CARTER DAY



TROMMEL 4-50 / 5-50

Carter Day has been manufacturing quality processing equipment for over 100 years. We continue this tradition of quality equipment with the TROM-MFI

The Carter Day **Trommel** is a high capacity cylindrical screen separator used for initial or rough cleaning for virtually any scalping or cleaning need in processing wheat, oats, rice, corn, sunflower, barley, soybean, etc. and most other free flowing granular materials. It features a shaftless cylinder in either 36" or 50" diameter. The Trommel is available in 4 or 5 cylinder sections which are covered by patented screen segments. Cylinder screen arrangements provide multiple combinations of sift and / or scalp combinations. The slope is fixed at either 20 or 60 with optional adjustable telescoping legs.





The modular design of the cylinder sections maintains structural integrity and fatigue resistance by using angle iron longitudinal stringers and rods for circumfrential cross bracing. The unique cylinder design is supported by a stub shaft at the discharge end and three trunnion wheels at the unrestricted inlet sealed by a "V" ring seal (no center shaft or bearing in the product flow). The Trommel cylinder can be configured in four or five modular cylinder sections with multiple screen segments on each section for structural integrity.





US Patent 5,507,396

Corn Cleaning Capacity
Sift and Scalp
4-50 5-50
BU/MT BU/MT
4200/106 6000/152
See Trommel Brochure

THE PRODUCT FLOW SYSTEM offers a baffle plate at the inlet to provide a slow down of product for proper screen exposure; While the patented melonite hardened segmented screen design provides unique structural integrity and the flexibility of screen configuration in the field. Each cylinder section can be configured for either scalp or sift by simply changing screen segments. The wooden rollers make the screens self cleaning by gently dislodging the product back into the cylinder for continued processing. Retarder rings on the last section of the cylinder increase the efficiency of the cleaning process by holding the product in the cylinder until the scalping process is complete.

ADJUSTABLE LEGS TO ALLOW ADDITIONAL SLOPE ADJUSTMENT

mm.

HAMMERMILL CAPACITIES

						JACOBSON"			
MEDIUM TO	FINE PARTICLE S	SIZE GMO CORN	ı		-64th	64th		-64th	64th
					₄₋₅ 64th	6-8 ^{64th}	10-12 ^{64th}	14-16 ^{64th}	20-24 ^{64th}
Model	Motor	Hammers	Screen	Venting	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr
	Range	&Pattern	Area	CFM	Corn 56	Corn 56	Corn 56	Corn 56	Corn 56
MZH 4216	75-100	3x2 C	1270	1600	96-105	150-200	220-270	280-320	390-430
MZH 4222	100-150	3x2 C	1795	2300					
MZH 4232	150-200	3x2 C	2583	3300	" "		" "		" "
MZH 4241	250-300	3x2 C	3370	4300	" "		" "		" "
MZH 4250	300-350	3x2 C	4158	5200					" "
MEDIUM TO	FINE PARTICLE S	SIZE STOVER							
					1464th	1664th	2064th	2464th	2864th
Model	Motor	Hammers	Screen	Venting	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr
Wodel	Range	&Pattern	Area	CFM	Stover	Stover	Stover	Stover	Stover
MZH 4216	75-100	3x2 C	1270	1600	50-55	55-60	60-65		
MZH 4222	100-150	3x2 C	1795	2300	" "	" "	" "		" "
MZH 4232	150-200	3x2 C	2583	3300	" "		" "		" "
MZH 4241	250-300	3x2 C	3370	4300	" "		" "		" "
MZH 4250	300-350	3x2 C	4158	5200					
MEDIUM TO	FINE PARTICLE S	SIZE COBB							
					2" Round	No Screen			
Model	Motor	Hammers	Screen	Venting	Lbs/Hp/Hr	Lbs/Hp/Hr			
	Range	&Pattern	Area	CFM	Cobb	Cobb			
MZH 4216	75-100	3x2 C	1270	1600	190-193	210-225			
MZH 4222	100-150	3x2 C	1795	2300	" "		" "		" "
MZH 4232	150-200	3x2 C	2583	3300	" "		" "		" "
MZH 4241	250-300	3x2 C	3370	4300	" "	" "	" "		" "
MZH 4250	300-350	3x2 C	4158	5200	" "	" "	" "		" "
MEDIUM TO	FINE PARTICLE S	NTE OWITOU OF	****						
MEDIUM IO	FINE PARTICLE S	SIZE SWITCH GF	1433		1064th	1664th	₂₀ 64th	2264th	₂₄ 64th
Model	Motor	Hammers	Screen	Venting	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr	Lbs/Hp/Hr
WOOG	Range	&Pattern	Area	CFM	S.Grass	S. Grass	S. Grass 5	S.Grass	S. Grass
MZH 4216	75-100	3x2 C	1270	1600	60-70	160-170	200-210		
MZH 4222	100-150	3x2 C	1795	2300					" "
MZH 4232	150-200	3x2 C	2583	3300	" "				
MZH 4241	250-300	3x2 C	3370	4300					
MZH 4250	300-350	3x2 C	4158	5200		" "			
POCKET FEE	DER CAPACITIES	S ON WHOLE G	RAINS						
Machine	Hammermill	Feeder	Number	Number	Lb/hr	Lbs/hr	Lbs/hr	Lbs/Hr	Lbs/H/Hr
Combination	Motor-R	Model	of Rows	Pockets	Corn 56	Wheat 60	Barley 48	Canola	Sorghum
MZH 4216	75-100	10"RF	5	40	22800-43500	15600-46400	13200-36700	14300-46400	19200-43500
MZH 4222	100-150	10"RF	7	56	30400-60500	20800-64500	17600-51100	19000-64500	25600-60500
MZH 4232	150-200	10"RF	10	80	45600-86200	31200-92000	26400-72800	28500-92000	38400-86200
MZH 4241	250-300	10"RF	13	104	76000-111800	52000-119200	44000-94400	47500-119200	64000-111800
MZH 4241	300-350	10 RF	16	104	91200-117800	62400-146400	52800-115900	57000-146400	76800-137200
IVIZ 1 420U	300-330	IU NF	10	120	91200-13/200	02400-140400	52000-115900	37000-140400	/0000-13/200

