

# FENDT

Fendt 1000 Vario





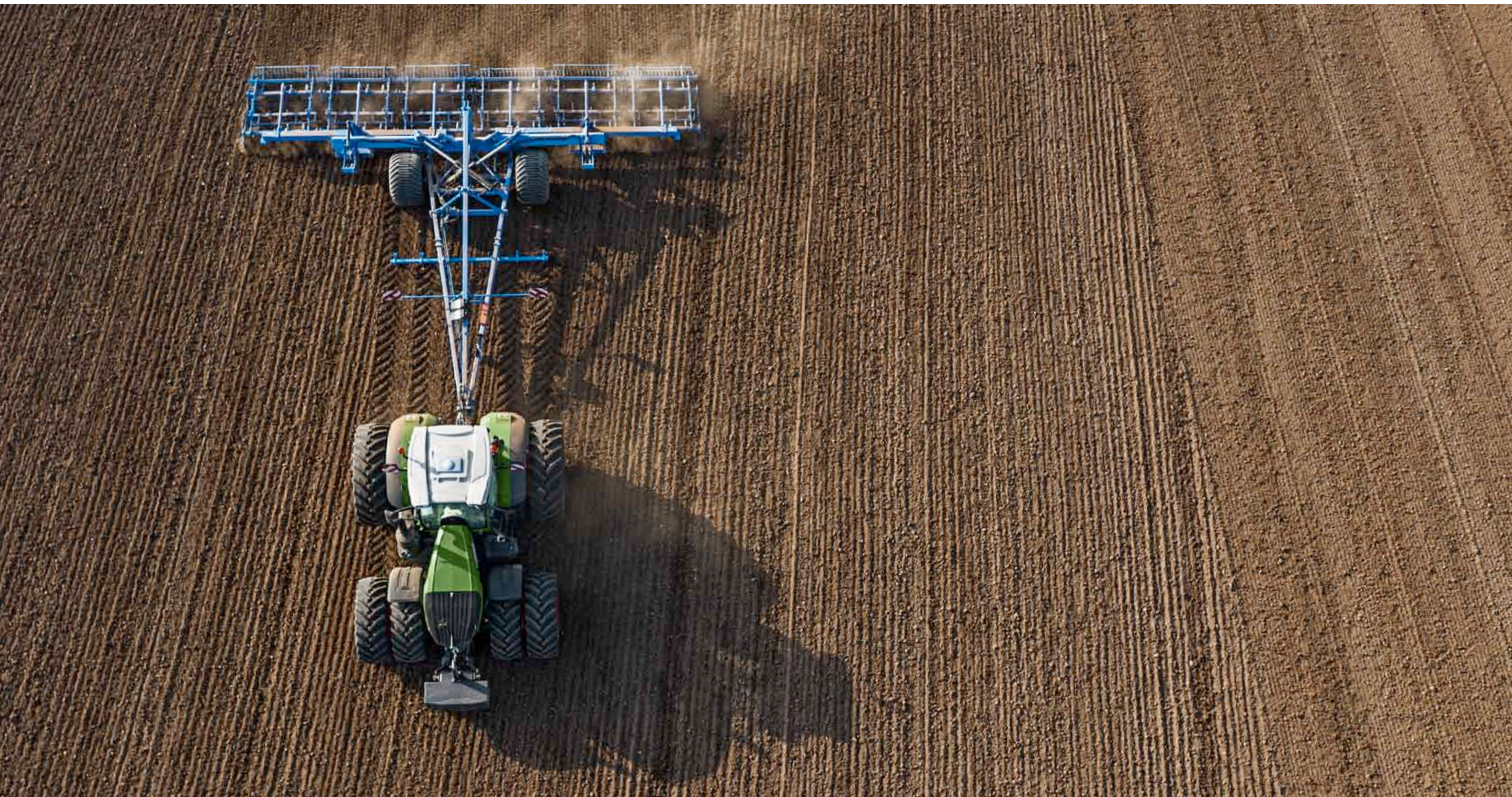


Watch the Fendt 1000 Vario film now.  
[www.fendt.com/1000-film](http://www.fendt.com/1000-film)

## 500 hp for your daily Meisterwerk. Fendt 1000 Vario.

Big. Strong. Unique. A German Meisterwerk. Teamed up with leading-edge Fendt technology, a German Meisterwerk. Experience true strength, full traction, masterful controls and intelligent connectivity with the new Fendt 1000 Vario. German Meisterwerk.





## The Number One for heavy draft work.

The Fendt 1000 Vario puts its power to work. 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 not only powerful for draft work alone.



**Most powerful standard tractor with the highest modularity**

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

- New power segment 380 – 500 hp
- 14 t unladen weight for up to 21 t permissible overall weight at 40/50 km/h\*
- 60 inch (1.5 m) track-capable\*\*
- Fully roadworthy up to 60 km/h\*
- Optional rear PTO 1000, 1000E and 1300
- Optional rear linkage
- All hitch systems in modular design
- Optional reversing driver station

\* Value depends on country-specific, legal regulations

\*\* Depends on country variant



**Maximum performance 365 days a year**

All components, from the engine to the transmission and up to the fan and hydraulics, were designed especially for enduring power during demanding operations and have been coordinated for high power transmission with the lowest consumption. With all its strengths, the Fendt 1000 Vario also convinces through its high manoeuvrability, low vehicle weight and 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 Meisterwerk



## FENDT iD LOW ENGINE SPEED CONCEPT

# High power – low fuel consumption Fendt iD.

Those who drive a Fendt 1000 Vario no longer have to bother themselves with the best engine speed ranges. They are always automatically ideal.

### Low engine speed concept Fendt iD

The Fendt 1000 Vario always runs in 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 principle under which all vehicle components, such as the engine, transmission, fan, hydraulics and all consumers, were designed for ideal speeds.

### 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 in the Fendt 1050 Vario already delivers an impressive 2400 Nm of torque at 1100 rpm.

