

## Replacement Header Auger Boosts Combine Performance

Tyler Wiebe of Thunderstruck Ag Sales says the new Typhoon harvesting header drum auger can harvest up to 50 percent faster in difficult crops.

Mic Fels, an Australian farmer and innovator, came up with the idea for the unique auger in 2016 due to the need for a better canola header on Australian farms.

Wiebe says the popular MacDon headers sometimes have a problem feeding heavy crops into a combine as their existing drums are designed with a large diameter.

"They can hinder the flow and spread of the crop throughout the feeder housing of the combine," Wiebe says. "The Typhoon drum is smaller in diameter."

Extended paddle flights are also added as well as the number of fingers increased from the typical 13 to 25. Fingers are solid steel and feature a quick-set timing adjustment on the drum to fine-tune their aggressiveness for bulky or light crops.

"The chain-driven drum can be controlled at the farmer's discretion," Wiebe says. "With the narrower barrel and the additional fingers, the extended paddle flighting works together to bring in the crop more aggressively across the full width of the feeder house. It streamlines the crop flow into the combine and gives a more consistent feel in the performance of the machine."

The Typhoon is compatible with any FD70, FD75, FD1 and FD2 MacDon header using adapters. Thunderstruck is also releasing Typhoon models for Deere 600 and 700 model headers.

Wiebe says installations are straightforward and can be done within a couple of



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hours at the Thunderstruck Ag shop or by MacDon dealerships. Many farmers complete the work themselves.

"The nice thing with the MacDon set up and our Typhoons is we're sliding out the existing drum from its holder bracket and the Typhoon fits exactly into the same bracket. It's a plug-and-play scenario."

For North American buyers, the Typhoon sells for \$6,950 U.S. or Canadian dollars, plus S&H.

They are available at the Winkler shop or Norstar Industries located in Rosenort, Manitoba.

Contact: FARM SHOW Followup, Tyler Wiebe, Thunderstruck Ag Equipment, 201 South Railway Ave, Winkler, Man., Canada R6W 1J9 (ph 855-752-5525; info@thunderstrucksales.com; www.thunderstruckag.com).



**TurboSpray is a walkover, floor-mounted, air-assisted, teat preparation system mounted near a parlor's entry or exit lanes.**

## Walkover Teat Sprayer

Automated Dairy, an Idaho-based milking equipment dealer and research center, has recently developed TurboSpray, an automated system that eliminates the need to manually spray teats.

While the product has only been available for 19 mos., 85 plus dairies have already installed over 200 systems.

Ben Gines, Automated Dairy's engineering manager, says the Center designed the equipment to replace the usual manual spray wands and robotic prep arms.

The TurboSpray is a walkover, floor-mounted, air-assisted device that mounts near a parlor's entry lanes. It's positioned far enough from the parlor to allow time for teats to be completely disinfected before milkers are applied. When cows enter stalls, units can immediately be clipped on saving time and allowing dairies to milk more cows using the same parlor.

Sensors identify individual animals as they pass and trigger a precise burst of teat spray onto each udder from below. Over months of work, the team has perfected nozzle sizes, angles, air pressures and sensor placements to deliver the ideal spray pattern even when cows hesitate or move quickly over the equipment.

Equipment is monitored for performance issues from the Innovation Center in Idaho. If problems arise, customers are contacted and made aware through text alerts.

The TurboSpray is available directly from Automated Dairy or their network of dealers across North America. Visit the website for a price quote, advice and information.

Contact: FARM SHOW Followup, Automated Dairy, 1731 South Lincoln, Jerome, Idaho 83338 (ph 208-324-3213; www.automateddairy.com).

## Replacement Teeth Improve Deere Balers

Farmhouse Mechanical Design, LLC has two innovative products to improve efficiency and reduce equipment breakdown with Deere balers.

