

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. During front loader operations, at the latest, 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 you run an arable, livestock or grassland farm, the Fendt 500 Vario has an ideal connection for any implement – a clear advantage, as it enables you to meet the wide range of needs on your farm with a single 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 is so important

The Fendt 500 Vario has everything it takes to be the main tractor on your farmyard. It embodies an ideal combination of compactness and versatility in operation, is perfect for all front loader work and 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



Field, road, farmyard – always on the go

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

Fendt 500 Vario.
Your ideal perspective.

	kW	hp
Fendt 512 Vario	91	124
Fendt 513 Vario	98	133
Fendt 514 Vario	110	150
Fendt 516 Vario	120	163

Rated power to ECE R120

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 sensibly positioned at the front and rear for hydraulics, ISOBUS, Power Beyond, front and rear PTO and much more. That 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, as its narrow bonnet supports agile driving and provides 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. 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 hydraulic capacity of up to 158 l/min. Up to seven electrohydraulic double-acting valves are supported; 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. As the transmission and hydraulic oil systems are entirely separate, the transmission oil is kept free from contamination. The new leakage oil container, which is integrated in the front and rear lift, collects clean oil, which can be reused.

Linkage for strength and adaptability

The rear linkage of the Fendt 500 Vario features an outstanding lift capacity of 7,780 daN, while the front linkage offers 3,420 daN. Load relief control is available for the comfort front linkage, which has proven very useful especially when working in uneven terrain. This 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.

There are two front loader models available: the Fendt Cargo 4X/75 and the Fendt Cargo 4X/80.



The Fendt 500 Vario proves its versatility in a wide range of applications, 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

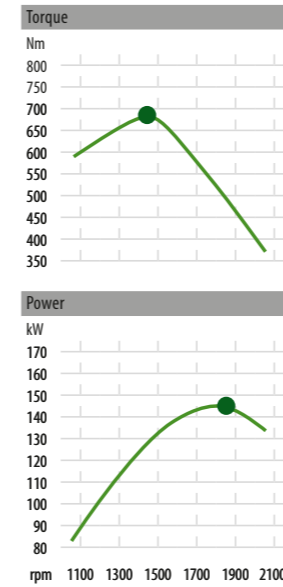
The ideal drive for your farm.

Economy and low emissions with Tier 4 final
 The dynamic, powerful 4-cylinder engine has demonstrated its superior performance in the 131 to 171 hp maximum output power segment with any type of work. The 4-valve technology with common rail injection enables efficient fuel consumption for the best overall efficiency. The Fendt 500 Vario combines SCR exhaust after-treatment and a CSF passive diesel particulate filter to comply with the latest Tier 4 final emissions standard and stands out through particularly economical diesel and AdBlue consumption.

Efficient exhaust technology
 Exhaust after-treatment and a diesel particulate filter reliably clean the exhaust and ensure a long service life with low operating costs. An external exhaust gas recirculation (AGReX) reduces nitrogen oxides even before they reach the exhaust line, resulting in substantially lower AdBlue consumption. The passive diesel particulate filter (Coated Soot Filter, CSF) removes unburned hydrocarbons and particulate matter from exhaust gases. The integrated heat management regenerates the diesel particulate filter (CSF) automatically while driving. The filter is maintenance free with no increased fuel consumption or any other associated costs.

More cooling for more power
 Areas that generate high heat need to be cooled accordingly. The radiator, intercooler, transmission oil and fuel cooler form a highly efficient cooling system for an efficient, powerful engine. The powerful water pump has a capacity of 312 l/min for optimal engine cooling. An additional fuel cooler increases the effective utilisation of energy. The Fendt 500 Vario delivers the best performance, even under extremely high temperatures.

Engine characteristics – Fendt 516 Vario
 699 Nm torque, 171 hp maximum output at 1,900 rpm



Additional fuel cooler for ideal power delivery.

The air filter in the Fendt 500 Vario features a pre-separator for long filter service life and is easily accessible for maintenance works.



All information at a glance, e.g. from terminal consumption data.



The Fendt 500 Vario reaches its final speed of 50 km/h at a low engine speed of only 1,700 rpm and 40 km/h at a mere 1,400 rpm.

THE TRANSMISSION ON THE FENDT 500 VARIO

Take off! With the continuously variable Fendt Vario transmission.