### The way Fendt iD works

The entire drive train of the Fendt 1000 Vario works at an economic optimum. The high-capacity engines with VTG turbocharger unfold their enormous power potential efficiently at low engine speeds. The transmission and variable four-wheel drive ensure ideal power distribution within the optimal consumption range. The Concentric Air System (CAS) cooling concept, with high performance fan, cools all heat exchangers according to need and boosts overall efficiency. All consumers, such as the air-conditioning, air compressor or alternator, are coordinated for low wear through low engine speeds.





THE ENGINE OF THE FENDT 1000 VARIO

Meister for heavy draft work

The new high-horsepower tractor is powered by a strong engine, which delivers power dynamically at low engine speeds and has a big impact on large operations. The operating costs remain low.

380 to 500 hp

It is powered by the highly efficient MAN six-cylinder engine. With a 12.4-litre displacement, it already has a high torque in the low engine speed range: for the Fendt 1050 Vario, the maximum torque of 2400 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 high SCR technology reduces nitrogen oxides especially efficiently in combination with the external, cooled exhaust gas recirculation AGReX. 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 need-based control of AdBlue injection.

Turbo efficiency

The engine, which has been time-tested in the commercial vehicle sector, was tuned for the load spectrum required for heavy field operations with a high full load. Charging is taken care of by the VTG turbocharger and already results in high torques at low engine speeds. The low engine noise level and exhaust brake through the VTG, which is gentle on the brakes and minimises wear, make work pleasant.

Unique cooling system

Efficient cooling when hot, provided by the specially developed fan and the Concentric Air System (CAS) cooling concept. A new high performance fan located in front of the cooler unit, sucks in cold, dense air, accelerates it over the concentrically formed hood and presses it through the radiator. 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. As a reversible fan, the CAS can blow the cooler grille free of accumulated dirt. The fan is tilted upwards, which prevents harvesting residue from being sucked up from the ground.

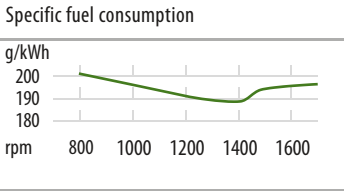
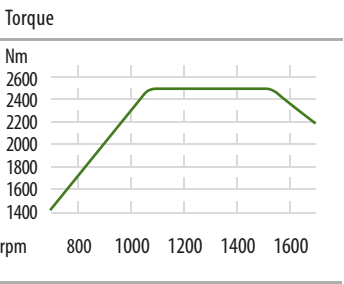
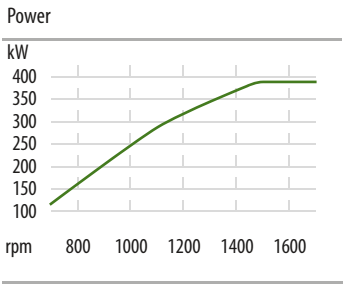


The 12.4 I MAN engine with common rail reaches a high injection pressure of 1800 bar and is therefore very efficient.

Thanks to the minimised fan speeds and precise manufacturing with small gap tolerances, the CAS achieves a high cooling capacity paired with an especially low noise level.



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





## FENDT VARIO DRIVE – THE NEW DRIVE TRAIN

# Drives your success – at full power

The stepless Vario transmission has been setting worldwide standards in tractor drives for more than 20 years. Now a newly developed, comprehensive drive train with variable four-wheel drive takes the Fendt 1000 Vario to the top.

### From Vario to VarioDrive

Fendt Vario means stepless, dynamic driving with plenty of pulling power for speeds from 0.02 to 60 km/h. The new drive on the Fendt 1000 Vario was specifically developed to exploit the high engine power in any situation, independent of ground conditions, and to keep speeds especially low. The solution: Fendt VarioDrive – the first drive train that drives both axles independently.

### 500 hp with variable four-wheel drive

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 distributed over two transmission outputs independently on both axles. With the help of an intelligently controlled four-wheel clutch, torque can be shifted between the axles according to need, Fendt Torque Distribution.

