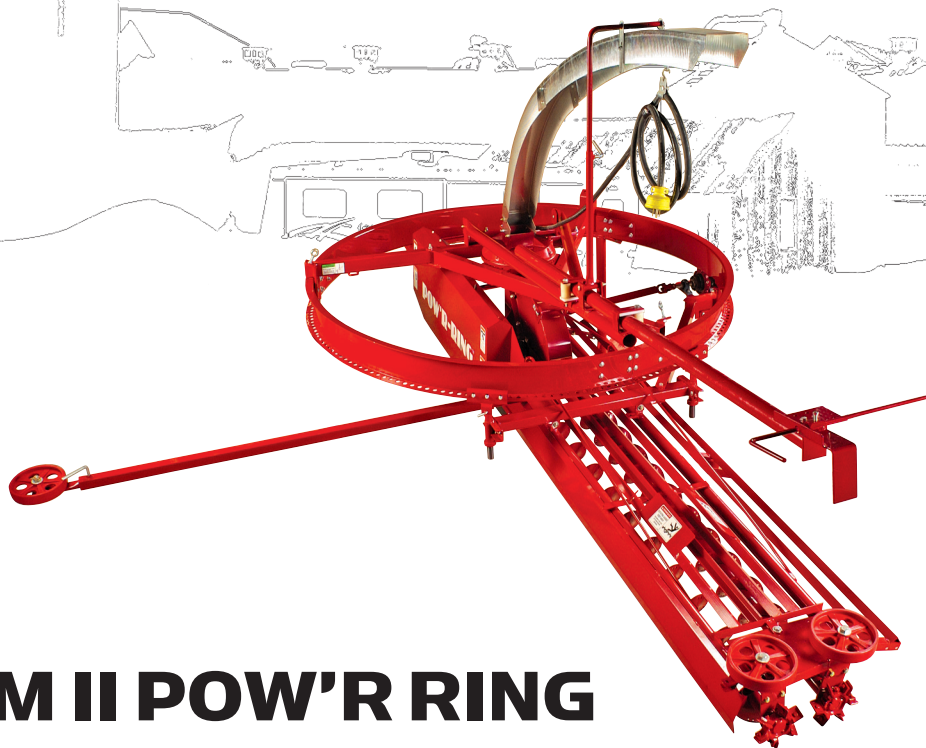


**JAMESWAY**

# **MAGNUM II SILO UNLOADERS**



**MAGNUM II SURFACE DRIVE**



**MAGNUM II POW'R RING**

## DIGGING POWER...



Thanks to this Saber Edge™ Auger, the Magnum II unloader will make quick work of the toughest unloading jobs. Hard packed silage? Frozen silage? This is where the Magnum II unloader excels!

Saber Edge Auger features the newest major advance in helicoid flighting manufacturing. Added flighting thickness and strength is achieved with no increase in weight, thanks to the unique cold roll process. Flighting provides an average of 20% increase in thickness at the outer edge of the flighting – where the greatest wear occurs.

## SABER-EDGE™ AUGERS

Saber Edge Augers beef up the auger flighting with added thickness and strength where it counts – on the outer edge. The end result: years and years of trouble-free service.

1/4" Saber Edge Augers also incorporate the exclusive superior Jamesway 16 degree forward pitch flighting design which keeps material moving toward the center of the auger tube and away from flighting edges. This allows the outside of the auger flight to do the tough job of digging. Result: lower power requirements, more efficiency, higher capacity...and less wear on the already beefed up Saber Edge Auger flighting.

**Saber Edge Augers are "head and shoulders" above conventional augers!**



**Sharpened & Case Hardened Knives**  
The flighting is pre-punched along the entire auger length. Carriage head bolts make knife changing faster and easier.

**High Density Wall Wheels**  
These rugged wheels stand up to abuse. The open design reduces feed buildup, and the high impact plastic is impervious to corrosion. The 3/4" stainless steel axle bolt will not rust.

