

**FENDT**



Fendt  
**500 Vario**

Leaders drive Fendt.

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Fendt is a worldwide brand of AGCO.  
All details regarding scope of delivery, appearance, performance, dimensions and weights, fuel consumption and running costs of vehicles reflect the latest information available at the time of print. These may change by the time of purchase. Your Fendt dealer will be happy to inform you about any changes. The vehicles shown do not feature country-specific equipment.

39.4 kg/hp

Power-to-weight ratio  
of the Fendt 516 Vario

10.1 m

turning circle

4.9 t

Payload

152 l/min

max. hydraulic performance



# Your partner for the future



The medium performance segment plays a central role in modern agriculture: it combines power and stability for heavy work with the necessary manoeuvrability for flexible use. With 134 to 164 hp, the new Fendt 500 Vario moves exactly in this area and is impressive with Fendt VarioDrive for stepless traction and the intuitive FendtONE user interface. Even still, Fendt DynamicPerformance automatically provides up to 10 hp of added power in all models – flexibly and as required. More performance when it matters. Exactly what the next generation has been waiting for.

## Areas of application



Arable farming & special  
crops



Transport



Grassland



Front loader work



Local Authority



# Highlights of the Fendt 500 Vario

1

## Fendt DynamicPerformance (DP)

With Fendt DynamicPerformance, the Fendt 500 Vario receives up to 10 hp added power – automatically and exactly when secondary consumers such as fans or hydraulics require more power. This ensures constant work performance and higher efficiency – reliably and as required for every application.

2

## Engine & fan

The 500 Vario scores with the powerful AGCO Power CORE50 engine and the Fendt iD low speed concept for maximum fuel efficiency. HVO suitability, maintenance-free hydro tappets and quiet running make it particularly sustainable and reliable. The optional reversible fan ensures clean cooling – ideal for dust-intensive applications.

3

## Intelligent VarioDrive

With VarioDrive, front and rear axles are driven independently. This ensures torsion-free four-wheel drive, the best in manoeuvrability and ground protection at the same time. Torque distribution automatically shifts the torque to the axle with the best grip, for optimum traction in any situation.

4

## More traction, less consumption – with Fendt VarioGrip

The fully integrated Fendt VarioGrip tyre pressure regulation system is now also available in the Fendt 500 Vario. Tyre pressure can be conveniently adjusted via the terminal – for optimum traction, up to 8% more area performance and fuel savings\*. At the same time, the ground and tyres are protected.

\*South Westphalia University of Applied Sciences; Agricultural Economics Soest

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## Assistance systems for more safety

The Fendt 500 Vario offers clever assistance systems such as the trailer brake assistant (TBA), the wear-free hydraulic auxiliary brake, the automatic parking brake and the automatic steering axle lock on trailed implements. They ensure greater safety during transport travel, stability on the slopes and noticeable relief when manoeuvring.



6

## Superior manoeuvrability even with four-wheel drive

With a track circle of only 10.1 metres, the Fendt 500 Vario masters narrow courtyard entrances, narrow paths and narrow headlands with ease. The Fendt VarioDrive drive with a pull-in-turn effect actively pulls the front axle into the curve – for a turning circle that is up to 10% smaller. Compactly built, it remains extremely flexible, strong in traction and manoeuvrable even with implements and in the trailer – perfect for front loader work.

7

## Enormous use, axle and support loads

With a payload of up to 4.9 tonnes, the Fendt 500 Vario offers enormous reserves for heavy implements and demanding applications – while at the same time providing low fuel consumption. This is made possible by the intelligent lightweight concept with significantly increased axle and support loads whether with a sliding carriage or with a fixed implement. Whether it's a fertiliser spreader, order combinations or mower combinations, the Fendt 500 Vario is uncompromisingly powerful and safe for use.

8

## FendtONE driver's workstation

Working is even more fun with the FendtONE workstation in the Fendt 500 Vario. The high-resolution dashboard and the individually configurable terminal offer an intuitive user interface that can be perfectly adapted to the needs of the driver. All operating elements are ergonomically combined in the armrest. This makes daily work not only easier, but also significantly more efficient. FendtONE onboard in the tractor and FendtONE offboard in the office together form a consistent, digital working environment – for more clarity, control and comfort.