### Meisterwerk with grip

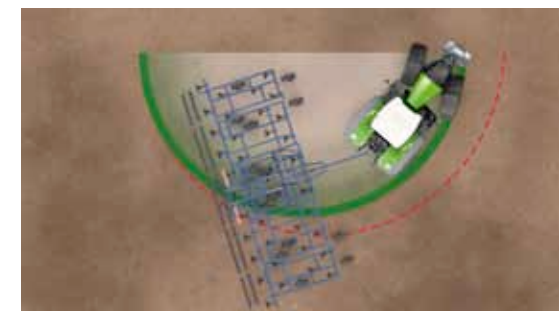
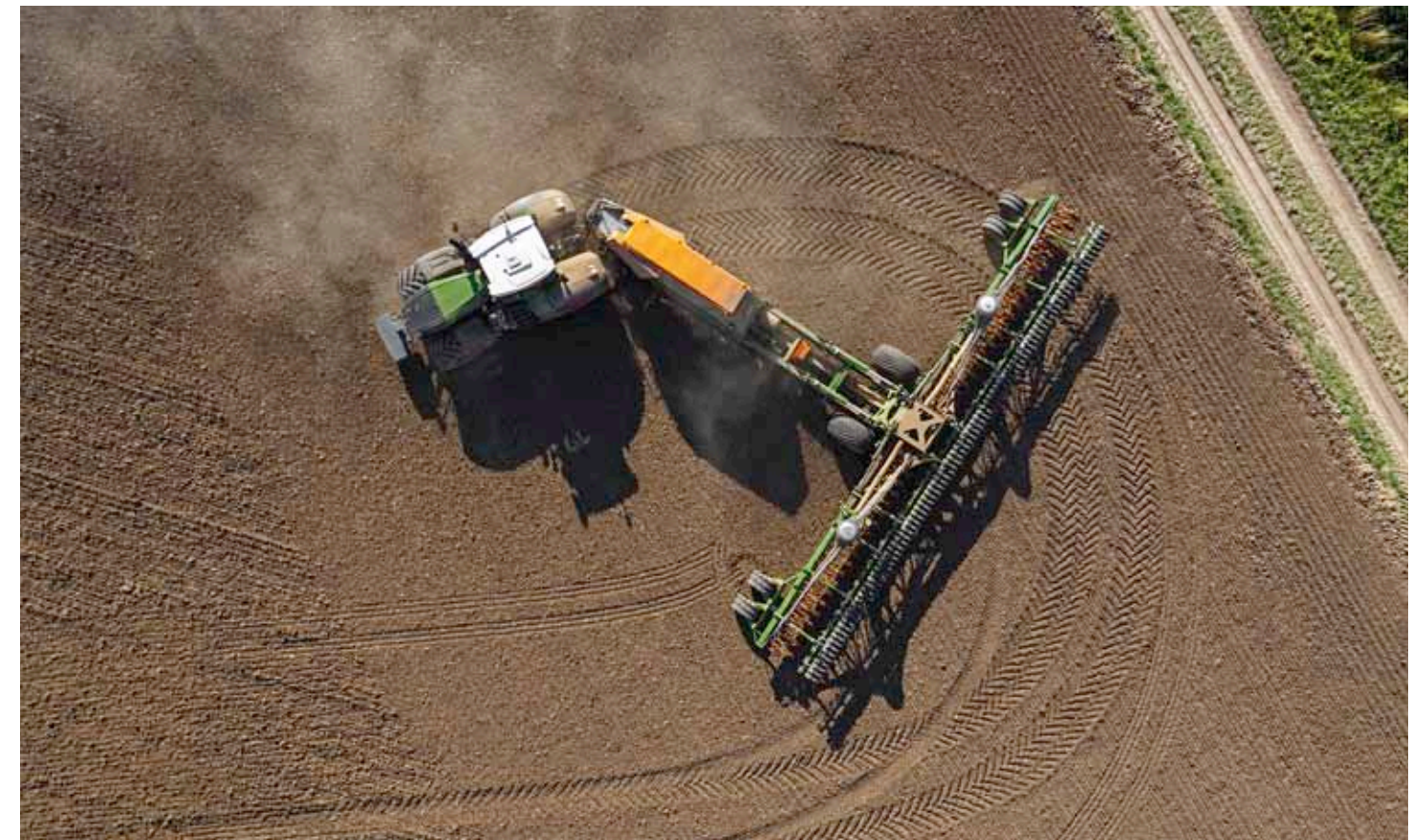
During field operations, torque is transferred flexibly to the axle. The result is tremendous pulling power. As the speed increases, a clutch completely decouples the front axle drive at approx. 25 km/h – this eliminates drag losses in the drive train and increases efficiency.

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

Since there is no fixed drive ratio with the variable four-wheel drive, the front wheel drive can actively pull the tractor into the curve – this is the so-called “pull-in turn” effect. This effect alone reduces the turning circle in the field by up to 10 percent. VarioDrive minimises the otherwise usual tyre wear on the front tyres that is caused by cornering on firm substrates (specifications turning radius for standard tyres).



New, larger high-capacity hydrostats with 370 cm<sup>3</sup> ensure very high transmission efficiency



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



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



## THE HYDRAULICS FOR THE FENDT 1000 VARIO

# Everything flows

With its modular hydraulic system for all coupling sizes, the Fendt 1000 Vario can operate countless implements. It delivers the perfect oil pressure and oil flow for several consumers at a time.

### Versatile coupling system

The Fendt 1000 Vario already has a high hydraulic capacity of 165 l/min and 140 l/min in the basic equipment level. The flexible coupling housing permits use with different coupling sizes: ½", ¾" and 1" FFC (Flat Face Coupling). The third and fourth control unit, in combination with ¾" and 1" FFC couplings, can be supplied with a flow volume of up to 170 l/min. All coupling connections are leichtgängig and can be coupled under pressure on both sides (DCUP).

### 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, it provides all the advantages of flat face couplings: a large diameter of ¾ inch for more flow, leakage-free coupling, higher efficiency through lower pressure losses, simple cleaning and a longer life through reduced contamination. All valves have a breakaway function without pressure loss.

### Twice as strong

In addition to load-sensing pumps with a delivery rate of 165 l/min or 220 l/m, the Fendt 1000 Vario can come up with 430 l/min for especially high demands with the high-capacity hydraulics. There are two independent circuits: one pump delivers 220 l and a second pump 210 l. This way two control pumps supply several oil consumers at a time – and can be controlled with up to six da valves at the rear and one da valve in the front.

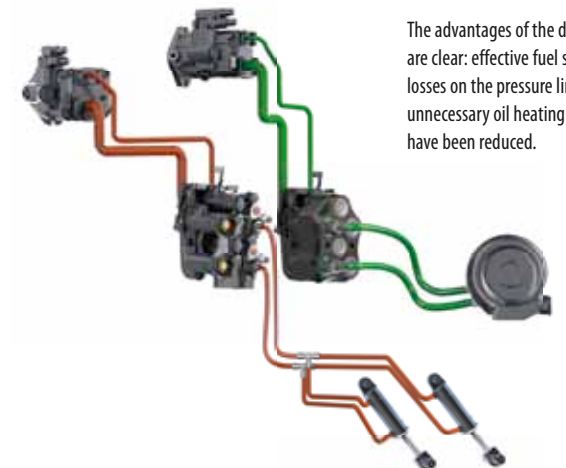
### Oil flow according to need

Both control pumps supply the respective consumers with the ideal oil volume and the right oil pressure through their own oil circuit. A blower on a pneumatic seed drill, for example, requires a high flow but low pressure, whereas the rest of the consumers, such as the steering, linkage, chassis or markers, demand a high oil pressure with a low flow rate at the same time on the second circuit.

Depending on need, the exchangeable screw-in couplings are simply screwed into the block and can be exchanged quickly for different implements.



