

# FENDT

Fendt 1000 Vario





500 hp for your daily masterpiece.  
Fendt 1000 Vario.

Big. Strong. Unique. A true masterpiece coupled with leading Fendt technology. Experience true strength, full traction, expert control and intelligent networking with the Fendt 1000 Vario.



| Engine                |       | 1038 Vario | 1042 Vario | 1046 Vario | 1050 Vario |
|-----------------------|-------|------------|------------|------------|------------|
| Rated power ECE R 120 | kW/hp | 291/396    | 320/435    | 350/476    | 380/517    |

## The Number One for heavy draft work.

Fendt 1000 Vario harnesses its power. Its large tyres, intelligent ballasting and tyre pressure assistant as well as unique, variable four-wheel drive deliver the right amount of grip in any situation – along with outstanding manoeuvrability. And it is powerful for more than draft work.

### Most powerful standard tractor with maximum modularity

The Fendt 1000 Vario occupies a new segment with its power output. Its design as a high-performance standard tractor brings together every advantage for operations in the field and on the road.

- New power segment 380 – 500 HP
- 14 t unladen weight at a permissible overall weight of up to 23 t\*
- 60" (1,5 m) traceable\*\*
- Fully road legal at 60 km/h\*
- Optional rear PTO on 1000, 1000E and 1300
- Optional rear linkage
- All hitch systems in modular design
- Optional reverse drive control
- New generation of LED work lights

\* Figure depends on country-specific legal requirements.  
\*\* Depends on country variants.



### Maximum performance 365 days a year

All components from engine to gearbox, through to radiator and hydraulics, have been designed specifically for permanent power in demanding applications, and tailored to high power transfer with very low consumption. Of all its strengths, the Fendt 1000 Vario shines due to its excellent manoeuvrability and low tare weight with high payload. The newest software solutions and diversity of interfaces pave the way for connected services, which boost operational efficiency through fast data analyses and maintenance options while still working in the field.

So that daily work becomes a masterpiece.

## FENDT iD LOW ENGINE SPEED CONCEPT

# High power – low fuel consumption Fendt iD.

### Low engine speed concept Fendt iD

The Fendt 1000 Vario always runs within the maximum torque range for the lowest specific fuel consumption, which means that high power is already delivered at low engine speeds. “High torque, low engine speed” is the system according to which all vehicle components such as engine, gearbox, fan, hydraulics and all auxiliary units are tailored to suit the ideal engine speed.

### High torque – low fuel consumption

The Fendt iD low engine speed concept results in permanently low fuel consumption and an extended service life. The speed band of the Fendt 1000 Vario ranges from 650 rpm to 1700 rpm. In the main working range, the speeds range from 1100 to 1500 rpm, which is gentle on the components and lowers consumption. The engine of the Fendt 1050 Vario already delivers an impressive 2400 Nm of torque at 1100 rpm.

### The way Fendt iD works

The entire drive technology of the Fendt 1000 Vario is exceptionally efficient. The high-capacity engines with VTG turbocharger unfold their enormous power potential efficiently at low engine speeds. Transmission and variable four-wheel drive ensure ideal power distribution within the optimal consumption range. The Concentric Air System (CAS) cooling concept with forced-draft high-performance fan cools all heat exchangers according to needs and further increases overall efficiency. All consumers, such as the air-conditioning, air compressor or alternator, are coordinated for low wear through low engine speeds.



THE ENGINE ON THE FENDT 1000 VARIO

A master of heavy draft work.

380 to 500 hp

It is powered by the highly efficient MAN six-cylinder engine. With 12.4 litre cubic capacity, it already has a high torque in the low engine speed range: On the Fendt 1050 Vario, the maximum torque of 2,400 Nm is already available at 1100 rpm – perfect for heavy draft work. This fast high-horsepower tractor reaches its top speed of 60 km/h at only 1450 rpm, 40 km/h at a fuel-saving 950 rpm.

Economical, low-emission, environmentally friendly

The SCR technology reduces nitrogen oxides highly efficiently in combination with the external, cooled EGRex exhaust gas recirculation. The Fendt 1000 Vario complies with the latest emissions standard EU Stage 4/Tier 4 final with SCR exhaust technology without diesel oxidation catalyst (DOC) or diesel particulate filter (DPF). The Fendt 1000 Vario is especially economical through its efficient use of fuel and the requirement-based control of the AdBlue injection system.

Turbo efficiency

The engine, tried and tested many times in the truck segment, has been tailored to heavy loads based on the load spectrum in heavy field work. The charging is done through the VTG turbocharger and results in high torques already at low engine speeds. Low engine noise level and exhaust brake via the VTG, which is gentle on the brakes and minimises wear.

Unique cooling system

Efficient cooling when hot, provided by the specially developed fan and the Concentric Air System (CAS) cooling concept. Here, a new, forced-draft high-performance fan is positioned in front of the cooler unit, where it sucks in cool dense air, accelerates it via the concentric hood and pushes it through the cooler. The CAS has its own hydrostatic drive, so it can always deliver ideal cooling power to each component according to need, independent of the engine speed. The fan is tilted upwards, which prevents harvesting residue from being sucked up from the ground.

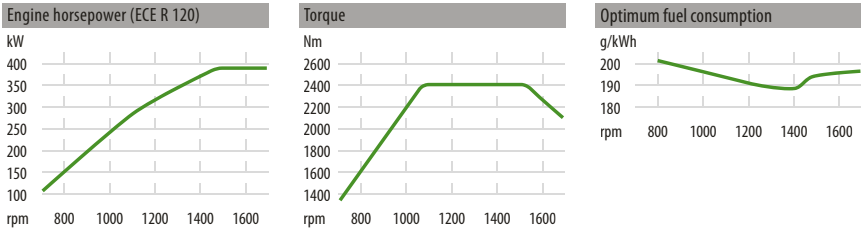
Through the reduction in fan speeds, as well as precision manufacturing with small gap tolerances, the CAS achieves high cooling capacity with an especially low noise level.



The cooling water level and the degree of air filter contamination are shown in the Varioterminal.



The 12.4 l MAN engine with common rail attains high injection pressure of 1800 bar and is therefore very efficient.



Engine characteristics – Fendt 1050 Vario

Through the well-rounded torque curve, more power is already available in the lower speed range. Furthermore, the constant power range provides a broader engine speed band over which the maximum power can be called up. In this range, the rated speed is equivalent to the maximum power.

