

Fendt FOCUS

MAGAZINE FOR PROFESSIONALS

Work efficiency and environmental protection

- ▶ Innovations in crop protection with the Fendt Rogator

It's Fendt. It's ONE. It's FendtONE.

- ▶ When tractor terminal, smartphone and office computer become one

A compact powerhouse

- ▶ There's a Fendt Tigo for every size of farm

++ SPECIAL EDITION: NEW FEATURES FOR AGRITECHNICA 2019 ++



Ready for more.
The new Fendt 900 Vario.

DEAR READER,

We all know that times change. Nothing stays as it is for long. Change is a good thing if it prepares us for the future. That's why we came up with a new slogan in July 2019. Evolving from our core Fendt values, it runs with the idea that "Leaders drive Fendt".

For 90 years, our passion for farming has been at the core of what we do.

Our customers see us as a reliable partner, prepared to take on any challenge for them. We develop exceptional equipment, products and services for farmers and contractors, so that they can harness their own passion to produce excellent quality with maximum efficiency.

We are very conscious of our roots, and apply what we have learnt over the years to prepare for the future.

Together, we grow beyond our boundaries and open up new fields, never leaving our customers' side.

We always dare to try new things, not only to meet the increasing demands asked of modern farmers, but to exceed their expectations.

If, together, we have given it our all so our customers can give it their all, then you know it's Fendt. Or simply:

It's Fendt.

Because we understand Agriculture.



It's Fendt.
Because we understand Agriculture.

fendt.com



At the end of the 1950s, we said, "Leaders drive Fendt." Now, 60 years later, we're updating our slogan – because we've long since had services and Fendt machines that drive themselves.



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AGRI TECHNICA®

THE WORLD'S NO. 1



Visit us at the Fendt booth in Hall 20.
We hope to see you there!





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LEGAL NOTICE

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The new Fendt 900 Vario

READY FOR MORE

With the new Fendt 900 Vario comes an all-new innovation that sets completely new standards in the top performance class. Numerous technical highlights, an extensive connectivity package, the relatively low weight and the powerful new design enable worldwide and versatile use. It is a stunning continuation of the success story of the Fendt 900 large tractors that all began at Agritechnica 1995, with the 260-hp Fendt Favorit 926 Vario.







FENDT 900 VARIO

	kW	hp
Fendt 930 Vario	217	296
Fendt 933 Vario	239	326
Fendt 936 Vario	261	355
Fendt 939 Vario	283	385
Fendt 942 Vario	305	415

Rated power in accordance with ECE R120

▼ **Fendt Connect:** At our Monitoring Center in Marktobendorf, we gather and analyse machine data from our own Fendt fleet. From this, the Customer Service team can learn how to detect faults early on, so they can then resolve them and prevent any machine failures.



As a popular all-round high-power tractor, the new 900-series generation is extremely versatile in its use. Made for heavy tractive or PTO work like wood chipping, the 900-series is also suitable for transport at up to 60 km/h. The low unladen weight of just 11.8 tonnes and the integrated VarioGrip tyre pressure regulation system makes this series ideal for work with low ground pressure and high tractive power. Thanks to its modular equipment with or without rear power lift, rear and front PTO, reversing driver station and a range of hydraulic, attachment and power lift models, it is compatible with all common attachments.

Powerful tandems, low on fuel consumption

All models in the new 900-series come with an all-new 6-cylinder MAN engine, specially designed for Fendt with a 9-litre cubic capacity and VTG turbo charger. The Fendt VarioDrive powertrain builds up together with the perfectly aligned Vario transmission.

The Fendt iD low speed concept, geared towards high power reserves, is used in the 900-series for the first time. The nominal engine speed is 1,700 rpm.

The torque is distributed dynamically over the front and rear axle, depending on the ground conditions. The front axle is driven separately. The decoupling of the rear and front axle avoids tension on the road and on bends and allows full traction in the field.

Full connectivity inside and outside the cab

Introducing the latest connectivity to display machine data from the Fendt 900 Vario in realtime. With the basic telemetry package, it has all the hardware you need to capture and send on the data for a variety of new services.

Fendt Connect

Fendt Connect is the central telemetry system for analysing and managing machine use. It reads, stores and evaluates



▲ The new high-end model Fendt 942 Vario sees the 900-series venture beyond 400-hp for the first time (here as a row-crop version in North America).

machine data, sending data via the mobile network. This information helps you to manage your fleet wherever you are and optimise your machine settings.

Fendt Connect offers two benefits for the customer – it gives them control of their machine data, and access to their dealer's services.

As well as details about the machine's position, it also collects extensive CAN bus data from the tractor. On the PC, smartphone or tablet, the vehicle owner can retrieve a wide range of information, including a map view showing the position and driving route of the tractor, fuel consumption, speed and working time of the machine, as well as machine use. You can also show error messages and service intervals.

With the consent of the vehicle owner, the dealer can also access the machine data. A quick overview of upcoming service intervals and exporting error codes make predictive maintenance possible on that machine in the first place. The customer always retains ownership of their machine data. Agronomic data is neither saved or transferred.

**FENDT ID
LOW-SPEED CONCEPT**

Rated speed	1,700 rpm
Neutral	650 rpm
60 km/h (top speed)	1,450 rpm
50 km/h	1,200 rpm
40 km/h	950 rpm



OTHER KEY FEATURES

- 'Pull-in turn' effect – smaller turning circle at full tractive power
- Engine oil M3677 change interval increased to 1,000 hours
- New large tyres with a max. diameter of 2.20 m (750/70R44)
- For worldwide challenges: 60" track version (row-crop)
- VarioGrip tyre pressure system and Fendt Grip Assistant also available as optional extras – even for twin-tyres on a 60" track
- Hydropneumatic single-wheel suspension
- New exhaust gas standard, Stage 5 (EU)
- New modular hydraulics: 2 load-sensing pumps with 165 or 220 litres of flow capacity. Optional: High-performance hydraulics of 430 l/min with two separate hydraulics circuits
- Retractable, multi-purpose tool compartment
- New class of cab – Fendt Life Cab
- Electric telescopic mirrors – heating optional
- New optional safety lock system: Encrypted key for the cab door (unique for that vehicle), ignition lock, bonnet and fuel tank.
- New radio for channels from all around the world: every frequency (FM / AM / DAB+ / HD Radio) and external audio sources (Bluetooth / USB / AUX-IN)



Smart Connect

Smart Connect is a service for the driver in the tractor. The driver connects an iPad to the Fendt 900 Vario via the machine's internal WiFi.

Machine parameters, such as the tractor position, the worked area, speed, fuel consumption and engine load, are sent straight to the tablet during use. This display can be plotted on a map or as a graphical sequence for the last 60 minutes. The tablet's screen serves as an additional display area for the successful Varioterminal. Smart Connect assists the driver to show information that is purely for control purposes. Smart Connect comes as standard on all ProfiPlus models.

READY FOR MORE? Even more extras for customers

Infotainment system

For the first time, we have an infotainment system offered as an option, operated on the tractor terminal. For the new high-end hands-free speaking system, 8 inter-communicating microphones were integrated into the sunroof, suppressing interference and making speech clearer. This provides excellent call quality even during field use.



▲ With TIM-ready attachments (Tractor Implement Management), like the Fendt Tigo XR, you can control certain tractor functions like the driving speed. This increases the productivity of the teamed machines.

Fendt^{TI} Headland: smart headland management

With just one push of a button, Variotronic^{TI} can automatically activate the headland sequence. Use a combination of Variotronic^{TI} automatic and the VarioGuide tracking system to activate individual sequences. For example, the lowering of the rear hydraulics can be activated automatically if a VarioGuide position at the headland line is reached. There is also a new automatic turning sequence, Variotronic^{TI} Turn Assistant, in which the machine follows the nature of the headland (geometry and size).

