

FENDT

Fendt 500 Vario





Watch the Fendt 500 Vario film now.
www.fendt.com/500-film



Your farm, your perspective.

The Fendt 500 Vario is the ideal all-round tractor that you can always rely on. It proves to be strong for draft work, precise for cultivation work, especially economical in consumption as well as comfortable and safe for transport. Finally, during front loader operations, it will convince you with its manoeuvrability and visibility and give your farming enterprise a new quality and therefore an ideal perspective. Fendt 500 Vario. Your ideal perspective.





Ideal prospects for your farm.

Whether on an arable, finishing or grassland farm, every implement immediately finds an ideal connection on the Fendt 500 Vario – a clear advantage for you, because you can meet the many requirements of your farm with only one tractor. Whether mid-sized or large-scale, today's farms are dependent on the high performance, flexibility, quality and efficiency of tractors. Prepare your farm for the future – with the Fendt 500 Vario, the tractor for all cases.

Because versatility always has a future

The Fendt 500 Vario has what it takes to become the main tractor in your farmyard. It is the ideal combination of compactness and versatility in operation, perfect for all front loader work, offers all-round visibility and comfort for drivers and passengers.

- Emissions Stage 4 / Tier 4 final
- 3-speed PTO
- New 1000E PTO
- LED work lights
- 300° front wiper
- Optional immobiliser
- New terminal generation with touchscreen
- Newest Variotronic guidance and telemetry functions
- Low vehicle weight of 6 tonnes
- High payload of up to 4.4 tonnes
- Permissible rear axle load up to 8.5 tonnes
- Flanged or stub rear axle
- Maximum speed 50 km/h
- Maintenance-free, self-levelling front axle suspension



Fendt 500 Vario.
Your ideal perspective.

	kW	hp
Fendt 512 Vario	92	125
Fendt 513 Vario	99	135
Fendt 514 Vario	110	150
Fendt 516 Vario	121	165

Maximum output to ECE R 24



Field, road, farmyard – always on the go

With the compact 500 Vario, you can work quickly, flexibly and with agility. Fast and economical driving up to 50 km/h at a reduced engine speed really pays off, especially for transport work. The low weight-power ratio enables high payloads without a problem. Comprehensive Fendt Variotronic functions, such as the new guidance system, programmable application rates and automatic documentation, make it the popular all-rounder in the fleet.

VERSATILITY AND FLEXIBILITY

An all-rounder that understands your job.

Ideal versatility

The Fendt 500 Vario has so many connections, more than any other in its power class. A total of 22 interfaces are well-placed at the front and rear: for hydraulics, ISOBUS, power beyond, front and rear PTO and much more. This guarantees versatile operations and trouble-free connection of implements. Thanks to the robust half-frame, an overall weight of 10.5 t is permissible, of which 8.5 t are for the rear axle alone. To permit flexible track adjustment, the Fendt 500 Vario is available with a stub axle upon request.

Top team for loader work

The Fendt 500 Vario is made for loader work: The narrow bonnet enables agile driving and excellent visibility. The VisioPlus cab with curved front window expands the operator's field of vision and provides a full view to the raised front loader. High hydraulic capacities at a low engine speed ensure fast lifting movements and precise loader response. The controls are optimally integrated in the right armrest and the Varioterminal.

Hydraulics for a lot of movement

The Fendt 500 Vario is equipped with modern load-sensing technology with a delivery capacity of up to 158 l/min. Up to seven electrohydraulic double-acting valves are possible, five at the rear and two in the front. Fifty-five litres of hydraulic oil can be used and are fully available to hydraulic consumers. Separate transmission and hydraulic oil supplies, ensures dirt cannot enter the transmission. The new leakage oil container, which is integrated in the front and rear lift, also contains clean oil. The oil collected there can be reused.

Strong and adaptable: The linkage

The rear linkage on the Fendt 500 Vario has a high lift capacity of 7,780 daN, the front linkage has 3,420 daN. Load relief control is available for the comfort front linkage, which has proven itself to be especially beneficial when working in uneven terrain. It allows the weight of the implement to be transferred to the tractor. The implement guidance is ideally adapted to the uneven ground – perfect for operations with a front mower, mulcher or snow plough.

Two front loader models are available, the Fendt Cargo 4X/75 and the Fendt Cargo 4X/80.



The Fendt 500 Vario proves its flexibility in versatile operations, e.g. with a skid trailer.



The Fendt 500 Vario offers exceptional visibility and spaciousness. Its design is so compact and narrow that you really have everything in view – whether it is the outermost edge of the sprayer, the topmost straw bale or the entrance to the row.



All tractor and machine functions are set in the terminal – either by touching the screen or using the keys on the side.



THE ENGINE ON THE FENDT 500 VARIO

The ideal drive for your farm.

Economy and low emissions with Tier 4 final

The dynamic, powerful 4-cylinder engine proved itself for all operations in the power segment with a maximum output of 125 to 165 hp. The 4-valve technology with common rail injection enables efficient fuel consumption for the best overall efficiency. Through the combination with the SCR exhaust after-treatment and passive diesel particulate filter CSF, the Fendt 500 Vario complies with the latest emissions standard Stage 4 / Tier 4 final and has an especially economical diesel and AdBlue consumption.

Efficient exhaust technology

The exhaust after-treatment and diesel particulate filter clean the exhaust, reduce AdBlue consumption and ensure a long lifetime with low operating costs. The external exhaust gas recirculation (AGRex) already reduces nitrogen oxides before they reach the exhaust line, so less AdBlue is required. The passive diesel particulate filter (Coated Soot Filter, CSF) cleans unburned

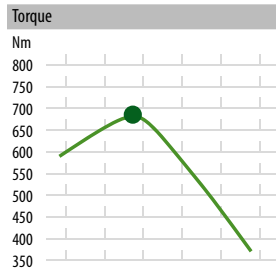
hydrocarbons and particulate matter out of the exhaust. The integrated heat management regenerates the diesel particulate filter (CSF) automatically while driving. It is maintenance-free and does not increase fuel consumption or costs.

More cooling for more power

Areas that develop a lot of heat need to be cooled accordingly. Radiator, intercooler, transmission oil and fuel cooler form a highly efficient cooler unit for an efficient and powerful engine. The powerful water pumps delivers 312 l/min for ideal engine cooling. An additional fuel cooler enables effective utilisation of energy. The Fendt 500 Vario delivers the best performance, even under extremely high temperatures.