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



The advantages of the dual-circuit hydraulics are clear: effective fuel savings since throttle losses on the pressure limiting valve, and the unnecessary oil heating associated with them, have been reduced.





Take a 360° look inside the Fendt Life Cab and experience the exceptional all-round visibility. [www.fendt.com/LifeCab](http://www.fendt.com/LifeCab)

## FENDT LIFE CAB

# Comfort leads to success.

The cab on the Fendt 1000 Vario is the place for all drivers, who want to achieve high performance with their tractor and still remain relaxed.

### 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. This already becomes apparent when first entering the cab of the Fendt 1000 Vario, because the newly designed Life Cab combines the highest grade materials with the tried and tested arrangement and practicality of all elements. The new experience of space and sight is complemented by the many small things that make daily work more pleasant.

### Field work with comfort factor

The Fendt 1000 Vario already makes climbing up into the cab easy: wide steps with side lighting lead upwards. All the hand grips are intuitively and correctly placed. The soft touch surface of the interior panelling creates a pleasant atmosphere and is resistant against dirt and dampens noise. The new comfort seats are real eye-catchers with their black leather cover for both the driver 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 always has in full view through the large windows. The new design of the cab offers up to ten percent more visible area than the previous Fendt high-horsepower tractor cabs. The roller shades integrated in the roof on the front, rear and right side window, offer sun protection and are pulled into place with one hand movement. Free visibility, even when it rains: in addition to the 300° wiper for the front, a 220° wiper including spray nozzle is also fitted on the right-hand 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 clamps for papers. The reversing driver station is ideal for milling or chopping operations, where the entire driver station, including all operating elements is simply turned 180°, quickly and easily.

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



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



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 the best quality: the flexible swan neck microphone keeps both hands free and the acoustics are perfect.





Discover the new Variotronic in the  
Fendt 1000 Vario now.  
[www.fendt.com/precision](http://www.fendt.com/precision)

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



## THE NEW VARIOTRONIC IN THE FENDT 1000 VARIO

# New paths for a higher yield: Connected precision farming

### Fendt Variotronic like never before

The Fendt 1000 Vario is equipped with the latest software solutions that work together ideally and perfect the individual work steps to an overall Meisterwerk.

Starting from the new, open-system guidance system up to the variable application rate, Fendt Variotronic solutions cover your entire work day – and night. The focus here is always on ease of operation and the absolute reliability of all the systems.

### The new Fendt VarioGuide guidance system

With Fendt VarioGuide you can drive reliably and accurately without actively steering, even in difficult reception conditions. With the new version of Fendt VarioGuide, you can choose from the GNSS receiver NovAtel® or Trimble®. A number of correction signals are supported, depending on the receiver, for example, EGNOS/WAAS or also RangePointd™ RTX, Centerpoint™ RTX™, Ntrip. Existing Trimble® RTK infrastructures, such as NTRIP can continue to be used. Even without a correction signal, VarioGuide works reliably for up to 20 minutes with RTK accuracy via Trimble® xFill™ technology.

### 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 are set precisely from the very beginning, which automatically results in economical application.

### Documentation and variable application rate with VarioDoc and VRC

The new solution for precision farming, variable rate control function (VRC), is now available in combination with VarioDoc Pro. The need for operating inputs, such as seeds, fertiliser or pesticides, is shown on application maps, which can be called up during operation and automatically executed. The big advantage: operating inputs can be defined and planned in the field database and then applied with utmost precision.



The operating elements on the right-hand armrest – the 4-in-1 Varioterminal, multi-function joystick, crossgate lever, EPC power lift module, valve operation and membrane keypad – have a well-balanced overall design and form an ergonomic command centre where everything is under control.



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



You can control ISOBUS-capable implements via Variotronic implement control directly per joystick or Varioterminal



## Connectivity that adds more value

You can plan and control your fleet for optimal utilisation using the AgCommand™ telemetry system. With Fuse Connected Services, you can increase the operating time of your machines through service and maintenance offerings per remote access.

### Efficient from tractor to fleet

The operating strength of your fleet is optimised as soon as the machines are connected meaningfully with each other. The latest interfaces and software solutions already allow the machine data to be called up independent of location and immediately react accordingly. This way you can increase the reaction and operating times of your entire fleet at the push of a button. Control additional services via remote access, achieve higher machine utilisation.

### AgCommand™ fleet management

The AGCO telemetry system AgCommand™ transfers important machine data in near real-time for active fleet management. Significant here are primarily the fuel consumption, speed, operating hour counter, engine speed, torque requirement, PTO speed and outside temperature. Based on this data, the settings can be adjusted and optimised during operation and further measures can be planned in advance.

### The new value of connection – Fuse Connected Services

The Fendt 1000 Vario opens a new world – for performance and operating times. It sets the starting point for new connection technologies, to increase efficiency and machine availability. United under the name Fuse Connected Services, the machine management, technology, services, diagnostics and consultation complement each other to optimise operations. The AGCO Connectivity Module (ACM), the integral telemetry unit for the entire data transfer, forms the interface between the tractor and Fendt service partner.

Fuse Connected Services permits connection to your Fendt service partner to minimise downtime.



AgCommand™'s open API interface allows telemetry portals from other manufacturers to be incorporated, e.g. Trimble Connected Farm. Communication between AgCommand™ and the machines is carried out via the normal GSM mobile network or, if not available, via Iridium satellite radio.

**FUSE**  
Connected Services



FENDT VALUE ADDED SERVICES

# Service has arrived at the future

That means economy, operational reliability and retention of value that you can count on. In short: Fendt 1000 Vario.