**"Clean as a Whistle" Wall Cleaners**  
Two Counter-Rotating Assemblies shave walls clean. Reversible Cupped Knives with self-sharpening design. The main castings feature heavy ductile iron with split design for easy service and removal. Heavy duty wall cleaner shafts measure 1- 3/8" diameter.

**Counter-Rotating, Differential Speed Augers**  
7" lead at 238 RPM  
8" rear at 179 RPM

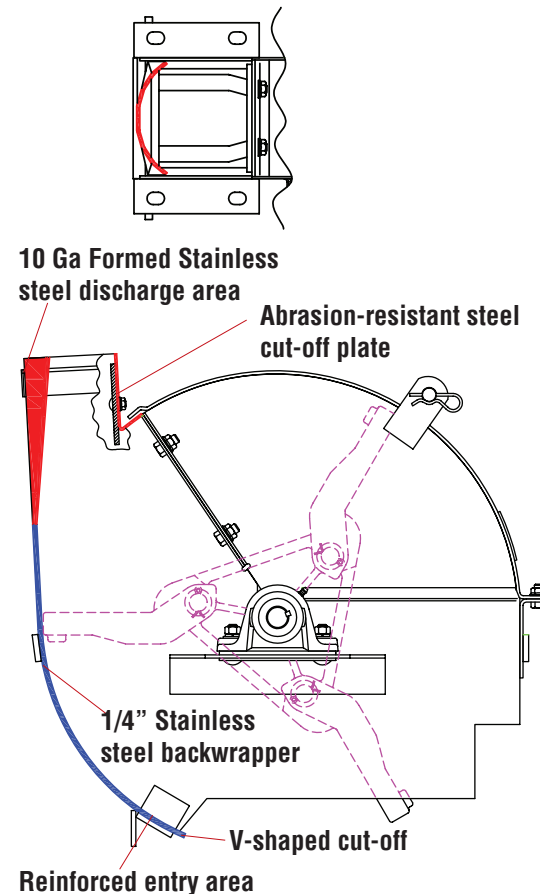
**Heavy Wall Auger Tubes**  
2 3/8" O.D. for 12'-20' models  
2 7/8" O.D. for 24'-30' models

**Detachable bearing hangers** for easy service.



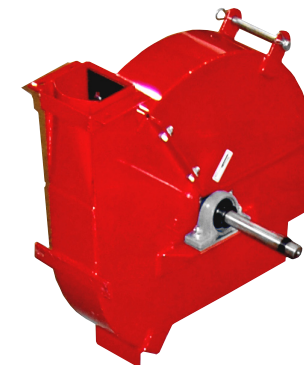
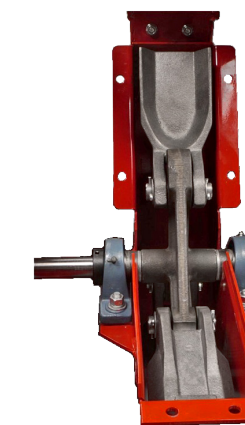
## BLOWING POWER...

**Formed 10-Gauge Stainless Steel Discharge Area**  
Stainless Steel durability and rounded corners for increased capacity. Silage is "turned in" before entering the collector ring throat area for more capacity.



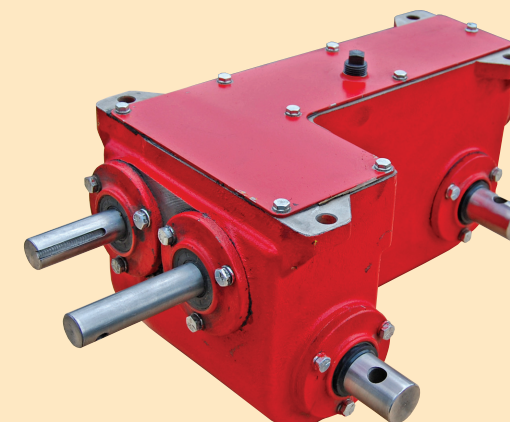
Legendary blowing power and massive construction make the Magnum II HI-PERFORM™ IMPELLER the benchmark of the industry. The massive ductile iron paddles in the 27" diameter impeller provide unmatched momentum and raw blowing power.