The new Fendt 900 Vario series came out in July 2019 for delivery from the second half of 2019. At the customer's request, Fendt Care can extend the warranty to up to 8 years or 8,000 operating hours. **F**



▲ Infotainment bundle: 4 speakers or as a premium version with a 4.1 sound system and subwoofer integrated into the soundbar. 2 antennas are built in at a 90° angle into the side window, ensuring outstanding, reliable reception.

To find out more about the Fendt 900 Vario, go to 900.fendt.com

Cab and suspension

traction "In the test operation, we were thrilled with the optional, triple-mounted pneumatic cab suspension – especially for fast journeys on dirt roads."

topagrar "The driving comfort on our test drives was astounding. Fendt offers three different cab suspension options, right up to a 4-point fully equipped option with two bellows."

profi "Developed together with an acoustics institute, 8 microphones (not speakers) are built-in to the cab roof alone, all communicating with one another to make sure the hands-free system works perfectly. Then we have things like the radio antennas integrated into the roof and side windows with different orientations so the radio never cuts out."

Engine

Lohnunternehmen

"The engine braking performance is said to have increased by 50% compared to the previous series."

"The oil change interval was increased to every 1,000 hours."

topagrar "The engine/gear management system TMS reacts to different load conditions and keeps the speed as low as possible – and the 900 chugs happily on. The MAN is super powerful when it needs to be, and it quickly pulls out of the deepest trenches."

profi "The MAN 6-cylinder with low-speed concept always provides full power in the range of 1,500 to 1,700 rpm. The low-speed concept is fascinating to experience on the road. The new 900 series can actually reach 40 km/h at just 950 rpm (at 50 km/h at 1,200 rpm, 60 km/h at exactly 1,450 rpm)."

Suspension and tyres

@agrarheute "The pressure control system is integrated into the Vario terminal and allows you to adjust two pressures for each axle even while you're on the go. It means the driver can easily adjust the tyre pressure between road and field use. A valuable contribution to soil protection."

profi "The 'VarioGrip' tyre pressure control system has been further developed by Fendt. The fully integrated 2-wire system with radial turning guides is available for flange and stub axles – and can even supply twin wheels with the water-cooled 720 cm³ compressor."

traction "Especially in tricky situations at the headland, the driver benefits from the fact that the accelerated front wheels pull the tractor into the turn."

@agrarheute "The 4WD provides more driving stability under tough conditions on the field."

Telemetry

Lohnunternehmen

"The customer can use the telemetry data for field management."

traction "At last, Fendt brings its automated headland cornering to its GPS steering system!"

profi "Fendt attaches great importance to the customer retaining ownership of their data, and leaving it up to them to send out their telemetry data or not."

Verdict

Lohnunternehmen

"Fendt developers show us, yet again, that they know how to build comfortable tractors. The 942 handles like the proverbial dream and cuts a great figure even on rough terrain."

traction "The new Fendt 900 Vario is without doubt a multi-skilled machine. It's the first tractor in its performance class with a low-speed concept, adopting other interesting solutions from the larger 1000 Vario. Together with the optional electronic package, Fendt raises the bar a little higher."

topagrar "The bottom line is that our outing with the new 900 series was a lot of fun. Fendt has done a thorough job and updated the core components of the engine and powertrain."

profi "All in all, Fendt has given us a real all-rounder tractor for farmers and contractors, field and road use, in the 300 to 400 hp class." **F**



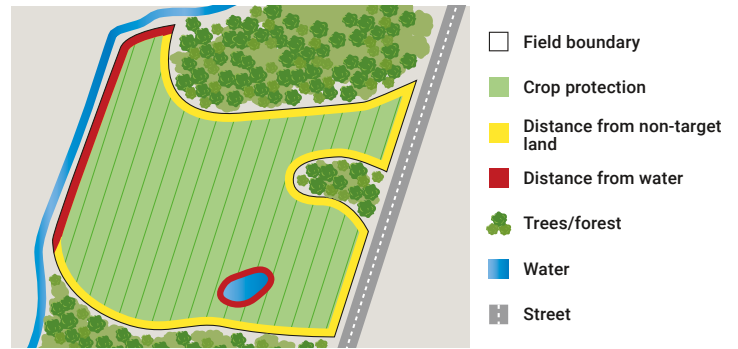
FOCUSING ON EFFICIENCY AND THE ENVIRONMENT

The use of plant protection products is the subject of hot public debate. But plant protection measures are vital if we want to maintain and increase current yield rates and quality standards. Targeted dosing and minimisation of pesticides as well as the reduction of drift is one approach Fendt is exploring in its development of new, smart plant protection technology.



ET MARKERS

ET markers are provisions governing the use of pesticides for the protection of 'non-target organisms'. **E** stands for **ecosystem** and **T** for **terrestrial**, i.e. land-living organisms. The aim of these provisions is to avoid the negative impact of drifting on protected, non-cultivated land, by using distance markers, for example. The requirements are determined by the Federal Office for Consumer Protection and Food Safety (BVL).



Due to public debate and increasingly stringent requirements, farmers are facing ever-increasing challenges in their use of plant protection products. These include ET markers, which, among other things, require distances to be kept from bodies of water or neighbouring properties. Different distances to be observed also require different sizes of drift reduction. However, compliance with these markers for drift minimisation during application is only possible with the right combination of pressure, application rate and travel speed.

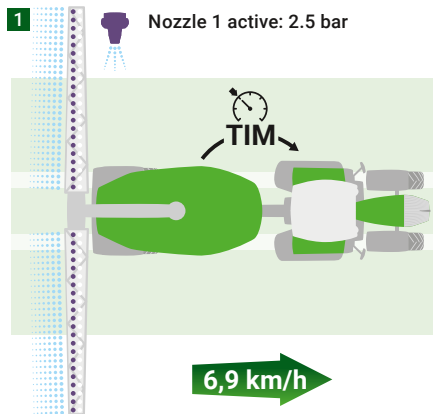
Fendt OptiNozzle

The automatic nozzle control system, Fendt OptiNozzle, supports farmers in their work by ensuring compliance with the chosen drift range, even under changing application conditions. It's also makes the driver's life much easier. The driver defines the output, the degree of drift reduction, e.g. 50%, 75% or 90%, and a suitable pressure for the best drop range. Fendt OptiNozzle then automatically switches to the most suitable nozzle or nozzle combination to meet the expected drift reduction during application, even at changing speeds or output levels. Automatically switching and combining nozzles also significantly expands the speed range in which the application can be carried out with the right drift reduction.

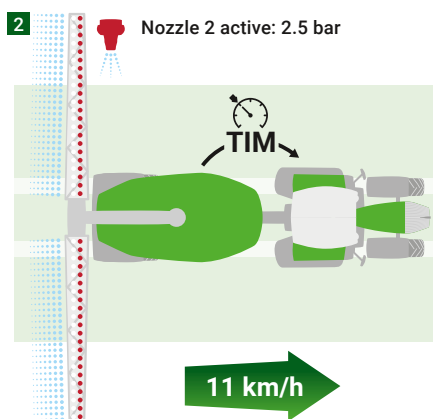
When the field sprayer controls the tractor

The towed Fendt Rogator 300 field sprayer can communicate with and automatically control a TIM-enabled tractor using the Tractor Implement Management (TIM) function. In combination with Fendt OptiNozzle, the sprayer and tractor work together particularly efficiently.

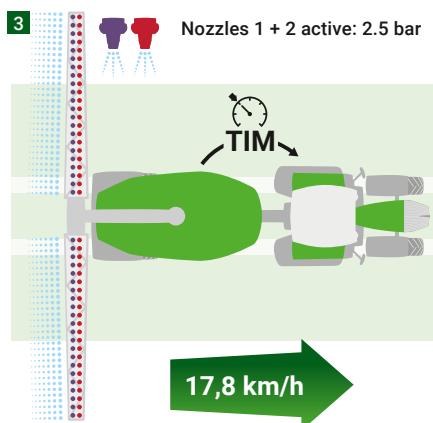
Constant drift reduction with increasing speed using the example of two nozzles



At a speed of 6.9 km/h, OptiNozzle switches to Nozzle 1 with a drift reduction of 75%.