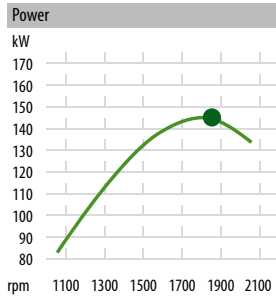
Engine characteristics – Fendt 516 Vario

687 Nm torque, 165 hp maximum output at 1,900 rpm.



Additional fuel cooler for ideal power delivery.

The air filter on the Fendt 500 Vario has a long life thanks to a precleaner and is easy to access for maintenance work.



Always informed about everything – e.g. via the consumption indicator in the terminal.



The Fendt 500 Vario reaches its final speed of 50 km/h at a low engine speed of 1700 rpm, 40 km/h already at 1400 rpm.

THE TRANSMISSION ON THE FENDT 500 VARIO

Take off! With the stepless Fendt Vario transmission.

Drive simply – The Fendt Vario transmission

Nothing drives like the Fendt Vario transmission. The Fendt Vario stands for stepless, dynamic driving with plenty of engine power at any speed from 0.02 km/h to 50 km/h. This allows you to work accurately for each operation with the Fendt 500 Vario and tap extra performance that is not available to powershift transmissions. Furthermore, the Vario transmission ensures high efficiency with low engine speeds and low consumption. And driving the tractor, either with the joystick or pedal, is always a relaxed matter.

Three-speed rear PTO with 1000 E economy PTO

The direct force path from the engine to the PTO stub means the Fendt 500 Vario transmits power to the PTO especially efficiently. With 540, 540 E and 1000, the Fendt 500 Vario offers three PTO speeds for different kinds of work. New is the optional 1000 E PTO, which lowers the engine speed and thus saves fuel, even at higher PTO speeds.

Well-balanced and efficient with TMS

Frequently changing operations are on the agenda for an all-rounder. Whether for transport or heavy draft work, the Fendt 500 Vario has been designed for ideal performance, low fuel consumption and reduced wear on components. The tractor management system TMS controls the engine and transmission so that they are always working at an economical optimum without you having to think about it. You just have to specify the desired speed.

Ideal interplay of transmission and engine

The automatic maximum output control 2.0 regulates the engine speed (engine load) dependent on the power requirement, so that the engine works in the optimal range in terms of fuel consumption and the preset driving speed. There are different optimum values that can be set as the load limit for different operations, for example transport, heavy draft work or for work with PTO-driven implements. The tractor automatically sets the ideal engine speed. Alternately, operators can also set the automatic maximum output control 2.0 manually.

The Fendt Vario transmission is a hydrostatic-mechanical power split drive. With increasing speed, the share of the mechanical power transmitted through the planetary set increases. The hydrostats can be swung 45° and have a high operating pressure of max. 550 bar – this ensures exceptional efficiency.




High PTO efficiency through the direct drive line from the engine to the PTO stub.



You can easily control the transmission functions on the armrest, e.g. the driving pedal range with the rotary control. TMS, four-wheel drive or PTO speed with a click of the keypad.



 The automatic maximum output control 2.0 regulates the engine speed (engine load) dependent on the power requirement, so the engine is always working in the optimal range in terms of fuel consumption and driving speed.





Take a 360° look inside the Fendt VisioPlus and experience the exceptional all-round visibility.
www.fendt.com/500-VisioPlus

THE CAB ON THE FENDT 500 VARIO

For comfort and visibility – our VisioPlus cab.

More visibility for the best perspective

The Fendt VisioPlus cab with its unique glazed areas sets the benchmark for overview and visibility. A total of 6.2 m² of glazing offers a continuous all-round view without any B-pillars to get in the way. The panoramic front window of the VisioPlus cab, which curves up into the roof, extends the view upwards and downwards, enabling a viewing angle of 77 degrees – you can see the entire raised front loader from the driver seat.

Ergonomics as never before

When developing the Fendt 500 Vario, special emphasis was placed on the ergonomic design of the operator environment. The practical arrangement and colour coding of the operating elements guarantee continuous, fast and logical operation. All the functions are arranged on the fully integrated multifunction armrest and always within reach. The steering wheel can be quickly and easily adjusted in height and tilt, the instrument cluster swings along with it and is therefore always in an ideal position.

Seat suspension with freedom of movement

Take your place in your ideal driver seat. Everything that makes a long work day comfortable is available here, from the air-suspended seat up to the leather seat with pneumatic support and climate control. The new, dynamic moveable driver seat, the “Super Comfort Seat Evolution dynamic Dualmotion” is especially beneficial for your back – the upper part of the backrest moves along with your body when you turn around to look towards the rear and also supports your back when working in reverse. For greater safety, a three-point safety belt is available as an option for the super comfort seat.

Comfortable & well-designed

Often the little things are what ensure comfort. The wide entrance steps and easy-to-reach grips are especially comfortable to use. Inside, the dust and water-tight cable lead-throughs have proven effective during work in the field. The door seals fixed on the frame allow the doors to be closed easily. The air-conditioning system is standard, and automatic climate control is available up on request.

Electrically adjustable external mirror with wide-angle mirror expands your view towards the rear. Fogged mirrors are a thing of the past: heated external rearview and wide-angle mirrors also keep the view towards the rear free in the winter.




The opaque roller shade is adapted to the curved front window and can be adjusted to any desired position.



Much appreciated are also the comfort passenger seat with safety belt and foldable backrest with table function and document holder.



 Rain won't stop you: With a 300-degree wiper field, the front wiper keeps your field of vision over the entire front and to the wheel arches free.

Snacks and drinks remain pleasantly refreshing in the cooled storage compartment. The compartment behind the passenger seat can be opened with one hand.

Hands-free phone conversations in best audio quality – that is possible in the Fendt 500 Vario thanks to the flexible, moveable swan-neck microphone.



Discover the new Variotronic in the Fendt 500 Vario now.
www.fendt.com/500-precision

THE NEW FENDT VARIOTRONIC IN THE FENDT 500 VARIO

Ideal results have a name: Fendt Variotronic.

All-round visibility: Fendt operating concept

For years, the unified overall concept of the Fendt control elements on the right armrest, comprising the Varioterminal, multi-function joystick, crossgate lever, linear modules and membrane keypad, have proven themselves in operation. To operate the tractor, implement and Variotronic functions, there are two terminal variants available for the Fendt 500 Vario, the 7-B terminal with a new design as well as the larger 10.4-B terminal. Both terminals are operated by both touch and keys. Further information on the terminals on pages 26 and 27.