## HI-PERFORM™ IMPELLER



- Full 1/4" Stainless Steel Backwrapper - For less gum buildup, increased throwing velocity and added durability in high wear areas.
- Adjustable 1/4" Abrasion Resistant Cutoff Plate minimizes wear in upper throat area and maximizes throwing performance by eliminating material carry-by.
- Hi-Perform impellers feature a reinforced entry area with stainless steel V-shaped cutoff and wrap-around reinforcement for added durability.
- Greasable pillow block bearings provide easy shim and slide-type tip clearance adjustment.
- 10-Gauge Side Plates – For extra-rigid construction and long life.
- Optimum 3° Discharge Angle – Automatically sets the most efficient silage cone for minimum balance weight adjustment and maximum throwing performance.
- Impeller disk – Features heavy duty cast ductile iron construction and big 1 1/4" shaft.

## GEARED UP FOR MAXIMUM PERFORMANCE



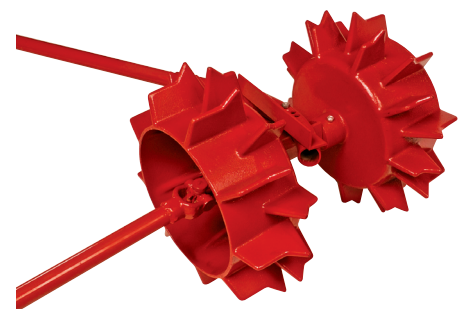
- Gearbox Case – Made of heavy-duty cast iron.
- Shaft – 1" input shaft with 1-3/8" auger drive shafts.
- Bearings – Taper roller bearings with races in adjustable bearing caps.
- Protectors – For auger shaft oil seal.
- Worm Gears – Bronze worm gears and steel worms provide long life.
- Oil Bath – Synthetic gear lube gives optimum protection at any temperature.
- Fill Plug/Dipstick – Combination vented fill plug and dipstick prevents pressure buildup and makes it easy to check the oil level.
- Drain Plug – Mounted low on the rear for easy access.

## MAGNUM II SURFACE DRIVE

The simple, compact design of the Magnum II Surface Drive is the result of over 50 years of experience.

Famous for reliability and high performance, the Magnum II Surface Drive is the top selling silo unloader in the world. Owners appreciate the way most adjustments can be performed without tools.

The aggressive lugs on the heavy cast iron drive wheels deliver the traction needed for fast unloading in difficult conditions.



The adjustable drive wheel angle allows you to increase wall cleaner pressure as desired.



Quick & easy conversion from feeding to filling. Changeover takes less than 5 minutes and requires no tools.



## MAGNUM II POW'R RING

The Magnum II POW'R-RING works with any existing suspension system.

The Magnum II Pow'r-Ring fits right onto any existing single-cable tripod or three-cable tripod. With the optional Wall-to-Wall Arm Kit, the Pow'r-Ring can also be used with a full hexapod suspension.

### FULL-SIZE DRIVE RING

The 7'4" diameter drive ring measures 9" x 2", made of 3/16" steel. The beefy 8-bolt splice plates keep everything aligned.

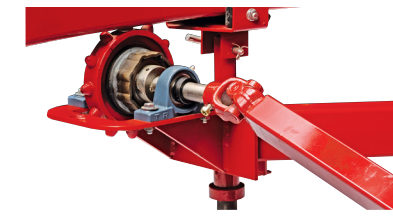


### Longer life and lower maintenance.

These proven slide blocks replace the ring wheels, resulting in 9 less grease fittings to look after.

### "DIRECT-DRIVE" RING DRIVE

No gearbox is needed for the ring drive. The simple shaft drive means low maintenance cost and excellent durability.



The stainless steel ratchet clutch needs no adjustment.



