

**Technology/Machinery**

## Land Pride offers new commercial mower with 90-inch cutting width

LAND Pride's new FDR3690 Rear Discharge Grooming Mower is designed for commercial use, with a 90-inch cutting width and 6 free-swinging, medium-lift blades.

The rear discharge keeps clippings off landscaped areas, and directs clippings and other debris toward the ground. Blade tip speed is 16,500 fpm.

The unit is designed for long-lasting service with a durable 3/16-inch deck, four 13-inch semi-solid tires, a Double-V Powerband belt, and an optional front roller. The driveline is a Category 4, with a quick-coupler. The hitch is a floating three-point Category 1 and is quick-hitch compatible. The tapered deck allows users to get close to trees or other obstacles, and the medium-lift blades produce a finely groomed lawn every time.

For more information visit [www.landpride.com](http://www.landpride.com).



**SHAPED MOWER:**  
A tapered deck and six medium-lift, high-speed blades round out Land Pride's new FDR3690 grooming mower for manicured commercial lawn use.



**ELEVATOR SQUARE:** Squaring plates and aligning pins make Sukup's new system for building legs for bucket elevators a "must-have" for precise construction.

## Sukup makes squaring elevator legs easier with new system

SUKUP Manufacturing Co. has taken some of the hair-pulling frustration out of building bucket-elevator legs with a new patent-pending system of squaring plates and alignment pins.

The plates and pins work together to hold pieces in place during construction, eliminating the need for "third hands" by those doing the building. The squaring plates are fastened to the top and bottom of every pair of legs. The plates hold the legs firmly in place, eliminating the twisting that commonly occurs without the use of these reinforcements.

The alignment pins are mounted to the squaring plate on the upper section, so the worker can guide the pins into holes in the lower plate with relative ease. The system comes standard on all Sukup bucket elevators, and ensures a straight-on connection before the sections are bolted together.

For more information, call 641-892-4222.

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### Bioinnovation Bulletin

Advertisement

## Greater phosphate efficiency delivers greater yields in corn and grains

Agronomists across the country agree that phosphate is a critical crop nutrient for both corn and small grains. Unfortunately, it is also the second-most frequently deficient nutrient in crop production.

Proper phosphate fertility helps crops establish quickly by enhancing early plant development. Phosphate also provides plants with energy to help fight disease during a long growing season.

The challenge with fertilizer P is it quickly becomes tied up with other minerals in the soil, and once it is bound to other minerals it becomes largely unavailable to the crop. In fact, only 10 to 30 percent of P fertilizer is actually used in the year it is applied, while 30 to 50 percent may never be recovered.

Rather than adding more phosphate, my recommendation to growers is to use a Novozymes biofertility product that is designed to improve the efficiency of their existing phosphate fertilizer program. JumpStart® is a biofertility product that provides better access to soil and fertilizer phosphate.

The active ingredient in JumpStart is the patented, naturally occurring soil fungus *Penicillium bilaii*. *P. bilaii* grows along plant roots, thriving on secretions from the roots. As the fungus grows and multiplies, it produces organic compounds that break the bonds holding phosphate to the soil, making it more available to the plant. The results are higher crop yields – as much as 6 percent higher in corn and 9 percent higher in winter wheat – and better return on current and past investments in phosphate fertilizer.

I look forward to answering any questions you might have about our biofertility products. Please contact me at [jnnv@Novozymes.com](mailto:jnnv@Novozymes.com) or call 402-768-1346.



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Novozymes is the world leader in bioinnovation. Together with customers across a broad array of industries we create tomorrow's industrial biosolutions, improving our customers' business and the use of our planet's resources.

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