Drive simply – The Fendt Vario transmission

Nothing drives like the Fendt Vario transmission. The Fendt Vario epitomises a continuously variable, dynamic driving experience that delivers power at any speed from 0.02 to 50 km/h for outstanding operating precision in any environment. The Fendt 500 Vario allows you to tap into extra performance that powershift transmissions simply cannot muster. The Vario transmission furthermore ensures high efficiency at low engine speeds and low consumption. Plus driving your tractor using the joystick or pedal is always a relaxed matter. Trust Fendt's experience from having built over 250,000 Vario transmissions.

Three-speed rear PTO with 1000E 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. The Fendt 500 Vario offers three PTO speeds – 540, 540E and 1000 – for different types of work. The new 1000E PTO is available as an option; with this PTO the engine speed is lowered to save fuel even at high PTO speeds.

Well-balanced and efficient with TMS

Frequently changing operations are on the agenda for an all-rounder. The Fendt 500 Vario is designed for optimal performance, low fuel consumption and minimal component wear, whether it is used for transport purposes or heavy-duty draft work. 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. Sie geben einfach die gewünschte Geschwindigkeit vor.

Ideal interplay of transmission and engine

Automatic maximum output control 2.0 regulates the engine load depending on power requirements to ensure that the engine always operates within its optimal range in terms of fuel consumption and the pre-set driving speed. There are different optimum values that can be set as the load limit for different operations, for example transport, heavy-duty draft work or for work with PTO-driven implements. The tractor automatically sets the ideal engine speed. Alternatively, operators can also adjust 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 force path from the engine to the PTO stub.



Transmission functions are easily controlled from the armrest, e.g. the 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 OF THE FENDT 500 VARIO

The Fendt VisioPlus cab – for comfort and a clear view.

More visibility for the best perspective

The Fendt VisioPlus cab sets the benchmark for clear view and visibility with unique glass windows. A total of 6.2 m² of windows offers a continuous all-round view, undisturbed by B-pillars. The panoramic front window of the VisioPlus cab, which curves up into the roof, extends the view upwards and downwards for a 77-degree view angle. As a result, even a fully raised front loader is clearly visible from the driver's 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 functions are accessible from the fully integrated multi-function armrest and are therefore 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 "Super Comfort Seat Evolution dynamic Dualmotion", a new, dynamically moveable driver seat, is particularly supportive of your back, as the upper backrest moves with your body when you turn to look towards the rear and 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 it is the little things that deliver extra comfort. The wide entrance steps and easy-to-reach grips are especially pleasant touches. 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. Air-conditioning is standard, and automatic climate control is available upon request.

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



Don't let rain stop you: the front wiper features a 300-degree wiper field to keep your field of vision free across the entire front and wheel arches.



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-Präzision

THE NEW FENDT VARIOTRONIC IN THE FENDT 500 VARIO

Ideal results have a name: Fendt Variotronic.

A clear overview: the Fendt operating concept

The clear and consistent design of the Fendt controls on the right armrest, comprising the Varioterminal, multi-function joystick, crossgate lever, linear module and membrane keypad, has proven its worth for many years. To operate the tractor, implement and Variotronic functions, there are two terminal variants available for the Fendt 500 Vario, the 7" terminal with a new design as well as the larger 10.4" terminal. Both terminals are operated both per touch and keys. Further information on the terminals on pages 26 and 27.

Always on the ideal track

The Fendt VarioGuide keeps you reliably and precisely on track, even with poor reception. The Fendt VarioGuide allows your machines to be maximally utilised, as you are able to work with utmost precision without having to steer actively, even at night or with large working widths. The Fendt VarioGuide automatically keeps the tractor following the ideal line and thus leaves you to concentrate fully on the implement. Overlapping is reduced and, depending on the working procedure, savings of three to ten percent can be achieved. Two levels of accuracy are available for different application needs: the VarioGuide Standard achieves a precision of approx. 20 cm, while the VarioGuide RTK delivers 2 cm accuracy.

On the ideal track: the new Fendt VarioGuide

The new version of the Fendt VarioGuide gives you a choice of two different receiver systems, NovAtel® or 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, the Trimble®-xFill™ technology integrated in the VarioGuide ensures that you will reliably be able to continue working for up to 20 minutes even without a correction signal.

No overlapping from the very beginning with SectionControl

The fully automatic Fendt SectionControl for ISOBUS implements ensures that seeds, fertiliser and pesticides are applied evenly without overlaps. This prevents double treatment and distances are automatically maintained. The SectionControl Assistant allows you to set correction values for your implement quickly and easily. Once set, these values do not need to be entered again. The switch on and off points can be set precisely from the very beginning, which automatically results in economical application.



The Fendt VarioGuide allows you to keep track at two levels of accuracy with a precision of +/- 20 cm (VarioGuide Standard) or +/- 2 cm (VarioGuide RTK) respectively. The flexible selection of available receivers and correction services is new.

