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Cultivar Semanal

Latest from Agrishow 2026

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Agrishow 2026 registers R$ 11,4 billion in business intentions

The fair received 197 visitors and recorded a 22% drop in business intentions compared to the previous edition

01.05.2026 | 15:12 (UTC -3)

Cultivar Magazine

Photo: Agrishow Official

Agrishow 2026 concluded with R$ 11,4 billion in intended business deals. The final figures were presented this Friday, May 1st. The result represents a 22% decrease compared to the previous year.

The figures cover the agricultural machinery, irrigation, and storage sectors. The fair received 197 visitors over five days. The attendance was at a similar level to the previous edition.

On the May 1st holiday, the last day of the event, the gates opened at 7:30 am. The organizers moved the opening time forward to meet the demand from the public.

According to the Brazilian Association of Machinery and Equipment Industries (Abimaq), the performance reflects the

sector's overall trend. On Wednesday, April 29th, Pedro Estevão, president of the association's Chamber of Agricultural Machinery and Implements, reported a 19,9% drop in sales of agricultural machinery and equipment in the domestic market in the first quarter of 2026, compared to the same period in 2025.

Estevão attributed the situation to high interest rates, exchange rate fluctuations, and unfavorable commodity prices.

The president of Agrishow, João Marchesan, stated in a press release that farmers and manufacturers are maintaining investments in technology for tropical agriculture, despite three years of unfavorable market conditions. He also said he expects more favorable cycles for the sector in the coming years.

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Gerdau's steel solutions are highlighted at Agrishow

Company expands operations in the agribusiness chain with a focus on efficiency

30.04.2026 | 14:36 (UTC -3)

Lais Costa, edition of Cultivar Magazine

Gerdau reinforces its presence in agribusiness during Agrishow 2026, in Ribeirão Preto (SP), by presenting steel solutions focused on productivity,

efficiency and durability in the field. In its 23rd participation in the fair, the company highlights the strategic role of the material in both rural infrastructure and the agricultural machinery and equipment industry.

The company's participation in the event is structured around two main axes: supplying steel for agricultural applications—such as fences and structures—and providing raw materials for the manufacture of machinery and implements. The strategy aims to expand the company's presence throughout the agribusiness chain, focusing on innovation, joint development, and specialized technical support.

According to Maurício Metz, Vice President of Long and Special Steel Products in Brazil at Gerdau, participation in the fair reflects the company's commitment to the advancement of the sector. "Agribusiness is one of the main drivers of the Brazilian economy. We work with high-performance steel solutions that directly contribute to the productivity and competitiveness of our clients," he states.

Among its recent investments, the company highlights industrial modernization, with the installation of a new hot coil mill at its Ouro Branco (MG) plant. This structure expands production capacity and improves material properties, ensuring greater performance and reliability for applications in the field and in industry.

At the booth, visitors can watch hands-on demonstrations, such as the assembly of fences with oval and barbed wire, as well as learn about engineering applications of steel used in agricultural equipment. The space also showcases the company's portfolio, which includes bars, structural profiles, thick plates, and coils.

Participation in the fair also includes interactive activities aimed at the public, such as immersive experiences and brand activations. The goal is to bring visitors closer to the solutions offered and highlight the use of steel in the day-to-day operations of agribusiness.

Considered the leading agricultural technology fair in Latin America, Agrishow brings together around 800 exhibiting brands and showcases trends and

innovations for the sector, establishing itself as one of the main business environments for Brazilian agribusiness.

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Southern Brazil begins planting tobacco for the 2026/27 crop

The calendar guides producers and aims to prevent losses due to pests and weather

30.04.2026 | 10:48 (UTC -3)

With a production cycle of approximately 180 days, tobacco finds diverse regional conditions for its development. Therefore, there is a fixed schedule for transplanting

seedlings (from seedbeds to fields) for each producing region. Established by the Quality and Innovation Working Group of the National Forum for Integration of the Tobacco Production Chain (Foniagro), the planting calendar for the Virginia variety begins on May 1st in the Central-South region of Rio Grande do Sul (until October 15th) and the coastal region of Santa Catarina (until August 31st).

The planting of the 2026/2027 Burley variety begins on May 1st in Western Paraná (until October 15th) and Southwestern Paraná (until November 15th). The Common variety begins on May 1st in the Northwest region of Rio Grande do Sul (until September 15th) and the West/Midwest/Far West of Santa Catarina (until October 15th). Regarding the

Common variety, there is an exception allowing planting outside the calendar in the West, Southwest, and North regions of Paraná, which have the particularity of carrying out the so-called "early planting" from April 1st to November 15th.

On May 15th, planting of the Virginia variety begins in the central region of Rio Grande do Sul, extending until August 31st. On June 1st, planting of Virginia begins in the Itajaí Valley and the Santa Catarina Plateau; of Burley in the Northwest of Rio Grande do Sul and in the West/Midwest/Far West of Santa Catarina. On July 1st, planting of Burley begins in the West/Central region of Rio Grande do Sul and the Central-West/South of Paraná; and of Common in the Central/West of Rio Grande do Sul and the Central-West of

Paraná.

The start of Virginia grass transplants in the Serra and Extremo Sul regions of Rio Grande do Sul is scheduled for July 15th; and the beginning of Burley and Common grass planting in the Serra region of Rio Grande do Sul. Transplanting of the Virginia variety in the Paraná Plateau will begin on August 1st and continue until November 15th.

The calendar was established because a need for awareness about the tobacco planting calendar was recognized. The goal is to end out-of-season planting, a practice that brings several negative consequences, such as the proliferation of diseases and pests. "Some producers were planting out of season in an attempt

to generate additional income, but they end up harming the soil and the quality of the tobacco," explains Carlos Sehn, advisor to the board of directors of SindiTabaco.

According to Sehn, respecting the planting calendar contributes to strengthening the Integrated Tobacco Production System. "The advisors play an important role in raising awareness among producers, providing information about the negative consequences of the practice," he says. "It's already confirmed that proper soil management leads to crop quality and increased productivity," he adds.

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Rio Grande do Sul concludes monitoring cycle for Asian soybean rust

The program expanded its coverage in the 2025/26 crop season and monitored the disease in 95 municipalities

30.04.2026 | 10:11 (UTC -3)

Secretariat of Agriculture

The Rust Monitoring Program in Rio Grande do Sul has concluded its

monitoring activities for this harvest season to detect the presence of the fungus *Phakopsora pachyrhizi*, responsible for Asian soybean rust. This season, monitoring has been expanded to 95 municipalities, with the acquisition of 20 more spore collectors.

Monitoring began in October 2025, in sync with the crop sowing calendar, and lasted 23 weeks. "During this period, maps showing the distribution of fungal uredospores in the monitored municipalities, as well as climate risk maps for the occurrence of the disease, were made available weekly on the program's website," says researcher Andréia Mara Rotta de Oliveira, from the Department of Agricultural Diagnosis and Research of the Secretariat of Agriculture, Livestock,

Sustainable Production and Irrigation (DDPA/Seapi).

The occurrence of Asian soybean rust is strongly influenced by environmental conditions, since the fungus depends on the presence of free water on the leaf surface and temperatures between 15°C and 25°C to develop.

According to Andréia, the 2025/2026 harvest season recorded above-average rainfall in most of Rio Grande do Sul during the month of September, in addition to high temperatures for the spring period. In the summer, with the exception of December, which was extremely rainy in practically the entire state, there was a reduction in rainfall in January and February, associated with high air

temperatures, typical of the season.

"The low availability of water and the sequence of days without rain in those months contributed to containing the outbreaks of Asian soybean rust in the state," assesses the researcher.

Currently, the Monitora Ferrugem RS Program team is conducting the systematization and analysis of the collected data, for the publication of a technical circular with the results of the 2025/2026 harvest.

The state of Rio Grande do Sul will enter a soybean planting ban period starting July 3rd and ending September 30th in all regions. During this period, the presence of soybean plants in the field, whether volunteer or cultivated, at any stage of

development, is prohibited.

During the fallow period, the Monitora Ferrugem RS Program team will be working on planning actions to monitor Asian soybean rust in the 2026/2027 crop season, with the start date scheduled for October.

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Mahindra will be present at Agrishow 2026

Company highlights tractors geared towards family farming and expands its presence in the Brazilian market

29.04.2026 | 17:25 (UTC -3)

Luciana Bambrilla, Cultivar Magazine editor

Mahindra is present at Agrishow 2026 in Ribeirão Preto (SP), with a new stand and the presentation of its portfolio of machines

aimed at the Brazilian market, focusing on family farming. During the event, the company highlights tractors with power between 25 and 110 hp, developed to offer economy, ease of operation and maintenance, meeting the needs of different producer profiles.

Among the highlights is the OJA 3140 model, with 40 hp, part of the new global Mahindra OJA line. The platform is developed in partnership between Mitsubishi Mahindra Agricultural Machinery in Japan and the company's research center in India. The equipment is aimed at family farming and can be used in different activities, including poultry farm operations.

In addition to its agricultural portfolio, the company is expanding its operations in Brazil by entering the construction equipment segment, known as the "yellow line" (construction equipment). One of the models presented is the VX90 backhoe loader, used in activities such as soil movement, irrigation canal construction, land leveling, and rural road maintenance.

Teams from dealerships across the country are participating in assisting visitors throughout the fair.

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Financial solutions

The company's strategy also includes financial solutions to facilitate access to the machines. Among the options are the Mahindra National Consortium and Mahindra Finance, a program developed in partnership with DLL.

By participating in the fair, the company reinforces its growth strategy in the country, focusing on expanding its presence among small and medium-sized producers and diversifying its operations in the agricultural sector.

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Bayer expands digitization in the field with new hardware

FieldView Drive 2.0 accelerates data and integrates machines in the 2026/27 crop season

29.04.2026 | 17:02 (UTC -3)

Cultivar Magazine, based on information from Amanda Barreto

Bayer is launching digital solutions at Agrishow 2026, focusing on increased

productivity and data integration in the field. The highlight is the new FieldView Drive 2.0 hardware, with data transfer up to 12 times faster, scheduled for the 2026/27 crop season.

The device connects to the machinery and collects data from the field. The system feeds the FieldView application and integrates information into the producer's digital ecosystem. The platform brings together satellite images, maps, and area forecasts. Data indicates average gains of 30% in corn and 20% in soybeans on farms with digital management.

The company is also expanding its integration with machinery manufacturers. A partnership with John Deere allows for the direct transmission of prescriptions to

the operations center via wireless connection. This functionality eliminates manual steps and reduces errors. The feature will arrive in the next summer crop season and includes data from Bayer Valora Corn.

In the recommendations pillar, Bayer Valora Corn reaches more than 650 hectares in the 2026 off-season. The tool generates recommendations for hybrids, plant density, and nitrogen. Results indicate an average yield gain of five sacks per hectare.

For soybeans, FieldView Advisor projects a positive ROI of approximately 70%. The solution compares varieties with Intacta2 Xtend biotechnology and guides planting. In pest management, Bayer Directo

Nematoide directs the application of Verango Prime based on infestation maps. Estimates indicate a risk in 40% of soybean areas in the country.

In the area of ??sustainability, the PRO Carbono program encompasses 3,1 million hectares in Latin America. The initiative has recorded an 11% increase in annual productivity and a reduction of up to 55% in the carbon footprint of corn. Barter+ supports negotiations based on production history.

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Marini highlights solutions for traction and wheels at Agrishow 2026

The company focuses on robustness and performance to meet the demands of the field

29.04.2026 | 16:36 (UTC -3)

Cultivar Magazine

Marini is highlighting its portfolio of performance-oriented solutions for tractors and harvesters at Agrishow 2026, focusing

on stability, traction, and durability in the field. During the fair, the company will present its own technologies developed to meet the operational demands of rural producers, especially in scenarios with higher workloads and varying soil conditions.

