



Degelman Industries' new spreader has a capacity of 28 tons. It's designed to move not only manure but also dirt or other material.



In addition to being big, the spreader has an innovative beater design that eliminates rock damage.

## Giant 28-Ton Spreader Unloads In 90 Seconds

Degelman Industries showed a working prototype of a big new spreader at this fall's Farm Progress Show.

In addition to being big, the 28-ton capacity spreader has an innovative beater design that eliminates rock damage. The free swinging flails collapse if they hit a rock. Rocks pass through to the ground without damage.

The flails have easily replaceable paddles. Made from 1-in., abrasion resistant 400 steel, the paddles are mounted to a 1/2-in. wall, 10-in. tube. The beater design consists of two tubes, each with five sets of three paddles each. Paddles are interchangeable and reversible. Each is held in place by a 1

3/4-in., stress proof pin.

The beater system is powered by the largest commercial gearboxes available. Heat-treated spline shafts are nearly 3 in. in diameter. Input drivelines include runaway clutches for further protection against damage from rocks.

The chain-floor drag system uses 3/4-in. pre-stretched, 100,000-lb. plus breaking strength chains. It's designed to move not only manure, but also dirt or other material when the wagon is being used for other purposes.

The big spreader can handle big dumps and rough fields. It has a two-fold suspension

system. Hollow rubber springs suspend the box over the frame, while tandem wheel, walking beam suspension offers a smooth ride.

The \$120,000 M28 unloads across a 55 ft. swath in only 90 seconds. The company recommends a minimum 180-hp tractor with 3,000 psi and 25 gpm hydraulics.

Contact: FARM SHOW Followup, Degelman Industries, Box 830, 272 Industrial Drive, Regina, Sask., Canada S4P 3B1 (ph 306 543-4447; sales@degelman.com; www.degelman.com).



Free-swinging flails have replaceable paddles mounted on 10-in. dia. tubes. Flails collapse if they hit a rock, allowing rocks to pass through without damage.

## "LadderGuard" Scares Pigs Away

Anyone who works on ladders in hog barns will be interested in this new battery-powered "electric fence" that keeps pigs away from ladders.

Invented by hog producer Tom Rahm, the LadderGuard gives a small electric shock to pigs that get too close. The unit consists of a pair of thin metal cables spaced 3/4 in. apart and attached to a 1/2-in. dia. pvc pipe, which mounts below the ladder's bottom step and goes all the way around the ladder. All the pipes are flattened at the corners with holes drilled into them where the cables go through them. The cables are connected to a battery-powered fence that uses two D batteries. A pair of 12-in. leads with alligator clamps attaches to the cable.

Any hogs that get too close receive an electric shock.

"The shock isn't enough to make pigs squeal, but they will back off," says Rahm. "From then on, they're all really cautious about touching it. Even if you don't need to step on the ladder to do your work, you can keep the ladder where it is without being there and hogs won't approach it."

Rahm says he got the idea from listening to maintenance people who were concerned about pigs that would touch their ladders. He says the system is safe for the user. "A worker would need to touch both wires to get shocked, and even then it's not much more than the shock you get from rubbing your feet on carpet. The shock isn't strong enough to go through boots or clothing."

He says the batteries will last at least 3 months running continuously.

Two models are available. One is sized for 3 to 4-ft. tall ladders and sells for \$186 plus S&H. The other is for 6-ft. ladders and sells for \$198 plus S&H.

Contact: FARM SHOW Followup, Moore Automation, Inc., 411 Main St. E., Trimont, Minn. 56176 (ph 877 767-6897).



Battery-powered "electric fence" gives a small electric shock to pigs that get too close to ladder.



A pair of thin metal cables are spaced 3/4 in. apart and attached to a 1/2-in. dia. pvc pipe, which goes all the way around ladder.



Zipper-like prongs on ring at edge of closing wheel feather soil into the furrow, creating ideal seed-to-soil contact.

## Closing Wheel Zips Up Seed Furrow

The Zipper Closing Wheel from Schaffert Manufacturing closes up the seed furrow without compacting the soil. Zipper-like prongs on a ring at the wheel's edge feather soil into the furrow for ideal seed-to-soil contact.

"Our Zipper Closing Wheel is designed to work in tough soils," says Paul Schaffert. "It's like no other closing wheel on the market."

The closing wheel is fabricated from heavy-duty cast metal with a rim for the

"zipper" ring. A wheel with ring and bearing is available from Schaffert for \$70 or \$140 per row (two wheels).

Replacement rings for the Schaffert wheel or for use on existing rubber closing wheels are available for \$45 each. The angled bars on the ring prevent the wheel from plugging.

Contact: FARM SHOW Followup, Schaffert Manufacturing & Sales, 71495 Rd. 397, Indianola, Neb. 69034 (ph 308 364-2607 or 800 382-2607; www.schaffert.com).

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