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.





Optimal application rates and utmost precision.
With Fendt VariableRateControl.
www.fendt.tv/VRC-DE

FENDT VARIOTRONIC FOR HIGHER PROFITABILITY

Ideal for every application and indispensable in any fleet: documentation and telemetry

Your work at a glance with Fendt VarioDoc

For agricultural entrepreneurs, documentation forms the most important basis for modern farm management. Fendt VarioDoc ensures that relevant data can be collected, documented in field files and then analysed in the shortest of time. The data is transferred wirelessly from the Varioterminal to the field file using the ISOBUS TC-BAS standard. Data on the quantity of seeds and fertiliser applied or the fuel consumption per hectare is available immediately after the work is done. Jobs can additionally be created on a PC and sent to the terminal.

Fendt VarioDoc Pro: real-time data monitoring

VarioDoc Pro also permits recording of GPS position data and data transfer in near real-time. This in turn permits mapping and the automated, seamless exchange with ISOXML-compatible field files. The data for the farm inputs used are transferred according to the TC-Geo standard and can be called up on the Varioterminal while working.

Variable application rates 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. VariableRateControl (VRC), a new solution for precision farming, is now available based on VarioDoc Pro documentation. Individual requirements for seeds, fertiliser and pesticides are visualised on application maps, called up during work and automatically executed. This delivers farmers the decisive advantage of being able to define and plan farm inputs in field files and then apply them with the utmost precision.

From the field database to the application map

VariableRateControl (VRC) is based on the ISOBUS standard with 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 up to five application maps to be processed in parallel. Maps of the actually applied quantities are additionally created for subsequent review. 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.



With the Fendt Variotronic, you benefit from your Fendt software being updated during workshop services. 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 five application maps can be processed in parallel.



Field settings can be transferred to other Fendt tractors via 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. The Fendt 500 Vario lays a solid foundation for a prosperous, high-yield future. This includes efficient, state-of-the-art tractor technology, proven Fendt quality and the latest software, which can be updated at every tractor service – an exclusive Fendt service for maximum retention of value.

Absolutely easy to operate

Optimal diagnostic capabilities and long maintenance intervals ensure that 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 Varioterminal. The separate oil supply alone means that transmission oil only needs to be changed every 2,000 hours under normal conditions. Overall, the Fendt 500 Vario offers a large number of features that keep downtimes and maintenance costs at a minimum.

Long-term economy

High efficiency is reflected in increased yields at lower consumption of resources such as fuel, operating inputs and time. The Fendt 500 Vario continues in the tradition of its predecessors and delivers high performance at low engine speeds to reduce wear on any of the tractor components and keep diesel and AdBlue consumption as low as possible. Its high overall profitability pays off with each and every use.

Electronic immobiliser for a secure investment

Your Fendt 500 Vario is available with an optional electronic immobiliser – a feature that is already standard for most cars but new for tractors – to ensure that it stays exactly where you leave it. 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 single-piece bonnet with two separate side panels opens comfortably.

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



Less effort, more free time: the compact cooling unit is easily accessible and quick and easy to clean, thanks to the large clearance between the cooling elements and the flat cooler floor.



Driver training for Vario pros: Fendt expert trainings teach you how to use all of your tractor's functions 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 health and safety management system OHSAS 18001

Fendt has been certified and awarded for the successful implementation of occupational health and safety measures since 2008.

Certified Fendt environmental management system according to DIN EN ISO 14001

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



Find your local Fendt dealer quickly and easily here.
www.fendt.com/Händlersuche

FENDT STARSERVICE: THE BEST SERVICES

How to secure reliable services 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

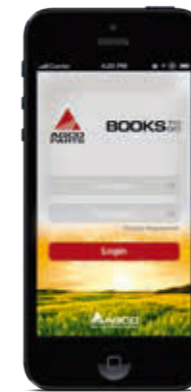
A Fendt StarService contract gives you full cost control with the best service. The Fendt service package includes all the prescribed maintenance work based on attractive fixed prices. The ProService package comprises regular maintenance and repairs as well as an extended warranty of up to 6,000 total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

Individual financing and rental models

Purchasing machinery is a high capital investment. Your Fendt dealer will work with the agricultural financing experts at AGCO Finance to assist you in preparing a customised financing plan for your new machine. 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. This ensures that you will always benefit from the latest additional features available for your Fendt. It also gives you reliable access to the latest operating benefits and proactively protects the value of your machine, as your Fendt will always be 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 Varioterminal informs you about the next maintenance and servicing dates, it even has a reminder function.