With Fendt VarioGuide you can keep on track in two accuracy levels with a deviation of +/- 20 cm and +/- 2 cm. The flexible selection of available receivers and correction services is new.

Always on the ideal track

With Fendt VarioGuide you can drive reliably and accurately, even in areas with poor reception conditions. Fendt VarioGuide permits the highest utilisation of your machines, because you can work without actively having to steer, even at night or with large working widths. With Fendt VarioGuide, the tractor automatically maintains the ideal line so that you can concentrate fully on the implement. Overlapping is reduced and, depending on the working procedure, savings of three to ten percent can be achieved. Depending on the application, you can work with two different accuracy levels: with deviations of approx. 20 cm (VarioGuide Standard) or accurate to 2 cm (VarioGuide RTK).

On the ideal track:

The new Fendt VarioGuide

With the new version of Fendt VarioGuide, there are now two different receiver systems available, NovAtel® and Trimble®. Existing Trimble® RTK infrastructures on the farm, such as NTRIP, can continue to be used. A number of correction signals are supported, depending on the receiver, for example, EGNOS/WAAS or RangePoint™RTX™, CenterPoint RTX™ and Ntrip. Should you lose your signal due to the terrain, VarioGuide continues to work reliably up to 20 minutes without a correction signal thanks to Trimble®-xFill™ technology.

No overlapping from the very beginning with SectionControl

With the fully automatic Fendt SectionControl for ISOBUS implements, you can apply seeds, fertiliser or pesticides without overlapping. This prevents double treatment and distances are automatically maintained. With the aid of the SectionControl assistant, you can set the correction values for your implement, quickly and easily. The switch on and off points can be set precisely from the very beginning, which automatically results in economical application.

When operating ISOBUS-capable sprayers, fertiliser spreaders or seed drills, SectionControl can now switch up to 36 sections.

The SectionControl Assistant guides you step by step through all the required input to set the ideal on and off switching points.





Optimum application rate – on the spot.
With Fendt VariableRateControl.
www.fendt.tv/VRC-EN

FENDT VARIOTRONIC FOR HIGHER PROFITABILITY

Ideal for every operation, essential in the fleet: documentation and telemetry

Your work at a glance with Fendt VarioDoc

Documentation is the most important basis for farm management for agricultural businesses. With VarioDoc, relevant data can be recorded with a minimum of effort, documented in the field record and then analysed, all in the shortest amount of time. The data is transferred wirelessly from the Varioterminal to the field database using the ISOBUS Standard TC-BAS. Data on the quantity of seeds and fertiliser applied or the fuel consumption per hectare is available immediately after the work is done. Additionally, jobs can be created in the PC and sent to the terminal.

Data monitoring in real-time: Fendt VarioDoc Pro

VarioDoc Pro also permits recording of GPS position data and data transfer in near real-time. Automatic, seamless exchange with ISOXML-compatible field management software and mapping in real-time is therefore possible. The data for the operating inputs that have been used are transferred according to the TC-Geo standard and can be viewed in the Varioterminal while working.

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, a new solution for precision farming, variable rate control function (VRC), 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 in the field database and then applied with utmost precision.

From the field database to the application map

VariableRateControl (VRC) is based on the ISOBUS standard with the "TC-GEO" functionality. The application map is created with the aid of a compatible field management system and transferred to the Varioterminal via VarioDoc Pro. VariableRateControl allows 5 application maps to be worked parallel. Additionally, an as-applied map of the applied quantity is created for later checking. Tank management is available for large implements, which have several containers. It can define whether the containers are emptied parallel or in a specific sequence, if the implement supports this function.



Your benefit with the Fendt Variotronic: Your Fendt's software is updated during servicing in the workshop. You also get additional new features.

The new function VariableRateControl (VRC) enables the use of application maps and automated adjustment of the application rate on the implement, e.g. manure spreader, sprayers, seeders. Up to 5 application maps can be worked parallel.



The field settings can be transferred to other Fendt tractors through the USB port. The port for charging mobile phones is also very practical.



Fendt Expert driver training.
Sign up through your dealer.
You will find more information at:
www.fendt.com/training

QUALITY STANDARD AND RETENTION OF VALUE

My tractor, my future.

Investment with a high retention of value

Those who invest in a tractor, also invest in the future. With the Fendt 500 Vario, you lay the foundation for excellent, high-yield prospects. This includes the efficient, cutting-edge tractor technology, proven Fendt quality as well as the latest software update during servicing – an exclusive Fendt service for the highest retention of value.

Absolutely operation-friendly

Ideal diagnostic capabilities and long maintenance intervals ensure the tractor keeps on running. The remote transmission measuring points permit fast and simple diagnostics without having to disassemble the wheel. Failures can be analysed quickly through the fault messages in the Varioterminale. The separate oil supply means transmission oil only needs to be changed every 2,000 hours under normal conditions. The Fendt 500 Vario has a number of factors that keep downtimes and maintenance costs low.

Long-term economy

High efficiency is reflected in a higher yield while using fewer resources, such as fuel, operating inputs or time. The Fendt 500 Vario continues in the tradition of its predecessor and delivers high performance at low engine speeds – so there is less wear on all the components and diesel and AdBlue consumption is reduced. Its high overall profitability pays off during every operation.

Your investment secured: the electronic immobiliser

To ensure that your Fendt 500 Vario stays with you as long as possible, it has an optional electronic immobiliser – already standard on most automobiles, new for tractors. With the immobiliser, the tractor has a special ignition lock and ignition key.

Certified Fendt Quality Management System

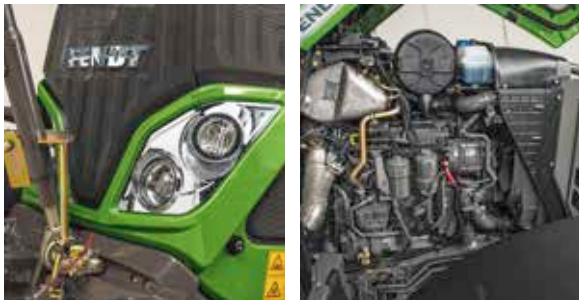
according to DIN EN ISO 9001
Since 1995, Fendt has undergone regular independent audits for its quality management system and has been successfully certified.