## FENDT VARIO DRIVE – THE NEW DRIVE TRAIN

# Drives your success – at full power.

### From Vario to VarioDrive

The Fendt Vario stands for stepless, dynamic driving with plenty of engine power at any speed from 0.02 km/h to 60 km/h. The new Fendt 1000 drive has been specifically developed with the aim of transmitting high engine horsepower in any situation, regardless of ground conditions, and therefore keeping the engine speeds very low. The solution: Fendt VarioDrive – the drive train that drives both axles independently for the first time.

### Variable 4WD gives you 500 HP

Conventional four-wheel drives usually have a fixed torque ratio between the front and rear axle. Fendt VarioDrive enables a variable four-wheel drive. The torque is essentially distributed to both axles via two gearbox outputs. Thanks to the intelligently-controlled 4WD clutch, torque displacement takes place when required between the axles. This is called Fendt Torque Distribution.

### Meisterwerk with grip

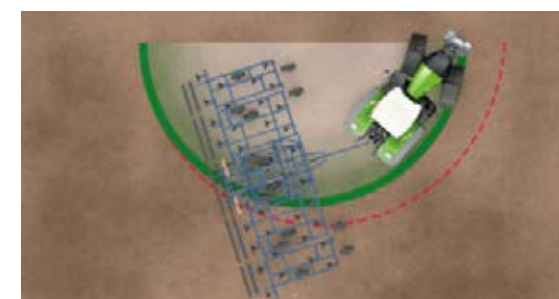
During field operations, torque is transferred flexibly to the axle. The result is tremendous pulling power. As the speed increases, a clutch completely decouples the front axle drive at approx. 25 km/h – this eliminates drag losses in the drive train and increases efficiency.

### Tightest turning circle thanks to pull-in turn

As there is no fixed forward ratio due to the variable 4WD, the front wheel drive is able to actively pull the tractor into the turn – the “pull-in turn” effect. The turning circle in the field is reduced by up to 10% by this effect alone. VarioDrive minimises the otherwise usual tyre wear on the front tyres that is caused by cornering on firm substrates.



New, larger high-capacity hydrostats with 370 cm<sup>3</sup> ensure very high transmission efficiency. The separate oil supply protects the gearbox against oil mixing and contamination.



Small turning radius thanks to “pull-in turn” effect, e.g. 6.97 m for the Fendt 1038 Vario with standard tyres.



All functions are arranged simply and straightforward on the backlit membrane keypad according to the tried and tested Fendt operating logic.

THE HYDRAULICS FOR THE FENDT 1000 VARIO

Everything flows.

Versatile coupling system

The Fendt 1000 Vario already delivers a high hydraulic capacity of 165 l/min and 140 l/min in the basic configuration. The flexible coupling housing permits operations with different coupling sizes: ½", ¾" and 5/8" FFC (Flat Face Coupling). The third and fourth control unit in combination with ¾" and 5/8" FFC couplings, can be supplied with a flow rate of up to 170 l/min. All connections can be coupled smoothly and on both sides under pressure (DUDK).

Coupling system with many advantages

On the one hand, the flexible system enables fast machine changes independent of coupling size. On the other, the fleet can be gradually converted to larger valves. In addition, all the advantages of the flat-face FFC couplings are available: a large diameter of 5/8" for more flow, leak-free coupling, greater efficiency thanks to fewer pressure drops, easy cleaning, and a longer lifetime due to less dirt getting into the coupling. All valves have a breakaway function without pressure loss.

Twice as strong

Alongside load-sensing pumps with 165 l/min or 220 l/min pump capacity, the Fendt 1000 Vario has high-performance hydraulics with 430 l/min – for the toughest of requirements. One pump delivers 220 l via two separate circuits, and a second pump 210 l. Two control pumps therefore supply several oil separators – controlled by up to six da valves in the rear and a da valve in front. Separation of the oil supply to the hydraulics and gearbox means that the 1000 Vario is ideal for use of bio-based oil in hydraulic circuits.

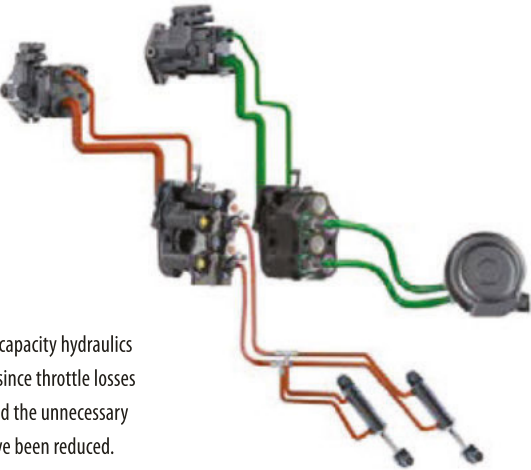
Oil flow according to need

Both control pumps supply the respective separator via its own oil circuit with the ideal quantity of oil and the right oil pressure. For example, the fan of a pneumatic sowing machine requires a high flow rate, but low pressure, while the remaining consumers, such as steering, power lift, chassis or markers, also require high oil pressure at a low flow rate on the second circuit.

If required, the replaceable screw-in coupling is simply screwed into the block and quickly replaced according to implement.



Two valves can be prioritised for the dual-circuit high-capacity hydraulics.



The benefits of dual-circuit high-capacity hydraulics are clear – effective fuel savings since throttle losses on the pressure limiting valve, and the unnecessary oil heating associated with it, have been reduced.

FENDT LIFE CAB

Comfort leads to success.

The first impression counts, the second makes the difference

The perfect combination of state-of-the-art controls and comfort is called Fendt Life Cab. The Fendt 1000 Vario cab impresses even on first glance, for the newly designed Life cab combines the ultimate in quality materials with the tried and tested arrangement and practicality of all elements. The revamped space and visibility is enhanced by a number of small details, which turns the everyday routine into a virtual pleasure.

Field work with comfort factor

The Fendt 1000 Vario already makes climbing in easy: wide steps with side lighting lead upwards. All the hand grips are intuitively correctly placed. The soft touch surface of the interior panelling creates a pleasant atmosphere and is resistant against dirt and dampens noises. The new Comfort Seats turn heads with their black leather cover for both the operator and passenger seats. The adaptive backrest of the Dualmotion comfort driver seat swings along when looking over one's shoulder.

