

CNH Industrial adds new Automation and Autonomy Solutions to Ag Tech portfolio

New technology helps farmers reach next level productivity and profitability

London, December 9, 2022

CNH Industrial debuted its latest automation and autonomy solutions at its Tech Day in Phoenix, Arizona, USA. New **Driverless Tillage** and **Driver Assist Harvest solutions** from **Raven**, and **Baler Automation** from **Case IH** and **New Holland**, deliver automation and autonomous equipment enhancements. They all help solve farming's biggest challenges: to increase productivity and to do more with less resources, more sustainably. These latest technology developments form part of our Ag Tech roadmap.

*"The agriculture industry is faced with the challenges of time, costs, constrained operational windows, and a dwindling labor force. Autonomy will become an integral part of farmers' operations everywhere," said **Derek Neilson, President, Agriculture**. "We believe that Autonomy and Automation technologies are fundamental to the future of farming. They cover all farmer segments and drive real world benefits."*

Driver Assist Harvest Solution

This new automation technology for the tractor platform leverages our **Case IH** brand's harvest technology with **Raven Autonomy** integration. It provides a coordinated control feature that allows for the Driver Assist Harvest Solution to chart the path and speed of the tractor pulling the grain cart alongside a combine harvester during an 'unload on the go' operation.

The Driver Assist Harvest Solutions keeps the tractor perfectly in sync with the combine harvester when unloading grain – giving the combine operator seamless control over the unloading process. This makes the full operation more efficient, with less grain spillage in the process. Our new technology helps remedy the lack of skilled labor by simplifying the task. It also provides a better user experience with less operator fatigue. This solution will be made commercially available for both **Case IH** and **New Holland** brands.

Driverless Tillage Solution

The driverless tillage solution features an advanced Perception System and Remote Command & Control experience from Raven Autonomy, which functions with no operator in the cab. The machine can be operated remotely from a mobile tablet device. The operator can plan and execute precise, automated missions with consistent agronomic results monitored from anywhere.

This development combines the **Case IH** tractor and tillage platform with Raven autonomy to deliver this autonomous tillage solution. The **Raven Autonomy** technology platform provides a flexible, scalable tech stack to the iron. This solution also leverages existing **Case IH tillage automation** for ultimate agronomic and machine control of the implement. The result is increased productivity with consistent agronomic performance and richer data insights.

Case IH and New Holland's significant automation developments are continuing to accelerate with the ongoing integration of Raven.

Baling Automation

Industry-first Baler Automation was also unveiled on New Holland large square balers, featuring new technology that uses a LiDAR sensor to scan the windrow in front of the tractor for density, volume and direction. The tractor and baler then use this input to automatically control steering, forward speed and baler settings to ensure the baler follows the windrow precisely for accurate crop feeding. The result? Optimized bale shape, increased productivity, operator comfort and reduced fuel consumption. Case IH will also offer the baling automation feature.

Automation and Autonomy technology milestones in the field

We have a proven track record of existing world class technologies on our agriculture equipment. Earlier this year at the Farm Progress Show in Boone, Iowa, USA, Case IH and Raven introduced the agriculture industry's first autonomous spreader, the **Case IH Trident™ 5550 applicator with Raven Autonomy™** (Driverless Spreading Solution). Meanwhile both New Holland and Case IH combines offer award-winning, best-in-class **combine automation**, and both Case IH Patriot and New Holland Guardian sprayers that come equipped with application control automation.

"We're on the road to full autonomy. We focus on delivering an autonomous tech stack that scales across all production cycles for the cash crop segment: crop preparation, planting/seeding, crop care, harvest, hay, and forage. Focusing on automation and autonomy is not taking farmers out of farming it's making their machines more productive with functional automation," said **Parag Garg, CNH Industrial Chief Digital Product Officer**. *"Our focus is to make the Precision Technology on our equipment so smart, that the customer can focus on the farm and let CNH Industrial take care of rest."*

At CNH Industrial we are **Breaking New Ground** to help solve farmers' real-world problems by unlocking additional value through automated and autonomous solutions.

CNH Industrial (NYSE: CNHI / MI: CNHI) is a world-class equipment and services company. Driven by its purpose of *Breaking New Ground*, which centers on Innovation, Sustainability and Productivity, the Company provides the strategic direction, R&D capabilities, and investments that enable the success of its global and regional Brands. Globally, **Case IH** and **New Holland Agriculture** supply 360° agriculture applications from machines to implements and the digital technologies that enhance them; and **CASE** and **New Holland Construction Equipment** deliver a full lineup of construction products that make the industry more productive. The Company's regionally focused Brands include: **STEYR**, for agricultural tractors; **Raven**, a leader in digital agriculture, precision technology and the development of autonomous systems; **Flexi-Coil**, specializing in tillage and seeding systems; **Miller**, manufacturing application equipment; **Kongsilde**, providing tillage, seeding and hay & forage implements; and **Eurocomach**, producing a wide range of mini and midi excavators for the construction sector, including electric solutions.

Across a history spanning over two centuries, CNH Industrial has always been a pioneer in its sectors and continues to passionately innovate and drive customer efficiency and success. As a truly global company, CNH Industrial's 37,000+ employees form part of a diverse and inclusive workplace, focused on empowering customers to grow, and build, a better world.

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