**A sure calculation**

The added value of an investment becomes apparent in the relation between yield and overall operating costs. Transparency, planning reliability and a higher yield count here. That is why the unbeatable performance of the Fendt 1000 Vario is accompanied by a comprehensive service package:

- Connected Premium Services to guarantee a sustainable return on investment
- Tailored financing models (Fendt StarService financing)
- Transparent and flexible rental models (Fendt StarService rentals)
- Calculable operating costs through economic consumption, high uptime, higher performance
- Clear cost reduction, for example, through longer maintenance intervals of up to 2,000 operating hours

**Quality for maximum reliability**

We are proud of the long lifetime of our machines. It is the best proof for quality, on which we are continually working. Your tractor's retention of value begins with the use of the best components, first-class workmanship and strict quality testing. Because we trust our high quality standards, we offer a extended warranty of up to three years on all parts for our maintenance contract. Retention of value also includes the latest software, which is updated for free every time the machine is serviced.

**Maintenance without waiting – Fuse Connected Services**

With the comprehensive fault diagnostics, trouble-shooting and maintenance via terminal remote access, you can address problems with the Fendt 1000 Vario before they happen. For example, your certified Fendt dealer can upload software updates, with your approval, as part of the Fuse Connected Services. Preventative diagnostics, monitoring of the machine state as well as ad-hoc consultation and training improve running operations, no matter where the tractor is working.

With Fuse Connected Service, you can call up the diverse consultation and service features offered by your Fendt dealer directly over the Varioterminal on your tractor. This way you can increase uptime during operation.



An up-to-date tractor always has the highest value. At Fendt, you get the latest software update for your Fendt for free when you go in for servicing.







Discover everything about the perfect grip.  
[www.fendt.com/Grip](http://www.fendt.com/Grip)

## FENDT VARIODRIVE – THE DRIVE

# The success factor for grip

The higher the traction, the better the tractor transfers power to the ground. The result is high efficiency and less soil compaction. All of this already begins in the drive train.

### VarioDrive drive train – a master in power distribution

The new type of driveline design enables ideal torque distribution on the front and rear wheels for optimal traction and pulling power. The drive unit is based on a hydraulic pump and two hydraulic motors. The first hydraulic motor supplies the rear axle with torque via hydrostatic-mechanical power splitting, continuously from 0 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 effect on traction and therefore pulling 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 pressures, you can achieve up to 10% more pulling power and cover up to 8% more area with up to 8% lower fuel consumption\*.

\*Test results South Westphalia University of Applied Sciences, 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.

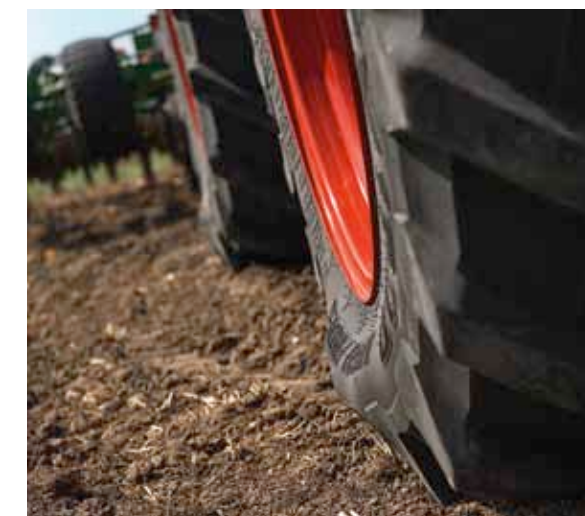
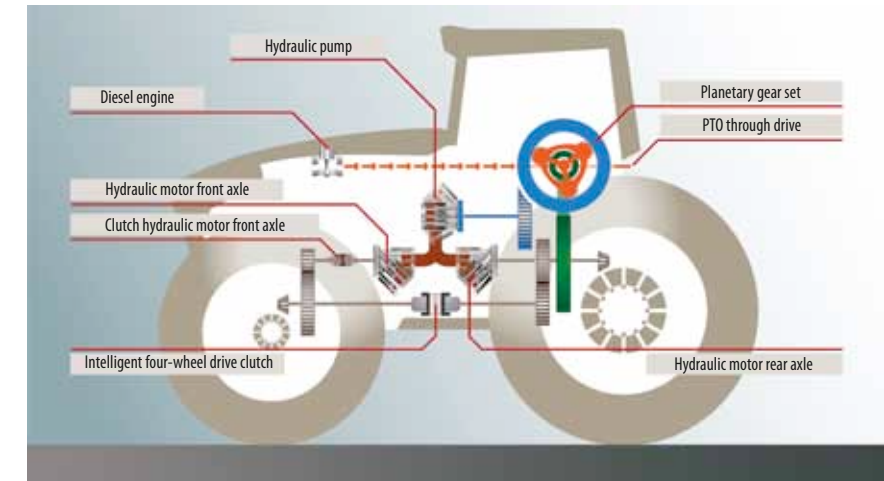
Front axle with self-levelling independent wheel suspension and single wheel brake



### 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 best pulling power. Ride comfort and safety also are maintained at transport speeds 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.

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.

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 tyre pressure for a defined ballast.



## ADDED VALUE THROUGH ASSISTANCE SYSTEMS

# Assistants for reliability

The special thing about Fendt assistance systems: you do not even notice them, because they make all operations easier and safer.

### Engine-transmission assistants

The Tractor Management System (TMS) automatically adjusts for ideal engine and transmission coordination. The TMS controls the engine speed and transmission settings automatically, independent of the speed, so the tractor is always moving at an economic optimum, 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) ensures additional stability and precise steering when driving on the road from 20 km/h and up. When coming out of a curve, the Fendt Reaction steering system automatically switches over 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 that you would not want to do without: 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 remains standing safely, even on slopes. The Deceleration Assistant, which automatically actuates the brake lights when decelerating more than  $1 \text{ m/s}^2$ , even before actively braking, provides additional safety. 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.