Fendt stands for high quality. To honour this promise, running quality control takes place during daily production. When your Fendt 500 Vario is delivered to your farmyard, it has already run through all the quality gates along the entire production line.

The engine compartment is very easy to access for inspection and maintenance, even when the front loader mounting parts are attached. The one-piece bonnet with two separate side panels can be opened without tools.



More savings: the diesel particulate filter CSF is designed for the lifetime of the tractor and therefore free of maintenance costs.



Less effort, more free time: The compact cooler unit is easily accessed and, thanks to the large clearance between the coolers and the flat cooler floor, it is fast and easy to clean.



Become a Vario pro with driver training: With our Fendt Expert Training, you learn how to use all of the functions on your tractor efficiently. Our team of competent professional trainers teach you how to utilise the entire performance potential of your Fendt tractor. Sign up through your dealer. You will find further information at: www.fendt.com/training

Certified Fendt Occupational and Health Safety Management System OHSAS 18001

Since 2008, Fendt has been certified and distinguished for the successful implementation of measures in occupational and health safety.

Certified Fendt Environmental Management System according to DIN EN ISO 14001

Since 2000, this certificate has proved Fendt's responsible management of the environment.



Here you can find the closest Fendt dealer,
quickly and easily.
www.fendt.com/dealer-search

FENDT STARSERVICE: THE BEST SERVICES

Secure reliable operations for the future today.



100% quality, 100% service: Fendt StarService

To ensure that your Fendt 500 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 season. Furthermore, the Fendt Service network guarantees short paths between you and our trained Service staff. You also get a 12-month warranty on original Fendt parts and their installation. Repairs with original parts ensure that your Fendt tractor retains its value.

Performance and profitability under contract

A Fendt StarService contract gives you full cost control with the best service. The Fendt service package includes all the prescribed maintenance work based on attractive fixed prices. The ProService package includes regular maintenance and repairs in combination with an extended warranty of up to 6,000 total operating hours or up to five years.

Individual financing and rental models

Purchasing machinery is a high capital investment. Your Fendt dealer will assist you in working out a customised financing plan for your new machine together with the agricultural financing experts at AGCO Finance. If you have a short-term need for additional capacity or prefer long-term use without having to buy, your Fendt sales partner has the ideal rental offer for you.

Retention of value through the latest software version

Every time the tractor goes in for servicing, your Fendt dealer updates the entire tractor software. Then you can profit from new, additional features for your Fendt. That gives you access to new operating benefits as well as a proactive retention of value, since your Fendt is always kept up to date.



With the smartphone app "AGCO Parts Books to Go" you can find and directly order Fendt replacement parts quickly and easily. The app is available through the App Store or the Google Play Store. Please contact your Fendt dealer for your personal access data.




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

The best product, the best services: Certified Fendt dealers are distinguished by their first-class expertise and their comprehensive range of services. They regularly undergo strict audits to prove their high-quality of service. Your Fendt is in the best hands here.

FENDT CARGO FRONT LOADER

When the tractor and front loader work together perfectly, that is called Fendt Cargo.

 Panoramic front window for a large, 77° viewing angle and a full view to the raised front loader and wheel arches.



The optional hydraulic attachment lock and the vibration damping system can also be conveniently operated from the driver seat.



The standard crossgate lever controls two control valves very precisely without having to reposition your hand. Complex implement functions can be controlled with the optional third and fourth hydraulic circuits. These are activated and controlled by pushbuttons on the crossgate lever.



Fendt 500 Vario – ideal front loader operations

A true joy for anyone that does frequent front loader work: The Fendt 500 Vario and the Fendt Cargo front loader are ideal complements. From the agile, stable construction to the swift work up to the easy and convenient operation – everything works together here. You can see the fully raised bucket through the panoramic front window that curves up into the roof. The hinged front window, which can be opened fully during loader work, has proven itself useful for work in warehouses, for example. Now you just have to decide between Fendt Cargo and Fendt CargoProfi.

Intelligent loading with Fendt CargoProfi

Weight and tilt sensors, shaking function and job computer – with the Fendt CargoProfi, you can load even more precisely and have the quantity in view. The integrated weighing function reports when the target weight has been reached. The Shake function empties the bucket completely. The Memo function saves the position of the arm for frequently used procedures, for example, so that it does not need to be adjusted every time. Lift height limiting has proven itself useful in low halls and the tipping angle setting is practical for loading high trailers. End position damping ensures the front loader is raised gently and smoothly, which minimises loss of material through trickling.

With the orange-coloured reverser lever, you can easily change directions with your left hand. Hold the lever in place, the tractor remains stationary. Let go of the lever and the tractor automatically drives in the preselected direction.



Fine adjustments can be made to the valve functions using the Varioterminal. For example, you can control the flow rate precisely and easily using the rotary controls and function keys.

Fast and easy loading? Lies at hand.

The controls for the front loader are optimally integrated in the overall operating interface on the right armrest and in the Varioterminal: you control the front loader with your right hand on the crossgate lever, your left hand is free for steering and reversing. You control the speed with your foot. With the reverser, you can change driving direction quickly and easily, without wear. The high hydraulic capacity of the Fendt 500 Vario ensures swift loading and unloading: The load-sensing pump delivers up to 158 l/min.

Ideal steering and damping system

Less steering and more fun at work with the front loader thanks to the VarioActive steering. With this superimposed steering system, you can already achieve a full steering angle with just one turn of the steering wheel. The advantages are clear – especially in tight farmyards, but also at the headlands. Add to that the active damping on the front loader: Gas pressure reservoirs absorb vibrations and shock loads so they are not transmitted to the tractor body. The damping, in combination with the front axle and cab suspension, is so comfortable, you will surely remain seated a bit longer in the Fendt 500 Vario, even if you are already finished.

Fendt front loader

Cargo 4X/75

Cargo 4X/80

A	Continuous lift capacity	daN	1940	2260
B	Maximum lift capacity	daN	2250	2620
C	Lifting height	mm	4155	4155
D	Digging depth	mm	150	150
E	Dumping dist. (B = 3.5 m) ¹⁾	mm	1685	1685
F	Dumping dist. (B = max.) ¹⁾	mm	1145	1145
	Angle of emptying	°	55	55
	Angle of backwards tilt	°	48	48

¹⁾ depends on tyres


²⁾ Values also apply for the Fendt Cargo profi 4X/80 front loader



THE FENDT OPERATING CONCEPT

One interface, all functions.




