80-110	60-90
P195	10-30	3X3 C	425	600	" "	" "	" "	" "	" "
P241	40-75	3X3 C	808	1100	" "	" "	270-360	100-140	70-100
XLT 24313	25-75	3X3 C	954	1200	" "	" "	" "	" "	" "
XLT 24320	75-125	3X3 C	1422	1800	" "	" "	" "	" "	" "
XLT 24326	100-200	3X3 C	1854	2400	" "	" "	" "	" "	" "
					10/12 64th	10/12 64th	10/12 64th	10/12 64th	10/12 64th
MZH 4216	75-100	3X3 C	1270	2000	330-440	320-440	320-440	130-170	110-150
MZH 4222	100-150	3X3 C	1795	2900	" "	" "	" "	" "	" "
MZH 4232	150-200	3X3 C	2583	4100	" "	" "	" "	" "	" "
MZH 4241	250-300	3X3 C	3370	5400	" "	" "	" "	" "	" "
MZH 4250	300-400	3X2 C	4158	6700	" "	" "	" "	" "	" "
FINE GRIND									
MODEL	Motor	Hammers	Screen	Venting	3-6 64TH	2 64th	3-5 64th	3-5 64th	
Range	& Pattern	Area	CFM	CORN	SHRIMP FEED	AQUA FEED	PET FOOD	SIZE MACHINE	
4816	50-100	4x4 C	1297	2100	50-120	45-50	60-105	75-110	10" 5 Row
4822	100-150	4x4 C	1783	2900	" "	" "	" "	" "	10" 7 Row
4832	150-250	4x4 C	2516	4100	" "	" "	" "	" "	10" 10 Row
4841	250-350	4x4 C	3247	5200	" "	" "	" "	" "	10" 13 Row
4850	350-400	4x4 C	3978	6400	" "	" "	" "	" "	10" 16 Row-----
POCKET FEED-									
Machine	Hammermill	Feeder	Number	Number	Cu.Ft/Hr.	Cu.Ft/Hr.	Cu.Ft/Hr.	Cu.Ft/Hr.	Cu.Ft/Hr.
Combination	Motor-R	Model	of Rows	Pockets	Corn 56	Wheat 60	Barley 48	Oats 48	Sorghum 56
XLT 24313	25-75	10"RF	5	40	230-1830	230-1830	230-1830	230-1830	230-1830
XLT 24320	75-125	10"RF	7	56	320-2550	320-2550	320-2550	320-2550	320-2550
XLT 24326	100-200	10"RF	9	72	410-3260	410-3260	410-3260	410-3260	410-3260
MZH 4216	75-100	10"RF	5	40	230-1830	230-1830	230-1830	230-1830	230-1830
MZH 4222	100-150	10"RF	7	56	320-2550	320-2550	320-2550	320-2550	320-2550
MZH 4232	150-200	10"RF	10	80	455-3640	455-3640	455-3640	455-3640	455-3640
MZH 4241	250-300	10"RF	13	104	590-4710	590-4710	590-4710	590-4710	590-4710
MZH 4250	300-400	10"RF	16	128	725-5795	725-5795	725-5795	725-5795	725-5795

Notes On Above Capacities:

Hammermill capacities are in Pounds to be converted to pounds per horse power per hour. Moisture Content not to exceed 13%

Product Identification: - Identified by Bushel weight, Hulls and Meal lbs/cu.ft. Full scale customer product testing available.

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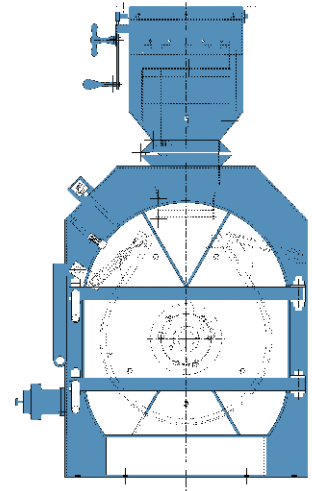
P-SERIES HAMMERMILL



The P Series Hammermill is ideal for lower capacity grinds that require medium to fine particle size reduction.

The P-Series Mill can also be used on all free flowing granular materials and products containing oil and fat.

A unique feature of this mill is that its not dependent on venting air. There is an internal air circulation which vents the mill on its own.



Unique Features of the P Series Mill:

Reversible Teardrop-shaped 360 degree screen for increased capacity.

Overhung rotor design offers quick and easy access to the screen, hammers and the rotor assembly.

The hammer to screen tolerance is 1/8" offering minimal screen buildup and maximum output.

Hammer tip speeds up to 21,6 00 feet per minute on our largest model.

Unit features a Gravity Inlet with magnet or screw feeder to match your application.

Top Center feed design or force feed option for meter feeding.

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XLT HAMMERMILL



The XLT Hammermill is used for grinds that require medium to fine particle size reduction. It can be used on all free flowing granular materials which require size reduction.



The serviceability of this machine matches its exceptional size reduction capabilities:

Double roller glide door

Two point pivotal screen carriage design for easy screen access.

Two piece screen design for easy screen replacement

Easy Hammer replacement

Easy Pin and Collar Replacement

Highest quality Hammers and Screens

Unique Features:

- Bi-directional rotation rotor
- Flat Bar Screen Carriage providing superior support and minimal screen obstruction.
- Quick Change Screen Carriage Design.
- Fully Reversible
- Replaceable throat plates.
- Wear Liner Kits

CARTER DAY INTERNATIONAL

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