## WHETHER YOU CHOOSE SURFACE DRIVE OR RING DRIVE,

## EVERY MAGNUM UNLOADER IS PACKED WITH FEATURES:

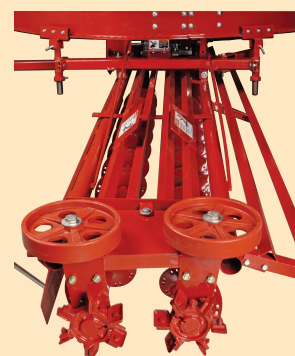
### "SURE-SHOT" DISCHARGE CHUTE

- Stainless Steel Chute Adapter
- High wear area constructed of extra durable stainless steel.
- Stainless Steel Starter Chute and Galvanized Steel Chute Extension – Provides added durability and greater protection in high wear areas.
- Multi-Radius Chute – For more accurate and better out-the-door power.



### SELF-CLEANING AUGER GRID

- Open Grid Construction - Four angle open grid allows material to drop through.
- Simple Two-Bolt Attachment – For fast, easy service access.
- Balance Weight Mounting – Full length grid placement maximizes unloader performance.



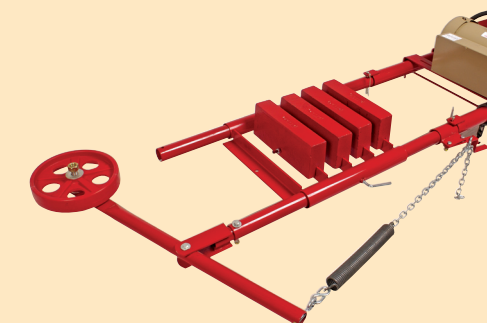
### "DEPENDABILITY-PLUS" COLLECTOR RING

- Heavy duty cast iron housing
- Felt Discharge Seal – Protects electrical components.
- Holders – Durez #792 ring and brush holders feature wide arc prevention spacing.
- Copper Rings – Machined 5/8" wide by 1/8" thick rings lay horizontal for a shorter collector ring height.
- Brushes – Six metal graphite brushes provide long wear and trouble-free electrical connections.
- Grease Zerks – Three in all, mounted for easy access.
- Power Cord – Included to the door.



### SLIDING WEIGHT TRAY

- Balance Weight Holder Pipes – Feature multiple stops and use spring type Sta-Pins for fast adjustment.
- Balance Weight Holder – Fully adjustable with lock bolts.



## HEAVY DUTY HOIST

MAGNUM II SILO UNLOADERS are heavyweights, so Jamesway builds heavy duty suspension systems. The proven HEAVY DUTY HOIST is built for these big loads. The large diameter gear drive runs in a fully enclosed oilbath cast iron housing. The 3-1/4" diameter spool has lots of capacity for those really tall silos, and the heavy duty mounting channels work with either stave or poured concrete silos.

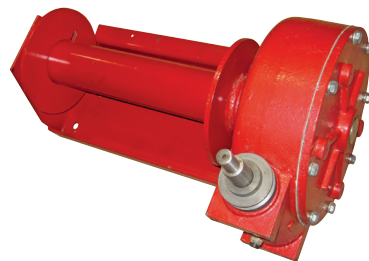
Jamesway's DUAL SPEED KIT can be added to the Heavy Duty Hoist for motorized operation. The belt and chain 2-stage reduction allows a 1/2 HP motor to raise the heaviest unloaders. Use the low speed setting for unloading and the high speed setting to raise the unloader at filling time.

## SUSPENSION SYSTEMS

MAGNUM II SURFACE DRIVE silo unloaders are always suspended from a tripod. During filling the compact Magnum II raises high into the roof.



**TIP:** Replace any suspension using light-duty hoists and doublehung cables. The Heavy Duty Hoist and single-hung cable is stronger, safer and faster to raise or lower.



MAGNUM POW'R-RING silo unloaders work with any type of suspension. Attach to single cable tripod exactly as the Magnum II Surface Drive does. For more stability and less adjustment, attach to a three cable tripod at the built-in tri-arm anchor points. Or for the ultimate in suspension choices, add the optional wall-to-wall arm kit for use with hexapod suspension.