# Perfect for the next generation

The Fendt 500 Vario combines a compact design with strong performance, state-of-the-art technology and high efficiency – ideal for a wide range of tasks in the field, in transport and around the courtyard.

## Strong in agriculture – precise in special crops

The Fendt 500 Vario is the perfect choice for use in agriculture and special crops. The efficient 4-cylinder engine with Fendt iD low speed concept and Fendt VarioDrive saves fuel at full power. The Fendt VarioGrip tyre pressure regulation system protects the ground and increases productivity. With a payload of up to 4.9 tonnes and various tyre options from the factory, the Fendt 500 Vario is impressive with its versatility and is ideally equipped for a wide range of requirements. The Category 4 cab is optionally available from the factory and protects the driver during pesticide work, while the sophisticated FendtONE operating concept with up to three individually usable terminals enables intuitive and efficient control.

## Maximum performance and soil protection in grassland

In grassland use, the Fendt 500 Vario shines with high efficiency and maximum protection of the sward. The Fendt VarioDrive drivetrain enables torsion-free driving, even with the tightest turning manoeuvres. Fendt DynamicPerformance provides up to 10 hp if required – ideal for light-weight tractors with high power. Fendt VarioGrip reduces ground pressure and minimises feed contamination. The VisioPlus cab, optionally with laminated safety glass (LSG), protects the driver from high noise levels, while the powerful hydraulic system and the relieving front power lift ensure precise implement guidance.

## The Fendt 500 Vario with front loader

In front loader usage, the Fendt 500 Vario shines with the Fendt Cargo Gen2 front loader with its precise control, high lifting power and sophisticated technology. The new, independent valve block with up to three valves, the control via crossgate lever or 3L-Joystick, and intelligent Profi functions such as the weighing and memory functions increase efficiency in everyday work. The Fendt Cargo 4.80 Profi lifts up to 2.4 tonnes at a height of 4.18 metres. The VisioPlus cab also offers the best view of the raised front loader, and thanks to VarioDrive, even the tightest turning manoeuvres are possible with minimum tyre wear and without tension.

## Modern equipment for municipal applications

The Fendt 500 Vario offers optimum visibility in any weather – with powerful LED spotlights and heated panes and mirrors. The spring-loaded front axle with self-levelling, efficient air-conditioning and the ergonomic driver's seat with 3-point seat belt ensure a high level of comfort for use in every season. Daytime running lights, automatic brake light control and modern assistance systems are available for road safety. Further advantages are the reliable front power lift control, the suitability for bio-hydraulic oil, HVO suitability and the continuous right side window for work with e.g., extension mower – the Fendt 500 Vario is a versatile all-rounder for municipal tasks.



## Efficient and safe in transport

During transport, the Fendt 500 Vario scores with high efficiency and safety. The Fendt iD low-speed concept, Fendt VarioDrive and Fendt VarioGrip ensure fuel-efficient driving with optimum traction and minimal tyre wear. With a payload of up to 4.9 tonnes and a maximum of 4.0 tonnes of support load in fixed implements, it is ideally equipped for heavy loads. Intelligent assistance systems such as the automatic steering axle lock, the trailer brake assistant (TBA), the wear-free hydraulic auxiliary brake and the automatic parking brake increase safety. The distinctive daytime running lights and the automatic brake light control support visibility and warn the subsequent traffic in case of deceleration. The ergonomic cab offers the best operating comfort on any route.



# Powerful & Efficient on the road



### Strong performance at low speed

The AGCO Power CORE50 engine in the Fendt 500 Vario combines 5.0 l cubic capacity, four cylinders and the Fendt iD low speed concept for maximum efficiency, liveliness and smooth running. It has already impressively demonstrated its performance with particularly high torque in the Fendt 600 Vario – confirmed by neutral DLG measurements on behalf of the trade magazine profi (06/25). The speed range from 850 to 1,900 rpm ensures particularly quiet, fuel-efficient operation. Maintenance-free hydraulic tappets reduce maintenance and helps for a low-vibration operation. In addition, the engine for the use of HVO fuels has been approved in accordance with DIN EN 15940 – an important contribution to CO<sub>2</sub> reduction and sustainable agriculture.