New visibility range

The Fendt 1000 Vario tows the largest and widest implements, which the operator has in full view through the large windows. The new design of the cab offers up to 10% more visible area than the previous Fendt high-horsepower tractor cabs. The manual roller shades integrated in the roof on the front, rear and right side window, offer sun protection. Free visibility, even when it rains: In addition to the 300° wiper for the front, a 220° wiper including spray nozzle is now available for the right side.

Practically indispensable ...

... many new ideas for order and overview. Several large bottles can be secured in the Life Cab as well as phones and documents. The cooled storage compartment can be supplemented with a large, removable cool box. When the comfort passenger seat is folded down, it is transformed into a table with clips for papers. The reversing driver station is ideal for milling or chopping operations, where the entire driver station, including all operating elements are simply turned 180°, quickly and easily.

The high-capacity automatic climate control with twin blowers and larger air nozzles keep the Life Cab pleasantly cool, even at temperatures around 45°C.

Fendt VarioDoc brings your office on board: All work data are available in the field record in near real-time.



Practical for front mounted implements: The new camera integrated in the bonnet captures the view to the lower links and transmits the image to the Varioterminal.



The wide-angle mirrors can be moved freely and extend the viewing angle towards the back.



The front and rear windows are heated, which is a big advantage when operating with the reversing driver station.



Precise sun protection with one hand movement, also on the right-hand side window.



You can make hands-free phone calls in the Fendt 1000 Vario, and in best quality: The flexible swan neck microphone keeps both hands free and the acoustics are perfect.

The data from the field is saved in the field database by VarioDoc. VarioDoc Pro also permits recording of GPS position data and data transfer in near real-time



## VARIOTRONIC IN THE FENDT 1000 VARIO

# New paths for a higher yield: Precision farming.

### Uniquely flexible choice of receivers

The VarioGuide steering system ensures optimum work results and maximum comfort. With the NovAtel receiver, you are always on the right track with the SBAS, TerraStar-L & C and RTK correction signals. If you go for a Trimble® receiver, you can use SBAS, RangePoint™ RTX™, CenterPoint RTX™ and RTK. Should you lose your RTK signal due to the terrain, VarioGuide continues to work reliably up to 20 minutes without a correction signal thanks to Trimble®-xFill™ technology or NovAtel® RTK Assist.

### SectionControl guarantees that there is no overlapping

With the fully automatic SectionControl, you can always plant seeds, spread fertiliser or apply pesticides precisely in the right spot. This prevents double treatment and distances are automatically maintained. With the aid of the SectionControl assistant, you can set the correction values for each implement, quickly and easily. The switch on and off points can be set precisely from the very beginning, which automatically results in economical application.

### Variable application with VariableRateControl (VRC)

Data transfer with VarioDoc Pro now permits variable rate application, based on the needs of the soil or plants, and therefore saves operating inputs. Based on VarioDoc Pro for documentation, the VariableRateControl solution for precision farming is now available. The individual requirements for seeds, fertiliser and pesticides are shown on application maps. They are then called up during operation and automatically executed. The big advantage: operating inputs can be defined and planned with the aid of the field database and then applied with utmost precision.

### New waylines with Fendt Contour Assistant

Fendt machines with the Varioterminal 10.4 and VarioGuide system with the NovAtel® or Trimble® receivers can now use the Fendt Contour Assistant. This adds the “Contour segments” and “Single track” types to the familiar VarioGuide wayline types, and helps you to work even more efficiently and comfortably. The different segments are recorded by just a single lap around the field using the contour segments wayline type. Field boundaries can therefore be quickly and easily established. In the case of a single track, all tramlines are created as virtually endless contours by leaving the track.



Thanks to ergonomic control clusters – consisting of 4-in-1 Varioterminal, multi-function joystick, crossgate lever, EHR power lift, valve control and membrane keypad – you’ve got everything under control.



The Variotronic<sup>11</sup> headland management saves all the procedures when performing a turning manoeuvre. Variotronic<sup>11</sup> automatic triggers the sequences precisely at the right place.



ISOBUS-capable implements can be controlled directly via the Variotronic implement control on the joystick or Varioterminal.

QUALITY STANDARD AND RETENTION OF VALUE

## Perfect outlook.

**FENDT**  
Certified

### Fendt Certified - Pre-owned machine programme

Leaders drive Fendt - even if it's second-hand agricultural machinery. Used agricultural machinery to tried and tested high-quality standards and certified Fendt quality is the ideal solution for cost-conscious farmers or as an addition to a growing fleet.

### Fendt Certified offers a whole host of benefits:

- Certification according to the highest quality standards
- Extensive incoming check (technology, wear, appearance)
- Careful maintenance of wearing parts
- If required, replace, clean and paint components
- One-year warranty (option to extend)
- Services at fixed hourly rates
- Replacement at current value in the event of a claim

### Lifelong benefits

Enjoy a lifetime of benefits as a Fendt customer. This starts when you buy your Variotronic machine and simply continues throughout your machine's service life, as we make newly developed functions available to existing machines of current and older model years (provided their hardware is compatible) rather than restrict them to future models. Maintain high levels of reliability, efficiency and operating comfort throughout your machine's life. This ensures maximum performance capacity and proactive value retention.

### From update to upgrade

With Fendt Variotronic, you can enjoy state-of-the-art technology even after many years. Adding more functions later is no problem. How can I do that? With the unique software updates with new additional functions, which Fendt provides twice a year, free of charge. The easier way of updating your Variotronic is to have it updated by your dealer during a maintenance interval (dealer charges for labour). This ensures that your Fendt machine is technologically advanced, that it maintains its value, and provides return on investment in the future just like the first day you bought it.



The Varioterminal informs you about the next maintenance and servicing dates, it even has a reminder function.

FENDT SERVICES

Rest assured that your machine will be ready for action tomorrow.



**100% quality, 100% service Fendt Services**  
To ensure that your Fendt Vario delivers 100 percent performance at all times, we offer you 100 percent service. In addition to the best diagnostics capability and ease of repair, this includes availability of replacement parts 24/7 during the harvesting season. The Fendt service network also guarantees fast lines of communication between you and our trained service employees. Fendt original parts and their fitment come with a 12-month warranty. Repairs using original parts ensures your Fendt tractor retains its value.