The best product – the best services: certified Fendt dealers stand out through their first-class expertise and comprehensive range of services. They regularly undergo strict audits to prove their high-quality of service. Your FENDT is in the best hands here.

FRONT LOADER FENDT CARGO

Fendt Cargo stands for perfectly smooth interaction between tractor and front loader.

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 gives you highly precise control via two control valves 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 via push buttons on the crossgate lever.



Fendt 500 Vario – ideal front loader operations

The Fendt 500 Vario and Fendt Cargo front loader complement each other perfectly and are a pleasure to work with for anybody who frequently needs to work with a front loader. From the agile, stable construction to the swift work up to the easy and convenient operation – everything works together here. The panoramic front window, which curves up into the roof, allows you to keep an eye on the bucket, even when it is fully raised. The opening 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 shaking 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. A lift height limiter and tipping angle setting are particularly useful when working in low halls and loading tall trailers respectively. End position damping ensures the front loader is raised gently and smoothly, which minimises loss of material through trickling.

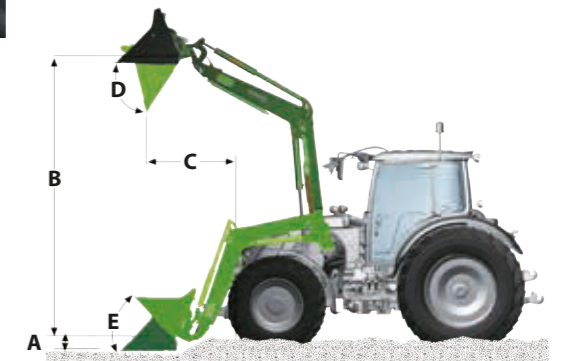
With the orange-coloured reverser lever, you can easily change directions with your left hand. Hold the lever in place, the tractor remains stationary. Let go of the lever and the tractor automatically drives in the preselected direction.



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

Fendt front loader		Cargo 4X/75	Cargo 4X/80	
A	Lift capacity over full height	daN	1940	2260
B	Max. lift capacity	daN	2250	2620
C	Lifting height	mm	4155	4155
D	Digging depth	mm	150	150
E	Digging depth (B = 3,5 m) ¹⁾	mm	1685	1685
F	Digging depth (B = max.) ¹⁾	mm	1145	1145
	Dumping angle	°	55	55
	Rear tilt angle	°	48	48

¹⁾ Depending on tyres
²⁾ Values are also applicable to the Fendt Cargo Profi 4X/80 front loader



Fast and easy loading? Lies at hand.

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

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. The active front loader damping delivers even greater comfort of operation, as gas pressure reservoirs absorb vibrations and shocks to prevent them from being 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.

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"

Clear, intuitive and practical – the new Varioterminal 7" with LED backlighting combines all tractor and implement functions on a single terminal. ISOBUS-capable implements can also be controlled directly with the Varioterminal. A flat menu hierarchy and clear display make navigation a breeze. Menu items are operated by simply touching them directly on the touchscreen or by clicking a key. The sophisticated borderless LCD display in smartphone design 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.

A 4-in-1 terminal: the Varioterminal 10.4"

Tractor and implement controls, camera function as well as guidance and documentation are completely integrated in the Varioterminal 10.4". A clear and practical display layout offers full-screen, half-screen and split-screen modes as well as four individual images, each displaying a different function. The high-quality glass touchscreen is scratch-proof and 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[®] saves the procedures at the headlands. With 5 triggers, 13 storable functions (including track guidance) and easy set-up from the stationary tractor, the system delivers consistently 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 Variotronic[®] automatic variant is even easier to use, as it activates sequences automatically at precisely the correct position. It can also be programmed when stationary.

The use of cameras on your machines significantly increases comfort and safety. Cameras give you a better view of what is happening around you, especially with large agricultural machines. The big 10.4" Varioterminal has up to two camera ports.



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. External controls are also available for the front linkage.

25 implement memories

All Varioterminal settings can be stored under unique names and called up again at a later time. If you have, for example, configured various tractor, track guidance and documentation settings for working with a seed drill, these can be easily reloaded and adjusted, if necessary. Of course, operators can also save their own custom settings.

