

**Degelman**

# MANURE SPREADER

M28/M34



# WHAT MAKES THE WORLD'S BEST SPREADER?

## DEGELMAN TOUGH

How do you build the best manure spreader in the world? Start with Degelman, renowned for building legendary equipment for the past 50 years. The design is unmistakably Degelman. After five years of design, development, and intensive testing, Degelman introduces the most rugged spreaders available – the Degelman M Series.

From the ground up, these machines have been designed with rocks in mind, from its proprietary retractable free-swing flails, super duty gearbox, smooth side-walls and heavy-duty frame to its clean gate opening.

## ROCK BYPASS SYSTEM

Up until now, all spreaders in the world employ beaters made from some variation of a helical

or auger shape. This inherently rigid design is always vulnerable to rock damage and high maintenance costs.

The Degelman **ROCK BYPASS SYSTEM (RBS)**, the heart of

the M series, is nothing short of revolutionary. Five rows of free-swing flails, not only collapse upon stone impact, but will exceed expectations for throw distance, durability and even distribution pattern.



Degelman manure spreaders cut and tear material, drop heavier crumbled material to the next lower set of paddles for final processing and discharges material over 60 feet.

## REPLACEABLE PADDLES

The paddle cores start with a 1/2" heavy wall mechanical ten inch tube. Impeller paddles are simple and straightforward, produced from 1" Abrasion Resistant 400 material – about eight times more durable than regular mild steel. The paddles are interchangeable, reversible and can be easily replaced by removing a single over sized 1-3/4" stress proof pin – without cutting or welding.

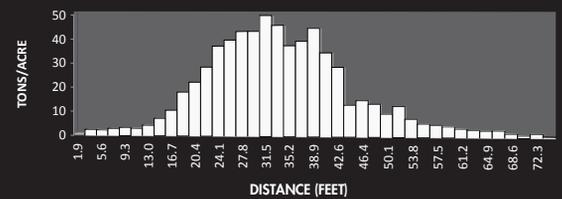
## SUPERIOR DISTRIBUTION PATTERN

Distribution and throw distance is unrivalled with Degelman. Fine pulverized material is spread over 60 feet with secondary field passes normally not required. Hydraulic Push Off systems, however, compress manure as it is unloaded. This compression rate changes

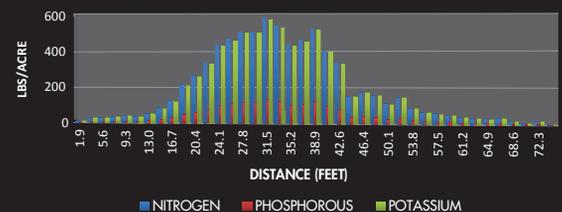
as less material is available for offloading resulting in inconsistent field distribution patterns.

Commercial operators have long known that a good chain floor drag system will spread material more evenly and is more reliable. These machines pull the material to the beaters with dual 3/4" pre-stretched 100,000+ lb breaking strength marine grade drag chain and the Degelman RBS takes care of the rest.

### M28 DISTRIBUTION



### NUTRIENT VALUE





## WORLD'S MOST RUGGED GEARBOX

The gearboxes that support the beaters are the largest commercial boxes available. From

the inside out, these boxes are overbuilt. The nearly three-inch diameter heat-treated spline shafts are massive. Oil bathed heat-treated gear sets and roller bearings are in some cases twice the size of any-

thing out there. These boxes are designed for years of maintenance free commercial use. The input drivelines also include runaway clutches for further rock protection.



## LOW MAINTENANCE

From the ground up, M Series were designed with superior components, easy access and minimal maintenance: replaceable impeller paddles, 4"x 12" HSST frame, super-duty gearboxes, oversized marine-grade chains, 1" AR400 paddles, self lubricating bearings, large oversized idler door access, external idler/drive grease points, high tensile bushings, nylon sandwiched walking wheels and easy to replace 2" x 4" floor slats.

## MATERIALS TRAILER

The entire drive and beater assembly can be quickly lifted off the machine in minutes to clear any severe blockages and will quickly convert your spreader into a versatile wagon with an active drive floor ideal for transporting other commodities such as dirt and silage.

## GREAT VISIBILITY

The front wall, front drive and dosage gate are designed for outstanding visibility from the tractor cab. The front drive is also open for easy viewing and accessible with a single large easy access door for maintenance.