**792 Nm**  
Max. torque

### Fendt DynamicPerformance (DP)

With the Fendt DynamicPerformance (DP) concept, the Fendt 500 Vario has up to 10 hp more power for greater productivity and efficiency. Unlike classic boost concepts, Fendt DynamicPerformance provides performance automatically and without limitation, when secondary consumers such as fans, compressed air supply, air-conditioning or the hydraulic pump need additional power. Fendt DP delivers these in a targeted and situational manner, thus ensuring consistent work performance and productivity. Even at low speeds in soil cultivation, in transport or for PTO work when stationary with a slurry mixer, feed mixer or wood chipper. More performance used efficiently – targeted and reliable in every application.

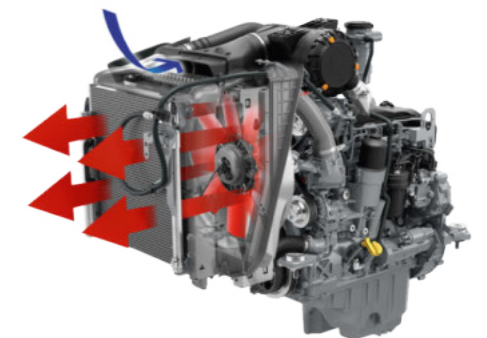


### Efficient cooling concepts

An electronically controlled viscous fan, which can be controlled separately by each of the four coolers, ensures efficient cooling. The needs-based fan speed reduces noise and fuel consumption. During dust-intensive work or working with front implement such as mowing, mulching or soil cultivation, deposits on the cooling grille can occur – a negative for performance and consumption. An optional reversible fan provides a help: By reversing the fan blades, the air flow is reversed and reliably cleans the cooling grilles. It is activated manually or automatically at defined intervals via the terminal. The radiator grille remains permanently free, the cooling performance constant and the fuel consumption low – without the interruption of work.

### Clean air for maximum performance

Thanks to its efficient circular filter technology, the engine air filter of the Fendt 500 Vario ensures a clean, cool air supply and maximum engine power. Thanks to the tool-free removable side panels on the bonnet, the centrally located filter can be cleaned with little effort. The low maintenance required and the status display in the terminal save time and money – for more productivity and a relaxed working day.



# VarioDrive – Now also in the mid-range performance segment

VarioDrive has revolutionised the drivetrain of large tractors. With the Fendt 700 Vario, the Fendt 600 Vario and the fourth generation of the Fendt 500 Vario, this technical innovation has now fully arrived in the medium performance segment. The single-stage VarioDrive drive with independent, torsion-free four-wheel drive stands for the perfect symbiosis of maximum traction, best soil protection and outstanding manoeuvrability. The pull-in turn effect reduces the turning circle by up to 10%, enabling easier and more precise manoeuvring. Fendt Torque Distribution provides permanent tractive power by intelligently distributing the torque to the axle with the best grip. What's more, you always drive in the right gear and have optimal power transmission at all times, which significantly reduces tyre wear and fuel consumption.

## Automatically optimal – with automatic maximum load 2.0 and TMS

With the advanced automatic maximum load 2.0 in combination with the Tractor Management System (TMS), work is always done in the optimum performance range. The TMS automatically adjusts the engine speed and the gear ratio optimally, while the maximum load control determines how far the speed may drop at maximum under load before the transmission adjusts. All you have to do is set the desired speed – the system takes care of the rest automatically. The result: noticeable fuel savings, higher efficiency and convincing work results

## Customer benefits with VarioDrive

- Maximum comfort due to elimination of the driving range shifting
- Independent drive of front and rear axle
- Torsion-free 4WD through separate drive of the front axle
- No manual four-wheel drive switching necessary
- Optimal engine-transmission tuning in connection with the Fendt iD low speed concept
- Smallest possible turning radius due to pull-in turn effect, optimal for front loader work
- Four-speed PTO for flexible applications with optimum efficiency
- Gear oil change only every 4 years / 4,000 operating hours

## Advantages of TMS and automatic maximum load 2.0

- TMS regulates the transmission setting and engine speed so that the tractor works in the most fuel efficient way
- Fully automatic adjustment of the load limit and thus the engine load
- Reach and maintain the target speed more quickly
- More dynamic driving under load
- Higher driving comfort through perfect coordination with optimum consumption