Among the main products are front and rear dual wheel systems for tractors, as well as dual wheels for harvesters. According to the company, these solutions contribute to increased machine stability, improved weight distribution, and expanded load capacity, factors that directly impact operational efficiency.

Another highlight is the traction system developed by the company, designed to provide greater grip and control on varied terrains. The technology aims to reduce

operational losses and improve machine performance in adverse conditions.

The manufacturer is also reinforcing its role in the development of agricultural wheels, focusing on durability and efficiency, keeping pace with the technological evolution of machinery in the field. With a consolidated presence in the sector, the company is investing in innovation and its own engineering to meet the demands of agribusiness and increase its competitiveness in the market.

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Koppert announces new CEO to lead the next global phase

Hans Peters takes over in May with a focus on growth and organic farming

29.04.2026 | 15:55 (UTC -3)

Cultivar Magazine

Koppert announced the appointment of Hans Peters as its new Chief Executive Officer (CEO), effective May 1, 2026. This change marks a new phase in the

company's strategy, focused on global expansion and strengthening its organic farming solutions.

Peters brings experience in international leadership and has worked at companies such as Unilever, NS, and Eneco. Most recently, he held the position of CEO at Priva.

According to the company, the executive has a solid track record in commercial strategy, organizational transformation, and the development of high-performance teams. His experience in the agricultural sector has been deepened in recent years, with a focus on innovation and sustainability in production systems.

Interim CEO Paul Koppert highlighted that Peters' arrival comes at a strategic

moment for the company. "He brings valuable experience and a vision aligned with our trajectory and our future. We are entering a phase with a greater focus on execution and accelerating growth," he stated.

In a statement, Peters highlighted the company's potential in the global context of agricultural transformation. "Koppert has built a solid foundation over more than 50 years, combining biological knowledge with a commitment to supporting producers. I see significant opportunities to strengthen our position and advance our mission of making agriculture less dependent on pesticides," he said.

The appointment comes amid the growing adoption of biological solutions in

agriculture, driven by demands for sustainability and productive efficiency. In this context, the company seeks to expand its operations and consolidate its position in the international market.

Following a two-month transition period, Paul Koppert and Henri Oosthoek are expected to return to the Supervisory Board. From July 1st, the Executive Board will consist of Hans Peters (CEO), Martin Koppert (Business Director), and Siger Spaans (CFO).

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PTx expands operations in South America with retrofit and autonomy

Company invests in technologies for used machinery and launches autonomous solution in Brazil

29.04.2026 | 15:01 (UTC -3)

Cultivar Magazine

PTx reinforced its strategy in South America during Agrishow 2026. The company highlighted its offering of technologies for machinery. The focus is on increasing productivity and reducing costs in the field.

Andrew Sunderman (pictured center), vice president of commercial operations, presented the plan. He cited the importance of the South American market for the group. The company launched its brand in the region three years ago, during the same event.

PTx emerged in 2024 following the integration of Trimble Agriculture and Precision Planting. The group is part of AGCO's portfolio. The operation's mission is to bring technology to producers with any type of equipment. The central

objective involves greater agricultural profitability.

In one of its areas of focus, the company adopts a "retrofit-first" approach. This model allows for the installation of systems on both older and newer machines. Equipment from the 1990s receives upgrades. New machines also gain additional features. The technology works across various brands, such as Fendt, John Deere, and New Holland.

Internal estimates indicate approximately 190 tractors with more than 120 hp in operation in Brazil and Argentina. This volume exceeds annual sales of new machines. In the planter segment, the number reaches 49 units in use in the country. This scenario expands the scope for retrofit solutions.

Sales are conducted through a network of dealerships. Some of these partners focus exclusively on technology. Teams dedicate full time to diagnosing problems and recommending solutions. The company also utilizes channels linked to AGCO group brands.

Partnerships with manufacturers

In addition to retrofitting, PTX maintains partnerships with over 100 global manufacturers. They utilize the company's technologies in new machines. Planting systems and digital solutions are featured in various pieces of equipment on display at the trade show.

In its portfolio, the company advances in various phases of the production cycle. Solutions include nutrient management, localized application, and digital tools. Systems like WeedSeeker allow spraying only on weeds. The technology reduces the use of inputs. Another highlight involves Symphony Vision, recently introduced in the region.

Digital tools support planning and analysis. Platforms like FarmEngage and Panorama organize operational data. Producers can track performance before, during, and after the harvest.

The company has also entered the autonomous segment. The Outrun system represents a new frontier. The technology allows for autonomous operation of agricultural machinery. The equipment is

undergoing validation in the state of São Paulo. Tests will advance to other regions in the next stages. The plan includes the start of commercial sales in 2027. The solution is compatible with tractors of different brands.

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Jacto begins a new cycle with entry into new markets

Company debuts in mechanized sugarcane harvesting and strengthens its portfolio with advanced technologies

29.04.2026 | 14:28 (UTC -3)

Sibelle Freitas, edition of Cultivar Magazine

Jacto announced its entry into new markets and a broad package of product launches during Agrishow 2026, held in

Ribeirão Preto (SP). This move marks a new cycle of strategic expansion for the company, highlighting its debut in mechanized sugarcane harvesting, the consolidation of autonomous technologies, and the expansion of digital agriculture solutions.

According to CEO Carlos Daniel Haushahn, the projects presented are the result of years of development. "We are making robust technologies available to the market and taking an important step by entering the sugarcane harvesting sector and commercializing the first autonomous sprayer in Brazil," he states.

Entry into the sugarcane harvest

The company's main new product at the fair, the Hover 500 harvester, marks Jacto's entry into the sugarcane segment. The equipment adopts the two-row harvesting concept, with the capacity to harvest up to twice as many tons per hour compared to conventional machines, while maintaining operational speed.

The machine features a front-mounted cutting and transport system on a floating platform, capable of adapting to uneven terrain and reducing crop damage. According to the manufacturer, the model can generate up to 35% fuel savings per ton harvested.

Another highlight is the 2,7-meter track width, aligned with the planting spacing, which reduces the compacted area by up

to 60%, promoting the longevity of the sugarcane field and reducing losses.

Autonomous spraying gains scale.

The company is also advancing in the commercialization of the Arbus 4000 JAV autonomous sprayer, which is now being offered as a product after field validation. The equipment has already accumulated more than 16 hours of operation across approximately 60 hectares.

Without an operator on board, the system performs spraying with remote supervision and can operate continuously. Under ideal conditions, each unit has the capacity to treat more than 1.000 hectares per month.

The equipment features an application system with up to six fans, allowing for variable spraying according to plant height and greater efficiency in the use of inputs.

Advances on the Uniport line

In self-propelled spraying, Jacto introduced BalanceControl, a patented boom stability system available on the Uniport 3030 and 4530 models. This technology automatically adjusts the boom position according to the terrain, increasing operating time at the ideal height.

According to the company, the system can generate operational gains of up to 30%, in addition to providing up to 72% more

coverage and 92% more droplet density per square centimeter.

The line also evolves with MultiControl technology, which expands the number of application sections, and with the Unitrack directional system, which reduces soil compaction and improves operational efficiency.

Another highlight is the Uniport 3030 with Vortex technology, which uses air assistance to improve droplet deposition, especially in crops with high leaf density. The solution reduces drift and can decrease the number of applications.

The portfolio also includes a "green on straw" sensor, which allows for localized application of herbicides, reducing the use of products and water.

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Fertilization and planting solutions

In the nutrition sector, the company presented the 5030 NPK implement, with a 5.000 kg stainless steel reservoir, designed for multi-brand machines. The equipment features automatic control of 12 sections and can generate savings of up to 15% in fertilizers.

The solutions from the Uniport NPK line and the tractor-mounted Tellus 10.000 NPK model were also highlighted.

In planting, the Lumina 300 stands out for its versatility in summer crops, while the Meridia 200 incorporates precision agriculture technologies to improve the quality of the operation.

Tractor-mounted spraying and drones

Among tractor-mounted sprayers, the standout is the Advance 2000 AM24, aimed at small and medium-sized producers, with a 24-meter boom and control and telemetry technologies.

The company also presented the T100 drone, with a capacity of up to 100 liters or 100 kg, expanding its possibilities for use in the field. The portfolio also includes the

T70, T25P, and the Mavic 3M models for imaging.

Digital agriculture and connectivity

Jacto has reinforced its digital agriculture strategy with the new EVOS display line, which includes different levels of technology for operational control.

The EVOS 500 light bar marks the entry into guidance systems, while the EVOS 800 and 1000 models enhance the operator experience on Uniport sprayers. These solutions help reduce overlaps, failures, and wasted inputs.

Coffee and portable equipment

In coffee harvesting, the company presented advancements in the K 3000, with automatic systems that increase stripping efficiency to up to 97% and allow operation on sloping terrain.

In the portable line, the SB-20D and SB-18P battery-powered sprayers focus on comfort, autonomy, and productivity, with reduced operator effort and higher working pressure.

Strategy and services

During the trade show, the company also highlights commercial opportunities

through its own consortium, with extended payment terms and special conditions for acquiring machinery.

The program also includes demonstrations, lectures on digital agriculture, and initiatives focused on the audience experience, such as the Jacto Store.

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Abdalah Novaes takes over Bayer Crop Science in Central Europe

This movement is a bridge between two of the world's largest agricultural powers

29.04.2026 | 14:25 (UTC -3)

Cultivar Magazine

Abdalah Novaes (pictured), an executive with a solid track record in the Brazilian agricultural sector, is preparing for a new challenge: starting July 1st, he will assume leadership of Bayer Crop Science for Central Europe, with operational bases in Poland.

This move is a bridge between two of the world's largest agricultural powers. Novaes, who has accumulated experience in various regions of Brazil, brings with him the dynamism and resilience of the Brazilian model.

Innovation school

For Abdalah, Brazilian agriculture is more than just an economic sector; it's a true

school of management and adaptability. The executive emphasizes that the speed at which problems and opportunities arise in the Brazilian countryside has prepared it to face any market.

"No other agriculture is as dynamic as ours. I'm going with the vision that I have a lot to contribute, but also with the ambition to learn so that, perhaps, I can return with even more knowledge," he said.

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AMA brings transmissions and cardan shafts to Agrishow 2026

Italian company presents components for agricultural applications and reinforces its expansion strategy in the Brazilian market

29.04.2026 | 12:49 (UTC -3)

WADA

AMA Group is participating in Agrishow XNUMX with a line of components for

agricultural machinery, highlighting transmission systems and cardan shafts designed for more demanding operational applications. The fair, which runs until May XNUMXst in Ribeirão Preto (SP), is strategic for the Italian company, which aims to showcase part of its expanded portfolio to the Brazilian public after the incorporation of the agricultural division of CMR Agriculture.

Among the featured products at Agrishow are angular gearboxes, reducers, multipliers, and cardan shafts used in different types of agricultural equipment. According to Danilo Pavarin, Area Sales Manager Brazil, the goal is to present the local market with a line of components focused on mechanical reliability and continuity of work in intensive operations.

In transmissions, the focus is on assemblies developed to withstand severe operating conditions. Angular gearboxes and reducers feature reinforced housings, helical gears, and precision-forged components—characteristics that, according to Pavarin, aim to ensure efficient power transfer and greater durability in the field.

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The company also highlights solutions designed for livestock farming, such as the MXV and MXF series of planetary gearboxes and transmissions used in feed mixers and distributors. According to

Pavarin, these assemblies operate with high torque at low speeds and can reach up to 40 kNm of continuous torque, meeting the needs of systems that require constant effort and prolonged operation.