If TIM increases the speed to 11 km/h, OptiNozzle switches to Nozzle 2 with a drift reduction of 75%.



At a speed of 17.8 km/h, OptiNozzle switches to a combination of Nozzle 1 and Nozzle 2, keeping the drift reduction at 75%.



TIM-READY – A PERFECT TEAM

Implement steers the tractor With the **TIM function** (Tractor Implement Management), the attachment takes over control, like the tractor speed. The attachment calculates its optimum working speed, depending on parameters such as swath volume when using loader wagons or the target value for drift reduction using the plant protection sprayer, and adjusts the speed accordingly. The TIM function delivers the best results and is of significant help to the driver.



The plant protection sprayer calculates the optimal speed and accordingly adjusts the nozzle parameters, the preferred drift reduction and output. Depending on the nozzle or nozzle combination used (up to 4 nozzles per unit), the field sprayer regulates the speed of the machines to the calculated target speed. This ensures that the product is always applied with the right drift reduction. Active TIM control lets the driver adjust the speed – as selected from the specified speed levels. The teamed machines automatically keep to the selected speed. At the same time, the sprayer adapts the nozzle or nozzle combination to the new speed.

Single-wheel suspension and Fendt Stability Control – stability in any situation

From track widths of 1.80 metres, the new hydropneumatic single wheel suspension is available for the Fendt Rogator 300 towed field sprayer. The two hydraulic cylinders cushion the vehicle to increase stability during cornering, in difficult road conditions and on slopes. The suspension significantly reduces the load on the tractor and boom and allows for even higher application accuracy, even at high speeds. When driving parallel to the gradient, the single-wheel suspension design also allows a slope compensation of up to 7°, or 12%. Single-wheel suspension also comes into play in filling processes with plant protection products, as it allows the Rogator 300 to be automatically levelled for even more accurate filling.

With the Fendt Stability Control automatic levelling system, the towed field sprayer ensures safe use on the hillside and stable road positioning. No matter what the load, the levelling system always provides full suspension to counteract rocking movements.

Even bigger working width for the Fendt Rogator 300

The Fendt Rogator 300 towed sprayer is now offered with booms up to a working width of 36 metres, matching the self-driving series. For transport requirements, the boom folds three times at its max. working width of 36 metres.

A new quick and accurate-response boom height-adjustment system improves the boom positioning and ground adjustment, even at higher speeds. Together with the standard single nozzle circuit, it delivers maximum application precision and performance. This boom height adjustment is also available on the Fendt Rogator 600 series.

Fendt Rogator 600-series – the latest top-end model

The Fendt Rogator 600 series hits new heights with the even more powerful top-end Fendt Rogator 665 model with a maximum power of 307 hp. From 2020, all machines will be equipped with a 6-cylinder in-line engine with a cubic capacity of 7.4 litres. The self-propelled series meets the European emissions standard Stage 5 thanks to the use of a passive diesel particulate filter. The tyre options will be expanded to cover two new models. **F**



FENDT ROGATOR 300

- Working width of up to 36 m
- Tank volumes 4,400 l – 6,600 l
- Fendt OptiNozzle
- Single-wheel suspension

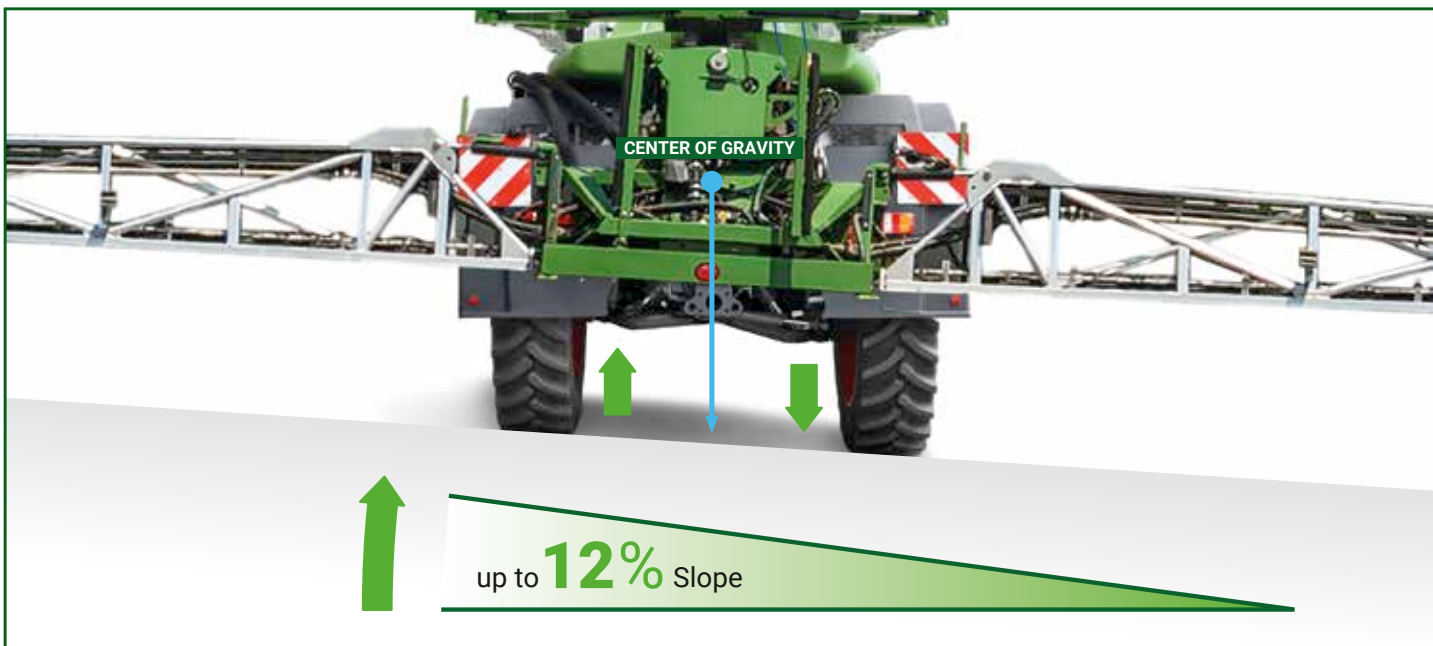


FENDT ROGATOR 665

- Output of 307 hp
- Emissions Stage 5 (EU)
- Working width of up to 36 m
- Tank volumes 6,000 l
- Fendt OptiNozzle
- Single-wheel suspension



▼ The single-wheel suspension for towed sprayers can compensate for an up to 12% slope inclination by individually controlling the hydraulic cylinders on both wheels. This increases stability for slope work.



FOGGY LINCOLNSHIRE



Everyone has heard about the notorious English fog that likes to settle over the country. But today the skies are clear. It is high time for farmer Chris Ireland to send his self-driving machines onto the field.





▲ The unique parallelogram suspension subtly transfers chassis movements to the 36-metre boom.

The SUV is slowly travelling towards the wheat run-out in Sleaford, Lincolnshire. Josh Ireland of AgSense walks to the loading area and opens a large black plastic case. A drone appears. A status symbol for the innovative start-up company. This is because the first nitrogen application for the winter wheat is due in spring. How did the crop survive the winter? Just a few steps into the crop, he rips out a stalk and assesses the plant with a trained eye. Then it's back to the car. He

spreads out the landing mat for the drone. A control panel strapped around his neck, he starts up the four rotors, getting faster and faster. The drone rises up and tracks up and down the field. The high-tech camera captures the different supply levels of the grain from above. Impressive images are delivered by the camera and processed as needed.