**Performance and profitability under contract**  
The Fendt Service packages give you complete cost control with exceptional service. The packages cover all specified maintenance work, based on attractive fixed rates. The various Fendt Care levels include regular maintenance and servicing combined with an extended warranty for up to 8,000 operating hours or 8 years in total. From the maintenance agreement to the comprehensive package including replacement machine, you'll find a flexible and tailored solution for your fleet at Fendt.

**Individual finance and rental models**  
Investing in technology means a considerable capital outlay. A credit finance agreement from AGCO Finance offers attractive conditions and flexible terms. From the initial down payment to monthly instalments to the payment term – you set the general terms on which to finance your Fendt. If you need additional capacity in a hurry or want to use tractors over a long-term period without purchasing them, your Fendt dealer can offer the ideal solution with tailored rental packages. These packages help you adapt your fleet to your current workload.

**Fendt Expert operator training**  
Fendt brings you not only the latest technology, but also helps you get maximum value from your vehicle. With the help of the exclusive operator training programme, you can optimise the efficiency of your Fendt even further, and get to know all the functions which make your daily routine that much easier. Our team of professional trainers will advise you on how to use the full potential of your Fendt vehicle.



|                     |            |
|---------------------|------------|
| Max. hours          | 8,000      |
| Max. years          | 1 + 7      |
| Cover (except wear) | Full cover |

Fendt has set new extended warranty premiums to offer an even more comprehensive product to cover the reliability and repair risk of new machines.

Using the smartphone “AGCO Parts Books to go”, you can find Fendt spare parts quickly and easily and order them directly. The app is available for download in the app store or in Google Play Store. Your personal access data is available from your Fendt dealer.



Your Fendt dealers are always there when you need them, and have just one aim – to make sure your Fendt machines are ready for action at any time. If something does go wrong during harvest time, simply call your certified service centre 24/7 on the emergency hotline.

| Fendt Care packages                        | Bronze                                       | Silver                                           | Gold                                     | Platinum <sup>1</sup>                                               |
|--------------------------------------------|----------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|
| Coverage                                   | Regular maintenance, fixed maintenance costs | Cover against repair risk (except wear and tear) | All costs covered (except wear and tear) | Covers all costs and guarantees availability (except wear and tear) |
| Machine type                               | All                                          | All                                              | Wheeled tractors                         | Wheeled tractors                                                    |
| Regular maintenance                        | ✓                                            | ✓                                                | ✓                                        | ✓                                                                   |
| Repair risk                                |                                              | ✓                                                | ✓                                        | ✓                                                                   |
| Excess                                     |                                              | Optional excess: €0, €190, €490                  | €0                                       | €0                                                                  |
| Travel Rates                               |                                              |                                                  | ✓                                        | ✓                                                                   |
| Recovery and towing                        |                                              |                                                  | ✓                                        | ✓                                                                   |
| Vehicle diagnostics                        |                                              |                                                  | ✓                                        | ✓                                                                   |
| Fitting of exhaust brake                   |                                              |                                                  | ✓                                        | ✓                                                                   |
| Oil, filters for engine and gearbox repair |                                              |                                                  | ✓                                        | ✓                                                                   |
| After hours and weekend surcharge          |                                              |                                                  |                                          | ✓                                                                   |
| Replacement machine                        |                                              |                                                  |                                          | ✓                                                                   |

<sup>1</sup> Valid in Germany, Great Britain and France. Platinum only available at participating dealers.

In order to keep your machine ready for action at any time, we offer a tailored maintenance and repair service beyond the statutory warranty. Fendt ProService offers you flexible policy periods depending on the machine type, and flexible premiums with and without excess. This gives you complete cost control, planning certainty and retains the value of your machine.

## FENDT VARIODRIVE – THE DRIVE

# The success factor for grip.

### VarioDrive drive train – a Meister of power distribution

The novel design of the drive train allows the ideal torque distribution to front and rear wheels for optimal traction and tractive power. The drive train is based on a hydraulic pump and two hydro motors. The first hydro motor supplies the rear axle with uninterrupted torque via hydrostatic-mechanical power splitting from 0 km/h to 60 km/h. The second hydraulic motor serves the front axle. Through feedback to the rear axle, from the ground or through the intelligently controlled four-wheel clutch, the front axle drive also becomes part of the hydrostatic-mechanical power splitting.

### Power distribution through Fendt Torque Distribution

The flexible torque distribution of the variable four-wheel drive is achieved through a T-piece, which is located between the hydraulic pump and the hydraulic motors for the front and rear axles. It acts as a hydrostatic differential between the axles and permits the oil flow between the pump and hydraulic motor to be adjusted freely. As a result, there is no tension. If needed, torque can be automatically shifted from one axle to the other via the intelligently controlled four-wheel clutch. Frictional loss and wear are reduced effectively.

### Fendt VarioGrip for the perfect tyre pressure

Due to their large diameter of up to 2.35 metres, the rear tyres on the Fendt 1000 Vario have a very large contact area, which has a positive impact on traction and therefore tractive power. This always includes having the right tyre pressure. With the integrated tyre pressure regulation system Fendt VarioGrip, the tyre pressure can be adjusted with a click in the Varioterminal. Air is filled into or released from the tyres while driving. Compared to operations with unadjusted tyre pressure, you can achieve up to 10% more pulling power and cover up to 8% more area with up to 8% lower fuel consumption.\* VarioGrip is available for flange and bar axles, and forms the basis for tyre pressure adjustment at the touch of a button, even with dual tyres.

\*Test results from South Westphalia University of Applied Sciences, Faculty of Agriculture, Soest.

### Perfectly ballasted with the Fendt Grip Assistant

Besides the tyre pressure, the ballasting and working speed are also decisive for power transfer to the ground. The new solution is called: Fendt Grip Assistant. With the Assistant, which is fully integrated in the Varioterminal, the right tyre pressure and optimal ballast weight or driving speed can be determined quickly. Depending on the implement or given ballasting situation of the tractor, the Grip Assistant recommends either front and wheel weights, or the optimal working speed.