Another product group that will be highlighted are the cardan shafts, components responsible for transmitting torque and power between tractor and implement. Integrated into the portfolio through the operation with CMR Agriculture, these items expand AMA's reach into a range of strategic parts for the operation of implements driven by power take-off. According to the company, the cardan shafts presented comply with European CE standards.

The expansion of this offering is directly linked to the acquisition completed in February 2025, when AMA incorporated the agricultural division of CMR Agriculture and came to hold 51% of Taizhou CMR Machinery Co. This move reinforced the group's presence in the transmission segment, an area in which CMR had accumulated more than 30 years of experience in the development and manufacture of precision components for agricultural and industrial use.

With over 55 years of experience, AMA Group develops and produces components and systems for agricultural machinery and off-highway vehicles. Its structure encompasses the Cab Systems & Components and Mechanical Components divisions, focusing on

mechanical, mechatronic, and cabin interior solutions. In the international market, the group reports operating with over 525 product references, serving more than 80 customers in 90 countries, and maintaining a network of 44 plants and sales offices.

For Pavarin, Brazil currently occupies a central position in the company's plans, both due to the size of the market and the level of demand for agricultural operations carried out in the country. In this scenario, the presence at Agrishow serves as a showcase for a line of components that seeks to meet the needs of manufacturers and users who require robustness, mechanical availability, and adaptability to severe work routines.

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Unesp proposes a new approach for more efficient nanoherbicides

Study suggests developing technology based on the characteristics of weeds

29.04.2026 | 11:27 (UTC -3)

Malena Stariolo, Cultivar Magazine edition

Photo: Krzysztof Ziarnek (Wikimedia Commons)

Researchers at São Paulo State University propose a change in approach to the

development of nanoherbicides, focusing on the specific characteristics of weeds. This strategy, considered more efficient and sustainable, was presented in an article published in the journal *Nature Reviews Methods Primers*, from the group *Nature*.

The study, entitled "*When the plant becomes the material: rethinking nanoherbicide design through plant-informed nanodesign*", was conducted by scientists affiliated with the National Institute of Science and Technology in Nanotechnology for Sustainable Agriculture (INCT NanoAgro), coordinated by Leonardo Fernandes Fraceto, at the university's Sorocaba campus.

The proposal arises in response to one of the main challenges in agricultural production: weed control of pigweed, ryegrass and crow's foot grass. These pests compete with crops for water, light, and nutrients and can cause significant productivity losses. According to Embrapa, uncontrolled infestation can reduce production by up to 90%, while even managed areas register average losses of around 15%.

Technology seeks greater precision and less impact.

Nanoherbicides utilize nanoscale structures to transport and release the

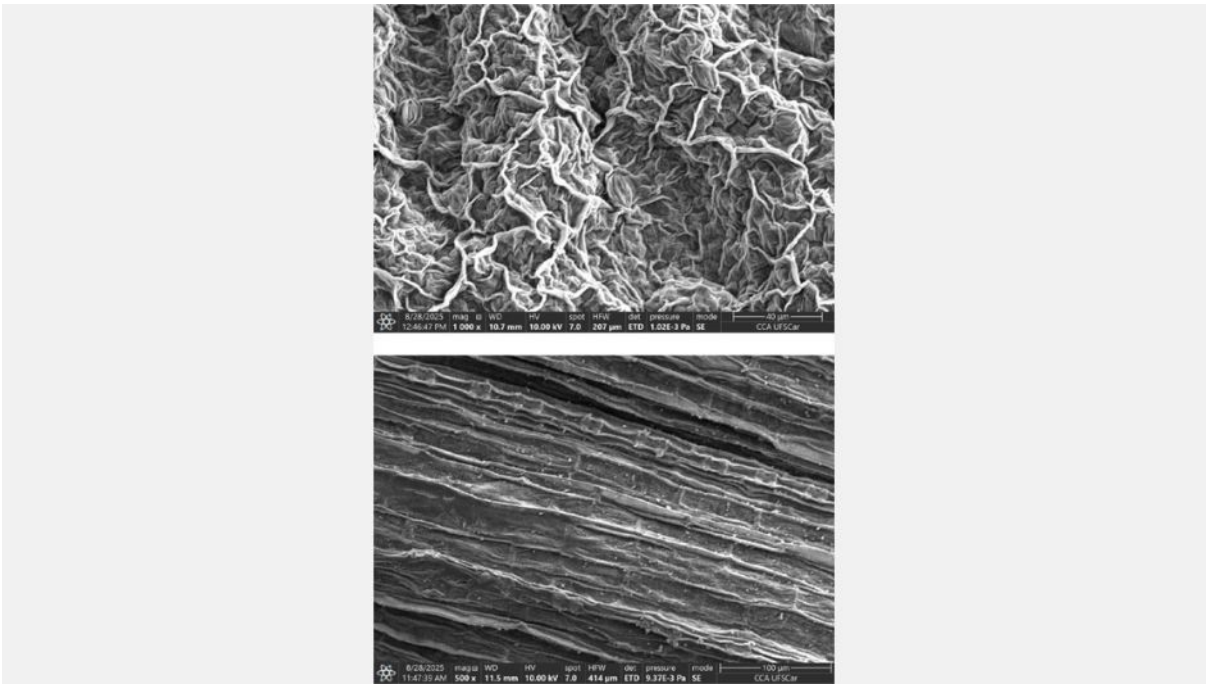
active ingredient in a more controlled manner within the plant. This technology allows for greater absorption efficiency, reduces losses due to evaporation or runoff, and decreases the amount of product needed, with the potential to reduce environmental impacts.

Despite the advances, the development of these solutions is still generally focused on the materials used — such as the type of nanoparticle, charge, and composition — and not on the biological characteristics of the target plants.

It is precisely this logic that the new study seeks to reverse. "The proposal is to prioritize the characteristics of plant species to develop nanoparticles that are better adapted to these particularities,"

explains Fraceto. The concept has been named plant-informed nanodesign (PIND).

The plant becomes the starting point.



Scanning electron microscopy images comparing two different weed species: amaranth and goosegrass; the images allow for a comparison of surface structural characteristics that can influence the retention, absorption, and interaction of foliar-applied formulations; photo: Ana Cristina Preisler

In practice, the approach proposes that the development of nanoherbicides should

begin with a detailed analysis of the weed, including aspects such as leaf structure, cuticle thickness, presence of trichomes, and stomatal density.

These characteristics directly influence how the herbicide is absorbed and transported within the plant. “Each species has unique properties that impact this process. Understanding these differences can make control more effective,” says researcher Ana Cristina Preisler.

To achieve this, the group uses techniques such as confocal microscopy and scanning electron microscopy, which allow for the analysis of plant structures in high resolution. According to researcher Brian Cintra Cardoso, these tools help identify the preferred absorption routes of

herbicides in each species.

Paradigm change

According to the authors, adopting this approach could represent a paradigm shift in the development of nanotechnology-based agricultural inputs.

Currently, only about 15% of crop losses occur even with weed control, while herbicide resistance grows with the repeated use of the same molecules. In this scenario, more targeted and efficient solutions become relevant.

“There are already well-established techniques. What is lacking is incorporating the plant as a central element in the development process,”

assesses Fraceto.

The researchers expect that the new approach will contribute to creating more effective products, with less use of inputs and less environmental impact, aligning agricultural productivity and sustainability.

More information at doi.org/10.1038/s43586-026-00483-6

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Orion launches the RS3000 trailer and updates the Hunter Line

Equipment presented at Agrishow increases efficiency in the application of bio-inputs and reinforces innovation in the field

28.04.2026 | 17:16 (UTC -3)

Ricardo Alécio

Orion chose Agrishow 2026 to present two new pieces of equipment to the market focused on efficiency in the application of

bio-inputs: the RS3000 ready-to-use spray trailer and the Hunter Line, now equipped with a product incorporator. Considered one of the main agricultural fairs in the world and the largest in Latin America, Agrishow will be held from April 27th to May 1st, from 8 am to 18 pm, in Ribeirão Preto (SP).

Orion's two new products reinforce the company's strategy of offering solutions that increase operational and agronomic efficiency in the field, with increased productivity, profitability, and sustainability.

The RS3000 was developed to meet a growing demand in the sector: the proper handling of biological products, which require specific care to maintain their viability. The equipment stands out for

meeting the needs of biology, its embedded technology, and its robust chassis with a tandem axle, designed to better distribute the load and ensure stability during transport.

The system has three independent tanks. The main tank, with a capacity of 3.000 liters, has a three-layer structure that provides superior thermal insulation, achieving up to 500% greater efficiency in temperature stability of the spray solution compared to conventional models. This difference is crucial for preserving the integrity of the microorganisms.

In addition, the trailer includes a 250-liter tank dedicated to operator safety — used for eye washing and emergency showering — and another 240-liter tank for internal

system cleaning.

The hydraulic system is also noteworthy. The Banjo M350 transfer pump, driven by the tractor's VCR, achieves a flow rate of up to 1.890 liters per minute, while the agitation of the mixture and product incorporation is carried out by an ARAG MSP400 centrifugal pump, with 400 l/min, ensuring efficient homogenization without compromising microorganisms.

Another distinguishing feature is the intelligent supply system, equipped with a programmable flowmeter that allows for setting precise transfer volumes, automating the process and reducing waste. The system also includes an electric valve, a wide flow range (from 303 to 2.650 l/min), and a pressure relief

mechanism for greater safety.

The RS3000 also incorporates a four-stage filtration system, quick-connect nozzles, LED lighting and a rotating beacon for nighttime operations, as well as structures that meet NR12 safety standards.

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Greater efficiency in the Hunter Line

Another important launch is the updated Hunter Line, which now features a product incorporator — a technology previously

restricted to the FA line. This new feature allows for greater operational capacity for the producer, especially in scenarios where ready-to-use spray solutions are not available.

The incorporator, with a capacity of 20 liters, is integrated into the applicator chassis at a height of 1,48 meters, offering ergonomics and practicality. The system features internal nozzles that perform cleaning, agitation, and rinsing functions, optimizing the preparation of the spray mixture directly in the field.

Strategic presence

During the trade show, Orion will welcome visitors to a 300-square-meter booth,

located between streets A and 8, designed to provide comfort and interaction with clients and partners.

According to the company's Marketing and New Business Director, Rodrigo Alandia, the launches reflect a direct response to the needs of the field. “These new products were developed with a total focus on the needs of the professional producer, who seeks efficiency, safety, and sustainability. Agrishow is the ideal environment to present these solutions, as it brings together the main players in agribusiness,” said Alandia.

Ricardo Rodrigues da Cunha, CEO and Director of Research and Development at the Orion Group, emphasizes the company's commitment to innovation.

"Orion continuously invests in technology to ensure that bio-inputs are applied with maximum efficiency and quality, guaranteeing live and viable microorganisms within the soil. Our goal is to contribute directly to a more productive and sustainable agriculture," he stated.

The group's vice president, Alexandre Santiago, reinforces the institutional importance of participating in the fair. “Our presence at Agrishow consolidates Orion as a leading player in the technological advancement of Brazilian agriculture. It's a strategic opportunity to strengthen relationships and demonstrate, in practice, the value of our solutions.”

With these new releases, Orion expands its portfolio and reinforces its position in a segment that is increasingly strategic for

the future of agriculture: the efficient use of bio-inputs combined with application technology.