The client receives the data before the drone has even touched down. Chris Ireland sits at his PC and watches the

AIM OF FERTILISATION: TO HAVE UNIFORM CROPS UNTIL HARVEST

information come in. With the help of the management software Gatekeeper, he creates an application map to plot the application of the nitrogen fertiliser AHL. In the background, algorithms calculate the optimum fertilisation requirements; less fertiliser for bumper crop areas, a little more nitrogen for cur-

rently low-yielding land. The aim is to have a uniform crop until harvest, which can then mature evenly.

Chris Ireland joined the family business in Sleaford (about 200 km north of London) six years ago. His terrain: 3,200 ha of arable land, 1,200 ha of owned land, the other fields are leased or under a management contract. He implements his arable farming concept across every acre. The five-tier crop rotation – winter wheat, rapeseed (oil), winter wheat,



▲ For farmer Chris Ireland, the health of his crop is a top priority.

summer/winter barley, beans/sugar beet – is grown using the mulch seed and strip-till process. But the 29-year-old operations manager admits he cannot do without the plough completely.

The young farmer has a passion: agricultural technology. Not just a topic for his thesis. It quickly became clear to Chris that he had to invest in technology if he wanted to develop the business further. The imposed requirements on documenting plant protection and fertilisation meas-

ures, the rising costs of fertilisers and plant protection products, as well as the lack of documentation options with existing technology were just some of the reasons that led to the purchase in 2016 of two self-propelled pesticide sprayers from the Rogator 600 series.

Why a self-driving machine?

It's simple – depending on the crop, the land is treated with the plant protection sprayer up to ten times a year. 1,000 operating hours per year –

that's the average output of the solution since it was purchased in 2016. The debate on chemical plant protection and the demand for a paradigm shift in plant protection has left its mark throughout

THE LAND IS TREATED WITH THE PLANT PROTECTION SPRAYER UP TO TEN TIMES A YEAR.

Europe. Innovative and precise plant protection technology is in demand, along with more working width and larger tank volume. The overwhelming argument for Chris to invest in self-propelling technology: He needs technology that allows him to make best use of the spraying dates and time windows for application. Because one thing is clear to the Englishman, the next unwanted fog will certainly pick up faster than most farmers would like. And there's a logistical challenge to be met, as some fields

lie as far away as 50 kilometres from the farm. The shopping list for equipment is easy: 36 metres' working width, SectionControl, 2 terminals for a better overview, boom guide (BoomControl), VarioDoc Pro, RTK track guidance system, VariableRateControl (VRC) and ISO-BUS.

With the Rogator, Chris has the perfect tool for the upcoming fertilisation work. In his office, he checks the new application maps. It all happens in a flash; The data is shared as ISO-XML data

between field database and Task Controller Basic (TC-BAS) via Fendt VarioDoc Pro. Jobs are easily imported into the Task Controller, for

**AT AROUND
16 KM/H, THE
ROGATOR PULLS
UP AND DOWN
THE TRACKS IN
THE WHEAT
RUN-OUT.**

the completed documentation to then be exported again. This is where the Brit relies

on the FUSE solution from the AGCO Group. This cloud-based precision farming tool is available worldwide on the mobile network. You can access the data anytime, anywhere. At the click of a mouse, Chris sends the file to the driver on the Rogator. In the driver's cab, the data is then loaded into the operating system. Now the work instruction is in place. Sounds complicated and looks extremely complex? Not at all, agree all four drivers. Just a quick click on the green tick in the touchscreen terminal, and the job is processed. With

its RTK track guidance system, the Rogator navigates the field with precision, avoiding overlaps and spreading the calculated amount of fertiliser. The plants receive exactly the amount of fertiliser they need for best growth.

At around 16 km/h, the Rogator pulls up and down the tracks in the wheat run-out. Divergent, even land? Error indicator! Now the boom comes into play. The distance to the crop must be maintained, automatically. Horizontal and vertical boom movements, which can be

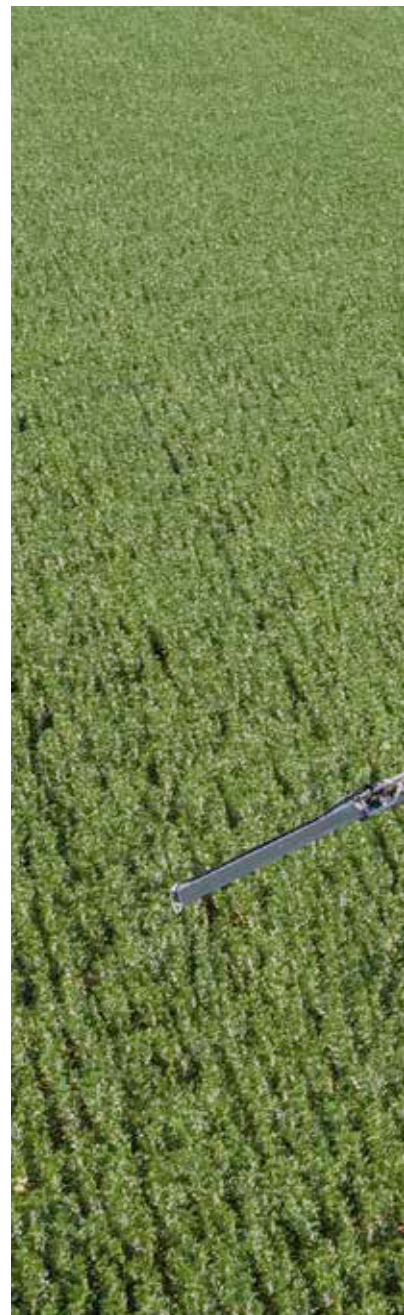


◀ With the VarioGuide Contour Assistant, the fields can be processed simply and effectively.



◀ It is extremely easy to fill the Rogator with liquid pesticides. The 60 l capacity induction hopper has an output of up to 200 l/min.

▶ Chris Ireland makes the most of the Rogator's steering angle.



attributed to the terrain or to the acceleration and deceleration of the vehicle, are almost eliminated by the even pneumatic dampers. The parallel linkage and articulation of the lift arm fitted in front of the rear axle keep the centre frame close to the rear axle, and transfer very little chassis movement to the boom. With the OptiSonic boom height control system based on ultrasound sensors, the right, middle and left sides of the boom automatically and separately follow the ground. This ensures operational

THE LIQUID FERTILISER IS APPLIED AS NEEDED, WHICH ULTIMATELY MEANS USING LESS.

safety and compliance with increasingly stringent environmental regulations. The liquid fertiliser is applied specifically as required, which ultimately means using less. But what is even more important for the farmer, is that he knows the fertiliser is getting to where it is needed and can do its job. What's more, human errors are almost excluded with the integrated software. Data on the application quantity and

time of the applied product, as well as the user (name, approval number of the certificate of expertise for plant protection products, etc.) are recorded and documented. Current climatic conditions (temperature, humidity, wind strength) can also be recorded using an ISOBUS weather station for complete documentation. Once the job is complete, the data goes back to the office wirelessly. Chris now has the data in black and

white in his field database. There might still be the odd snag, but only because he craves even more documentation. "It's an excellent system that will help make data management even easier, as development advances." This should also make his day-to-day work easier and reduce he spends on his PC documenting the work. **F**

To find out more about Chris Ireland's fertilising strategy, check out www.Fendt.TV



IT'S FENDT. IT'S ONE. IT'S FendtONE.



The 700 has been the world's bestselling tractor series for years. Now, the innovative FendtONE operating concept has been introduced into the latest Fendt 700 Vario. This makes work easier, more ergonomic and intuitive.