 You can control ISOBUS-capable implements via the Variotronic Implement Control, directly with the joystick or Varioterminal. So you do not need additional terminals in the cab.



In night mode, the display is dimmed to keep the lighting at a pleasant level for the operator. Thanks to the alternative display, the settings and icons are easy to see.



 The Varioterminal can be adjusted in all directions thanks to a new bracket with a ball joint.

The Varioterminal 7-B

Straightforward, intuitive and practical – the new Varioterminal 7-B with LED backlighting unites all tractor and implement functions in one terminal. ISOBUS-capable implements can also be controlled directly with the Varioterminal. You will easily find your way around in the flat menu hierarchy and the clear display. Simply touch the corresponding menu item directly on the touchscreen or click a key. The borderless LCD display in smartphone look delivers brilliant colours and a sharp resolution of 480 x 800 pixels. It is extremely scratch-proof and easy to clean. The display dims automatically at night, prevents blinding.

4-in-1 Terminal: The Varioterminal 10.4-B

Tractor and implement controls, camera function as well as guidance and documentation are completely integrated in the Varioterminal 10.4-B. The straightforward screen layout is practical and can be display full-screen and half-screen modes as well as four individual images, each with a different function. The high-quality touch display made of scratch-proof glass has a resolution of 800 x 600 pixels and 16 million colours for a sharp image, even in night mode. Touch operation reacts sensitively and quickly. Key operation is also available.

The headland management Variotronic^{II} saves the procedures at the headlands. Up to 5 triggers, 13 saveable functions (incl. guidance) as well as simple operation when stationary, ensure constant, superior working quality at the headlands. You can trigger the sequences with the push of a button on the joystick. You save up to 1,920 hand movements in 160 turns. The variant Variotronic^{II} automatic is even easier to use, because it triggers the sequences automatically and exactly at the right position. It can also be programmed when stationary.



The use of cameras on your machines significantly increases comfort and safety. You can see more of what is happening around you, especially in large agricultural machinery. The big 10.4-B Varioterminal has up to two camera connections.



The linkage is set via the Varioterminal and actuated with the powerlift control module, multi-function joystick or the external controls on the rear mudguard. The multi-function joystick or the external controls on the rear mudguards are convenient.

25 implement memories

All settings in the Varioterminal can be saved under a unique name and called up at a later time. For example, if you have set the engine or cruise control speeds, or configured the hydraulics and linkage, these settings can be easily reloaded and adjusted, if necessary. Of course, operators can also save their own custom settings.

Everything at hand: Multifunction joystick

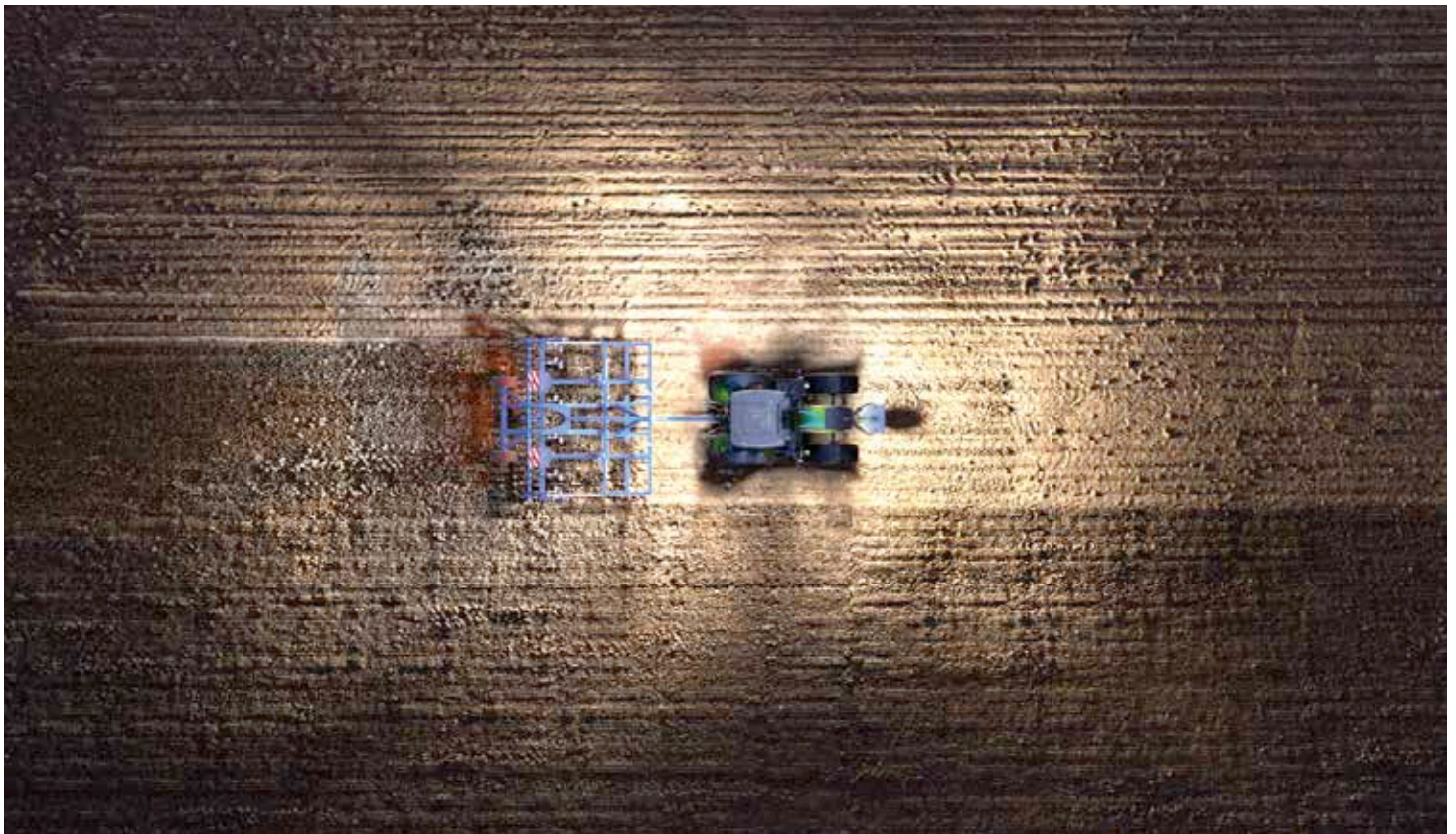
With the multifunction joystick, you can control the tractor easily and precisely. The 4-way multi-function joystick accelerates the Fendt 500 Vario without steps. The joystick lies well in the hand and numerous features can be activated directly on the lever: cruise control, speed memory, the hydraulics and additional automated functions, such as the headland management. The valves can be freely assigned with the Varioterminal and triggered by a click on the multifunction joystick.