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ZF Aftermarket expands its presence at Agrishow 2026

The company presents the concept of uptime for agribusiness, highlighting replacement solutions for the sector

28.04.2026 | 16:59 (UTC -3)

Marta de Souza

As one of the world's largest suppliers of replacement solutions, ZF Aftermarket is participating in Agrishow 2026 and

reinforcing its strategic role in high productivity in the field. Through the availability and reliability of its replacement parts, the company enables the longevity of agricultural equipment and optimizes field operations (uptime). In a scenario of increasing modernization in the sector, ZF Aftermarket is bringing to the fair a complete portfolio of components applied to axles, transmissions, and solutions for equipment from major manufacturers in the sector.

Among the highlights of ZF Aftermarket is the launch of clutches for agricultural tractors, consisting of a cerametallic disc for severe operations or an organic disc for greater operational comfort, bearing and pressure plate (lever and diaphragm spring). The solution expands coverage for

Massey, Valtra and CNH tractors, reinforcing robustness and thermal resistance.

“These two new product families are part of the portfolio for the agricultural segment, which should expand even further in the coming months. This strategy reinforces our positioning as an ideal partner for agribusiness here in South America,” emphasizes Luis Guena, Head of Sales for the Industrial segment at ZF Aftermarket South America.

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Another innovation is the new hydraulic pump applied to Valtra, Valmet, CNH and

Massey tractors, developed to meet the demands of steering systems, load lifting and equipment operation, ensuring high volumetric efficiency and continuous performance under high loads.

During Agrishow, ZF Aftermarket will also demonstrate various components available for the APL, AS, and TSA axle families for agricultural applications, as well as the MT-L, used in construction machinery, including roller bearings for planetary gear sets, planetary gears, sun shafts, planetary carriers, crown and pinion gears, steering rods, seals, hubs, and combination rings. These items are responsible for multiplying and transmitting torque in severe applications such as soil preparation, spraying, and transport, directly impacting

the durability and energy efficiency of the equipment.

TSA 09 axle and Ergopower transmission

In addition to innovations and digital solutions focused on managing and monitoring operations, the company will also bring to the event renowned products from automakers, developed to enhance the robustness and efficiency of machinery in the field and in construction.

The TSA 09 axle will be on display at the company's booth. Suitable for tractors up to 90 horsepower, the component was developed at ZF's Sorocaba (SP) plant,

where the company's Global Competence Center for agricultural axles is located. Designed for applications requiring higher torque and robustness, the model features a specific crown and pinion ratio that favors operations in severe conditions, such as flooded areas. The ZF TSA axle family is the broadest in the portfolio and can reach up to 175 hp.

Recognized in the market for its modular design, comfort, and robustness, the Ergopower, ZF's powershift transmission, will also be on display, reinforcing solutions for application in construction machinery. In this segment, ZF is also one of the world's largest suppliers and is present in several automakers. In the aftermarket, the company continues to

expand its portfolio, including parts for the Ergopower.

Commitment to sustainable mobility

Participation in Agrishow 2026 will also include an activation aimed at children, with the launch of the character Zeca, part of "ZF Friends," an initiative by the company that addresses topics related to ZF's areas of operation such as safety, transportation, and the environment, in a playful way, connecting innovation, education, and social responsibility.

Through the "Little Friends" initiative, ZF Aftermarket reinforces the importance of raising awareness among children and

families in rural areas from an early age about sustainability, safety, and basic care for machinery and vehicles, encouraging them to recognize the value of maintenance, parts quality, and the use of technologies for the safety of agricultural operations. The company will distribute exclusive gifts featuring the new character to families who visit its booth.

Market in transformation

This focus on the care and responsible use of machinery becomes even more relevant given the current situation in the agribusiness sector. The Brazilian agricultural machinery market ended 2025

maintaining a level of approximately 48,9 units sold, according to a report released by Anfavea.

In this scenario of stability after a period of contraction, the sector has entered a phase of stability, which increases the importance of strategies focused on the longevity and good performance of equipment. In this context, preventive maintenance and the use of parts with appropriate specifications become paramount, fundamental to ensuring operational availability during the harvest season and preserving the investment throughout the life cycle of the machines.

“The aftermarket plays an increasingly strategic role in Brazilian agribusiness. During critical periods such as harvest

time, machine availability depends directly on the quality and correct specification of replacement parts. Using appropriate components and having confidence in these moments helps to avoid unplanned downtime, increase operational efficiency, and protect an essential asset for the rural producer – this is what we call uptime in agriculture," says Luis Guena.

"As agriculture becomes increasingly connected and performance-driven, our role is to translate our global industrial expertise into scalable aftermarket solutions that support customers throughout the entire machinery lifecycle — across different regions, applications, and technologies. Agrishow is not only a fundamental event for South American agribusiness, but also an important

platform to demonstrate how our global industrial portfolio enables productivity, reliability, and long-term value in agriculture worldwide," comments Marco Neubold, Global Head of Industrial Business at ZF Aftermarket.

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John Deere introduces CH7 and CH9 harvesters for sugarcane

Machines reduce plant impurities by up to 20% and fuel consumption by up to 10%, according to company tests

28.04.2026 | 16:30 (UTC -3)

Cultivar Magazine, based on information from John Deere

John Deere presented the new CH7 and CH9 sugarcane harvester families during Agrishow 2026. The models aim to meet the demands of the sugarcane industry for operational efficiency.

The machines feature a new cleaning system. The solution operates with lower primary extractor rotations. According to the company, tests under representative conditions indicated a reduction of up to 20% in vegetable impurities. Losses were at levels equivalent to reference models.

Reducing impurities increases the ATR (Total Recoverable Sugar) delivered to the plant. It also increases load density and improves logistics efficiency.

The CH7 recorded a reduction of up to 10% in fuel consumption per ton

harvested, according to field tests. The result comes from changes in the cleaning system, the hydraulic system, and the traction assembly.

The CH7 and CH9 families use a 13,6-liter John Deere PowerTech engine. Power reaches 490 hp at 1.900 rpm or 544 hp at 1.700 rpm. The hydrostatic transmission is designed for continuous operation. The emissions standard complies with Proconve MAR-I, with a Tier 4 Final option depending on the market.

The harvesters harvest two rows simultaneously and independently. They operate at spacings of 1,4 m and 1,5 m. The RowAdapt system automatically adjusts the cutting and feeding units.

The set includes a base cutter with integrated control, DuraSync chipper, and redesigned primary and secondary cleaning systems. The extractor has variable speed.

The enclosed, pressurized cabin features air conditioning, full LED lighting, a laminated glass windshield, and a 12,8-inch G5 Plus CommandCenter monitor.

The machines also incorporate a new electronic architecture. The solution expands data processing, improves diagnostics, and allows for greater integration with digital tools. Features include JDLink Boost, John Deere Operations Center, Machine Sync, and an optional Cane Advisor.

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Stara presents Hercules 9.0 at Agrishow

New self-propelled fertilizer spreader increases capacity to 9.000 kg and enhances efficiency in the field

28.04.2026 | 14:53 (UTC -3)

Cultivar Magazine

Stara is participating in Agrishow 2026 in Ribeirão Preto (SP), with a complete portfolio of solutions for the field. Among the highlights of the stand is the launch of

the Hércules 9.0 fertilizer spreader, which arrives on the market with an expanded capacity of 9.000 kg.

The new model reinforces the manufacturer's strategy of expanding the autonomy and efficiency of field operations. Considered an evolution of one of the brand's most established lines, the Hercules 9.0 maintains its focus on high yield and precision in dosage, factors that directly impact operational performance and crop yields.

“The Hercules line stands out for its market tradition and for being the best-selling self-propelled distributor in the world. Now, with the Hercules 9.0, we have combined autonomy, performance, operational comfort and economy, generated by the

new engine and transmission system," says Thomas Liska, Product Marketing Coordinator at Stara.

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According to the company, the equipment combines a high-powered engine, robust structure, and a cabin designed to offer comfort, practicality, and safety to the operator. The machine also features LED lighting, which allows for maintaining application quality even during nighttime operations.

Another key differentiator is the integration with Stara's technology package, which brings together solutions focused on

precision agriculture. With this, the distributor aims to increase efficiency in the use of inputs and contribute to productivity gains in the field.

With this launch, Stara is betting on strengthening its line of self-propelled spreaders, expanding its operational capacity and meeting the demand for greater efficiency in fertilizer application.

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New Holland presents a concept tractor inspired by the Fiat 702

Il Trattore will be at Agrishow 2026 with a retro design and a focus on versatility

28.04.2026 | 13:33 (UTC -3)

Cultivar Magazine, based on information from João Maroni

A concept based on the Fiat 702, produced in Italy, is on display at the fair; the model inspires the T5.120 - Photo: Cultivar Magazine

New Holland presents the T5.120 Il Trattore concept tractor at Agrishow 2026, a model that revives the brand's Italian heritage and reinforces its proposition of versatility for general use.

The concept celebrates the legacy begun with the Fiat 702, the first tractor produced in series by the Italian manufacturer. The company displays a restored 702 model alongside the new equipment, highlighting the technological evolution over more than a century.

The T5.120 Il Trattore is derived from the top-of-the-line model in the T5 series. The Jesi plant in Italy handles both design and manufacturing. The concept adopts green and red colors and incorporates visual elements inspired by the Fiat 702. The design emphasizes historical identity and

practical application in the field.

The name “Il Trattore” reinforces the concept of a multi-functional tractor. The machine serves different agricultural operations. The approach recalls the essence of Fiat's first model, developed to expand mechanization in the face of labor shortages during the First World War.

The Fiat 702 introduced a four-cylinder engine and structural transmission. The design increased the supply of mechanical power and reduced physical effort in the fields. Its performance boosted agricultural mechanization in Europe and consolidated the reputation of Italian engineering in the sector.

New Holland maintains its strategy of integrating design and engineering. The

brand highlights the influence of historical projects, such as the 80 and 90 series tractors, developed with the Italian firm Pininfarina in the 1970s and 1980s. This philosophy continued during the Fiatagri phase and evolved to the brand's current configuration.

According to Manuele Amprimo, head of industrial design at CNH, the concept reinterpreted classic elements of the Fiat 702 for the current context. The project incorporated front graphics, a saddle-style leather seat, and a retro-inspired toolbox. The design sought a connection between form, color, and materials.

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Case IH updates Axial-Flow with a focus on automation

The 160 Series incorporates AI and reduces operator intervention

28.04.2026 | 11:27 (UTC -3)

Jessica Adriani

Case IH is bringing a complete portfolio of machines and digital solutions to Agrishow 2026, highlighting the Axial-Flow Series 160 Automation combine harvester, which

incorporates the brand's main advancements in automation and artificial intelligence applied to harvesting. The line features new autonomous capabilities and reinforces the company's strategy of integrating technology, productivity, and connectivity in the field.

Launched in 2024 and recognized as "Machine of the Year," the 160 Series—aimed at classes 5 to 7—evolves with systems that allow up to 1.800 automatic adjustments per day during operation. According to the manufacturer, the machine can handle up to 90% of operational decisions without human intervention, through sensors and machine learning algorithms.

Among the new features are automatic headland turning (AccuTurn), real-time data sharing between machines (AccuSync), and the RowGuidance system, designed for corn harvesting with automatic alignment correction. The line also now includes dual Pro 1200 monitors and integration with the FieldOps portal, which allows remote monitoring of machine performance.

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Case IH's participation in the trade show, held in Ribeirão Preto (SP), includes more than 20 pieces of equipment distributed across a booth of over 8 m² — the largest

at this edition. The aim is to present a complete ecosystem, encompassing everything from planting to harvesting, with connected solutions.

“Agrishow is the main trade fair for us in Latin America. It's where we present the most advanced technologies for agriculture today and in the future,” says Paulo Arabian, Vice President of Sales for Case IH in the region.

In addition to grain harvesting, another highlight is sugarcane harvesting, with the updated Austoft 9000 Model Year 2026. The machine comes with structural and operational improvements, such as a new hydraulic architecture, a reinforced electrical system, and onboard connectivity with remote access to data and the

operator's manual.