FendtONE

AVAILABILITY

- Fendt Task Manager: from June 2020
- Fendt Guide Sync: from November 2020
- Fendt 700 Vario Profi & Profi+
- Fendt 314 Profi+
- In UK, Germany and France
- Works with all existing VarioDoc Pro machines

Smart and digital solutions are part of everyday life, and part of farming. You check the weather report in an app, communicate on WhatsApp and navigate with Google Maps. In agricultural engineering, the farmer's work is made easier with steering systems, field databases and application maps. But until now, there has been no overarching system that connects every application. FendtONE solves this problem with a simple and intuitive control format that links the machine and office. Any farmer can use FendtONE. Used with the new Fendt 700 Vario, it becomes one unit. The FendtONE user interface looks the same in the terminal of the new 700-series as it does on the office PC or tablet. Its use is self-explanatory. Any Fendt customer can use it and new customers find it easy to pick up.

After machine optimisation comes process optimisation

When the Vario gearbox was launched in 1996, Fendt optimised how we work on the Fendt Favorite 926 Vario. After the ISOBUS standard came out, Fendt's ISOBUS interface underwent continuous further development. It was the only way the tractor/implement team could be improved in tandem. With FendtONE, entire farm processes can now be

optimised with a ubiquitous, intuitive and uniform system. With the Fendt Task Manager, orders can be created in just a few steps and sent to machines and employees. Once the job is created, you can save it for later use. This makes the farm's processes more efficient and the reporting function significantly reduces the workload needed to comply with legal documentation requirements.

Work from anywhere

The office of a modern farm manager must be mobile. Orders and master data must be available for access and processing at any time and on the go. FendtONE uses cloud storage to continuously synchronise data across registered machines. All machines work with up-to-date and coordinated data. What's more, FendtONE is an open system and is also suitable for farmers and contractors with mixed fleets.

Up-to-date field boundaries, every time

It was always tricky to synchronise field boundaries, waylines and obstacles across every machine. And even then, you could only do that with the help of a USB stick and manual transmission. Fendt Guide Sync automatically syncs all field boundaries, waylines and obstacles across all linked machines. The operations manager just organises the different data sets of the machines once on the computer. The newly added wayline is sent straight to all the other machines and the manager gets a confirmation message. You can use this data to get the most out of your land, working and toiling it evenly throughout the season, even if



▲ In the Fendt Task Manager, just select the machine, attachment, employee and field for a job, and this data is sent directly to the machine.

▶ Fendt Guide Sync instantly synchronises any changes to field boundaries, waylines and obstacles across every machine.



you use a range of machines. Synchronisation within the fleet reduces fuel consumption on all your machines, with the entire fleet working the same fields in a coordinated way.

A complete overview on up to 3 terminals

Fewer and fewer people are employed in farming to produce enough food and energy. This trend shows that farmers need to work more efficiently and are forced to get support from technology and systems.

This includes clear and ergonomic machine controls. With this in mind, the new Fendt 700 Vario comes with the new operating concept, FendtONE, bringing you three display options with one central computer. There's the new 10" digital dashboard display, a 12" terminal on the armrest and an optional 12" terminal in the roof liner. Up to 6 freely configurable screens are shown on the 12" terminals, while the dashboard terminal shows Fendt Guide features and all the road travel info you need. The dashboard display is easily controlled with a pushdial on the armrest.

The 12" terminals can also be operated by touch. The 12" roof terminal can be pushed half-way into the roof liner for a better overview when you are out on the road. Applications such as air conditioning and infotainment will continue to be displayed on the lower, visible half of the terminal. Using all 3 terminals together, you can customise the screens and get a better overview of the range of functions.

More ergonomic joysticks for the Fendt 700 Vario

The new operating philosophy makes using the machine a more individual and ergonomic experience. The multifunction joystick is equipped with new functions and you can reassign many of the buttons and switches. All functions are divided into different groups with an assigned colour. If you reassign a button or key, the old function symbol disappears and the colour changes. The driver can see at a glance if new functions were assigned to certain buttons.

The cross-shift lever has been ergonomically improved, so you need fewer motions when using different attachments. As well as the well-known crossgate lever, the new 3L joystick with up to 3 operating levels and up to 27 functions is also available as an option. With the 3L joystick, you can control the front loader models Fendt Cargo and Fendt CargoProfi, including a weighing function.

Decent sound in the cab

For the new 700 Vario, Fendt offers an optional infotainment package and a 4.1 sound system including subwoofers. The infotainment package includes a hands-free speaking system with 8 microphones installed in the roof liner. The special arrangement of the microphones provides the best sound quality from any work position. You can control and steer the system on the terminal, for ease of use. You can receive both

- ▼ In combination with the 3L joystick and Fendt front loaders, you can now carry out 3 functions at the same time with a third valve on the front loader. Lift the front loader while pulling in and closing the round baler forks.





▲ The new 700-series workstation: shown here with the new multi-function joystick and 3L joystick as well as three terminals.



▲ With the IOM (Individual Operation Manager) you can reassign most buttons to different functions.



▲ The multifunction joystick is a huge help – use the controls with minimal effort.

AM/FM and digital channels, and play external audio sources via Bluetooth, USB or AUX. Two antennas are set at 90° into the cab windows, providing smooth reception.

Better as a team, with ISOBUS

The ISOBUS standard is seen more and more on tractors and attachments. It can support the interaction between a Fendt 700 Vario and a Fendt Tigo PR 60, for example, or the towed Fendt Rogator 300 sprayer. Ever future-ready, the Fendt 700 Vario now features an ISOBUS connection at the front, so you will be able to drive front and rear attachments with ISOBUS, which is easier to use and means you can operate the attachments centrally on the armrest. You can also control an ISOBUS implement and tractor functions with the 3L joystick. If your working day includes frequent changes of direction, the added reverse drive button on the 3L joystick makes your work quicker and fatigue-free. The new Fendt driver's workstation in combination with FendtONE is the easiest, simplest way to get the best results. **F**



HARVEST YOUR SUCCESS

New models for Fendt harvesting solutions

With the new Lotus, Fendt introduces a unique tedder for large and medium farms, perfect for high crop volumes and maximum area coverage. Our popular tedder range welcomes a new high-end model, the Fendt Twister 11010 DN. The new front mower unit, Fendt Slicer FQ joins our successful range of Fendt disc mowers.



Fendt Lotus 770

Maximum stability even under difficult conditions – that's what the fitted model Fendt Lotus 770 offers with a working width of 7.70 m. The innovative Stabilo tracking device always keeps the tedder on track. There is no rocking when working in unfavourable mowing or field conditions. The tracking device also has an automatic locking system, which ensures a particularly high level of safety and stability when the unit extended. With a stable 3-point fitting, the Fendt Lotus is equipped with 4 pivot points and 2 connecting bars. Its trapezium design creates a virtual pivot point in the middle of the tractor. As well as its high stability, the frame is marked above all by its long service life and maintenance-friendly design.

The Fendt Lotus 770 comes equipped with hydraulic transport-mode conversion as standard. The transport width remains below 2.95 m.



FENDT LOTUS

- Working widths of 7.70 m / 10.20 m / 12.50 m
- Unique Fendt performance tines
- Headland spreading gear
- Dragging tine position
- Stable frame design with maintenance-free double-cross joints
- Fitted version: Fendt Lotus 770 with Stabilo tracking device
- Towed versions: Fendt Lotus 1020 T and 1250 T with stable drawbar and back-set 3-point pivot.

FENDT PERFORMANCE TINES ON ALL LOTUS MODELS

The special tine arrangement means the outer tine is always faster than the inner tine, with the dragging tine position adapting perfectly to the ground. The sward is not damaged. The tine position and shape guarantee the best pick-up action for the mowed crop, especially when the feed is wet and heavy. It also enables particularly high working speeds and up to 50% higher area coverage as a result. The special tine attachment with a changeable angle means you can easily adjust the drop distance.