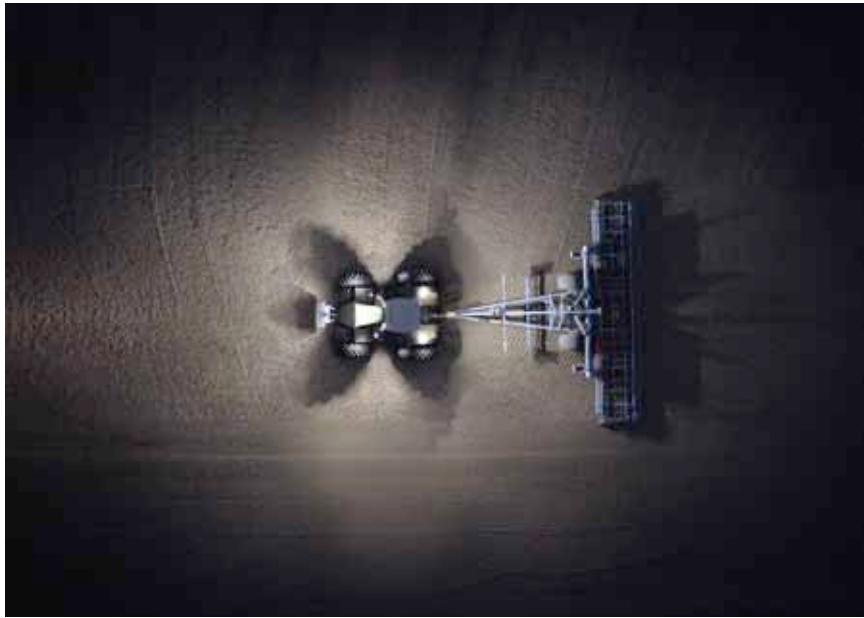


Thanks to the TMS tractor management system and automatic maximum output control 2.0, the tractor adapts the engine speed optimally to the driving speed.



LIGHTING

The Fendt 1000 Vario with a total of 45,860 Lumen of LED illuminating power, ensures the best performance at night. 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.



Test the illuminating power of the Fendt 1000 Vario.  
[www.fendt.com/lighting](http://www.fendt.com/lighting)



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



For the variant without daytime running lamps and work lights, the beautiful look of the trim is maintained.



The headlamp 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.



With the coming home function, the headlamps and the lights on the entrance 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.



When working 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 remains where it is. Despite the reversing driver station, passengers do not have to do without the comfort seat.

CAB



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



The new Dualmotion comfort seat Fendt Evolution with seat heater, climate control and Dualmotion swing-along backrest, is especially comfortable and ergonomic.



The new black leather version of the Dualmotion comfort seat with active suspension, the Fendt Evolution active, is especially classy and dirt-resistant – and always comes with a comfort passenger seat in leather.

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



For enhanced operating comfort, the cockpit swings parallel with the steering wheel.



With the aid of the interior rearview 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



Discover the numerous storage options.  
[www.fendt.com/shelves](http://www.fendt.com/shelves)



The multifunction armrest with Power equipment and Varioterminal 7-B; Power joystick with VarionicT1 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, an intuitive menu navigation, touch and key control as well as ISOBUS implement control.

In the Profi equipment level, the complete controls for the tractor are integrated in the multifunction armrest, which is attached to the seat: Varioterminal 10.4-B; multi-function joystick with keys for the 3rd and 4th auxiliary control unit and Variotronic<sup>11</sup> headland management, cruise control keys and engine speed; crossgate lever for the 1st and 2nd auxiliary control unit; EHR control module for front and rear linkage, PTO; the Varioterminal 10.4-B in smartphone look and real glass surface delivers a brilliant 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 Life Cab is a Meisterwerk in terms of storage options: up to 18 practical storage spaces have been integrated. 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 mechanical cab suspension rests on two conical bearings at the front and two mechanical spring elements at the rear.

4 bearings, pneumatic comfort cab suspension with integral level control reduces vibrations to a minimum.



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



Like every Fendt, the Fendt 1000 Vario also makes your workday easier through practical little functions like the automatic blinker reset: the tractor blinks automatically until the turn has been completed.



The external valve actuation allows you to control the rear power lift, one valve and the PTO directly on the rear mudguard.



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 for a 60-inch track.



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



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.



Simpler rear equipment, e.g. without rear linkage and PTO, however, still offers 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.



ACCESSIBILITY AND BOTTOM HITCHES



Discover the numerous hitch system.  
www.fendt.com/hitch



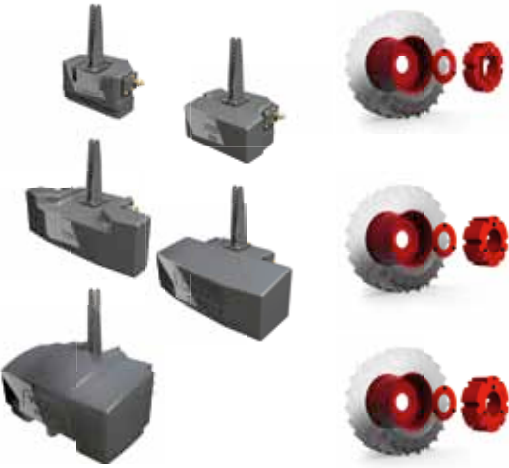
Maintenance activities, such as checking the oil level or changing the filter, are performed quickly and easily on the Fendt 1000 Vario. The engine compartment is especially easy to access thanks to the removable side panels.



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 well accessible in the entry area and can be easily cleaned, when necessary.



The Fendt 1000 Vario has highly flexible ballasting options. Diverse 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 drawbar Cat. 4 with 38 or 50 mm 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.


EQUIPMENT VARIANTS

Fendt 1000 Vario.  
So individual. Such a Meisterwerk.