Everything at hand with the multi-function joystick

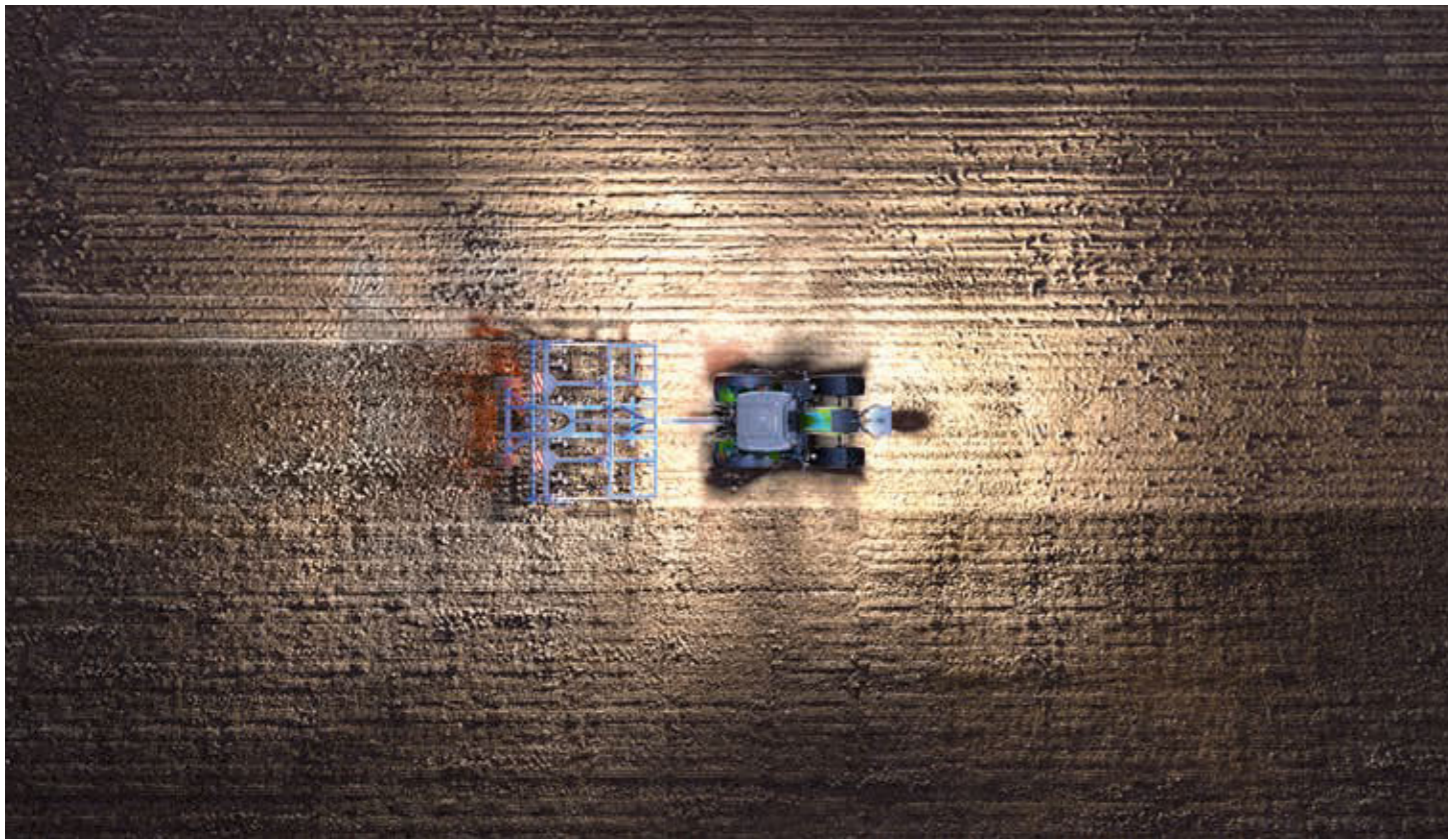
With the multifunction joystick, you can control the tractor easily and precisely. The 4-way multi-function joystick serves to accelerate, decelerate and reverse the tractor continuously. The joystick has excellent ergonomics and allows numerous features to be directly activated, including cruise control, speed memory, hydraulics and other automated functions such as 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

A 360° LED lighting concept with a light intensity totalling 35,000 lumen provides more light for your work. 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. Another benefit is that LED lights save power. The following LED lights are available for the Fendt 500 Vario: 4 x roof rear, 4 x roof front, 2 x A-pillar, 2 x mudguard rear.



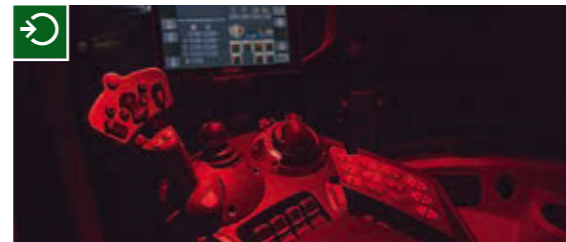
■ Simply ingenious: the cross beams of the rooftop work lights prevent shadows.