In the platform segment, the company is starting national production of the Draper FD2, previously supplied by MacDon, with an investment exceeding US$20 million in the factory in Curitiba (PR). The equipment features advancements such as a larger cutting area, better terrain adaptation, and ease of operation.

During the corn harvest, the brand is expanding its portfolio with a new line of platforms developed in partnership with MetalhC. There are three categories — BM+, Premium, and Evolution — with configurations ranging from 4 to 30 rows, aimed at different types of producers.

The Case IH booth also features a space dedicated to innovation, with

demonstrations of digital solutions focused on fleet management, connectivity, preventive maintenance, and training. Another point of interest is the ethanol-powered machinery project, which is still under development and will receive updates during the fair.

The 31st edition of Agrishow takes place between April 27th and May 1st. Case IH is located on street B, booth A14a.

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Bayer appoints business director for its Cerrado unit

Marina Castro has experience in sales and has worked at Dekalb

28.04.2026 | 10:19 (UTC -3)

Cultivar Magazine

Agricultural engineer Marina Castro has been promoted to the position of Director of the Cerrados Business Unit at Bayer. The executive has been with the company

for over seven years and, until now, held the position of Regional Sales Manager for the Dekalb brand, working in the off-season crop season in Paraná and Mato Grosso do Sul.

With a degree from São Paulo State University (Unesp), Marina has extensive experience in leadership positions in the sector. Prior to her current role, she was also part of the Monsanto Company team—later acquired by Bayer—where she worked for six years.

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Fendt highlights autonomy and connectivity at Agrishow 2026

The brand presents tractors, planters, and digital solutions to increase efficiency and reduce costs in the field

28.04.2026 | 08:56 (UTC -3)

Mônica Pileggi, Cultivar Magazine edition

Agrishow 2026, held between April 27th and May 1st in Ribeirão Preto (SP), will be

the stage for Fendt's strategy to expand the use of digital technologies, operational autonomy, and energy efficiency in the field. The brand, which is part of the AGCO group, will bring to the event everything from new high-power tractors to connected agricultural management platforms.

“Agrishow is a great showcase for us, and we aim to bring the most innovative and technological products to the fair. This year, we have several new products that allow producers not only to use machines with very high capacity and precision, but also complete solutions that provide productivity gains and promote sustainable operation throughout the crop cycle,” says Fabio Dotto, Marketing Director of Fendt Latin America.

Among the main releases is the fourth generation of the Fendt 1000 Vario Gen4 tractor, with power ranging from 440 to 550 hp. The model features improvements focused on operational efficiency, such as the DynamicPerformance system — which adds power according to demand — and longer maintenance intervals. It also incorporates new comfort and lighting solutions, as well as compatibility with renewable fuels such as HVO100.

Another highlight is the evolution of the Fendt Momentum planter, now available in 30- and 40-row versions. The equipment has received improvements in fertilizer distribution and weight transfer system, which contributes to greater uniformity in planting and increased yield potential. The Delta Force technology, already known

from the brand, remains a differentiator by automatically adjusting the pressure row by row during sowing.

In the field of automation, Fendt presents the OutRun system, a solution that allows for the assisted operation of driverless machines in the cab, under supervision. Integrated into the Trimble PTx ecosystem, the feature aims to resolve labor bottlenecks and increase operational efficiency, with the possibility of continuous operation and reduced overlaps in the field.

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The manufacturer is also reinforcing its tractor portfolio with models such as the Fendt 800 Vario Gen5 and the Fendt 728 Vario Gen7, which combine high power with technologies focused on fuel economy and reduced emissions. The Fendt 1167 Vario MT crawler tractor focuses on less soil compaction, while the Fendt Ideal 9T combine harvester promises gains of over 10% in productivity and energy efficiency.

Clique aqui e veja no Instagram
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In the crop protection segment, the Fendt Rogator 934H sprayer expands application versatility, with features aimed at reducing waste and increasing precision in the use

of inputs.

Beyond the machines, connectivity and digital management are gaining prominence. The FarmEngage platform centralizes the management of agricultural operations, integrating equipment from different brands and allowing real-time monitoring, automatic report generation, and optimization of resource use. The Panorama system complements agronomic monitoring, especially in planters.

Another advancement is the integration with Starlink satellite internet, which becomes compatible with monitors used in the brand's machines. The solution aims to guarantee connectivity even in areas with low network coverage, expanding the use

of digital tools in the field.

According to the company, the set of innovations reinforces its commitment to a more connected, efficient, and sustainable agriculture, focusing on reducing operational costs and increasing productivity.

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Bayer presents a portfolio focused on new molecules

The company projects five product launches per year until 2030 and is reinforcing resistance management in the field

27.04.2026 | 22:47 (UTC -3)

Cultivar Magazine, based on information from Ana Lívia Lopes

Bayer presented crop protection solutions during an event in Paulínia, highlighting new molecules under development and a strategy of continuous launches until 2030. The company projects five new products per year, in addition to 14 new molecules and six new modes of action, focusing on increasing productivity and tackling resistance in the field.

The portfolio includes three innovations in the registration phase. The fungicide Iblon features a new carboxamide. The herbicide Icafolin acts in the post-emergence control of weeds. The insecticide Plenexos inaugurates the class of ketoenols. The solutions expand technical alternatives for soybeans, corn, cotton, and other important crops in Brazil.

According to Tiago Santos (pictured), leader of Bayer's crop protection business in Brazil, the company directs investments to accelerate research and anticipate producer demands. The company uses artificial intelligence to increase precision in the development of molecules and combines modes of action for resistance management.

Fungicides

The fungicide Iblon combines isoflucypram with tebuconazole. The formulation broadens the spectrum of control of foliar diseases such as bipolaris leaf spot, diplodia, target spot, and ramularia. Trials indicate productivity gains exceeding 80% compared to conventional methods,

according to Bayer. The company expects to begin marketing it in the 2027/28 growing season.

For the 2026/27 harvest, the company highlights Xivana Smart (fluoxapiprolin + fluopicolide) and Valpura (bixafen).

Insecticides

The insecticide Plenexos, in turn, offers high efficiency in pest control and a prolonged residual effect. According to the company, the technology does not impact beneficial insects, such as pollinators, which increases its selectivity. The solution is suitable for crops such as soybeans and cotton. The product's active ingredient is spidoxamate, a molecule from the ketoenol group, classified by IRAC in group 23.

Bayer expects registration to be granted this year.

Also in the insecticide segment, Valient, whose active ingredient is flupiradifurone, reinforces the control of sucking insects, leafhoppers, and aphids, with a shock effect and systemic action. The product exhibits high systemic action and residual power.

Herbicides

In herbicides, Convintro Duo combines diflufenicam and metribuzin for pre-emergence application. The solution enhances the control of difficult-to-manage weeds, such as pigweed and goosegrass.

The herbicide Icafolin stands out as one of the major launches planned for 2028. The product introduces a new mechanism of action after more than three decades without innovation in this area. The technology acts in the control of weeds resistant to glyphosate and other herbicides. The product also favors regenerative agriculture practices by protecting the soil and encouraging no-till farming.

Seed treatment

In seed treatment, Bayer introduced the Guardian concept. The solution combines protection against pests, early diseases, and nematodes. The package includes the nematicide Verango Prime (fluopyram),

with prolonged action and selectivity to beneficial organisms.

The event took place at the company's Research and Development center in Paulínia. The unit occupies 86 hectares and receives more than 100 molecules per year for evaluation. The site supports the adaptation of global technologies to tropical conditions and is part of the innovation strategy for the Brazilian market.

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Cabined machines boost Yanmar's portfolio

The brand invests in comfort and efficiency and presents connected solutions at Agrishow 2026

27.04.2026 | 17:50 (UTC -3)

Kelly Moraes

Yanmar's participation in Agrishow 2026 reinforces its commitment to small rural producers, with solutions that combine technology, operational efficiency, and

easy access to mechanization. Among the main highlights are the cab versions of the YM 347 and Solis 105 tractors, which will be on display for the first time to the fair's attendees.

“Yanmar is committed to continuously evolving its solutions based on the real needs of rural producers. Presenting the machines in cab versions to the Agrishow audience reinforces this strategy, bringing even greater attention to the well-being and safety of the operator, especially in challenging working conditions,” highlights Anderson Oliveira, Commercial Manager of Yanmar South America.

In practice, this care translates into direct gains in day-to-day operations. One of the main advantages of cabined machines is

related to thermal comfort. In a country with a predominantly hot climate and workdays that can extend for several hours, the cabin helps create a more protected environment against sun, wind, dust, and weather variations. This condition helps reduce the operator's physical strain throughout the day and can directly impact the quality and continuity of activities performed in the field.

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Another important highlight of the brand's participation will be an area dedicated to demonstrating telemetry, with solutions such as SA-R (Smart Assist Remote) and

Yanmar Protection. The goal is to show farmers, in practice, the advantages of these systems, including what can be monitored in real time, the types of reports available, and how these tools contribute to more efficient management of operations.

Complementing this proposal, the company will also present customized maintenance plans, which vary according to the contract duration and the service level chosen by the client. The goal is to ensure that the machines remain operational for as long as possible, with planned preventive and predictive maintenance, reducing downtime and increasing productivity in the field.

Yanmar is also focusing on special financing conditions for the acquisition of machinery and solutions, in partnership with institutions such as DLL, Bradesco — a recently established partnership — and Âncora Consórcios, through the Yanmar National Consortium.

In addition to the cab versions, the portfolio on display will include tractors with power ranging from 26 to 105 hp, the Yanmar YH 880 grain harvester — the first in the national market in class 2, also presented in a cab version — as well as machines aimed at the civil construction sector, such as mini-excavators from 1 to 10 tons and implements, such as hydraulic breakers.

The company's power products are also part of the exhibition, such as the

generator specifically designed for charging spraying drones and an industrial engine, expanding the ecosystem of solutions offered by the company.

At Agrishow 2026, the Yanmar booth is located opposite the red ticket booth.

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Valtra arrives at Agrishow with a new generation of tractors

The M5 series leads launches focused on efficiency and productivity

27.04.2026 | 17:40 (UTC -3)

Larissa Santos

At Agrishow 2026, Valtra presents the M5 Series to the market, an evolution of the traditional BH HiTech line of tractors. The new models combine the brand's

renowned DNA of robustness with an unprecedented package of innovation, design, and operational efficiency.

“It’s a new era that begins. The M5 Series marks the next step in the historical evolution of the BH family, being strategically designed to meet the main agricultural needs of Brazil with maximum performance,” emphasizes Winston Quintas, Marketing and Product Coordinator for Valtra Tractors.

The new nomenclature reflects a leap in technology and comfort, introducing the M165 (165 hp) and M185 (185 hp) models, which are specifically designed to boost productivity in grain and rice crops, but also suitable for a wide variety of other crops.

The tractor boasts a robust and modern aesthetic, highlighted by the new hood with a 5th generation design. However, the biggest revolution for the operator lies in the new cab, which features new upholstery and seats, as well as the convenience of a "cooler box" integrated into the tractor's interior. As the sugarcane sector is in Valtra's DNA, the M5 Series maintains its pioneering spirit with the traditional sugarcane-specific kit, which includes a 3-meter track width front axle, pneumatic brake system, and ball-pin drawbar to optimize transshipment operations in the sector.

In terms of technical aspects, the M5 Series is equipped with the renowned AGCO Power 4-cylinder engines, which guarantee power with economy. The machine also features a new Synchronized Power Shift HiTech 3 Transmission, with a 3-speed system that allows gears to be changed while the tractor is in motion. The new gear lever travel makes forward and reverse gear changes much smoother and more linear, optimizing time and reducing operator effort.