Front axle with self-levelling independent wheel suspension and single wheel brake



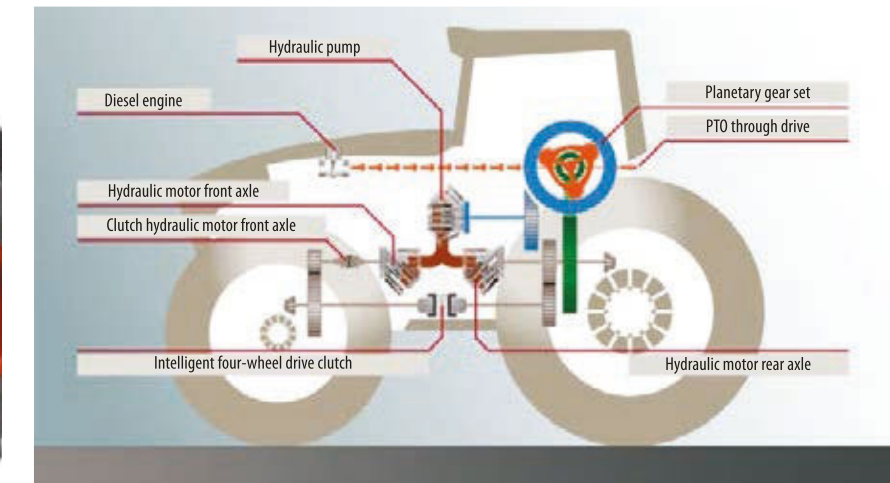
### Front axle suspension

The self-levelling independent wheel suspension on the Fendt 1000 Vario guarantees optimal ground contact of the front wheels under all conditions, and reliably prevents power-hopping for the ultimate in pulling power. Ride comfort and safety are also maintained when transporting at up to 60 km/h. The long suspension travel maintains ride comfort independent of the load. Operators can travel through the suspension manually, for example, when picking up weight without a front lift with the comfort ballast pick-up feature. A further benefit: The single wheel suspension is maintenance-free.



The Grip Assistant recommends the right tyre pressure and ballasting for a defined speed when in Speed Select mode. In Ballast Select mode, the assistant recommends the ideal working speed as well as the optimal tyre pressure for a defined ballast.

Schematic of the Fendt VarioDrive design concept



The perfect integral tyre pressure regulation system VarioGrip controls tyre pressures from 0.6 to 2.5 bar within minutes. The optimal tyre pressure saves fuel, protects the soil and increases traction.

ADDED VALUE THROUGH ASSISTANCE SYSTEMS

# Assistants for reliability.

**Engine-gearbox assistants**

The Tractor Management System (TMS) automatically adjusts for the ideal engine and transmission coordination. The TMS controls the engine speed and transmission setting automatically, independent of the speed, so that the tractor is always moving at maximum efficiency, thus saving fuel. The engine load reduction is controlled by the automatic maximum output control 2.0, depending on implement operation.

**Driver assistance**

Driving safety matters, on the road and in the field. The unique Fendt Stability Control (FSC) provides additional stability and steering precision when driving above 20 km/h on the road. When coming out of a turn, the Fendt Reaction steering system automatically switches to straight-ahead driving. The VarioActive superimposed steering system facilitates steering: a single turn of the steering wheel is enough for a full steering angle.

**Braking assistants**

A highlight you wouldn't want to miss: In the automatic setting, the new Handbrake Assistant automatically activates the handbrake when you climb out of the cab or turn off the engine. And vice versa, the assistant automatically deactivates the handbrake when starting off. If you stop and take your foot off the brake pedal, the tractor stays standing safely, even on slopes. The Deceleration Assistant, which automatically actuates the brake lights when decelerating more than 1 m/s<sup>2</sup>, even before actively braking, provides additional safety when braking. This provides an early warning for traffic following the tractor.



Hand brake assistant in automatic position:  
The hand brake is automatically activated.

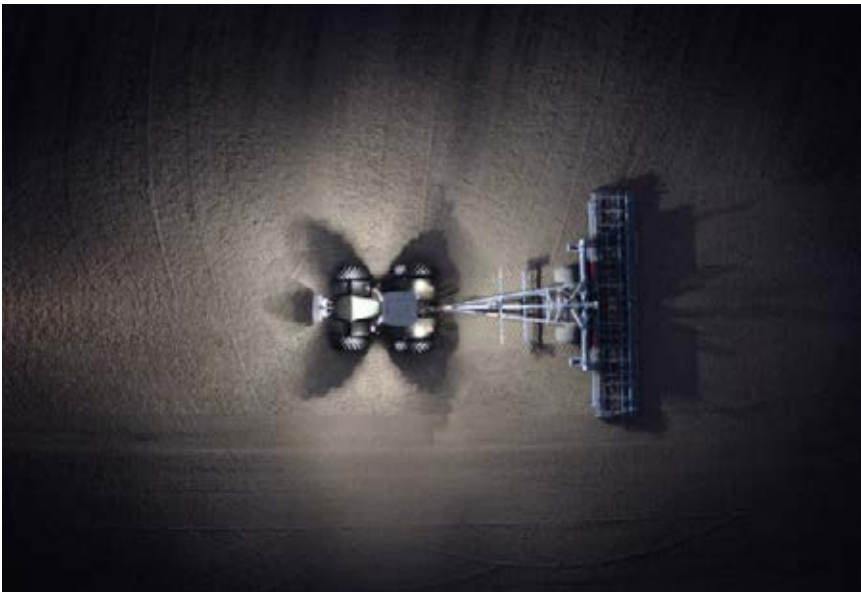


With VarioActive, you already go through the full steering  
angle with just one turn of the steering wheel.



Thanks to the TMS tractor management system and the  
automatic maximum load control 2.0, the tractor adapts  
the engine speed optimally to the road speed.

LIGHTING



Fendt 1000 Vario ensures top performance at night with the new generation of LED work lights with 61,100 lumen. Whether equipped with LED or Halogen lamps, the complete working area is uniformly lit. The interior of the cab also makes night work pleasant: All operating elements are backlit and dim automatically when it gets dark. With the coming home feature, the cab and driving lights continue to shine after the tractor has been turned off.



The headland range can be set manually with the rotary control in the roof liner.



The Fendt 1000 Vario has a third brake light for greater safety on the road.



The entrance step lighting integrated on the side of the tank guarantees safe entering and exiting the cab.



With the coming home function, the main lights and the lights on the steps continue to shine after the engine has been turned off so that the way home, as well as the steps, are illuminated.



The ambient lighting creates a pleasant atmosphere when working at night. All functional elements have backlighting.



LED daytime running lamps and work lights integrated in the front of the bonnet including bonnet camera.



The variants without daylight running lights and work light retain an attractive appearance through designer trim.

CAB



The super comfort seat Evolution dynamic has air-suspension and active climate control as well as a backrest extension.