Experience the Fendt 500 Vario digitally.
www.fendt.com/500

LIGHTING, WORK LIGHTS LED

More light when working – delivered by the 360° LED lighting concept with light intensity totalling 35,000 lumen. From the front and rear of the roof, as well as on the side of the A-pillars and mudguards, they light up the entire working area as light as day when working a night. And another benefit: LED saves electricity. The following headlamps are available in LED for the Fendt 500 Vario: 4 roof rear, 4 roof front, 2 roof front inside, 2 A-pillar, 2 mudguard rear.



■ Simply ingenious: The crossed illumination of the work lights in the roof prevents shadows.



■ On the Fendt 500 Vario Profi, the driving lights are supplemented with corner lights, which also illuminate the entire wheel arch. Chrome trim gives the tractor an elegant appearance and its striking “eyes”.



■ Coming home function: For a safe way home, the headlights and cab lighting keep shining, even after the engine has been switched off.



■ The lighting is easily set and adjusted thanks to its straightforward keys. With the intelligent one-button system, all lights can be switched on and off with only one touch of the keypad – especially practical when frequently changing between field and road driving in the dark.

Standard and optional equipment

Standard: ■

Optional: □

CAB

■ The comfort seat features air suspension and easy armrest adjustment.

□ The air-suspended super comfort seat is equipped with heating, a rotary adapter, low frequency suspension, pneumatic lumbar support and easy armrest adjustment. For greater safety on the road, and especially for municipal operations, an optional three-point safety belt is available for this seat.

□ In addition to the features of the super comfort seat, the super comfort seat Evolution Dynamic has side-to-side horizontal damping and climate control. The suspension can be adjusted pneumatically through compressed air from the vehicle compressor, so the seat suspension can be ideally adapted to the driver's weight.

□ The upper part of the backrest on the new super comfort seat Evolution dynamic Dualmotion turns along with the driver when looking towards the rear and provides support when working in reverse. The seat is also fully equipped with a seat heater, climate control and pneumatic suspension.

■ The comfort passenger seat is ergonomically shaped and additionally cushioned. It has a safety belt and when folded down it acts as a table with a document holder.



■ A special feature of the Fendt 500 Vario is the vertical handle on the rear window, which permits the window to be opened and closed comfortably when seated.



□ The super comfort seat Evolution dynamic Dualmotion is also available with a genuine leather cover. In the new leather package, both the driver and passenger seat as well as the steering wheel are covered with smooth black leather.

■ Especially popular in the summer: The hatch integrated in the roof liner provides fresh air, fast and draft-free.



■ For an ideal sitting position, the steering wheel must be at the right height and tilt angle. That is why the complete cockpit of the Fendt 500 Vario can be individually adjusted.



■ The integral cable lead-through prevents dirt, water and dust from entering the cab. The seal also keeps noise outside.



□ The four-point comfort cab suspension with integral self-levelling reduces vibrations to a minimum.



■ In addition to a large storage compartment, there is also space for a tachograph in the roof.



■ The standard-equipped integral climate control delivers the ideal temperature. Automatic climate control is available for the Profi variant.

□ In addition to a CD and MP3 player with Bluetooth, the radio also has a moveable microphone for hands-free phone calls in best audio quality.

RIDE COMFORT

■ The Fendt 500 Vario is standard-equipped with a self-levelling front axle suspension, which enables high payloads with the best ride comfort and up to seven percent higher traction in heavy draft operations. Suspension travel is +/- 50 mm, so uneven ground is absorbed over a long suspension travel. The 8° swing angle ensures stability while driving. The 52° steering angle of the front axle guarantees maximum manoeuvrability. The suspension function can be switched off, e.g. to pick up the front weight.



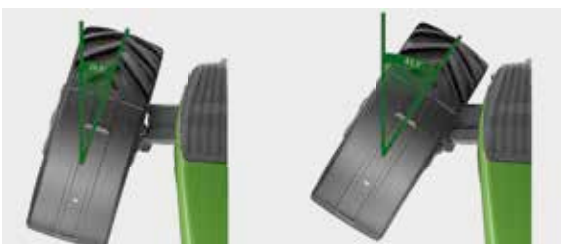
■ Like every Fendt, the Fendt 500 Vario facilitates daily work through practical details, such as the automatic blinker reset: The tractor blinks until the turn has been completed and then automatically switches off.



■ Easy and relaxed driving with Vario: The driving mode can be freely selected. Operators can either select the pedal mode or control the speed of the tractor with their foot. Alternately, joystick control with up to four different acceleration rates is also possible.



■ The exclusive Fendt Reaction steering system guarantees optimal straight-ahead driving.



□ With VarioActive you can go through a full steering angle with only one turn of the steering wheel.



■ The integrated shock load stabilising prevents the tractor and implement from bouncing by actively counteracting movements using the hydraulics. It reduces pitching movements so you benefit from improved steering safety and higher ride comfort.



□ The automatic steering axle lock automatically unlocks the steering axle at a predefined speed on trailers with self-steering axles. At high speeds and when reversing, the rigid steering axle automatically keeps the tractor and trailer straight.

HYDRAULICS AND MOUNTING AREAS

Connections at the front:

- Top link
- Two double-acting control valves
- Unpressurised return front
- 7-pin socket
- Front PTO (540 or 1,000)
- EPC front linkage incl. shock load stabilising

Connections at the rear:

- Signal socket
- ISOBUS connection
- Hydraulic top link
- Five double-acting control valves
- Unpressurised return rear
- Compressed air brake
- Control line power beyond
- Pressure line power beyond
- Hydraulic trailer brake
- 7-pin socket
- Lower links catch hooks
- ABS socket
- Rear PTO (standard: 540 / 540E / 1,000; Option: 540E / 1,000 / 1,000E)
- Hitch
- Bottom hitch



□ The compressed air Duomatic coupling enables faster coupling of compressed air lines.