Furthermore, the hydraulic system has been improved to support heavy implements and severe operations, delivering a high flow rate of 205 liters per minute, ensuring agility and constant power in the field. “What we did with the

new M5 Series was to honor the legacy of tireless strength of the BH HiTech line, but elevating the machine to its technological peak. Today we are delivering a tractor that honors the history of strength of previous generations of the BH line, but looks to the future with greater operational intelligence and comfort. It is the definitive meeting between the tradition of hard work and the sophistication of digital agriculture," concludes Winston Quintas.

The legacy of BH in Brazil

Established as the leading reference in strength and reliability in Brazilian agribusiness, since its predecessors

Valtra-Valmet 1580, 1780 and 1880S tractors, the Valtra BH Line celebrates a decades-long legacy as a leader in the sugarcane segment. Since the launch of Generation 1 in 2000, with the BH140, BH160 and BH180 models, the line has established itself as the standard of robustness in the field. This legacy of strength was successively improved with Generation 2 in 2007 and Generation 3 in 2013, leading Valtra to receive the Master Cana award for 10 consecutive years as the best tractor in the sugar-energy segment.

The definitive technological leap for the line occurred in 2017 with the arrival of Generation 4, which brought tractors with up to 220 hp, and culminated in 2018 with the arrival of the BH HiTech line. This latter

line introduced automated transmission to the heavy-duty segment, reaffirming Valtra's commitment to combining the tradition of hard work with maximum operational efficiency and technological intelligence. In this way, the series evolved from mechanical robustness to high technology, integrating efficient AGCO Power engines and advanced precision agriculture solutions.

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At Agrishow 2026, Baldan presents a new generation of planting

The brand expands its portfolio, advances in product diversification, and consolidates its growth strategy

27.04.2026 | 16:59 (UTC -3)

Baldan

Baldan is participating in the 31st edition of Agrishow, reinforcing its position as a strategic partner for rural producers. This

year, the company is expanding its portfolio, advancing in planting and spraying with the launch of products that meet different realities with accessible technology in the field.

“At a time when farmers are seeking greater efficiency to cope with high costs and tighter margins, Baldan is presenting a new generation of planting and spraying equipment at Agrishow 2026. These new products reinforce two increasingly crucial pillars in agriculture: operational precision and increased yield in the field,” highlights Fernando Capra, CEO of the company.

Precision planting

Among the highlights is the new Baldan SPA Line of planters, developed to meet the needs of smaller properties to medium-sized operations. With versions from 3 to 9 rows, the equipment allows for different spacing configurations and metering systems, including mechanical and pneumatic options.

The quality of seed deposition is one of the equipment's distinguishing features. The machine operates with a coefficient of variation starting at 4%, which contributes to more uniform plant growth and a more productive crop.

Another important point is autonomy. With greater capacity in the seed and fertilizer reservoirs, the planter reduces the number of stops for refilling, increasing operational

efficiency, which is especially important in short planting windows.

The line was also designed to work well in both no-till and conventional planting systems, performing well in clayey and sandy soils, as well as in areas with a higher volume of crop residue.

The new version of the already established PP Solo features a new design and arrives with the "second generation": the Baldan PP Solo G2, focused on precision planting. One of its main differentiators is the depth control system, which acts directly on the planting line, maintaining more uniform seed placement even on uneven terrain.

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In practice, the technology reduces variability in plant development, promotes better crop establishment, and minimizes competition between plants, contributing to the preservation of productive potential. Another advantage is the lower power requirement per row, which allows operation with smaller tractors and results in reduced fuel consumption, a relevant factor for efficiency and operational costs during the harvest.

Baldan's new planters mark the beginning of a new planting concept, combining technology, efficiency, and design. With a

modern look, the equipment features a renewed design that extends from the structure to the seed and fertilizer boxes, reflecting innovation in both aesthetics and functionality.

Complete spraying line

Agrishow 2026 marks a strategic advancement for Baldan in agricultural spraying, now offering a broad portfolio for small and large farms. For simpler operations, the Baldan Liri PEC and Liri AM models work with 600 to 800-liter tanks and are suitable for applications in pastures, area maintenance, and smaller-scale properties.

The Baldan Liri PEC, developed with a focus on livestock farming, features 2,2-meter booms and a 75-liter-per-minute pump, standing out for its simplicity and low operating cost, making it a practical option for everyday use.

The Liri AM, with manual boom opening and closing, allows for simple and uncomplicated daily operation in the field, and is available in lengths of 10, 12, and 14 meters. In addition, its piston spray pump has a flow rate of 75 L/min, providing better productivity in the daily operations of rural producers.

Accessible technology and yield in the field

In the larger segment, Baldan reinforces the Avola family of self-propelled sprayers, which now gains new versions. The Avola line evolves with new versions that expand capacity, onboard technology, and operational efficiency.

The Avola Canavieiro, developed specifically for the sugarcane industry, incorporates solutions such as autopilot, section control, intelligent 4x4 traction, and four-wheel steering. The model also stands out for its reduction in crop damage by up to 40% and its ability to operate on slopes of up to 47%, combining stability and precision in different terrain conditions.

Baldan Avola Canavieiro

Developed specifically for the sugarcane market, this model delivers high stability,

precision, and robustness, with features such as Trimble autopilot, sectional spray control, intelligent 4x4 traction with individual wheel control; four-wheel steering, up to 40% reduction in soil compaction, 50/50 weight distribution between axles, ramp capacity of up to 47%, 24m and 27m booms, a tank capacity of up to 3000 liters, and a 260 hp MWM engine.

The spray recirculation system keeps the spray solution in constant circulation, preventing blockages and ensuring maximum application efficiency.

The new Avola Grãos 3000 and 3500 models position Baldan at a new technological level in the segment. With tanks of up to 3.500 liters and booms

reaching 36 meters, the equipment was designed for medium and large areas, focusing on high operational efficiency.

The technology package includes autopilot, section control, 4x4 hydrostatic transmission and four-wheel steering, as well as advanced monitoring features with integrated cameras, operating sensors and real-time control.

Baldan Avola Grains 3000 and 3500

Designed for medium and large areas, the new Avola Grãos models raise the technological standard of spraying with 3.000 and 3.500 liter tanks, 30m, 32m and 36 meter booms, 260 hp MWM engine, GPS + autopilot + section control, 4x4 hydrostatic transmission, 35% to 45% ramp capacity and four-wheel steering.

The technology package also includes a camera system (rearview and digital mirrors) for real-time monitoring, angle sensors on the bars with automatic damping, a spray level sensor with real-time reading, a pump sensor (wet/dry) with audible alerts, and a multifunctional 6-button control panel.

Notably, the Baldan AI system enables complete operational monitoring, generating exportable maps, graphs, and reports, enhancing management and decision-making in the field.

Greater efficiency within the farm gate

The expansion of the portfolio reflects a broader company strategy: to increase its presence within rural properties by offering integrated solutions that support producers at different stages of production.

With a history of industrial investments, process modernization, and expansion of its product pipeline, the company projects growth in several business verticals, even in a challenging macroeconomic environment.

“Baldan has built its history alongside rural producers and understands that each new technology needs to generate real results on the farm. Our commitment is to evolve together with the field, respecting this relationship of trust built over decades,” emphasizes Capra.

Financial solutions guarantee options for acquiring new products

Faced with a scenario of high interest rates and greater selectivity in credit, Baldan structures financial solutions seeking to enable the necessary investments for rural producers to maintain the productivity of their crops, which are fundamental in these complex and challenging market times. The company offers differentiated options, such as Barter, in partnership with Grão Direto, a negotiation model based on the exchange of grains for inputs or equipment, which is consolidating itself as an efficient, predictable and increasingly used solution in Brazilian agribusiness.

During the fair, visitors will have access to special financing conditions, with rates starting at 2,5% per year, as well as consortium options with rates starting at 7% per year and terms of up to 120 months, catering to different financial planning profiles.

Farmers still have access to a variety of products readily available, especially in the planting and spraying lines. Among the highlights is the Avola, a self-propelled sprayer in 2.000 and 2.500 liter versions, and the LIRI in 600, 800, and 1000 liter versions, with immediate delivery and a delivery time of up to 10 days throughout Brazil.

Furthermore, producers and resellers will receive a 20% discount on the purchase of tools from Milwaukee, Baldan's official

after-sales partner, expanding negotiation advantages and strengthening the brand's ecosystem of solutions.

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Kuhn launches PRO line and expands portfolio at Agrishow

New equipment integrates automation, application control, and solutions for large areas

27.04.2026 | 15:51 (UTC -3)

Tatiane Mizetti, Cultivar Magazine edition

Kuhn do Brasil is present at Agrishow 2026 in Ribeirão Preto (SP), with seven new products ranging from large-scale equipment for distributing inputs to

solutions for livestock and perennial crops. One of the main launches is the PRO Line, focused on machines with advanced factory-installed technology packages.

Under the concept "Strength that endures across generations," the manufacturer is betting on the integration of tradition and digitalization in the field, with solutions that prioritize automation, precision, and the reduction of operational errors.

The PRO line focuses on automation and application control

The brand's main innovation is the PRO Line, which now identifies equipment with "premium" configurations, equipped with

embedded systems that automate processes and increase efficiency in the use of supplies.

Among the highlights is the Accura 8.0 HD PRO, with an electronic flow control (EMC) system that independently measures the application rate on each distributor disc. The technology automatically adjusts the dosage in real time, even in adverse conditions such as sloping terrain or obstructions. The model also incorporates features such as meter-by-meter section control, automatic opening and closing at headlands, and four-wheel steering, aimed at improving maneuverability and reducing soil compaction.

In the Fighter and Stronger HD PRO sprayers, the focus is on the Airspray-X

system, which performs pneumatic nozzle-by-nozzle control. Integrated with soil and crop sensors, the system automatically adjusts the boom height, reducing drift and overlap. The machines also feature automated headland turning and four-wheel steering.

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Precision livestock farming gains scale with new Euromix

Focused on animal nutrition, the Euromix 3 L line arrives expanded, with models ranging from 28 to 45 m³ — the latter considered the largest towed mixer wagon

in the world. With three vertical augers, the equipment aims to ensure homogeneous mixing without compromising the fiber content of the diet, a factor that directly impacts rumination and dry matter intake.

According to the company, the project prioritizes efficiency in feed conversion and durability, with adjustable counter-knives that allow the mixing time to be adapted according to the formulation.

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Large-scale distribution and soil preparation

For large areas, Kuhn presents the Accura 32000, a distributor with a stainless steel hopper and the capacity to handle fertilizers, seeds, and soil amendments. The equipment uses a triangular distribution pattern with double overlap, a technique that reduces failures caused by wind or operational errors. The double gate system with ISOBUS allows for faster and more precise section cuts.

In the soil preparation line, the Optimer XL 7500 and 9000 cultivators expand the brand's portfolio with working widths of up to 9 meters. Equipped with a hydraulic pressure control system, they maintain uniform depth even at high speeds. The design also prioritizes residue management, with a large ground

clearance to prevent clogging in areas with a high straw load.

Solutions for perennials and single-pass preparation

Designed for perennial crops, the Arbo Coupled (400 and 600 liters) comes with a new air distribution system using helical deflectors, which improves application coverage throughout the entire plant, from the base to the top of the canopy.

The Performer 5000 combines four operations in a single pass — cutting, mixing, leveling, and reconsolidation — reducing operating costs. The equipment allows for different usage configurations, with operation using only discs, rods, or a

combination of both, reaching depths of up to 35 cm.