■ The driving lights of the Fendt 500 Vario Profi and ProfiPlus are enhanced by corner lights that also illuminate the entire wheel arch. Chrome trim gives the tractor an elegant appearance and its striking "eyes".



■ Coming-home function: the headlights and cab lights remain on for a little while after the engine has been switched off to make sure you get home safely.



■ 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.

CAB

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



□ The air-suspended super comfort seat is equipped with seat 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.



□ The Evolution dynamic super comfort seat provides the same benefits as the super comfort seat plus 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 can be folded down to serve as a table with 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.



■ The integrated hatch in the roof liner provides fresh air quickly and without draught and is therefore particularly popular in summer.



■ 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. For the Profi and ProfiPlus variants, automatic climate control is available as an option.

□ 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.

Standard and optional equipment
Standard: ■
Optional: □

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. for picking up front weight.



■ Like every Fendt, the Fendt 500 Vario features numerous practical details that make everyday work that much easier, including automatic indicator reset, i.e. the tractor indicates until a turn has been completed and then automatically switches the indicator off.



■ Freely selectable driving modes for easy and comfortable Vario operation. Operators can either select pedal mode and control the tractor speed with their foot; alternatively, the tractor can also be controlled via the joystick and pedal at up to four different acceleration rates.



■ The exclusive Fendt Reaction steering system guarantees optimal directional stability of the tractor.



□ 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 locked steering axle automatically keeps the tractor and trailer straight.

HYDRAULICS AND MOUNTING AREAS

Interfaces at the front:

- Upper link
- Two double-acting control valves
- Unpressurised front return flow
- 7-pin socket
- Front PTO (standard: 1000, optional: 540)
- Front linkage (standard: vibration damping, optional: electronic position control, load relief front linkage control)



Interfaces at the rear:

- Signal connector
- ISOBUS connection
- Hydraulic top link
- Five double-acting control valves
- Unpressurised rear return flow
- Air brake
- Control line power beyond
- Pressure line power beyond
- Hydraulic trailer brake
- 7-pin socket
- Lower link hook end
- ABS socket
- Rear PTO (standard: 540 / 540E / 1000; optional: 540E / 1000 / 1000E)
- Hitch
- Bottom hitch



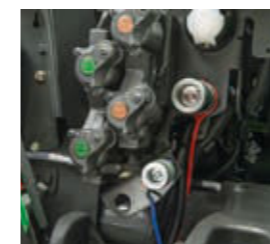
□ The compressed air Duomatic coupling enables faster coupling of compressed air lines.



■ 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 a hydraulic valve can also be controlled externally from either of the rear mudguards. This significantly facilitates the implement mounting process.



□ 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 up to 1,250 kg front weights and up to 2 x 600 kg wheel weights provides for maximum traction. With a low vehicle weight of only 6 tonnes, the Fendt 500 Vario is highly fuel-efficient and very gentle to soils in the field, even when transporting loads.



EQUIPMENT VARIANTS

Fendt 500 Vario.
So individual. So ideal.