The new Fendt Evolution Dual Motion comfort seat with seat heating, climate control and Dual Motion swing-along backrest, is extremely comfortable and ergonomic.



The comfort passenger seat is ergonomically formed and has additional cushioning. Folded down, it turns into a practical table with a clamp for papers.



When operating in reverse drive mode, all control elements can be operated just as comfortably as in front drive mode. The entire driver station is simply turned around 180° – and everything else in the cab can remain where it is. Despite the reversing driver station, passengers do not have to do without the comfort seat.



For enhanced operating comfort, the cockpit swings parallel with the steering wheel. Easy steering wheel adjustment via a separate foot pedal, hands-free for adjustment.



With the aid of the interior rear view mirror, you always have your implement in view.



The 220° side window wiper also guarantees an optimal view to the right side, even in adverse conditions.

CAB



The multi-function armrest in a power configuration: Varioterminal 7"; power joystick with Variotronic<sup>TM</sup> headland management, cruise control keys and engine speed; EPC operating module for rear power lift, PTO; the Varioterminal 7-B in smartphone look with real glass surface offers an excellent overview of all functions, intuitive menu navigation, touch and key control, as well as ISOBUS implement control.

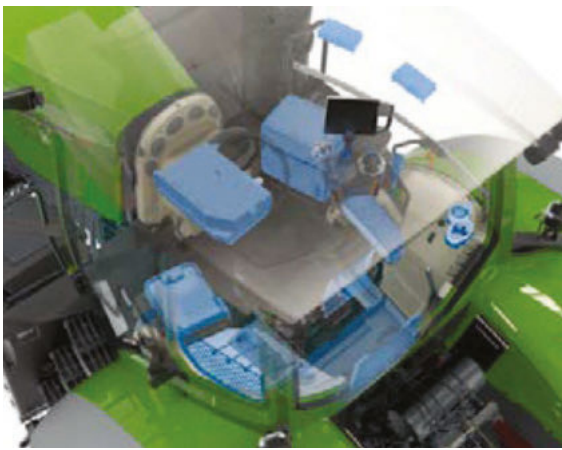
In the Profi configuration, all controls for the tractor are integrated in the multifunction armrest, which is attached to the seat: Varioterminal 10.4"; multi-function joystick with operating buttons for the 3rd and 4th Auxiliary control unit and Variotronic<sup>TM</sup> headland management, cruise control keys and engine speed; crossgate lever for the 1st and 2nd Additional control unit; EPC control module for front and rear power lift, PTO. Varioterminal 10.4" in smartphone look and real glass surface delivers a bright image with 800 x 600 pixels and 16 million colours. You can control all the tractor and implement functions with the touchscreen or keys. Furthermore, it has two camera inputs, a quarter and full-screen view and is backlit by LEDs in day and night mode.



The 4-fold bearing, pneumatic comfort cab suspension with integral level control reduces vibrations to a minimum.



The mechanical cab suspension rests on two conical bearings at the front and on two mechanical spring elements at the rear.



The Life Cab is a Meisterwerk in terms of storage options: Up to 18 storage points, from a bottle holder for several large bottles, to a large storage compartment in the roof liner, up to the cooling compartment and several document compartments behind the driver seat and on the sides.



The integral cable lead-through permits clean cable routing with closed rear window, protects against dirt, water and noise. No cable spaghetti: All cables are fixed in the cable guide in the C-pillar.



Like every Fendt, the Fendt 1000 Vario also makes the working day easier through small, practical details like the automatic blinker reset: the tractor blinks automatically until the turn has been completed.



With the external valve controls, you can actuate the rear power lift, a valve and the PTO directly on the rear mudguards.

POWER LIFT AND HYDRAULICS

Simpler rear equipment, e.g. no rear power lift and PTO, however, still offer the complete portfolio of modular hitch systems, which can be exchanged according to need.

The self-closing valve flaps protect against contamination and enable one-handed coupling.

The front lift is perfectly integrated in the vehicle.



The Fendt 1000 Vario can be customised by upgrading or downgrading. The fully equipped rear area has all the connections and functions, such as Power Beyond, ISOBUS socket, rear return, PTO and rear power lift.



The Fendt 1000 Vario provides connections for up to seven control units, six at the rear and one in the front.



The DCUP couplings permit all hydraulic valves to be coupled under pressure on both sides. The pressure relief lever permits easy coupling.



Using the comfort ballast pickup, front weights can be picked up quickly and easily, even without front linkage.



The Fendt 1000 Vario offers a flanged axle or an axle stub variant to meet different requirements.



For non-European standards, the rear can also be equipped with rub blocks and a quick hitch frame. Optionally, the Fendt 1000 Vario can be fitted with a 60" track.

ACCESSIBILITY AND  
BOTTOM HITCHES



Maintenance activities, such as checking the oil level or changing the filter, a performed quickly and easily on the Fendt 1000 Vario. The engine compartment is especially easy to access thanks to the removable side panels.



The cab is cleaned quickly: The driver seats (super comfort seat Evolution) have a practical connection for a compressed air hose, which can be used to clean the cab.



The cab filter is easily accessible in the door area and can be easily cleaned when necessary.



The Fendt 1000 Vario has highly-flexible ballast options. A range of front weights from 870 kg to max. 3300 kg are available, as well as wheel weights from 2 x 650 kg each up to 2 x 1250 kg.

Piton Fix is available in standard and heavy-duty versions.



The pull-out Cat. 4 drawbar with 50 pins can be adjusted in length.

Hitch permits fast and easy hitching.

The ball-type coupling including forced steering left and right allows the trailer to be steered actively.