Parts and durability

In addition to equipment, the company is also reinforcing its replacement strategy with the launch of ceramic spray nozzles, developed for greater wear resistance and maintenance of droplet patterns throughout their service life, a relevant factor for application uniformity.

With this series of product launches, Kuhn do Brasil reinforces its commitment to operational efficiency and precision agriculture as drivers of competitiveness in the field, in a context of pressure to reduce costs and increase sustainability in production.

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1000 Series Vario Gen4 tractors arrive in Brazil

The fourth generation of the Fendt 1000 Vario series brings even more innovations, while maintaining the classic VarioDrive transmission and the six-cylinder engine with power outputs ranging from 440 hp to 550 hp

27.04.2026 | 14:51 (UTC -3)

Fendt is launching the fourth generation of the 1000 Vario (Gen4) in the Brazilian

market, a series of large tractors positioned in the 440 hp to 550 hp range, with three versions — 1044, 1048 and 1052 Vario. The project maintains its focus on continuous traction, high hydraulic capacity and stable operation during long workdays, combining a large displacement engine, VarioDrive transmission with active traction management and a cab/lighting and assistance package that seeks to reduce driving variability and facilitate work in low visibility and high severity environments.

Motor

In terms of powertrain, the 1000 Vario Gen4 uses the MAN D26 engine, a 6-cylinder, 12,4-liter unit. Its operating

philosophy follows the Fendt iD concept, which prioritizes lower engine speeds (650 rpm to 1.700 rpm) as the preferred operating zone. For tasks requiring high traction at low speeds, the system operates with a maximum torque of 2.650 Nm from 1.150 rpm, a parameter that influences the tractor's ability to maintain drawbar pull under varying loads without needing to continuously operate at high engine speeds.

Two power management features help explain the Gen4's positioning. Fendt Dynamic Performance (DP) adds up to 30 hp as needed by auxiliary consumers—such as ventilation, compressed air, and air conditioning—expanding the available power of the system when there is

additional consumption outside the drive axle. Fendt Adaptive Power, on the other hand, works with adjustable power levels to adapt the tractor to less demanding implements, reducing consumption and limiting unnecessary stress on implements and tractor components in operations that do not require maximum power.

Cooling and filtration

In the thermal package, the Concentric Air System (CAS) remains the basis of the cooling system, with a concentric pressure fan and independent hydrostatic drive, designed for external temperatures up to 45°C. The compact design of the assembly is presented as a factor that improves maneuverability by allowing a greater

steering angle. As an option, there is a reversible fan for automatic cleaning of the radiator grille, with manual or automatic control via a terminal.

In environments with high dust levels, the project includes continuous passive self-cleaning of the engine and cabin air filters, complemented by short bursts of air directed at the engine filter, aiming to reduce downtime and maintain air quality for the engine and operator.

Intelligent transmission and drive

The series retains the classic VarioDrive transmission, with a system that offers continuous variation from 0,02 km/h to 50 km/h, without gear changes, with variable

and independent all-wheel drive up to 25 km/h. One of the practical effects described is the "pull-in turn," which reduces the turning radius by up to 10% compared to conventional all-wheel drive, with a direct impact on narrow headlands and maneuvers with long implements.

The torque distribution between axles (Fendt Torque Distribution) acts to direct torque to the axle with the best grip, minimizing slippage and maintaining traction in heterogeneous soil conditions. The system integrates with the TMS (tractor management system), which automatically adjusts the engine speed according to load and speed requirements to operate at the lowest possible speed within the task, seeking fuel economy

without loss of operational performance.

Hydraulic system and remote control

In terms of hydraulics, the 1000 Vario Gen4 works with two load-sensing (LS) pump configurations: one 220 l/min pump or two LS pumps totaling up to 430 l/min (with the addition of a second 210 l/min pump). The logic is to offer different pressure and volume requirements in independent circuits, reducing throttling losses and improving efficiency when multiple functions operate in parallel, as is typically the case with the Momentum seeder and implements with turbines and multiple actuators.

At the rear, the tractor comes with at least three valves and can have up to seven double-acting valves (one front and six rear), with the option of DUDK coupling. The front valve operates at up to 120 l/min, while the rear valves reach 140 l/min; with DUDK, two valves can operate at 170 l/min on demand, increasing the capacity to feed large-volume cylinders and hydraulic motors in high-demand implements.

For direct implement feeding, the package includes Power-Beyond and an option with flat-face couplings (FFC), focusing on reducing dirt ingress and restriction losses. Hydraulic configuration and parameterization are done via a 12” terminal, and operation can be performed using linear modules on the armrest or joysticks, integrating with the FendtONE

operational concept.

Lift capacity

The lifting system is worthy of the series' size. At the front, there are two variants, with a maximum capacity of 5.688 kg at the coupling point, electronic control via position sensors, and the possibility of

setting contact or relief pressure via a terminal. At the rear, the electronically controlled lift offers a maximum capacity of 13.180 kg at the coupling point, with EHR and active damping to reduce oscillations during transport with implements.

To facilitate coupling, there are external controls on both sides of the rear fenders and an integrated scale on the arms for repeatable adjustments. A design detail is the possibility of placing the lower arms in the resting position without tools, creating an additional 15 cm of clearance between the lower arm and PTO/drawbar, reducing interference and improving maneuverability during maneuvers and couplings.

Power take-off and stationary use

In terms of power take-off, the tractor operates with a dual rear PTO (1000/1000E) and an automatic function associated with the elevator, allowing for the linking of on/off to predefined positions. In stationary operation, a previously stored engine speed can be automatically reached when the PTO is externally engaged, reducing operational steps in activities such as pumping and filling reservoirs.

Running and ballasting

In terms of tires and ballast, the series allows for a rear axle diameter of up to 2,35 m and employs ballast strategies to convert power into traction, with a maximum permitted total weight of 24,5 t in the field. There is also the option of factory-fitted Row Crop 480 dual tires, maintaining an external width below 3,5 m, with specific components (short rear axle, double wheel hub, spacer, and weights) for quick conversion between applications and adaptation to row crops.

In terms of safety and dynamic performance, the 1000 Vario Gen4 features a four-wheel braking system with two redundant pneumatic circuits. The system uses oil-immersed brakes with compressed air control and pressure lubrication, with multi-disc brakes designed

for heavy loads.

For directional stability at speed, Fendt Stability Control (FSC) engages from 20 km/h, reducing lateral tilt and suppressing oscillations in curves, with the aim of maintaining safe driving up to 50 km/h.

Cabin and 360° lighting

In the operator's area, the cabin design incorporates features geared towards long journeys: a 12-liter cooler with temperature control, automatic air conditioning, and a premium seat with pneumatic suspension, heating/ventilation, electric adjustments, memory, and massage function.

The 360° LED concept includes the UltraVision option, with headlights of 4.400 lumens per unit and individual dimming in five levels, in addition to saved lighting profiles for different operating scenarios.

A second technical aspect is the lighting: the 360° LED concept includes the UltraVision option, with headlights of 4.400 lumens per unit and individual dimming in five levels, in addition to saved lighting profiles for different operating scenarios. The system is complemented by light

points distributed on the roof, pillars and fenders, and directed lighting for the rear coupling area (GroundVision), reducing shadow zones during nighttime maneuvers.

The cabin features a 12-liter cooler with temperature control, automatic air conditioning, and a premium seat with pneumatic suspension, heating/ventilation, electric adjustments, memory, and massage function.

Connectivity and coordinated operation

Finally, connectivity now includes Workgroup, a real-time, wireless data exchange function to coordinate multiple tractors in the same field, sharing lines,

boundaries, and coverage maps.

Among the series' highlights are hydraulic capacity, repeatable driving through automation (TMS and function programming), traction and tire pressure management per task, and data integration for planning and execution in the field. All this, combined with a low-revving engine, CVT transmission with variable traction, scalable hydraulics up to 430 l/min, high-capacity lifts, and a cab/lighting package, certainly elevates the work experience to a higher level.

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Massey Ferguson highlights connectivity and power at Agrishow

Solutions include telemetry, automation, and an ethanol-powered engine

27.04.2026 | 14:24 (UTC -3)

Flavia Amarante

Faced with the growing challenges in operational costs in the field, Massey Ferguson arrives at Agrishow 2026, which takes place from April 27 to May 1 in

Ribeirão Preto (SP), with a complete portfolio of solutions that integrate machines, technology and services to increase efficiency, reduce waste and support the producer in all stages of cultivation.

"Producers are increasingly attentive to the efficiency of each operation and the impact of decisions throughout the harvest season. Our role is to deliver machines that support this process, whether through simplicity, embedded technology, or the quality of the results in the field. These new releases reflect a consistent evolution of our portfolio, guided by actively listening to producers," says Breno Cavalcanti, Marketing Director of Massey Ferguson.

Among the main highlights is the launch of the MF 9S, the largest and most powerful tractor series from the brand in Brazil, with models reaching 425 hp. Developed for large-scale operations, the tractor combines high operational capacity with embedded automation and connectivity technologies, such as autopilot and telemetry, which allow for greater control of operations, reduction of failures, and optimization of fuel consumption.

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Together with the new Momentum planter in 30 and 40 row versions, it forms a high-yield solution for planting in large areas,

ensuring greater efficiency in operational windows. The equipment incorporates exclusive intelligent weight distribution and input control technologies, which ensure greater uniformity in plant emergence, real productivity gains, and reduced waste during operation. Logistics are also optimized: the planter can be transported without disassembly, reducing travel time from one day to one hour, contributing to better use of planting windows.

Connectivity and integrated management take center stage with FarmENGAGE, a digital platform that allows producers to manage their entire fleet in real time, including machines from different brands, all within a single environment. The solution brings together agronomic and operational data, offering a complete view

of the operation, from planning to post-harvest analysis, focusing on reducing fuel and input costs and increasing productive efficiency.

“Our goal is to simplify the producer's operation and transform data into more efficient decisions in the field. We are bringing to Agrishow a complete ecosystem that connects machines, technology, and services to generate real results in productivity and profitability,” highlights Cavalcanti.

Another new feature from the brand at this year's fair is the presentation of the ethanol engine, developed in Brazil. One of the main benefits for the producer is the reduction in operating costs. Ethanol can also reduce CO? emissions by up to 90%,

depending on its production process.

Democratization of technology in the field.

Massey Ferguson is also reinforcing its strategy of expanding access to precision agriculture with the MF 5M and MF 6M series tractors, which can leave the factory with technologies such as autopilot and connectivity, previously restricted to larger machines. The aim is to bring greater operational efficiency to small and medium-sized producers, contributing to cost reduction and greater predictability in operations.

Similarly, the MF 3700 stands out as a versatile solution for producers working in

crops such as grains, livestock, citrus, fruits and vegetables, rice, and general services, offering robustness, ease of operation, and an excellent cost-benefit ratio, meeting the diverse realities of the Brazilian countryside. The series features 2WD or 4WD drive options and platform or cab versions, as well as models with hydraulic systems including descent control and hydraulic locking, and a lifting capacity of up to 3.500 kg.

Harvesting and management with a focus on sustainability.

For the final stage of the agricultural cycle, the brand presents the new MF 9005S

series of axial combine harvesters. Focused on soil sustainability, the machine features a new hydraulic spreader and chopper with variable speed accelerator, which deliver more fragmented and uniformly distributed straw, even on 45-foot platforms, creating the ideal cover for no-till planting of the following crop.

Spraying solutions

In spraying, the highlight is the MF 500R sprayer. This model combines advanced automation and control technologies, ensuring application at the correct dose and at the ideal time, reducing overlaps and waste of inputs. With features such as automatic section control, autopilot

integration, and connectivity for real-time monitoring, the equipment contributes to more sustainable operations, with less environmental impact and greater profitability for the producer, in addition to offering high operational efficiency even in short application windows.