Standard and optional equipment
Standard: ■
Optional: □

		Power	PowerPlus	Profi	ProfiPlus
Engine	Fuel pre-filter (heated)	□	□	□	□
	Preheater unit (engine, transmission, hydraulic oil)	□	□	□	□
Transmission	Shuttle function, stop-and-go function	■	■	■	■
	Acoustic signal when reversing		□	□	□
Vario operation	Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	■	■	■	■
	Varioterminal 7 with touchscreen and key control	■	■	■	■
	Varioterminal 10.4 with touchscreen and key control			□	■
	Variotronic implement control for ISOBUS		□	■	■
	Guidance system VarioGuide NovAtel / Trimble		□		□
	VarioDoc - documentation system (only with Varioterminal 10.4")			□	■
	VarioDoc Pro - documentation system / AgCommand™ telemetry system (only with Varioterminal 10.4")				□
	SectionControl				□
	VariableRateControl				□
	Electronic immobiliser	□	□	□	□
Without immobiliser	■	■	■	■	
Cab	Active charcoal filter	□	□	□	□
	Mechanical cab suspension	■	■	■	■
	Pneumatic cab suspension	□	□	□	□
	Super comfort seat 3-point belt	□	□	□	□
	Comfort seat, air sprung	■	■	■	■
	Super Comfort Seat, air sprung	□	□	□	□
	Super comfort seat Evolution dynamic / CA	□	□	□	□
	Super Comfort Seat Evolution dynamic DuMo/CA	□	□	□	□
	Super Comfort Seat Evolution dynamic DuMo leather / CA			□	□
	Comfort instructor seat			■	■
	Air-conditioning	■	■	■	■
	Integrated automatic climate control			□	□
	Split windscreen and door on right	□	□	□	□
	Continuous windscreen	■	■	■	■
	Rear window heated	□	□	□	□
	Segment wipers front	■	■	■	■
Parallel wipers front	□	□	□	□	
300°-front windscreen wipers (with continuous windscreen)			■	■	
Rear window wash/wipe	□	□	□	□	
Ext. rearview mirror electrically adjustable and wide-angle mirror heated			□	□	
Wide-angle mirror	■	■	■	■	
Radio mounting kit with two stereo speakers	■	■	■	■	
Radio CD MP3	□	□	□	□	
Radio CD MP3 hands-free speaking system	□	□	□	□	
Radar sensor			□	□	
Lighting	Auxiliary lights front	□	□	□	□
	Work lights A-pillar, rear mudguard	□	□	□	□
	Work lights LED A-pillar, rear mudguard	□	□	□	□
	Rear roof work lights 4x	■	■	■	■
	LED rear roof work lights 4x	□	□	□	□
	Front external roof work lights 2x	■	■	■	■
	LED front external roof work lights 2x	□	□	□	□
	Front internal roof work lights 2x	□	□	□	□
	LED front internal roof work lights 2x	□	□	□	□
	LED rear lights	□	□	□	□
Rotating beacons	□	□	□	□	

		Power	PowerPlus	Profi	ProfiPlus
Chassis	Front axle suspension self-levelling, lockable	■	■	■	■
	Steering brake	■	■	■	■
	Automatic trailer steering axle lock			□	□
	Compressed air system 1-/2- circuit system	□	□	□	□
	Compressed air Duomatic coupling	□	□	□	□
4WD	Rear / front differential with 100% disc locking and steering angle sensors	■	■	■	■
Power lift	Da front power lift, with external control (separate valve)	□	□	□	□
	Comfort front power lift da, with position control, external controls	□	□	□	□
	Comfort front power lift da, with position control and relief control, external controls	□	□	□	□
	Electrohydraulic power lift sa (EHR), Top link rear hydraulic	■	■	■	■
PTO	Front: 1000 rpm	□	□	□	□
	Rear PTO 540/540E/1000 rpm	■	■	■	■
	Rera PTO 540E/1000/1000E rpm	□	□	□	□
Hydraulic system	EHS valve actuation crossgate lever, multi-function joystick	■	■	■	■
	EHS valve actuation linear module	■	■	■	■
	External control for hydraulic control unit at rear	□	□	□	□
	Load sensing system with axial piston pump (75 l/min)	■	■	■	■
	Load sensing system with axial piston pump (110 l/min)	□	□	■	■
	Load sensing system with axial piston pump (158 l/min)			□	□
	4. EHS valve at rear or 3rd EHS valve at rear and 1st EHS valve in front	□	□		
	4. EHS valve at rear			□	□
	5. EHS valve at rear			□	□
	1. Front EHS valve			□	□
2. Front EHS valve			□	□	
Hydraulic power beyond connection	□	□	□	□	
Return rear	■	■	■	■	
Unpressurised rear return flow	□	□	□	□	
Double connect-under-pressure lever couplings rear	□	□	□	□	
CUP coupling rear	■	■	■	■	
Bio hydraulic oil	□	□	□	□	
Additional equipment	Manual hitch	■	■	■	■
	Automatic trailer hitch with remote control, rear	□	□	□	□
	Ball coupling, height adjustable	□	□	□	□
	Ball coupling, short, in the bottom hitch	□	□	□	□
	Ball coupling, long, in the bottom hitch	□	□	□	□
	Hitch	□	□	□	□
	Drawbar	□	□	□	□
	Piton-fix	□	□	□	□
	Comfort ballast for front-end weight (not available with front power lift)	□	□	□	□
	Wheel weights, rear wheels	□	□	□	□
Forced steering (one or two-sided)	□	□	□	□	
Pivoting front wheel mudguard	□	□	■	■	
Front loader	Front loader attachment parts	□	□	□	□
	Front loader Cargo 4X/75	□	□	□	□
	Front loader Cargo 4X/80	□	□	□	□
	Front loader Cargo Profi 4X/80			□	□

FENDT 500 VARIO

Technical Specifications.