Jacobson Hammermill

Hammer Tip Speed ft/min

Notes On Above Capacities:

MZH 4216 MZH 4222 HP 75-100 100-150

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

WT/No Motor 4700 5300

Product Identification: Corn is GMO Corn, Grain Identified by Bushel weight, Hulls and Meal Ibs/cu/ft. Full Scale Customer Product Testing Available.

The 42 Series XLT is not shown in the capacities charts above but is still available for order at this time.



Standard Hammer Size

1/4x2.5x10"



PRE CLEANING AND HAMERMILLING





2Year Warranty

CARTER DAY INTERNATIONAL
500 73rd Ave. N.E. Minneapolis, Minnesota 55432 Tel: (763) 571-1000 Fax: (763) 571-3012

Useable ScreenArea 1270SQ IN

1795 SQ IN

2583SQ IN

CARTER DAY **MULTI-ZONE HAMMERMILL** JACOBSON'

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 offset 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 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.

CARTER DAY INTERNATIONAL
500 73rd Ave. N.E. Minneapolis. Minnesota 55432 Tel: (763) 571-1000 Fax: (763) 571-3012

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

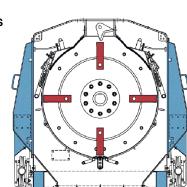
Easy Hammer replacement

Easy Pin and Collar Replacement

Keyed Bearing Replacement

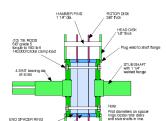
Highest quality Hammers and Screens

Replaceable AR Wear Liner Kits Available



CARTER DAY

HAMMERMILL ROTOR DESIGN JACOBSON" US Patent 7 025.294 B2



The design of our stub shaft rotor assembly is unique:

10 times stronger bending and torsional stiffness than conventional

18% lighter rotor, yet provides 18% greater stored kinetic energy Increased diameter of spacer rings eliminates need for hammer

Stub shaft design allows for lower cost replacement

Patent Pending

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 vou.



CARTER DAY

POCKET FEEDER AND FEED OPTIONS



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

5-16 Rows 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



24" Modular Scalperator



For more than 75 years Carter Day has been manufacturing quality equipment. We continue this tradition with the 24" Scalperator for high capacity, one pass cleaning of incoming or outgoing grains, seeds, and

BOCK PLATE

The 24" Scalperator features scalping, rescalping and aspiration in a single machine to provide a high capacity method for removing roughage, light fines and chaff in a single pass. Incoming grain passes through a rotating wire mesh scalping reel eliminating roughage and other oversized materials, a rescalping reel reclaims any good material from the overs, and high volume aspiration then removes the light materials.

PRODUCT OUTLET

CORN CLEANING CAPACITY

BU/MT

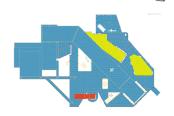
5100/129.6

(CLEAN)

BU/MT

13400/ 86.4

PRODUCT INLET



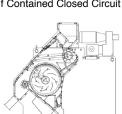
CLOSED CIRCUIT

MAJOR FEATURES Molded Urethane Feed Roll

HTD Drive Rock Plate

Operator friendly machine controls Performance-engineered aspiration

Self Contained Closed Circuit



24" Modular Scalper Same features as the 24" Scalper less the aspiration chamber.

BU/MT

1700/43.1

RESCALPING REEL

AIR INI FT

Scalping Reel - mesh or perforated round Sift Screen - many sizes available



BU/MT

6800/172.8

FEED ROLL DRIVE

VELOCITY

CARTER DAY INTERNATIONAL
500 73rd Ave. N.E. Minneapolis. Minnesota 55432 Tel: (763) 571-1000 Fax: (763) 571-3012

CARTER DAY INTERNATIONAL
500 73rd Ave. N.E. Minneapolis, Minnesota 55432 Tel: (763) 571-1000 Fax: (763) 571-3012