	Standard and Optional Equipment standard: ■ optional: □	PowerPlus	Profi	ProfiPlus
Vario controls	Speed control lever with cruise control and engine speed memory, Automated functions	■		
	Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics		■	■
	Varioterminal 7-B with touch and key control	■	■	
	Varioterminal 10.4-B with touchscreen and key control		□	■
	Variotronic implement control for ISOBUS	■	■	■
	SectionControl			□
	Variotronic <sup>TM</sup> – headland management system	■	■	■
	Vario TMS – Tractor Management System	■	■	■
	VarioDoc – documentation system		□	■
	VarioDoc Pro – documentation system / AgCommand <sup>TM</sup> telemetry system			□
	VarioGuide automated steering system	□		□
Cab	Electronic immobiliser	■	■	■
	VarioActive steering			■
	Mechanical cab suspension	■	■	■
	Pneumatic cab suspension, 4-point with integral self-levelling	□	□	□
	Fendt Reaction steering system	■	■	■
	Reversing driver station for 2-way operation	□	□	□
	Height and tilt-adjustable steering column	■	■	■
	Super Comfort Seat, air sprung	■	■	■
	Super comfort seat Evolution dynamic / CA	□	□	□
	Dual motion comfort seat Evolution dynamic /DL	□	□	□
	Dual motion comfort seat Evolution act/DL/leather	□	□	□
	Comfort passenger seat	■	■	■
	Cab entrance steps wide	□	□	□
	Radio mounting kit with two stereo speakers	■	■	■
	Radio CD MP3 hands-free speaking system	□	□	□
	Integrated automatic climate control	■	■	■
	Active charcoal filter	□	□	□
	Front windscreen laminated safety glass, heated	□	□	□
	300° windscreen wiper front	■	■	■
	Rear window wash/wipe	□	□	□
	Roller shade rear	□	□	□
	Side window wash/wipe system right	□	□	□
	Roller shade right	□	□	□
	Ext. rearview mirror electrically adjustable	■	■	■
	Ext. rearview mirror, electrically adjustable + wide angle + position light	□	□	□
	Interior rearview mirror	■	■	■
	Roof work lights, 2 roof rear	■	■	■
	Roof work lights, 2 roof rear LED	□	□	□
	Roof work lights, 2 roof front 2 pairs	■	■	■
	Roof work lights, 2 roof front 2 pairs LED	□	□	□
	Work lights A-pillar, rear mudguard	□	□	□
	Work lights LED A-pillar, mudguard rear	□	□	□
	Work lights A-pillar	□	□	□
	Work lights LED A-pillar	□	□	□
	LED headlamps with headlamp levelling	□	□	□
	LED rear lights	□	□	□
	Work lights bonnet top incl. daytime running lamps	□	□	□
	Work lights bonnet top incl. daytime running lamps LED	□	□	□
	Third brake light	□	□	□
	Auxiliary lights front	■	■	■
	Bracket for auxiliary devices	□	□	□
	Air-conditioned cool box	■	■	■

	Standard and Optional Equipment standard: ■ optional: □	PowerPlus	Profi	ProfiPlus
Engine	Automatic maximum output control	■	■	■
	Reversible fan	□	□	□
	Fuel pre-filter	■	■	■
	Heated fuel prefilter	□	□	□
	Preheater package (engine, transmission, hydraulic oil)	□	□	□
	Exhaust brake	□	□	□
Transmission	Shuttle function, stop-and-go function	■	■	■
	Acoustic signal when reversing	□	□	□
Chassis	Single wheel suspension front axle	■	■	■
	Pneumatic high-speed dual-circuit braking system 1 pedal	■	■	■
	Pneumatic high-speed dual-circuit braking system 2 pedals and steering clutch brake	□	□	□
	Handbrake pneumatic	■	■	■
	Handbrake electro-pneumatic (handbrake assistant)	□	□	□
	FSC Fendt-Stability Control	□	□	□
	Compressed air system	■	■	■
	Automatic trailer steering axle lock	□	□	□
	VarioGrip tyre pressure regulation system	□	□	□
4WD	Grip Assistant	■	■	■
	Rear / front differential with power shift PTOs	■	■	■
	Rear: Flange PTO 1000/1000E rpm/1300rpm	□	□	□
Hydraulics	External controls for rear PTO	□	□	□
	Load sensing system with axial piston pump (165 l/min)	■	■	■
	Axial piston displacement pump 220 l/min delivery capacity	□	□	□
	Two axial piston pumps 430 l delivery capacity		□	□
	Electrohydraulic power lift da (EPC), with external controls	□	□	□
	Electrohydraulic linkage sa (EPC), with external controls	□	□	□
	Radar-activated wheel slip control	□	□	□
	Upper link QC hydraulic	□	□	□
	Lower link hooks Cat. 4	□	□	□
	External hydraulic connection (load sensing)	□	□	□
	Hydraulic valve actuation crossgate lever, multi-function joystick		■	■
	External control for hydraulic control unit at rear	■	■	■
	Double connect-under-pressure lever couplings rear	■	■	■
	Easy ballast mounting for front weights	■	■	■
	Front linkage sa with external controls	□	□	□
	Comfort front linkage da, with position control, external controls	□	□	□
Body	Manual hitch	□	□	□
	Auto. hitch with remote control, rear	■	■	■
	Ball-type coupling, height adjustable	□	□	□
	Ball coupling incl. frame	□	□	□
	Forced steering (one or two-sided)	□	□	□
	Hitch	□	□	□
	Swinging drawbar	■	■	■
	Piton-fix	□	□	□
	Compressed air Duomatic coupling	□	□	□
	Rotating beacon	□	□	□
	Wide vehicle marker	□	□	□
	Pivoting front wheel mudguard	■	■	■
	Twin tyres rear	□	□	□
	Twin tyres front	□	□	□
	Front weights, various sizes	□	□	□
	Wheel weights, rear wheels	□	□	□
	Removable toolbox	□	□	□