## HOLLOW RUBBER SPRING FRAME SUSPENSION

Degelman manure spreaders were designed to handle heavy manure with a two-fold suspension system to reduce vibration and shock loading to the tractor drawbar and to the machine itself. The first system incor-

## SPECIFICATIONS

	M28	M34
CAPACITY	28 Tons - 2000lbs/yd	34 Tons - 2000lbs/yd
	28 cubic yards	34 cubic yards
	21 cubic meters	26 cubic meters
	756 cubic feet	918 cubic feet
	950 bushels	1150 bushels
DRY WEIGHT	19,500lbs	21,500lbs
HORSEPOWER (recommended)	180+ HP	225+ HP
HYDRAULIC REQUIREMENTS	3000 psi 25gpm min	3000 psi 25gpm min
PTO	1000 RPM, 20 1-3/4"	1000 RPM, 20 1-3/4"
UNLOADING TIME	90 seconds	100 seconds
SPREAD WIDTH	60' - 80'	60' - 80'
TIRES	Alliance 650/55R 26.5	Alliance 650/55R 26.5
DIMENSIONS	Loading height 102"	Loading height 102"
	Inside width 78"	Inside width 78"
	Inside length 240"	Inside length 285"

porates low maintenance convolution hollow rubber springs suspended and under slung the A-frame to better distribute loads and to de-amplify shock. Initial take-up is very smooth and the spring rate increase is progressive, resulting in a greatly improved ride, improved load handling and greater load stability.

## WALKING BEAM SUSPENSION

Secondly, Degelman manure spreaders incorporate a straight forward and time tested walking beam floating suspension system.



Tandem walking wheels cut uneven terrain in half with a massive unrestricted range of motion. All four wheels are always in contact with the ground surface. Coupled with a wide stance, these machines will ride over the roughest terrain with ease and control.

# SPREAD EVEN. WIDE. FAST.



## Degelman

The Degelman M28 incorporates the most advanced yet robust method to distribute manure in the world. The unique reverse flighting design, coupled with four free-swing wide flails will exceed expectations for throw distance, durability and even distribution pattern. The Degelman M28 is a simple yet durable machine designed for day in day out use by large scale contractors and livestock operations. The flighting augers are specifically designed to cover the entire discharge window with a reverse twist on the bottom portion to pull material down towards the flails.

### SPECIFICATIONS

- Capacity:** 28 Tons or 28 cubic yards (2000 lbs/yd) – (21 m<sup>3</sup>)
- Dry Weight:** 19,500 lbs
- Recommended Horsepower:** 150+ HP
- Unloading Time:** 90 seconds under most conditions
- Spread Width:** 55'- 60' recommended (capable of over 75')
- Tires:** Alliance 650/55R 26.5 20,000 lb rating/tire
- Dimensions:** Loading height 102"  
Inside width 78"  
Inside length 240"

### ELIMINATE SECONDARY TILLAGE OPERATIONS

North American spreaders typically spread slightly wider than the unit itself with farmers incurring secondary tillage and harrow operations. The M28 has such an even and wide spread pattern that secondary tillage operations normally required to work material into the soil are no longer required.



### ROCK PROTECTION

Degelman has nearly 50 years of experience with equipment that can handle rocks. The M28 was designed to withstand debris and rocks often found in contaminated manure. The entire machine was designed with rocks in mind, from smooth side walls, to clean gate openings, to heavy 3/4" thick bottom flighting, spring teeth, reinforced tine holders and swing-away heavy flails. The Berma gearboxes are a heavy duty design

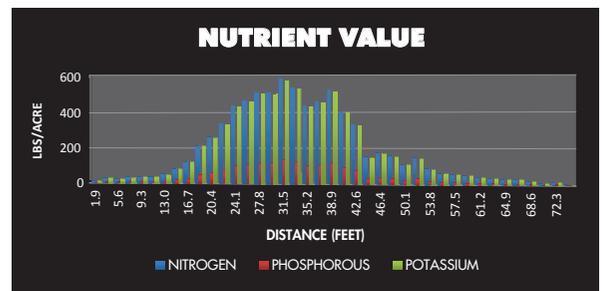
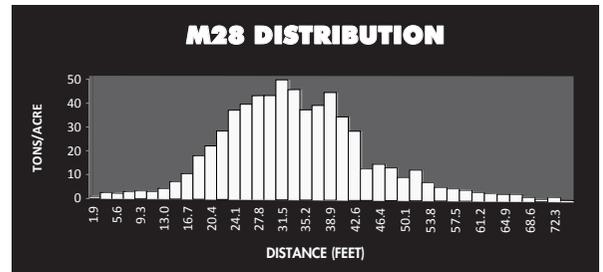
### EVEN DISTRIBUTION PATTERN