With a rotor speed of just 108 rpm and a PTO speed of 400 rpm, the Fendt Lotus is extremely gentle on the harvested crop while still providing the acceleration needed for effective turning.



To fully protect the tedder from damage, the Fendt Lotus 770 is equipped with a particularly reliable powertrain. The cam clutch ensures a torque transmission of 1,000 Nm. This means that even high working speeds with taller crops are not a problem.

Fendt Lotus 1020 T and 1250 T

The drawn Fendt Lotus 1020 T and 1250 T stand for impact power and performance, even in difficult conditions. With this in mind, the tedders are equipped with a solid drawbar. This ensures smooth running. The fitted frame with a back-set pivot point also stabilises the driving behaviour and gives the Lotus a high level of manoeuvrability, thanks to the short frame length.

The Lotus models 1020 T and 1250 T are attached with the arrestors on the lower links. With a working width of 10.20 m and 12.50 m respectively, the drawn Lotus tedders achieve the highest output while being gentle on the soil and harvested crops. The stable main frame and the independent chassis ensure that the gauge wheels are not weighed down by the main frame. This avoids sinking on soft ground. Despite a large working width, these models also have compact transport dimensions. For road transport, the rotors are placed one after the other on the frame. This protects the rotary joints, as the load is reduced while keeping the dimensions particularly compact.





The powertrain of the drawn Fendt Lotus 1020 and 1250 tedders is extremely stable and very easy to run, with maintenance-free, double-sided cross joints. To match the high driving speeds and area outputs, the drives are secured and protected at 1,400 Nm and 1,500 Nm respectively.

Fendt Twister 11010 DN

Equipped with 10 rotors, the Twister 11010 DN is an ultimate combination of the powerful technology of attached machines and the stability of fitted tedders. The Twister 11010 DN has a three-point fitting, with a working width of 10.72 m. It is still compact for transport purposes, though. The synchronised lifting of the rotor makes it easy to work on slopes. The rotor speed can be reduced using the optional night swathing gearbox, to shape the perfect night swaths and protect the harvested material from the dew – perfect for small harvest time windows. For maximum operational safety, there is the automatic safety shutdown with integrated freewheel if the machine is raised above the headland position. The self-centring crosspiece joints prevent damage to the drive train. The Fendt Twister 11010 DN is also equipped with a reinforced pendulum brake.



FENDT TWISTER 11010 DN

- 10 rotors
- Working width of 10.72 m
- Compact transport size
- Three-point fitting
- Optional night swath gearbox
- Automatic safety shut-off with integrated free wheel
- Reinforced pendulum brake
- Optional hydraulic swath cloth for edge spreading



FENDT SLICER FQ

- Working width of 3.10 m or 3.60 m (always observe country-specific regulations)
- Switch from tine to roller conditioner
- Front wheel drive
- Lateral shift as standard
- 3D ground adjustment for a constant cutting height, giving the highest quality forage – even under difficult conditions.
- Cross-swing and vertical freedom of movement
- Continuously adjust the swath width and distance between the tractor front wheel and the swath guide plate
- Comes with optional conditioners:
Tine or roller conditioning
- Attaches straight to the front lift
- No EHR required on the tractor
- Hydropneumatic relief using the TurboLift system

Fendt Slicer FQ front mowing unit

Perfectly adapted to the needs of medium to large dairy farms, contractors and biogas farms, Slicer FQ mowing units offer a working width of 3.10 m or 3.60 m, as well as a choice of roller or tine conditioner. Extremely flexible, the Fendt Slicer FQ can be used solo, with mower combinations or with a fitted rear mowing unit. Lateral shift, 3D ground adjustment and a number of other clever features round off this machine.

The Slicer FQ front mowing unit comes with the option of a lateral shift of 20 cm to the right and left, to guarantee a particularly clean cut. Using the lateral shift to compensate for drift, you can prevent losses effectively even on slopes. And when cornering, the lateral shift of the FQ prevents skid-marks when used in a mower combination. The hydraulically operated lateral shift feature is an optional extra on Slicer FQ models.



3D ground adjustment and freedom of movement

Powered by spurgears, the front mower has a drawn three-dimensional ground adjustment device, which overlays both across and lengthwise for perfect ground adjustment and a perfect cut. It delivers a clean cut every time, even over cropped terrain.

The freedom of movement of the Fendt Slicer FQ is enormous – with a cross-swing angle of $\pm 13^\circ$ and a vertical play of around 650 mm, the FQ is true flexibility at its best.

Fitting options

Because you can fit it straight to the front linkage, the centre of gravity is close to the tractor – which lowers the weight to the front axle. 3-way coupling is not necessary. For tractors without EHR you can drive the Slicer FQ in float mode, using the support chains and with the lower links at a protected adjustment height (750 mm). The draw frame above the mower unit further increases the freedom of movement. To park, just put the retractable adjustment lever parking lock into its parking position. **F**



WARRANTY EXTENSION FOR FENDT SLICER 9314 MOWER

Fendt Care offers its customers a comprehensive package to mitigate the repair risk of new machines. Under the statutory warranty (12 months), Fendt Care offers a warranty extension for the Fendt Slicer 9314 model for 2,000 hours or three years.





MORE POWER. MORE PUNCH. THE NEW FENDT KATANA 650.

To coincide with the start of the 2019 forage harvesting season, Fendt introduced the Fendt Katana 650. With more horsepower, improved crop flow and new corn attachment, the Fendt Katana is ready for plenty of chopping material and long harvest days.





FENDT KATANA 650

- Output 650 hp
- MTU 6-cylinder series engine
- Emissions Stage 5 (EU)
- Cutting length up to 30 mm
- Fendt BalancedGrip

650 hp for the Fendt Katana 650

With 25 hp more engine power, the Fendt Katana 650 now achieves a rated power of 650 hp with the popular MTU 6-cylinder series engine. It has more power to give for use in maize.

New crop flow for higher output

The Fendt Katana 650 has been completely redesigned from the crop flow to the chute flap, achieving cutting lengths of up to 30 mm. The Fendt Katana 650 comes with two new roller conditioners, specially designed with an additional V-spiral groove. The grains are completely crushed by the new roller conditioners. The shaft sections are neatly cut and processed lengthways and across, to form a very well structured basic cattle feed even at larger cutting lengths. The new crackers on the Fendt Katana 650 require less power, using 12% less fuel with high grain conditioning results. Overall, the chopper achieves 21% more flow capacity.

Prevention with StalkBuster

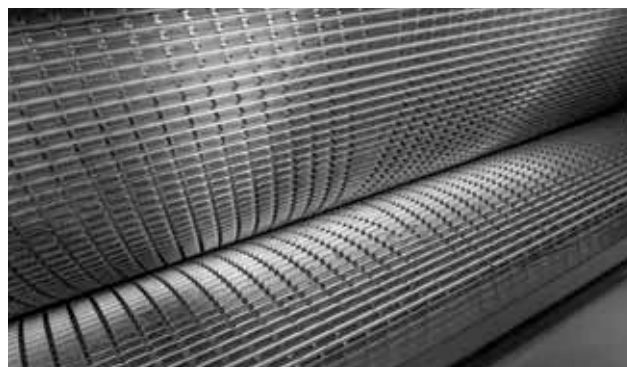
For the first time, the 460^{plus} maize header is now available with StalkBuster for the new Katana model. The award-winning StalkBuster stubble crushing technique on the maize header has a built-in mulcher, which breaks up the corn stubble during harvesting. It stops any pest infestations, like the corn borer, and reduces the use of chemical agents. With more sustainable work, we can strengthen the vitality of later crops.

Less wear and more sustainable harvesting

The Fendt Katana features a newly developed unique grinding device on its knife block, for crop-friendly grinding. The grinding stone continuously re-adjusts during the grinding process for better results. This means the grinding stone and knives last considerably longer and maintenance costs are reduced.