FENDT 1000 VARIO

Equipment variants.

|                                                      | PowerPlus | Profi | ProfiPlus |
|------------------------------------------------------|-----------|-------|-----------|
| Engine                                               |           |       |           |
| Fuel pre-filter (heated)                             | □         | □     | □         |
| Preheater unit (engine, transmission, hydraulic oil) | □         | □     | □         |
| Exhaust brake                                        | □         | □     | □         |

|                                        |   |   |   |
|----------------------------------------|---|---|---|
| Transmission                           |   |   |   |
| Shuttle function, stop-and-go function | ■ | ■ | ■ |
| Acoustic signal when reversing         | □ | □ | □ |

|                                                                                                            |   |   |   |
|------------------------------------------------------------------------------------------------------------|---|---|---|
| Vario operation                                                                                            |   |   |   |
| Speed control lever with cruise control and engine speed memory, automatic modes                           | ■ |   |   |
| Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics |   | ■ | ■ |
| Varioterminal 7" with touchscreen and key control                                                          | ■ | ■ |   |
| Varioterminal 10.4" with touchscreen and key control                                                       |   | □ |   |
| Variotronic implement control for ISOBUS                                                                   | ■ | ■ | ■ |
| Variotronic <sup>1</sup> - Headland Management System                                                      | ■ | ■ | ■ |
| ready for automatic steering system                                                                        | ■ |   | ■ |
| Guidance system VarioGuide NovAtel / Trimble                                                               | □ |   | □ |
| VarioDoc - documentation system (only with Varioterminal 10.4")                                            |   | □ | ■ |
| VarioDoc Pro - documentation system                                                                        |   | □ | □ |
| SectionControl                                                                                             |   |   | □ |
| VariableRateControl                                                                                        |   |   | □ |
| Electronic immobiliser                                                                                     | ■ | ■ | ■ |
| Without immobiliser                                                                                        | □ | □ | □ |

|                                                                           |   |   |   |
|---------------------------------------------------------------------------|---|---|---|
| Cab                                                                       |   |   |   |
| Mechanical cab suspension                                                 | ■ | ■ | ■ |
| Pneumatic cab suspension, 4-point with integral self-levelling            | □ | □ | □ |
| Super Comfort Seat, air sprung                                            | ■ | ■ | ■ |
| Super comfort seat Evolution dynamic / CA                                 | □ | □ | □ |
| Super Comfort Seat Evolution active DuMo leather/CA                       | □ | □ | □ |
| Super Comfort Seat Evolution dynamic DuMo/CA                              | □ | □ | □ |
| Super Comfort Seat Evolution dynamic DuMo leather / CA                    | □ | □ | □ |
| Comfort instructor seat                                                   | ■ | ■ | ■ |
| Integrated automatic climate control                                      | ■ | ■ | ■ |
| Front windscreen laminated safety glass, heated                           | □ | □ | □ |
| Rear window heated                                                        | □ | □ | □ |
| 300°-front windscreen wipers (with continuous windscreen)                 | ■ | ■ | ■ |
| Rear window wash/wipe                                                     | □ | □ | □ |
| Side window wash/wipe system right                                        | □ | □ | □ |
| Ext. rearview mirror, electrically adjustable + wide angle + contour lamp | ■ | ■ | ■ |
| Radio CD MP3                                                              | □ | □ | □ |
| Radio CD MP3 hands-free speaking system                                   | □ | □ | □ |
| EC tachograph standard                                                    | □ | □ | □ |
| Fendt Reaction steering system                                            | ■ | ■ | ■ |
| Radar sensor                                                              | □ | □ | □ |
| Reverse drive control                                                     | □ | □ | □ |
| Cool box                                                                  | □ | □ | □ |

|                                                          | PowerPlus | Profi | ProfiPlus |
|----------------------------------------------------------|-----------|-------|-----------|
| Chassis                                                  |           |       |           |
| FSC Fendt Stability Control                              | □         | □     | □         |
| Single wheel suspension front axle                       | ■         | ■     | ■         |
| Pneumatic high-speed dual-circuit braking system 1 pedal | ■         | ■     | ■         |
| Electro-pneumatic handbrake                              | ■         | ■     | ■         |
| Electro-pneumatic handbrake (handbrake assist)           | □         | □     | □         |
| Automatic trailer steering axle lock                     | □         | □     | □         |
| VarioGrip tyre pressure regulation system                | □         | □     | □         |
| Grip Assistant                                           | ■         | ■     | ■         |

|                                                                             |   |   |   |
|-----------------------------------------------------------------------------|---|---|---|
| 4WD                                                                         |   |   |   |
| Rear / front differential with 100% disc locking and steering angle sensors | ■ | ■ | ■ |

|                                                                       |   |   |   |
|-----------------------------------------------------------------------|---|---|---|
| Power lift                                                            |   |   |   |
| Tractive power and stepless mixed control                             | ■ |   | ■ |
| Clearance, position control                                           | ■ | ■ | ■ |
| Sa front power lift, with external control (separate valve)           | □ | □ | □ |
| Comfort front power lift da, with position control, external controls | □ | □ | □ |
| Electrohydraulic power lift da (EHR), with external controls          | □ | □ | □ |
| Lower link tail arrester cat. 4                                       | □ | □ | □ |

|                                          |   |   |   |
|------------------------------------------|---|---|---|
| PTO                                      |   |   |   |
| Rear: Flanged PTO 1,000/1.000E/1,300 rpm | □ | □ | □ |
| External controls for rear PTO           | □ | □ | □ |

|                                                               |   |   |   |
|---------------------------------------------------------------|---|---|---|
| Hydraulics                                                    |   |   |   |
| External control for hydraulic control unit at rear           | ■ | ■ | ■ |
| Load sensing system with axial piston pump (165 l/min)        | ■ | ■ | ■ |
| Load sensing system with axial piston pump (220 l/min)        | □ | □ | □ |
| Load sensing system with 2 axial piston pumps (220+210 l/min) |   | □ | □ |
| Hydraulic power beyond connection                             |   | □ | □ |
| Return rear                                                   | ■ | ■ | ■ |
| Unpressurised rear return flow                                | □ | □ | □ |
| FFC flat-gasket rear hydraulic couplings                      |   | □ | □ |
| Double connect-under-pressure lever couplings rear            | ■ | ■ | ■ |
| Bio hydraulic oil                                             | □ | □ | □ |

|                                                                            |   |   |   |
|----------------------------------------------------------------------------|---|---|---|
| Additional equipment                                                       |   |   |   |
| Automatic trailer hitch with remote control, rear                          | ■ | ■ | ■ |
| Ball coupling, height adjustable                                           | □ | □ | □ |
| Ball coupling, short, in the bottom hitch                                  | □ | □ | □ |
| Ball coupling, long, in the bottom hitch                                   | □ | □ | □ |
| Hitch                                                                      | □ | □ | □ |
| Drawbar                                                                    | ■ | ■ | ■ |
| Piton-fix                                                                  | □ | □ | □ |
| Comfort ballast for front-end weight (not available with front power lift) | ■ | ■ | ■ |
| Wheel weights, rear wheels                                                 | □ | □ | □ |
| Forced steering (one or two-sided)                                         | □ | □ | □ |
| Wide vehicle marker                                                        | □ | □ | □ |
| ABS trailer sockets                                                        | □ | □ | □ |