■ The hydraulic connections on the Fendt 500 Vario can always be coupled under pressure (CUP). The optional, double-sided couple under pressure couplings are especially easy to connect.



■ The rear linkage, PTO and hydraulic valves can also be controlled externally on the rear mudguard. That makes mounting implements at the rear especially easy.



■ Power beyond pressure and control line for efficient drive and control of the implement.



□ ISOBUS socket for connecting implement control.



□ The front linkage is fully integrated in the half-frame and therefore especially stable. The lower links can be folded up for more clearance during front loader work and greater manoeuvrability.

BALLAST AND HITCH SYSTEMS

□ The Fendt 500 Vario has flexible ballast options. Diverse front and wheels weights are available:



Front weights with 400 kg, 870 kg and 1250 kg

Wheel weights with 200 kg, 300 kg and 600 kg



A flexible ballasting system with front weights up to 1,250 kg and wheel weights with max. 600 kg each ensures maximum traction. A low vehicle weight of only 6 tonnes makes the Fendt 500 Vario very fuel efficient and soil-conserving in the field.



EQUIPMENT VARIANTS

Fendt 500 Vario. So individual. So ideal.

		Power	Profi	ProfiPlus			Power	Profi	ProfiPlus	
Vario operation	Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	■	■	■	Transmission	Shuttle function, stop-and-go function	■	■	■	
	Varioterminal 7-B with touch and key control	■	■			Acoustic signal when reversing		□	□	
	Varioterminal 10.4-B with touch and key control, 2 camera ports, incl. VarioDoc		□	■		Chassis / safety features	Compressed air system	□	□	□
	VarioDoc documentation system		□	■			Automatic trailer steering axle lock		□	□
	VarioDoc Pro documentation system			□			Compressed air Duomatic coupling	□	□	□
	Variotronic implement control (ISOBUS)		□	■		4WD / differential lock	Comfort engagement controls for 4WD / differential locks	■	■	■
	SectionControl			□			Rear / front differential with 100% disc locking	■	■	■
	VariableRateControl (VRC)			□			PTO	Rear PTO 540/540E/1,000 rpm	■	■
	Variotronic ¹ Headland Management System	■	■	□		Rera PTO 540E/1,000/1,000E rpm		□	□	□
	Vario TMS Tractor Management System	■	■	■		Front: 540 or 1,000 rpm		□	□	□
	Preparation VarioGuide automatic steering system			■		External controls for rear PTO		■	■	■
	VarioGuide automatic steering system			□		Hydraulics	Load-sensing system with 75 l/min delivery capacity	■		
VarioActive steering			□	Load-sensing system with 110 l/min delivery capacity	□		■	■		
Cab	Split windscreen and door on right	□	□	□	Load-sensing system with 158 l/min delivery capacity			□	□	
	Continuous windscreen	■	■	■	Electrohydraulic rear linkage sa (EPC)		■	■	■	
	Mechanical cab suspension	■	■	■	Electrohydraulic rear linkage da (EPC)			□	□	
	Pneumatic cab suspension	□	□	□	Control with linear elements			■	■	
	Height and tilt-adjustable steering column	■	■	■	1st and 2nd hydraulic valve at rear		■	■	■	
	Comfort seat, air suspended with back rest (w/o rotary adapter/seat cushion adjustment, simple armrest adjustment)	■	■	■	3rd hydraulic valve at rear		□	□	□	
	Super comfort seat, air-suspended with seat heater, lumbar support	□	□	□	4th hydraulic valve at rear or 3rd hydraulic valve at rear and 1st hydraulic valve in front		□			
	Super comfort seat Evolution dynamic with climate control, seat heater, lumbar support and seat suspension (only with compressed air system)	□	□	□	4th to 5th hydraulic valve at rear			□	□	
	Super comfort seat Evolution dynamic Dualmotion with fabric or genuine leather cover	□	□	□	1st to 2nd hydraulic valve in front			□	□	
	Super comfort seat air-suspended with 3-point belt	□	□	□	Radar sensor			□	□	
	Passenger seat with automatic seat belt	■			Top link rear hydraulic	□	□	□		
	Comfort passenger seat with automatic seat belt		■	■	Hydraulic power beyond connection	□	□	□		
Radio mounting kit with 2 stereo speakers	■	■	■	Hydraulic valve actuation crossgate lever, connect-under-pressure couplings rear	■	■	■			
Radio CD MP3 Blaupunkt with 2 stereo speakers	□	□	□	Double connect-under-pressure lever couplings rear	□	□	□			
4 stereo speakers		□	□	Easy ballast pick-up without front linkage	□	□	□			
Air-conditioning	■	■	■	Front linkage da with external controls	□	□	□			
Automatic climate control		□	□	Comfort front linkage da, with position control, external controls	□	□	□			
Pollutant filter (aerosol)	□	□	□	Comfort front linkage da, with position control and load relief control, external actuation (only together with rear linkage da)		□	□			
Segment wipers front	■	■	■	Body	ABS trailer sockets		□	□		
Parallel wipers front	□	□	□		Mechanical hitch	■	■	■		
300-degree wiper front		■	■		Auto. hitch with remote control, rear	□	□	□		
Rear window heated	□	□	□		Ball-type coupling, height adjustable	□	□	□		
Ext. rearview mirror, mechanically adjustable	■	■	■		Ball-type coupling in the bottom hitch	□	□	□		
Ext. rearview mirror, electrically adjustable, heated	□	□	□		Ball-type coupling long in the bottom hitch	□	□	□		
Ext. rearview mirror and wide-angle mirror mech. adjustable					Hitch	□	□	□		
Ext. rearview mirror elec. adj. and wide-angle mirror heated		□	□		Swinging drawbar	□	□	□		
Interior rearview mirror		■	■		PitonFix	□	□	□		
Corner lights / chrome trim on direction indicators		■	■		Rotating beacon left and right	□	□	□		
Work lights roof, 4 rear, 2 front	■	■	■		Pivoting front wheel mudguard	□	■	■		
Work lights A-pillar, roof front, mudguard rear	□	□	□		Front weights, various sizes	□	□	□		
Work lights LED roof front, roof rear	□	□	□	Ballast weights for rear wheels	□	□	□			
Work lights LED A-pillar, mudguard rear	□	□	□	Front loader	Front loader attachment parts	□	□	□		
LED taillights, LED blinker	□	□	□		Front loader Cargo 4X/75	□	□	□		
Ambient lighting	■	■	■		Front loader Cargo 4X/80	□	□	□		
Bracket for auxiliary devices	□	□	□		Front loader Cargo Profi 4X/80	□	□	□		
Cooling compartment	■	■	■							
Electric battery disconnect switch	□	□	□							
Add. storage space, 12 Volt left, light in roof liner		■	■							
Engine	fuel pre-filter	□	□	□						
	Heated fuel prefilter	□	□	□						
	Preheater package (engine, transmission, hydraulic oil)	□	□	□						
	Exhaust brake	□	□	□						

¹ with one-piece windscreen

FENDT 500 VARIO

Technical Specifications.