Fendt BalancedGrip – the smart all-wheel drive system

The smart all-wheel drive system, Fendt BalancedGrip, for the Fendt Katana 650 provides more grip, especially on steep slopes, and prevents the wheels from spinning out at low front axle loads. When driving on slopes, the front axle is under less load, so Fendt BalancedGrip actively regulates the driving torque between the front and rear axles to prevent the wheels from spinning out. On slopes, the torque is reduced by the smart system, increasing the all-terrain capability of the Fendt Katana. **F**



▲ The V-spiral groove of the new RS cracker separates even longer crops better, to increase the quality of the harvest.



▲ The new knife sharpening device continuously readjusts the grinding stone during grinding. The results are outstanding as well as crop-friendly, as the knives are sharpened more evenly.



▲ With the intelligent all-wheel drive system, Fendt BalancedGrip, the Fendt Katana 650 can be put to even better use in the grass harvest on steep slopes and the sward is spared.



TESTED ON SLOPES, COMPACT, POWERFUL AND TIM-READY

The Fendt Tigo – one for every size of farm

In alpine regions, loader wagons must be compact and manoeuvrable – the Fendt Tigo S and ST are completely in their element here. The Tigo MR series has a new high-end model in the special Tigo 100 MR Profi hay loader, while the large Fendt Tigo XR combi wagon is now also TIM-ready on request.



FENDT TIGO S & ST

- Load capacity 22 m³ / 24.5 m³ / 29 m³
- Pick-up with a working width of 1.80 m
- Silage cutting unit with up to 33 knives
- Potential cutting length 38 mm

Versatile, compact and slope-tested – Fendt Tigo S and Fendt Tigo ST

The Fendt Tigo models S and ST are available as single or tandem axles, whereby the single-axle is very manoeuvrable and the tandem marked for its extreme power. Both models can be equipped with a dry feed structure or in a full steel structure for silage use or loading hay. An optional sectioning tarpaulin keeps even short cut material safely in the loading area.

A reliable partner

Because they are so compact, the Tigo S and ST are also suitable for low passages. The chassis frame is welded in such a way that it runs smoothly and safely even under adverse conditions. With their robust welded design, the Tigo S and ST can handle twists and turns in any direction.

Perfect forage pick-up

There is an automated, free-swinging pick-up, which adapts perfectly to the ground, and a baffle plate with roller pressure pad, for the best feed pick-up and smoothest drive. The five rows of narrow-fitting tines on the 1.80 m wide pick-up are great at collecting even dry and short grass, while the baffle plate evenly pushes the swath to support the pick-up's con-





FENDT TIGO 100 MR PROFI

- Hay loading wagon with a capacity of up to 50 m³
- Up to 6 m³ added loading area
- 80° swivel multifunction bulkhead
- Cutting length 45 mm

veyor-belt effect. This reduces friction and achieves a continuous crop flow. The pick-up on the Tigo is also particularly durable and easy to maintain.

The heart of the Fendt Tigo S and ST is the cam track-controlled loading unit, which is especially gentle on the forage. The kidney-shaped cam track guarantees optimum control of the individual conveyor rakes. The load peaks are optimally distributed, thanks to separate bearings on each individual rake. As a result, the Tigo S and ST work with extreme precision. The double tines of the 5 comb bars pull straight backwards and out of the feed stock, in a fork action. This avoids crushing and the feed is transported evenly and gently into the loading bay. The result is perfectly cut and high-quality feed.

The Tigo S and ST are the only loading wagons in their class powered directly by a robust gearbox. This means that the Tigo S and ST are equipped to meet changing requirements while being extremely lightweight. There are no chain drives, which means they run extremely smoothly, and feed contamination is prevented with a drip-controlled chain lubrication.

Level indicator and electromagnetic operation

The optional acoustic level indicator provides more assistance for the driver. Here, a sensor on the back wall emits an acoustic signal and helps keep an eye on the load. The electromagnetic easy-controls save you a lot of bother – now you can control everything from the comfort of your cab. An optional folding drawbar creates up to 70 cm of ground clearance, so you can safely navigate flat silos or uneven terrain.

Made for heights – the Fendt Tigo ST

The Fendt Tigo ST low-gear loading wagon was specially designed for use on slopes and for difficult terrain conditions. With a low centre of gravity and an extra wide track gauge of 2.12 m, it always safely stands its ground.



High-performance Profi hay loader – Fendt Tigo 100 MR Profi

With a volume of 50 m³ as per DIN 11741, the multifunction bulkhead which adds 6 m³ to the loading area, and a whole range of clever details, the Fendt Tigo 100 MR Profi is at the cutting edge of hay harvesting. Robust yet compact, and with a new shorter design (now 1 metre shorter), the 100 MR Profi is a particularly agile unit. The Fendt Tigo 100 MR Profi offers by far the highest loading capacity of the Tigo MR series.

Automatic flow control with TIM ready – Fendt Tigo XR

The Fendt Tigo XR combi wagon series has also been updated. Dully automatic flow control is now an option on the Fendt Tigo XR with TIM (Tractor Implement Management). This extremely helpful assist system allows the driver to concentrate on monitoring the loading process. The combi wagon regulates the driving speed of the tractor, depending on the pick-up load and its speed. As the filling process is underway, the tractor automatically slows down with a large swath load and speeds up again with a small swath load. The results are The Fendt Tigo XR gets the filling process right on its own, and always works productively. **F**



FENDT TIGO XR

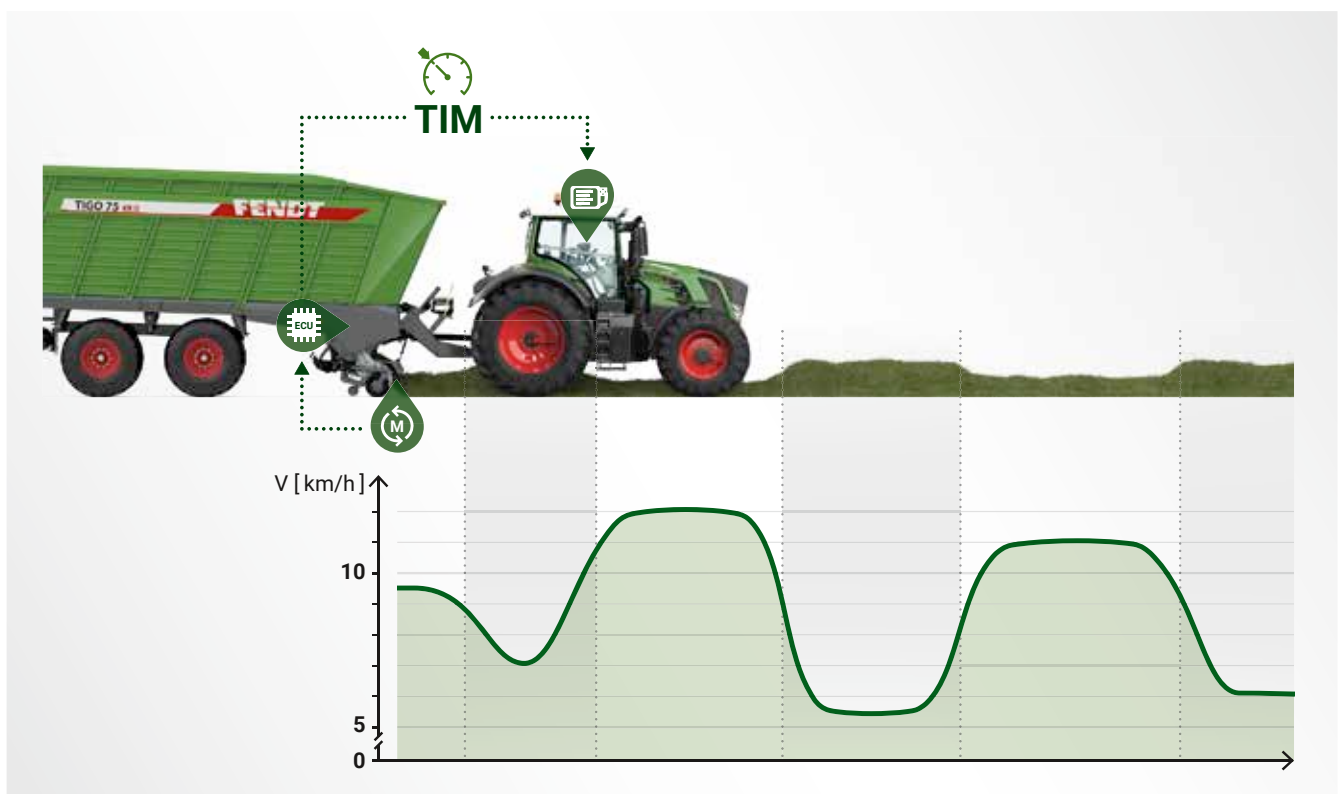
- Combination wagon with three models, up to 54 m³ capacity
- Pick-up width up to 2.25 m
- FlexSharp knife sharpening system
- TIM-ready