## HEXAPOD SUSPENSION

Jamesway invented the famous Hexapod suspension. This proven wide wall-to-wall suspension system keeps unloaders level. The three cables are located near the silo wall for maximum stability and minimum problems. All Jamesway suspensions use heavy-duty 6" cast iron pulleys for dependability and long life.



The Wall-to-wall arm option includes Hi-Lift™ legs so you can raise the Pow'r-Ring high into the roof.

## MAGNUM REBUILD KITS

Put new life into your silo unloader at a fraction of the cost of replacement.

MAGNUM REBUILD KITS contain the same heavy-duty, high performance, quality parts used on your original equipment. Original MAGNUM REBUILD KITS include everything you need to keep running at peak performance.

### STANDARD MAGNUM REBUILD KIT INCLUDES:

- Leading auger, 7" diameter – 1/4" Saber-Edge flighting at 16° forward pitch
- Trailing auger, 8" diameter – 1/4" Saber-Edge flighting at 16° forward pitch
- 60 auger knives, sharpened and case hardened, with carriage bolts
- Wall cleaners (2) with reversible self-sharpening knives
- Heavy duty 1/4" steel outboard frame support with detachable hanger brackets
- Oil-impregnated bronze outboard bearings with cast iron shell (2)
- Heavy duty 10" injection molded wall wheels (2)
- Extra durable forward-angled chute adapter
- Lower discharge chute section, stainless steel
- Upper discharge chute section, galvanized steel
- Hardware kit

### HI-PERFORM MAGNUM REBUILD KIT INCLUDES:

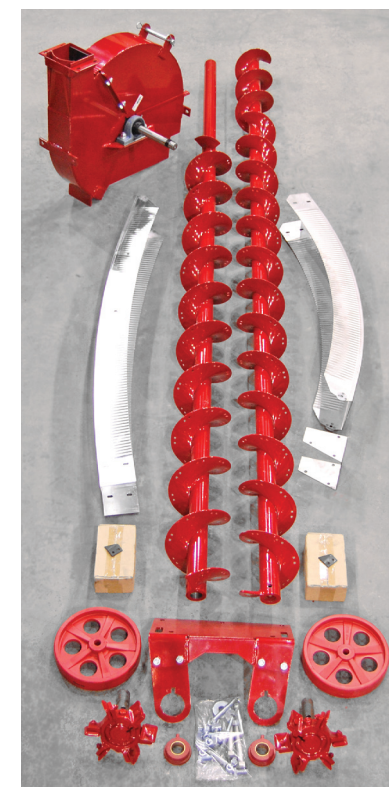
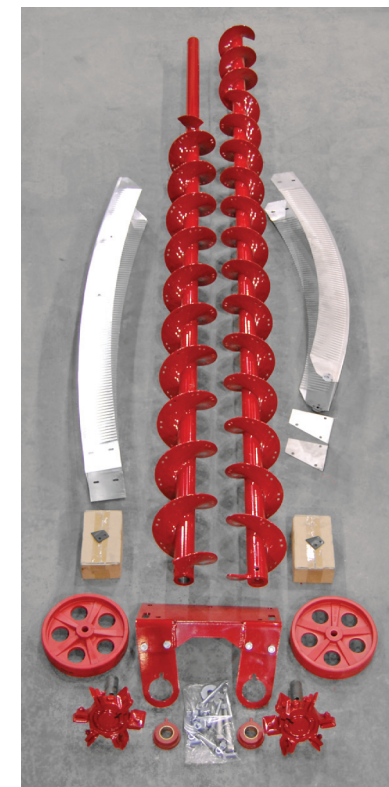
- All equipment in the STANDARD Magnum REBUILD KIT...PLUS
- HI-PERFORM Impeller, 27" with 1/4" stainless steel back wrapper.