Fendt 500 Vario		512	513	514	516	
Engine	Rated power ECE R 24	kW / hp	81 / 110	88 / 120	99 / 135	110 / 150
	Maximum power ECE R 24	kW / hp	92 / 125	99 / 135	110 / 150	121 / 165
	Rated power EC 97 / 68 applicable for registration	kW / hp	91 / 124	99 / 134	109 / 149	120 / 163
	Maximum power EC 97 / 68	kW / hp	96 / 131	103 / 140	115 / 156	124 / 169
	No. of cylinders/cooling		4	4	4	4
	Cylinder bore/stroke	mm	101 / 126	101 / 126	101 / 126	101 / 126
	Displacement	cm ³	4038	4038	4038	4038
	Rated engine speed	rpm	2100	2100	2100	2100
	Speed at max. power	rpm	1900	1900	1900	1900
	Max. torque	Nm at 1900 rpm	550	590	649	687
	Torque rise	%	42	40	38	33
	Fuel level	litres	298	298	298	298
	AdBlue	litres	31	31	31	31
	Oil change interval	Hours	500	500	500	500
Transmission / PTO	Type	stepless Vario transmission	ML 90	ML 90	ML 90	ML 90
	Speed range 1	km/h	0.02-28	0.02-28	0.02-28	0.02-28
	Speed range 1 - Reverse	km/h	0.02-17	0.02-17	0.02-17	0.02-17
	Speed range 2	km/h	0.02-50	0.02-50	0.02-50	0.02-50
	Speed range 2 - Reverse	km/h	0.02-33	0.02-33	0.02-33	0.02-33
	Engine PTO rear	rpm	540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000
	Engine PTO rear optional	rpm	540E/ 1000 /1000E	540E/ 1000 /1000E	540E/ 1000 /1000E	540E/ 1000 /1000E
	Front PTO	rpm	540 or 1000	540 or 1000	540 or 1000	540 or 1000
Linkage / hydraulics	Type of control	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	
	Delivery capacity hydraulic pump Power, Profi	l/min at engine speed	75/ 110, 110/ 158	75/ 110, 110/ 158	75/ 110, 110/ 158	75/ 110, 110/ 158
	Control pressure	bar	200+10	200+10	200+10	200+10
	Max. lift capacity on the drawbar	daN	7780	7780	7780	7780
	Front linkage max. lift capacity	daN	3420	3420	3420	3420
Weights / dimensions	Front tyres (standard)	mm	480/65R28	480/65R28	480/70R28	540/65R28
	Standard tyres rear	mm	600/65R38	600/65R38	580/70R38	650/65R38
	Front track width	mm	1880	1880	1880	1880
	Rear track width	mm	1860	1860	1860	1860
	Overall length with front linkage in park position and rear linkage horizontal	mm	4569	4569	4569	4569
	Overall width with standard tyres	mm	2501	2501	2501	2501
	Max. vertical hitch load	kg	2000	2000	2000	2000
	Overall height cab with standard tyres without VarioGuide	mm	2930	2930	2965	2965
	Overall height cab with standard tyres with VarioGuide	mm	2980	2980	3015	3015
	Ground clearance with standard tyres	mm	530	530	530	530
	Wheelbase	mm	2560	2560	2560	2560
	Small turning radius with resp. standard tyres	m	5.29	5.29	5.52	5.52
	Unladen weight (base tractor - tanks full without driver)	kg	6050	6050	6400	6400
	Permissible overall weight	kg	10500	10500	10500	10500
Front linkage - implement weight	kg	2460	2460	2460	2460	
Electrical equipment	Starter	kW	3.1	3.1	3.1	3.1
	Battery Power, Profi	Ah / V	100/12, 180/ 12	100/12, 180/ 12	100/12, 180/ 12	100/12, 180/ 12
	Alternator	V/A	14 / 200	14 / 200	14 / 200	14 / 200
	Max. transferable current ISOBUS socket (optional)	A	60+25	60+25	60+25	60+25
Tyre options	Front		16.9R28	16.9R28	480/65R28	480/65R28
	Rear		20.8R38	20.8R38	600/65R38	600/65R38
	Front		480/70R28	480/70R28	16.9R28	16.9R28
	Rear		580/70R38	580/70R38	20.8R38	20.8R38
	Front		540/65R28	540/65R28	540/65R28	480/70R28
	Rear		650/65R38	650/65R38	650/65R38	580/70R38
	Front		270/95R36	270/95R36	270/95R36	270/95R36
	Rear		320/90R50	320/90R50	320/90R50	320/90R50

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.agcotecnologies.com



Contact Fendt.

fendt.com

Here you will find everything online, from brochures to technical specifications, reports about customers or the company, up to the Fendt event calendar.

Fendt Configurator

With the Fendt Vehicle Configurator, you can choose from all the available equipment variations and put together the optimally equipped vehicle for your farm. The Fendt Configurator is available online at www.fendt.com, where you will find a quick link to it directly on the start page.

fendt.tv

Fendt around the clock – our Fendt Media Library makes it possible. Our internet TV provides you with news and information about Fendt 24/7.

Test drives

At fendt.com, you will find the area Service and Sales under “Fendt World”. Select the “tractor demonstration service”, then you can already register for a test drive with a tractor.

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AGCO GmbH – Fendt Marketing
87616 Marktoberdorf, Germany

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All data regarding delivery, appearance, performance, dimensions and weight, fuel consumption and running costs of the vehicles correspond with the latest information available at the time of going to press. Changes may be made before the time of purchase. Your Fendt dealer will be pleased to supply you with up-to-date information. The vehicles are not shown with country-specific equipment.