TIM-READY – A PERFECT TEAM

Implement steers the tractor With the **TIM function** (Tractor Implement Management), the attachment takes over the control of the tractor speed, and other settings. The attachment calculates its optimum working speed, depending on parameters such as swath volume when using loader wagons or the target value for drift reduction using the plant protection sprayer, and adjusts the speed accordingly. The TIM function gets the best results and is a significant help to the driver.

- ▼ Paired with a TIM-capable tractor, the Fendt Tigo XR can adjust the speed of the tractor to the swath volume. If the volume of swath is high, the travel speed is slowed down for the best loading results – with lower swath volumes, the speed increases again.



MORE OUTPUT, MORE VISIBILITY, MORE TRANSPARENCY.

While we wind down the harvest in Europe, farmers in the Americas are in full swing. This spring, the Fendt IDEAL was launched on the Brazilian market and is set to continue its successful trend on the world market. The Fendt IDEAL also shows its versatility in the harvesting of different crops, such as grass, wheat, barley, soy and rapeseed. Its new high-end model, the Fendt IDEAL 10T, promises to expand the application scope for large farms and extensive areas of land. With Intelligent Hay, Fendt offers an innovative solution for greater transparency in straw bale trading.

More output. The Fendt IDEAL 10T

The Fendt IDEAL 10T enhances the series of large combine harvesters with a maximum power of 790 hp, a new cleaning system and the popular Dual Helix separator. This high-end model offers more yield and even greater area coverage with the highest grain quality and the lowest grain losses.

More visibility. Who needs a steering wheel?

With its Fendt IDEALDrive, Fendt introduces the first standard combine harvester without a steering wheel to be launched on the European market. To steer, the driver just uses a joystick on the left armrest, with all the same functions as before on the right armrest. This eliminates the need for a steering column, offering the clearest view yet of the harvester's attachments. Controlling with the joystick is proportional and must easier for the driver.





FENDT IDEAL 10T

- Power 790 hp; MAN engine, 16.2 l
- Cutting unit up to 12.20 m
- Road width 3.30 m
- TrakRide crawler drive
- Emissions Stage 5 (EU)
- IDEALDrive (optional)



**ULRICH STEMMER,
PRÄBSCHÜTZ, SAXONY, GERMANY,
TESTING OUT A FENDT IDEAL 9T**

"We work 1,200 hectares of land every season, with a total workforce of four, so we need reliable and powerful technology to help us. That's why we're looking at the Fendt IDEAL 9T. The Fendt IDEAL 9T sets new standards for large combine harvesters in terms of grain quality, straw quality and ease of use," says Farm Manager, Ulrich Stemmer. "Our farm is in the hilly terrain of the Lommatzcher Pflege, also known as the granary of Saxony. The soil quality is very high and the yield is healthy, but we often have to thresh when the grain is ripe but the hay still green," says Stemmer, explaining the threshing conditions. "Maybe our farm could do with a Fendt IDEAL 10T, too" says the 25-year-old.



**BOSSE KLEPPER, KEMNITZ,
MECKLENBURG-WESTERN POMMERANIA, GERMANY,
TESTING OUT A FENDT IDEAL 9T**

"We have 900 hectares of arable land and dry our own grain. We mainly grow wheat, winter barley, rye and rapeseed. "We hardly ever use a plough, so even straw distribution is a key factor for us. The straw must be chopped as short as possible and evenly distributed to avoid straw matting. Then the straw can be well incorporated and later crops can grow more evenly. Here by the coast we often have dry top soil with very wet soil underneath, so we need tracked wheels," says Bosse Klepper. "The Fendt IDEAL 9T and the Fendt IDEAL 10T could work for me because they are powerful. Their long rotors thresh gently resulting in excellent grain quality. And there's no alternative to a rotor harvester in this performance class."



**CHRISTOPHER NAUKE,
MITTELBACH, SAXONY, GERMANY,
FENDT IDEAL 7PL**

"We work our combine harvesters on 500 hectares of contracted land and 170 ha of our own land, covering a wide range of crops," says Nauke. These include wheat, winter and summer barley, rapeseed, grass for reproduction, red clover as feed and for reproduction, spelt, oats, triticale, peas, soy and corn maize. "Short change-over times are important for us, because we have to make efficient use of the harvest windows. The run-outs in our region vary between 0.3 and 100 ha and can be very mountainous, so slope compensation is a must for us. The gentle threshing system, the ease of use and maintenance were decisive for me in my purchase," explains the farmer and contractor.



Fendt Intelligent Hay



The Fendt Squadra uploads the bale and chip data to the cloud. From there, they can be viewed in the BaleLink app on a mobile phone, tablet or PC. You can even read the data on the straw bale itself by scanning the yarn. The bale details are also displayed in the app.



FENDT SQUADRA

- ProCut cutter unit
- Up to 26 knives
- Bale size (W x H x L): 120 x 90 x (max.) 274 cm
- Bale density up to 245 kg/m³ in straw

Fendt Squadra. We know every single bale.

Every straw bale has a specific code. With Intelligent Hay, a chip is inserted into every bale, allocating it a code so its unique data can be stored in the cloud. This means it can be identified, stored and sold in line with its quality. During the baling process, the Fendt Squadra collects bale-specific data on the quality, GPS position, moisture content, bale layers, as well as information about additives and dimensions. This bale-specific data is stored on an RFID chip, woven into the 3rd or 4th yarn of the bale. The yarn is weather and temperature resistant, and the chips are placed so that one chip is woven into each bale of up to 2.40 m. The data can also be exported later back on the farm; just scan the RFID chip and the data appears in the BaleLink app on your smartphone, PC or tablet. The user can also share access to this bale data with dealers or other farmers, creating transparency over the bale quality for selling purposes. The entire process including storing the data meets the strict regulations of the European General Data Protection Regulation (GDPR). **F**



▲ The ProCut cutter unit is now also available for the Fendt Squadra. It combines cutting precision with easy maintenance. The cutting rotor and the short distance between pick-up and rotor increase flow capacity at a perfect rate of crop flow.

FENDT

fendt.com | Fendt is a worldwide brand of AGCO.



Full warranty of up to 8 years or 8,000 running hours.

Choose Fendt Care for tailor-made maintenance and repair services that go way beyond statutory warranty coverage; for the Fendt Rogator 600, for example, we offer full warranty of up to 8 years or 8,000 running hours. For your wheeled or tracked tractor, sprayer, combine, shredder or baler – get Fendt Care for full cost control and maximum reliability.

It's Fendt. Because we understand Agriculture.