# FENDT 1000 VARIO

# Technical specifications

	Fendt 1000 Vario		1038	1042	1046	1050
Engine	Constant power (kW/hp) EC 97/68 from 1500 rpm to 1700 rpm	kW/ hp	291 / 396	320/ 435	350 /476	380 /517
	No. of cylinders/cooling		6	6	6	6
	Cylinder bore/stroke	mm	126/166	126/167	126/168	126/169
	Displacement	cm³	12.419	12.419	12.419	12.419
	Rated speed	Rpm	1.700	1.700	1.700	1.700
	Max. torque	Nm at 1000-1500 rpm	1.900	2.100	2.300	2.400
	Torque rise	%	17% based on 1700 rpm	17% based on 1700 rpm	17% based on 1700 rpm	13% based on 1700 rpm
	Fuel tank	litres	800	800	800	800
Transmission / PTO	AdBlue	litres	85	85	85	85
	Oil change interval	Operating hours	500	500	500	500
	Type	stepless Vario transmission	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
Power lift / hydraulics	Speed range reverse	Km/h	0,02 – 33	0,02 – 33	0,02 – 33	0,02 – 33
	Engine PTO rear	Rpm	1.000/1.000E/1.300	1.000/1.000E/1.300	1.000/1.000E/1.300	1.000/1.000E/1.300
	Type of control	EPC	EPC	EPC	EPC	EPC
	Delivery capacity hydraulic pump	l/min at engine speed	165/220/430	165/220/430	165/220/430	165/220/430
Weights / dimensions	Control pressure	bar	200	200	200	200
	Max. lift capacity on the drawbar	daN	12.920	12.920	12.920	12.920
	Front linkage max. lift capacity	daN	5.584	5.584	5.584	5.584
	Max. available hydraulic oil volume	approx. litres	100	100	100	100
	Front tyres (standard)	mm	650	650	650	650
	Rear tyres (standard)	mm	710	750	750	750
	Front track width	mm	2.100	2.100	2.100	2.100
	Rear track width	mm	2.000	2.000	2.000	2.000
	Overall length with standard tyres with comfort ballast pick-up & rear linkage horizontal	mm	6.157	6.157	6.157	6.157
	Overall length with front linkage in parking position and rear linkage horizontal	mm	5.966	5.966	5.966	5.966
	Overall length with front linkage and rear linkage horizontal	mm	2.750	2.750	2.750	2.750
	Max. hitch load	kg	2.000	2.000	2.000	2.000
	Max. vertical load bottom hitch	kg	4.000	4.000	4.000	4.000
	Overall height cab with standard tyres without VarioGuide	mm	3.570	3.570	3.570	3.570
	Overall height cab with standard tyres with VarioGuide	mm	3.480	3.606	3.606	3.606
	Ground clearance for standard tyres	mm	480	600	600	600
	Wheelbase	mm	3.300	3.300	3.300	3.300
Electrical equipment	Small turning radius for resp. standard tyres	m	6,97	7,33	7,33	7,33
	Unladen weight (basic tractor - tanks full, without driver)	kg	14.000	14.000	14.000	14.000
	Perm. overall weight	kg	18.000	18.000	18.000	18.000
	Perm. overall weight. Value depends on country-specific, legal regulations.	kg	21.000	21.000	21.000	21.000
	Starter	kW	7	7	7	7
	Battery	Ah/ V	2 Batteries - 12/180	3 Batteries - 12/180	4 Batteries - 12/180	5 Batteries - 12/180
	Alternator	V/A	14/2x160	14/2x160	14/2x160	14/2x160
Tyre options	max. transferable current ISOBUS socket (optional)	A	60+25	60+25	60+25	60+25
	Tyre options	Front	IF 650/65R34	IF 650/65R38	IF 650/65R38	IF 650/65R38
		Rear	IF 710/75R42	IF 750/75R46	IF 750/75R46	IF 750/75R46
		Front	IF 650/65R38	IF 710/60R38	IF 710/60R38	IF 710/60R38
		Rear	IF 750/75R46	IF 900/65R46	IF 900/65R46	IF 900/65R46
		Front	IF 710/60R34			
		Rear	IF 900/60R42			
		Front	IF 710/60R38			
		Rear	IF 900/65R46			

## FAQ. EVERYTHING ABOUT FENDT

# What can we do for you?

### What makes Fendt Service different?

For us, service means knowing and understanding your work in order to meet your demands for reliability and safety and to act in your economic interest. We stand behind our products and have developed them for the highest demands and long-term operation. Our service is the partnership aspect for your work.

### What is the Fendt one-terminal concept?

On the one hand, only one terminal means: the vehicle controls, ISOBUS implement control, VarioGuide automated steering, VarioDoc documentation, camera functions or various assist functions are all conveniently controlled through one terminal, the Fendt Varioterminal. Only one terminal also means that at Fendt, the operating interface is the same across the entire range and is logical. No matter if you are driving a Fendt Vario, a Fendt combine or a Fendt Katana, you will find your way around immediately and feel at home in all the Fendt machines.

### Can I update Variotronic?




Fendt Variotronic can be updated. In this way you always have the latest version on your Fendt and have the future on your terminal. Please contact your dealer for further information.

### What is Fendt Expert?

Become a Vario pro with Fendt Expert driver training. Are you already familiar with all the functions that the technology has to offer? Take advantage of the technology that is found in every Fendt Vario and learn how to optimise the use of all the features with Fendt Expert. Our team of professional instructors offers you competent instruction to enable you to exploit the full performance potential of your Fendt tractor. Inform yourself through your dealer and sign up.

### What is Fuse™?

Fuse™ Technologies provides ultra-modern precision farming solutions across all AGCO brands. It permits farmers and contractors to integrate and connect their entire fleet seamlessly, resulting in reduced operating costs and even more efficient and profitable machine operations. [www.agcotechnologies.com](http://www.agcotechnologies.com)



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### Fendt 1000 Vario. German Meisterwerk.

	kW	hp
Fendt 1038 Vario	291	396
Fendt 1042 Vario	320	435
Fendt 1046 Vario	350	476
Fendt 1050 Vario	380	517


### Fendt equipment packages



Comprehensive standard equipment with an ideally coordinated package of features including automatic assistance systems.



Tailored Profi equipment package with a full range of features and added value for high demands.



Ground-breaking innovations package with automatic assistance systems for efficient, high performance.

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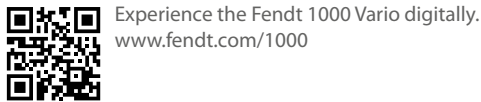


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Leaders drive Fendt.



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