

# Gizmos & Gadgets

## Preview animal health products to autonomous sprayers.

Compiled by Shauna Hermel, editor

### FDA approves combination use

Until now, cattle producers have had to choose either the benefits of therapeutic applications of chlortetracycline or the coccidiosis control and performance results of Rumensin® for receiving/starter rations.

In late July, the FDA approved the combination use of Pennchlor® (chlortetracycline Type A medicated article) and Rumensin (monensin Type A medicated article) for beef calves 2 months of age and older, and for growing beef steers and heifers fed in confinement for slaughter.

At a time when input costs, including feed, are at an all-time high, the ability to use these products in combination gives producers more options to improve the sustainability and efficiency of their business.

Contact your nutritionist or an Elanco or Pharmgate representative for additional information. Access labeling and other forms at <https://bit.ly/123ggCombine>.

### New forage inoculant

Lallemand Animal Nutrition introduces Magniva Platinum, the newest addition to the Magniva Forage Inoculants line. Platinum contains three unique bacterial strains (*Pediococcus pentosaceus* NCIMB 12455, *Lactobacillus buchneri* NCIMB 40788 and *L. hilgardii* CNCM I-4785) and an enzyme package. In combination, these strains have been proven to maximize dry matter, nutrient

retention, feed digestibility and aerobic stability.

“The difference in Magniva Platinum lies in the addition of the newly patented lactic acid bacterium *L. hilgardii* CNCM I-4785,” says Renato Schmidt, technical services, forage, at Lallemand Animal Nutrition.

The combination strains work together to provide dominant fermentation and improve aerobic stability in a shorter time. This means producers can open their silage in just 15 days, helping manage long-term feed costs and increasing profitability.

To learn more, visit <https://bit.ly/123ggInoc>.

### Center-pivot mower-conditioners

With four models — 310, 312, 313 and 316 — New Holland’s Discbine® Plus series of center-pivot disc mower-conditioners offers a range of cutting widths and drive sizes to accommodate any size operation.

The bold, new styling and yellow accents signify commercial-grade performance, says Jordan Milewski, conventional haytools marketing manager for New Holland Agriculture North America. “They’re built with the same DNA, durability and superior quality that customers know and expect, but we’ve focused on enhanced cutting and swath controls for greater overall performance.”

These machines include a maneuverable center-pivot tongue and standard swivel gearbox hitch that permit confident, fast

operation and easy, trouble-free headland turns. All Discbine Plus models utilize the MowMax™ II PLUS disc cutter bar with the QuickMax™ knife-change system.

Delivering a faster tip speed, the cutter bar comes equipped with longer knives. This slimmer cutter bar improves cut quality, while a 30% lower cutting height leaves less behind in down and tangled crops. Reshaped rock guards enhance crop-to-knife engagement. ShockPRO™ disc drive hubs absorb impacts to protect drive components.

The WideDry™ conditioning system is sized for each model to deliver uniform conditioning and smooth crop flow. For optimal grass hay conditioning, the LeaningEdge™ flail tine conditioning system is available.

For more information visit <https://bit.ly/123ggMower>.

### Self-propelled forage harvesters

John Deere has added to its lineup three new Deere-powered self-propelled forage harvesters — the 9500, 9600 and 9700.

“John Deere expanded the horsepower offerings for our wide-body forage harvesters that include the 9500 to 9900 models to provide improved performance and made updates to maximize machine uptime and reduce cost of operation,” says Chase

New Holland launches the Discbine Plus Series center-pivot disc mower-conditioners.



Milem, marketing manager with John Deere.

The 9500 (755 max hp), 9600 (775 max hp) and 9700 (813 max hp) feature the John Deere Power Systems JD18X, 18L engine, which provides market-leading productivity with up to 13% higher efficiency. The diesel-only innovation does not require diesel exhaust fluid (DEF). The JD18X features a 750-hour service interval — a 33% improvement to the 13.5L engine.

For customers with higher horsepower requirements, John Deere offers the 9800 (855 max hp) and 9900 (956 max hp) models equipped with the Liebherr 24L engine.

“The ideal performance characteristics of the John Deere

*Continued on page 174*



John Deere added three new self-propelled forage harvesters to its lineup.

engine decrease fuel consumption and are perfectly aligned and synchronized for outstanding crop flow through the machine,” Milem says. “This is partly due to our industry-exclusive HarvestMotion™ Plus engine technology.

HarvestMotion Plus provides a unique torque-rise curve and extra power at low engine rpm, which increase power so operators can push through tough conditions while maintaining crop-harvesting quality.”

Each 9000 Series comes equipped with a new spout that provides better operator visibility while unloading and boosts machine reliability compared to previous models. More clean-outs and a change in the geometry of the spout allow customers to run in “sticky” crop conditions for longer periods of time without plugging.

For more information visit <https://bit.ly/123ggHarvest>.

### **Autonomous spreader debuts**

Case IH and Raven Industries introduce the ag industry’s first autonomous spreader — the Case IH Trident™ 5550 applicator with Raven Autonomy™. The unit combines proven driverless technology with an agronomically designed spreading platform for a flexible autonomous solution. The technology stack is powered by guidance and steering, propulsion control, perception and path-planning software developed by Raven.

From a mobile device, operators can plan and complete an entire field operation based on mapped field boundaries. The



The Case IH Trident 5550 applicator with Raven Autonomy allows for one or more driverless machines in the field.

Raven Autonomy perception system, through a series of advanced cameras and radar system, is constantly sensing a 360° environment around the machine for obstacles and motion initiation while operating. With artificial intelligence, Raven’s perception controller processes the continuous stream of images, which interprets and detects obstacles. The remote operator can view the cameras through the mobile device at any time.

If an obstacle is detected, the machine will safely come to a stop and an alert will pop up on the mobile device. From there, the operator can evaluate the situation and determine the next course of action.

A variety of machine tasks and functions can be viewed remotely, including but not limited to fuel level, DEF level, speed, rpm, bin-level status, Universal Terminal information and diagnostic trouble codes.

The Case IH Trident 5550 applicator with Raven Autonomy will be operating in the North American market with limited availability in 2023.

For more information, visit <https://bit.ly/123ggAutono1> and <https://bit.ly/123ggAutono2>. **ABB**

Editor’s note: For more thorough descriptions of these products, see the October 2022 *Angus Beef Bulletin EXTRA* available from the Archive tab at [www.angusbeefbulletin.com/extra](http://www.angusbeefbulletin.com/extra). If you have a new product or service to share with commercial cattlemen, submit details to [abbeditorial@angus.org](mailto:abbeditorial@angus.org).