Floor drag systems as opposed to Hydraulic Push Off systems provide superior distribution as material is always consistent and not compressed. The M28 cuts and tears material first through the unique vertical augers and then drops heavier crumbled material to the high speed flails for final processing. Fine pulverized material is spread to 55' to a depth of about 1/2" depending on tractor speed.



### 55' - 60' WIDE SPREAD PATTERN

Although the M28 will throw manure over 75 feet a 55' to 60' centre to centre is recommended.



\*Rates are operator controlled by speed, dosage gate and floor drive.

# M28





**SHOCK ABSORBING SUSPENSION**

Manure is extremely heavy and the M28 has a three-fold suspension system to reduce shock loading to the tractor drawbar and to the machine itself. The first system is a rubber-suspended floating A-frame, a second system of tandem walking wheels and a third rubber sandwich that controls the spring back from the wheels ensure a smooth ride.

**LOW MAINTENANCE DESIGN**

From the ground up, the M28 was designed with superior components easy access and minimal lubrication such as: 4"x12" HSST frame, heavy duty gearboxes, oversized chains, 3/4" flighting, self lubricating bearings, large oversized idler door access, external idler and drive grease points, nylon bushings and nylon sandwiched walking wheels.



**HEAVIEST FLIGHTING IN THE INDUSTRY**

The flighting is constructed from 1/2" steel notched augers solidly welded to an oversized heavy wall spindle. The flighting is then reversed and integrated into a 3/4" material where most of the work is done. Each of the heavy spring steel tines are attached to a wrap around tine protection holder to ensure long life. The flighting is dynamically balanced to reduce vibration at high speeds.

**DOSAGE GATE**

The Degelman M28 dosage gate is hydraulically operated to control the flow of material. The inside frame or window is designed to be smooth and clear of potential obstructions for maximum output.



**3/4" GRADE 80 CHAINS**

These 3/4" pre-stretched, rust resistant chains have a breaking strength of 113,200 lbs EACH for superior durability.

**ELECTROMAGNETIC FLOOR DRIVE**

The speed of the floor drive is controlled via a 12v potentiometer that controls the flow of oil to the floor drive gear box. The operator can then easily and conveniently control the output speed from the tractor cab.

**REPLACEABLE REVERSIBLE POLY FLOOR**

The entire floor is composed of 1" thick recycled poly that is held in place without fasteners; A simple yet practical solution. The floor self lubricates the chain and slats, eliminates steel to steel wear points, withstands rust, moisture, wear and ice build-up.

**VISIBILITY**

The front wall and front drive are fabricated from perforated steel for outstanding visibility from the tractor cab. The front drive also has a single large easy access door for maintenance.

**VERTICAL SIDE WALLS**

The M28 was designed using largely vertical side walls to ensure proper flow of material to the augers. Bridging of material causing disruption of flow is eliminated.

**EASY ACCESS CHAIN TIGHTENER**

Over time chains will stretch and the Degelman M28 chain lighteners are located on the outside of the machine for easy access and lubrication.

**QUICK ATTACH AUGER ASSEMBLY**

The entire drive and paired augers can be quickly lifted off the machine by removing a few bolts and disconnecting the input driveline: ideal for transporting and unloading other commodities, long term maintenance and for severe blockage.

**SPRING TINES**

The M28 uses heavy 3/4" thick by 2" wide reversible spring tines that cut material in the harshest conditions.



**NO-TOOL DRAG SLATS**

The slats are extremely simple and are constructed from readily available 2"x 4" HSST and can be replaced without tools by simply loosening the chain tighteners.



**M28**

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**WWW.DEGELMAN.COM**  
306 543 4447 1 800 667 3545

Details subject to change without notice.

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