REBUILD KITS fit the following silo unloaders:

- Van Dale™ Magnum
- Van Dale™ Magnum II
- Van Dale™ Model 1230 Surface Drive
- Van Dale™ Magna-Matic Center Drive

Bring your silo unloader up to "as new" performance and reliability. Insist on Original REBUILD KIT Parts for your Van Dale™ silo unloader.

Van Dale™ is a registered trademark of Jamesway Farm Equipment.





## SPECIFICATIONS

	MAGNUM II SURFACE DRIVE	MAGNUM II POW'R-RING
<b>MODEL SIZES</b>	12', 14', 16', 18', 20', 22', 24', 26', 30'	14', 16', 18', 20', 24'
<b>AUGERS</b>	Dual augers, counter-rotating, differential speed. Lead auger is 7" diameter @ 238 rpm. Rear auger is 8" diameter @ 179 rpm	
<b>AUGER FLIGHTING</b>	¼" Saber-Edge flighting, forward pitched 16°. Pre-punched full length, square punched knife holes	
<b>AUGER TUBES</b>	2 3/8" O.D. for 12' - 20' models 2 7/8" O.D. for 24' - 30' models	2 3/8" O.D. for 14' - 20' models 2 7/8" O.D. for 24' models
<b>AUGER KNIVES</b>	Heat-treated and sharpened. Carriage bolt mounting for easy one wrench service.	
<b>CHIPPER WHEELS</b>	Heavy duty ductile iron on 1-3/8" shaft, split hub for easy service. Reversible and replaceable self-sharpening knives.	
<b>FRAMES</b>	2-3/8" O.D. structural tubing, ½" truss rod on 20' and larger models. 10-Gauge rear pan and self-cleaning open grid front pan.	
<b>SHROUD</b>	Self-cleaning open grid with full length mounting bar for weights. Heavy duty angle-iron construction with easy 2-bolt removal for service.	
<b>OUTBOARD FRAME</b>	¼" top plate with bolt-on ¼" auger hangers. Outboard bearing has cast iron housing and oil-impregnated bronze bushing.	
<b>WALL WHEELS</b>	10" diameter injection molded polypropylene. Individually adjustable, mounted on stainless steel axles.	
<b>IMPELLER HOUSING</b>	27" diameter with top-opening inspection access. Open-bottom design with reinforced V-entry edge. Upper wrapper in 10-gauge stainless steel. Lower wrapper in ¼" stainless steel. Abrasion-resistant steel cut-off plate in throat.	
<b>IMPELLER HUB</b>	Heavy duty ductile iron. 1-1/4" shaft on pillow-block bearings. Ductile iron paddles are free-swinging on stainless steel pivots.	
<b>COLLECTOR RING</b>	Cast iron housings, sealed construction. Low profile, greaseable. Six metal-graphite brushes run on three horizontal copper rings, 5/8" wide.	
<b>DISCHARGE CHUTE</b>	Multi-radius design for accuracy. Stainless steel lower chute and galvanized steel upper chute extension. Forward-pitched chute adapter is stainless steel.	

Visit our website for more information on these Jamesway products!

### MANURE SYSTEMS:

- Alley Scrapers
- Vertical Electric Pumps
- Electric Prop Agitator
- Vertical PTO Pumps
- Piston Transfer Pumps
- Cross Gutter Systems
- Barn Cleaners

### MANURE APPLICATION:

- Non-steer spreader tanks
- Steerable spreader tanks
- Injection Systems
- Truck Mount Tankers
- Lagoon Pumps
- Prop Agitators
- Loading pumps

### FEEDING SYSTEMS:

- Silo Unloaders
- Feeders
- Conveyors
- Hammer Mill
- Power Feed Carts
- Bedding Chopper

Jamesway Farm Equipment products are designed in conformance to ASAE Standards S354.4 "Safety for Farmstead Equipment" and S318.15 "Safety for Agricultural Equipment". Some photos in this brochure have safety shields removed or open to show additional detail on equipment features. Never operate equipment without safety shields in place. Jamesway continually updates and improves products and reserves the right to make changes in the design, specifications, and to add improvements to our products, without incurring an obligation on equipment purchased.

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