Fendt 500 Vario		512	513	514	516	
Engine	Rated power ECE R 120	kW/hp	91/124	98/133	110/150	120/163
	Maximum power ECE R 120	kW/hp	96/131	104/141	115/156	126/171
	No. of cylinders	Number	4	4	4	4
	Cylinder bore/stroke	mm	101/ 126	101/ 126	101/ 126	101/ 126
	Cubic capacity	cm ³	4038	4038	4038	4038
	Rated speed	rpm	2100	2100	2100	2100
	Max. torque at 1450 rpm	Nm	550	590	649	687
	Torque rise	%	42	40	38	33
	Fuel level	litres	298	298	298	298
	AdBlue tank	litres	31	31	31	31
Transmission and PTO	Transmission type		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
	Top speed	km/h	50	50	50	50
	Rear PTO		540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000
	Rear PTO optional		540E/ 1000 /1000E	540E/ 1000 /1000E	540E/ 1000 /1000E	540E/ 1000 /1000E
Front PTO option		1000	1000	1000	1000	
Power lift and hydraulics	Variable flow pump	l/min	75	75	75	75
	Variable flow pump option 1	l/min	110	110	110	110
	Variable flow pump option 2	l/min	158	158	158	158
	Working pressure / control pressure	bar	200+20	200+20	200+20	200+20
	Max. valves (front/centre/rear) Power / Power Plus	Number	1/0/4	1/0/4	1/0/4	1/0/4
	Max. valves (front/centre/rear) Profi / Profi Plus	Number	2/0/5	2/0/5	2/0/5	2/0/5
	Max. available hydraulic oil volume	litres	55	55	55	55
	Max. lift capacity of rear power lift	daN	7780	7780	7780	7780
Max. lift capacity of front power lift	daN	3420	3420	3420	3420	
Electrical features	Batteries	Number	1	1	1	1
	Battery output Power	Ah/V	100/12	100/12	100/12	100/12
	Battery output Profi / Profi Plus	Ah/V	180/12	180/12	180/12	180/12
	Alternator	V/A	14/ 200	14/ 200	14/ 200	14/ 200
Tyres	Front tyres (standard)		480/65R28	480/65R28	480/70R28	540/65R28
	Standard tyres rear		600/65R38	600/65R38	580/70R38	650/65R38
	1. Optional front tyres		16.9R28	16.9R28	480/65R28	480/65R28
	1. Optional rear tyres		20.8R38	20.8R38	600/65R38	600/65R38
	2. Optional front tyres		480/70R28	480/70R28	16.9R28	16.9R28
	2. Optional rear tyres		580/70R38	580/70R38	20.8R38	20.8R38
	3. Optional front tyres		540/65R28	540/65R28	540/65R28	480/70R28
3. Optional rear tyres		650/65R38	650/65R38	650/65R38	580/70R38	
Dimensions	Front track width (standard tyres)	mm	1880	1880	1880	1880
	Rear track width (standard tyres)	mm	1860	1860	1860	1860
	Overall width with standard tyres	mm	2501	2501	2501	2501
	Overall length	mm	4453	4453	4453	4453
	Overall cab height with standard tyres without VarioGuide	mm	2930	2930	2965	2965
	Overall cab height with standard tyres with VarioGuide	mm	2980	2980	3015	3015
	Max. ground clearance	mm	530	530	530	530
Wheelbase	mm	2560	2560	2560	2560	
Weights	Unladen weight (base tractor with cab - full tanks, without driver)	kg	6050	6050	6400	6400
	Max. permissible overall weight	kg	10500	10500	10500	10500
	Max. trailer hitch load	kg	2000	2000	2000	2000

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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 supports you and your work through a genuine partnership.

What is the Fendt one-terminal concept?

A single terminal means that vehicle controls, ISOBUS implement control, VarioGuide track guidance, VarioDoc documentation, camera functions and various assist functions are all conveniently controlled from a single 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. Regardless of whether you drive a Fendt Vario, a Fendt combine or a Fendt Katana, you will immediately feel at home and find your way around on 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 Fendt dealer for further information.

What is Fendt Expert?

The Fendt Expert driver training is your way to becoming a Vario Pro driver and will familiarise you with all the functions Fendt technology has to offer. Take advantage of the technology inside your Fendt Vario and learn how to make optimal use of all of its 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 allows farmers and contractors to integrate and connect their entire fleet seamlessly, resulting in reduced operating costs and even greater efficiency and profitability in operating their machines.

www.agcotecnologies.com



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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.

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