Animal nutrition

Complementing its management practices, Massey Ferguson offers haymaking solutions that guarantee bales of high-nutritional-value feed, reducing fieldwork time and increasing livestock profitability.

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Valtra's new M5 Series succeeds the BH HiTech family

The new Valtra M5 Series, which includes the M165, M185, and M205 models, maintains the concept of a heavy-duty multi-purpose tractor, focusing on power, traction, transmission, and hydraulic system designed to support large implements during long periods of work

27.04.2026 | 14:17 (UTC -3)

Valtra updates its offering in the heavy tractor segment with the M5 Series, composed of the M165, M185, and M205 models, aimed at grain and rice operations and, depending on the configuration, also at sugarcane and transshipment routines. The line succeeds the technical proposal of the BH HiTech family and maintains the logic of a "heavy multi-purpose" tractor, retaining characteristics such as power for traction and transport, architecture to support heavier implements, and a transmission and hydraulic package designed for long work cycles.

Engine and power

The M165 and M185 use a 4-cylinder, 4,9-liter AGCO Power engine, while the M205 uses a 6-cylinder, 6,6-liter AGCO Power engine, both with turbocharger and intercooler and common rail electronic injection system. The declared maximum power is 165 hp (M165), 185 hp (M185), and 205 hp (M205) at 2.200 rpm. The maximum torque is 650 Nm (M165), 700 Nm (M185), and 720 Nm (M205) at 1.500 rpm, a typical operating range where the tractor starts working "at full capacity" in preparation, sowing, hauling, and transport with a load. For the sizing of the assembly, the torque data at low rpm is crucial in the choice of implements and the driving method in variable soil conditions.

Transmission and reversal

The M5 Series adopts a synchronized PowerShift HiTech3 Plus transmission with 18 forward and 18 reverse gears. The logic of the system is to allow gear changes while the tractor is in motion, with automatic shifting within the PowerShift group, reducing interruptions in power flow during load variations. The reverse is of the Power Shuttle type, with electro-hydraulic actuation, important in repetitive maneuvers and loading and transshipment operations.

The M5 Series features a synchronized PowerShift HiTech3 Plus transmission, with 18 forward and 18 reverse gears.

The package includes programming modes that automate gear changes based on engine load (Auto 1) or RPM (Auto 2), as well as a mode that automatically disconnects the transmission (puts it in neutral) when you press the brake pedal, and as soon as you release the brake pedal, the transmission is smoothly

reactivated and the tractor resumes movement, without the need to operate the clutch pedal or the reverser lever (Auto N). In practice, these features directly influence productivity in operations where constant speed and stability of the system are more important than power "peaks".

TDP and interface with implements

The power take-off (PTO) is independent, with electro-hydraulic actuation, and offers 540 rpm and 1.000 rpm. The engine speed range for achieving PTO speeds is a point considered by field teams when matching implements with high power requirements at the tiller and the need to operate at

economical speeds. The ability to maintain a stable PTO speed, combined with a transmission that allows for load shifting, tends to reduce performance variations in mechanically driven equipment, such as spreaders, brush cutters, and tillage implements that demand consistent engine speeds.

Hydraulic system

In the hydraulic system, the M5 Series works with three architectures, depending on the configuration: gear pump (C1) or variable displacement pump (C2). The maximum system pressure is 210 bar. In the C1 configuration, the indicated flow rate is 91 l/min; in C2, the flow rate can reach 150 l/min or 205 l/min, a range that

meets the needs of implements with high flow demands — such as pneumatic planters and equipment with multiple actuators and more intensive hydraulic control.

The line can accommodate two or three remote control valves (RCVs), and, in the version with a variable flow pump, the number of valves can be three or four. The maximum flow rate per RCV is indicated at 110 l/min, a relevant parameter to avoid "bottlenecks" in implements that require a quick response from hydraulic cylinders and motors; in the Power Beyond valve, the flow rate reaches up to 204 l/min.

The M5 Series features a robust and modern aesthetic, highlighted by the new hood with a 5th generation design.

The rear lift is classified as category CAT 2, with a lifting capacity of 8.500 kgf at the eyelet and 6.000 kgf at the eyelet axle. For resellers, this set of numbers is what effectively determines safe compatibility with heavier implements, the tractor's behavior when transporting the implement

over headlands, and the need for ballast and mass distribution.

Structure, dimensions and capacities

The tractors have a wheelbase of 2.716 mm and a total length of 5.962 mm, with a ground clearance of 474 mm. The indicated total height is 3.521 mm. The maximum permissible weight is 11.275 kg for the M205 model, a value that must be considered in conjunction with the selection of tires, ballast, and traction requirements on lighter soils. The fuel tank capacity is 365 liters, with a maximum hydraulic tank capacity of 170 liters, a combination that favors autonomy on long journeys, provided that the operation is

correctly sized in terms of fuel consumption and work regime.

In terms of track width, there is a wide range of adjustments: front with a standard axle from 2.226 mm to 1.600 mm; front with a 3 m axle (configuration geared towards sugarcane use) from 3.025 mm to 2.400 mm; and standard rear from 3.041 mm to 1.974 mm. These ranges are important for lateral stability, suitability for crop rows, and compatibility with transshipment equipment and trafficability in sugarcane and irrigated rice areas, where track width control and the behavior of the vehicle in furrows and tracks have a direct impact on losses, slippage, and efficiency.

The braking system has been completely redesigned compared to its predecessor; it is a multi-disc oil-immersed system with a new hydraulic actuation that has increased braking efficiency by 28%, and a manual lever parking brake. The steering system is hydrostatic, with a dedicated pump. In transshipment and transport operations, especially with articulated trailers and implements, the braking and steering system is one of the key elements that define operational safety and speed consistency in repetitive cycles.

Cabin and operator's station

The operator's station is based on a HiComfort Plus cab. The interior upgrade includes new upholstery and seats, focusing on ergonomic controls and

repeatability of operation throughout the day. A functional element incorporated into the cab environment is the integrated cooler box, a simple but relevant item for those who operate for long hours during critical planting and harvesting windows, especially in high-temperature regions.

The operator's station is based on a HiComfort Plus cabin.

Sugarcane configuration and application in transshipment.

The M5 Series retains the possibility of configuration geared towards the sugarcane and energy sector, with a specific kit that includes a 3-meter front axle, pneumatic brake, and ball-pin drawbar. In practice, these items meet typical transshipment requirements: stability of the assembly on access roads, quick coupling and uncoupling, and safety when moving with a load. For dealerships serving sugarcane regions, this version changes the product delivery profile and

brings the tractor closer to routines of high operational severity.

Embedded technologies, guidance and connectivity

The M5 Series incorporates precision agriculture and management features. The package includes autopilot and Valtra Guide guidance, in configurations that can operate with decimetric or centimetric precision, as well as telemetry via Valtra Connect. For tech-savvy operators, these systems cease to be "add-ons" and become integrated into their way of working: standardization of passes, reduction of overlaps, traceability, and

data-driven maintenance support. For the dealership, the discussion is no longer just about power, but involves implement compatibility, operator training, and integration of the tractor into the farm's operational planning.

In summary, the new M5 series can be summarized by four objective criteria: power and torque available for traction and hauling; PowerShift transmission with 18x18 and electro-hydraulic reverse for cycles with high maneuverability requirements; scalable hydraulics up to 205 l/min for high-flow implements; and structural and track options that allow the tractor to be adapted for grains, rice and, when configured, sugarcane and transshipment. Working together, this package — engine, transmission,

hydraulics, structure, cab and technology — will define real-world performance in the field.

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BASF makes changes to Credenz's marketing strategy

Marília Romão arrives to lead the brand's strategy

27.04.2026 | 11:07 (UTC -3)

Cultivar Magazine

Agricultural engineer Marília Romão (pictured) has taken on a new role at BASF. After more than seven years in leadership positions at Syngenta, the

executive will now serve as marketing manager for the Credenz seed brand.

In her most recent role, Marília was responsible for the field technical materials area at Syngenta. Throughout her career, she also worked for companies such as Nidera and Bayer CropScience.

Holding a degree in Agronomic Engineering from the Luiz de Queiroz Higher School of Agriculture, she also has an MBA in Commercial Management from the Getulio Vargas Foundation.

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Jambu nanoemulsion reduces Tuta absoluta in tomato plants

A fraction rich in N-alkylamides from Acmella oleracea inhibited hatching, affected larvae, and reduced oviposition in laboratory tests

27.04.2026 | 09:04 (UTC -3)

Schubert Peter, Cultivar Magazine

Photo: Marja van der Straten, NVWA

A nanoemulsion with a fraction rich in N-alkylamides extracted from *Acmella oleracea*, plant known as jambu, showed ovicidal, larvicidal, and oviposition-deterrent action against Tuta absoluta. Scientists evaluated the product on eggs, second-instar larvae, and adults under laboratory conditions, and indicated potential for use in integrated pest management programs.

The tested formulation received an N-alkylamide-enriched fraction, called AEF. The researchers obtained this fraction by supercritical CO2 extraction and short-path thin-film molecular distillation. They then encapsulated the material in nanoemulsions. The fraction contained 46,22 g of N-alkylamides per 100 g of extract. Spilanthol accounted for the

largest share of the content, with 42,40 g per 100 g.

Before the bioassays with the insect, the researchers evaluated phytotoxicity in tomato plants. Nanoemulsions with 0,25% and 0,5% active ingredient were compared with a nanoemulsion without AEF and with distilled water. The 0,5% concentration caused the highest phytotoxicity index, with a value of 0,658 after 14 days. The 0,25% concentration caused mild phytotoxicity, with an index of 0,102. Distilled water did not cause damage.

Testing on insects

Based on this result, the tests against *Tuta absoluta* used concentrations of 0,06%,

0,125%, and 0,25% of the active ingredient. In eggs, all concentrations reduced hatching. Distilled water resulted in 100% hatching. The nanoemulsion without AEF resulted in 94%. Formulations with AEF resulted in 78% hatching at a concentration of 0,06%, 76% at 0,125%, and 68% at 0,25%. The difference between the three concentrations with AEF was not significant, but all differed from the controls.

In topical toxicity tests on larvae, survival after 72 hours remained high. Most treatments showed 100% survival. The 0,25% formulation had 96,7%. Even so, this concentration reduced adult emergence to 89,7%, while the other treatments reached 100%.

The strongest effect occurred through ingestion. Second instar larvae were placed on treated leaves. After 72 hours, survival dropped to 56,7% at a concentration of 0,06%, 33,3% at 0,125%, and 26,7% at 0,25%. In the two controls, survival reached 100%. Adult emergence also decreased after exposure by ingestion. Concentrations of 0,06%, 0,125%, and 0,25% resulted in 64,7%, 50%, and 75% emergence, respectively, compared to 100% in the controls.

Choice tests

Choice tests also indicated a reduction in egg laying. Females laid more eggs on leaves treated with distilled water than on leaves treated with the nanoemulsion

without AEF or with nanoemulsions containing AEF. Concentrations of 0,125% and 0,25% showed a deterrent effect on oviposition when compared to distilled water. The study also observed no significant difference between the nanoemulsion without AEF and the formulations with AEF in these tests, a point attributed by the authors to the possible action of ethyl oleate present in the formulation.

The nanoemulsions exhibited nanometric droplets after preparation, with Z-averages between 110 and 140 nm and polydispersity indexes between 0,140 and 0,210. During 240 days of storage at 4 °C, the formulations with AEF showed a moderate increase in average droplet size, reaching values ??between 220 and 290

nm, with a PDI around 0,2. The scientists considered the systems physically stable for at least eight months.

Further information at doi.org/10.3390/insects17050455

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