"The practice of baling cornstalks has been around for decades, but the equipment used to make these bales has remained mostly the same," says Cory Dillon, company co-founder. "After over 20 years of dealing with tooth breakage, my father Todd decided there had to be a better way."

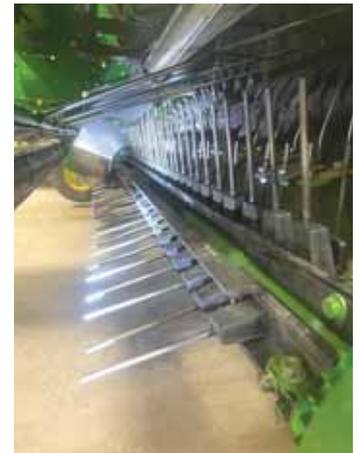
Their specialized tool fits on 400 and 500 series Deere round balers. Each tooth is spaced 2.56-in. apart from center to center. While the number of teeth varies per baler, most range from 36 to 48. Each BT-110 comes with a zinc-plated A574 socket head cap screw, hardened steel washer, and grade C lock nut to maintain the connection to the baler.

The replacement baler teeth don't break like spring-formed metal ones. Each BT-110 has 17 percent more tooth area than standard square-wire factory teeth, making it stronger and capable of picking up more material with each revolution. Thanks to their high tensile alloy steel construction, the teeth prevent bending or yielding prematurely during operation.

"One set of our teeth have endured over 10,000 bales without any breakages," explains Dillon. "That's not to say that they can't break, but field results have shown that they haven't, unlike the OEM teeth."

Each tooth is mechanically engaged to the baseplate, eliminating any chance of it falling out of the rubber. This lack of litter in farm fields may potentially reduce hardware disease for cattle in feedlots who accidentally ingest them. The current price is \$20 per tooth.

The second product is a straight tooth bar set for Deere round balers. According to the manufacturers, the set offers a 33 percent savings in material costs over the factory split bar design with a center spider.



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Overall, this bar set should require less maintenance than OEM split bar design, as removing the center spider element eliminates the need for replacement. All that's necessary to replace are the cams and rollers - both of which can be changed while the tooth bars remain on the baler.

Each order includes four engineered tooth bars, a hex shaft, custom cam rollers located centrally to absorb the shock load, modified stripper plates for each end, and all hardware necessary for installation.

To purchase, contact the company directly or reach out to the Farmhouse Mechanical Design, LLC dealer network (listed on the website) to start the process.

Contact: FARM SHOW Followup, Farmhouse Mechanical Design, LLC, Arlington, Neb. 68002 (ph 402-278-9544; farmhouse.mechanical@gmail.com; www.fmd-products.com).



**Rota-Coat works on rotary milkers at different speeds and in as little as three seconds.**

## Auto Teat Sprayer For Rotary Milkers

A new patent-pending rotary teat dip sprayer called the Rota-Coat fits on all models of rotary milking systems, says Jason LeGassick, Sales and Marketing Manager for BECO Dairy Automation Inc.

"It provides extremely good coverage with minimal teat dip usage," he says. "The Rota-Coat will work on a large range of rotary speeds, making a revolution as low as three seconds."

The plug-and-play unit bolts to the floor and a nozzle moves in a circular motion between the cows' legs and sprays as the cows pass by on the rotary milking parlor. Using algorithms, an encoder senses the speed of the parlor and position of the cow to spray accurately.

BECO, a Hanford, Calif., company that has manufactured automated milking equipment since the 1970's, spent a year and a half testing the Rota-Coat. It fills a niche as it's priced economically with the coverage and accuracy of much more expensive spray robots.

The international company provides the Rota-Coat for free to customers who purchase BECO teat dips.

For more information contact the company or a dealer.

Contact: FARM SHOW Followup, BECO Dairy Automation Inc., 9955 9 1/4 Ave., Hanford, Calif. 93230 (ph 800-344-7166; info@becoknows.com; www.becoknows.com).