FENDT 1000 VARIO

Technical Specifications.



|                                                    |        | 1038 Vario  | 1042 Vario  | 1046 Vario  | 1050 Vario  |
|----------------------------------------------------|--------|-------------|-------------|-------------|-------------|
| Engine                                             |        |             |             |             |             |
| Rated power ECE R 120                              | kW/hp  | 291/396     | 320/435     | 350/476     | 380/517     |
| Maximum power ECE R 120                            | kW/hp  | 291/396     | 320/435     | 350/476     | 380/517     |
| Constant power ECE R 120 from 1500 rpm to 1700 rpm | kW/hp  | 291/396     | 320/435     | 350/476     | 380/517     |
| No. of cylinders                                   | Number | 6           | 6           | 6           | 6           |
| Cylinder bore/stroke                               | mm     | 126/166     | 126/166     | 126/166     | 126/166     |
| Cubic capacity                                     | cm³    | 12419       | 12419       | 12419       | 12419       |
| Rated speed                                        | rpm    | 1700        | 1700        | 1700        | 1700        |
| Max. torque at 1100-1500 rpm                       | Nm     | 1910        | 2108        | 2305        | 2420        |
| Torque rise                                        | %      | 17.0        | 17.0        | 17.0        | 13.0        |
| Fuel level                                         | litres | 800.0       | 800.0       | 800.0       | 800.0       |
| AdBlue tank                                        | litres | 85.0        | 85.0        | 85.0        | 85.0        |
| Constant power range                               | rpm    | 1500 - 1700 | 1500 - 1700 | 1500 - 1700 | 1500 - 1700 |

Transmission and PTO

|                     |      |                 |                 |                 |                 |
|---------------------|------|-----------------|-----------------|-----------------|-----------------|
| Transmission type   |      | TA 400          | TA 400          | TA 400          | TA 400          |
| Speed range forward | km/h | 0,02-60         | 0,02-60         | 0,02-60         | 0,02-60         |
| Speed range reverse | km/h | 0,02-33         | 0,02-33         | 0,02-33         | 0,02-33         |
| Top speed           | km/h | 60              | 60              | 60              | 60              |
| Rear PTO optional   |      | 1000/1000E/1300 | 1000/1000E/1300 | 1000/1000E/1300 | 1000/1000E/1300 |

Power lift and hydraulics

|                                                    |        |         |         |         |         |
|----------------------------------------------------|--------|---------|---------|---------|---------|
| Variable flow pump                                 | l/min  | 165     | 165     | 165     | 165     |
| Variable flow pump option 1                        | l/min  | 220     | 220     | 220     | 220     |
| Variable flow pump option 2                        | l/min  | 220+210 | 220+210 | 220+210 | 220+210 |
| Working pressure / control pressure                | bar    | 200     | 200     | 200     | 200     |
| Max. valves (front/centre/rear) Power Plus         | Number | 1/0/6   | 1/0/6   | 1/0/6   | 1/0/6   |
| Max. valves (front/centre/rear) Profi / Profi Plus | Number | 1/0/6   | 1/0/6   | 1/0/6   | 1/0/6   |
| Max. available hydraulic oil volume                | litres | 100     | 100     | 100     | 100     |
| Max. lift capacity of rear power lift              | daN    | 12920   | 12920   | 12920   | 12920   |
| Max. lift capacity of front power lift             | daN    | 5584    | 5584    | 5584    | 5584    |

Tyres

|                         |  |           |           |           |           |
|-------------------------|--|-----------|-----------|-----------|-----------|
| Front tyres (standard)  |  | 650/65R34 | 650/65R38 | 650/65R38 | 650/65R38 |
| Standard tyres rear     |  | 710/75R42 | 750/75R46 | 750/75R46 | 750/75R46 |
| 1. Optional front tyres |  | 650/65R38 | 710/60R38 | 710/60R38 | 710/60R38 |
| 1. Optional rear tyres  |  | 750/75R46 | 900/65R46 | 900/65R46 | 900/65R46 |

Dimensions

|                                                           |    |      |      |      |      |
|-----------------------------------------------------------|----|------|------|------|------|
| Front track width (standard tyres)                        | mm | 2100 | 2100 | 2100 | 2100 |
| Rear track width (standard tyres)                         | mm | 2000 | 2000 | 2000 | 2000 |
| Overall width with standard tyres                         | mm | 2750 | 2750 | 2750 | 2750 |
| Overall length                                            | mm | 6350 | 6350 | 6350 | 6350 |
| Overall cab height with standard tyres without VarioGuide | mm | 3470 | 3570 | 3570 | 3570 |
| Overall cab height with standard tyres with VarioGuide    | mm | 3506 | 3606 | 3606 | 3606 |
| Max. ground clearance                                     | mm | 600  | 600  | 600  | 600  |
| Wheelbase                                                 | mm | 3300 | 3300 | 3300 | 3300 |

Weights

|                                                                                            |    |         |         |         |         |
|--------------------------------------------------------------------------------------------|----|---------|---------|---------|---------|
| Unladen weight (base tractor with cab - full tanks, without driver)                        | kg | 14000.0 | 14000.0 | 14000.0 | 14000.0 |
| Max. permissible overall weight up to 40 km/h country-specific exception approval required | kg | 23000.0 | 23000.0 | 23000.0 | 23000.0 |
| Max. permissible overall weight up to 50 km/h country-specific exception approval required | kg | 21000.0 | 21000.0 | 21000.0 | 21000.0 |
| Max. permissible overall weight up to 60km/h                                               | kg | 18000.0 | 18000.0 | 18000.0 | 18000.0 |
| Max. trailer hitch load                                                                    | kg | 2000.0  | 2000.0  | 2000.0  | 2000.0  |

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What is the Fendt one-terminal concept?

Just one terminal means: Whether vehicle control, ISOBUS implement control, automated guidance via VarioGuide, documentation with VarioDoc, camera functions or various help functions – at Fendt everything is done easily using a terminal, the Fendt Varioterminal. Only one terminal also means that at Fendt, control is consistent and logical. Regardless of whether you drive a Fendt Vario, Fendt combine harvester or a Fendt Katana, you will see that you'll find your way around immediately and will feel at home on all Fendt machines.

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