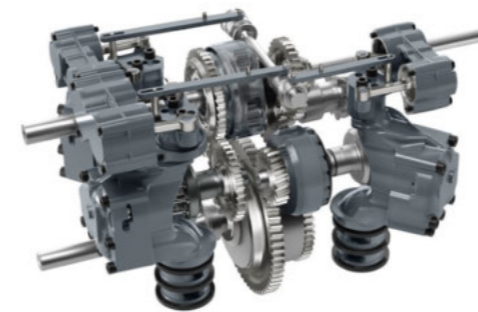


## Maintenance of the transmission

The concept of the Fendt 500 Vario is designed for low running costs. The tractor has separate transmission and hydraulic oil pans, which prevents the oils from mixing and prevents dirt from entering the transmission. A transmission oil change is only required every 4,000 operating hours or every 4 years, which significantly reduces maintenance costs.

## Benefits

- No dirt ingress into the transmission due to contaminated hydraulic oil
- Low maintenance costs, fewer downtimes due to long maintenance intervals
- Simplified diagnostic option that reduces time and costs



See the benefits of VarioDrive at a glance.



# Precise control and strong performance

The working hydraulics of the Fendt 500 Vario offer maximum flexibility. With two pump variants – 109 or 152 l/min flow rate – and a removable oil quantity of 51 litres, the tractor is ideally equipped for implements with high oil consumption. The electric load sensing pump ensures precise control. Power Beyond (also included as FFC) allows leak-free use with low pressure loss for a high-performance oil supply.

## Powerful working hydraulics

Depending on the equipment variant, up to 9 independent double-acting valves are available – up to 5 in the rear, 2 in the front and 2 or 3 arranged in the centre above the dust-protected multi-coupler. The flow rates are up to 120 l/min at the rear and 100 l/min at the front. The valves are individually adjustable and offer functions such as float position, time control and teach-in. UDK and DCUP couplings (with additional relief levers) enable convenient coupling under pressure, supported by colour-coded and neatly arranged connections with self-closing valve caps that reliably protect against dirt ingress. The operation is carried out intuitively via the multifunction control lever, the crossgate lever, the linear modules or the 3L-Joystick. The external operation of the additional control units is available on both sides and can be freely assigned. Thanks to the hydraulic oil preheating, the Fendt 500 Vario is ready for use quickly even in cold temperatures. With long oil change intervals of up to 2,000 operating hours or two years, the Fendt 500 Vario offers maximum performance with minimum maintenance.

## Advantages of hydraulic system

- High pump performance of 152 l/min for high-oil volume work at low engine speed
- Up to 9 independent valves in rear, centre and front
- Low maintenance costs due to long oil change intervals of up to 2,000 operating hours
- High removable amount of oil for secure supply of large consumers
- Use of bio-hydraulic oils supported due to separate oil reservoir
- No oil mixing/dirt ingress
- Outstanding ease of use
- Fast full functionality, even in cold weather

## Four-speed PTO – always in the right speed range

The standard four-speed PTO (540/540E/1000/rpm) enables particularly efficient work. Thanks to the four selectable speeds including two ECO modes, the PTO can always be operated in the optimum power and speed range. This not only increases productivity, but also significantly reduces fuel consumption by up to 7%. The electro-hydraulic pre-selection offers high operating comfort and is integrated in the FendtONE operating concept. Additional operating elements on both fenders in the rear make it easier to operate outside the tractor cab, save distances and increase efficiency in daily use.

## Automatic function and stationary mode

The automatic function of the PTO enables simplified operation. Switching the rear PTO on and off can be assigned to a button on the control lever and occurs automatically at predefined positions of the power lift. In stationary mode, a saved engine speed can be started when the PTO is externally activated. Thus, e.g., when filling the slurry tanker, it is unnecessary to enter the cab.



# Strong, precise, comfortable

## Intelligent front power lift

The double-acting front power lift has a separate valve and offers a maximum lifting capacity of 4,400 daN. It is fully integrated into the waisted half frame – the short front projection ensures optimum manoeuvrability and driving stability. The lower links have easy and tool-free folding and are removable. Vibration dampening and easy operation via the power lift control module and the terminal ensure maximum driving and working comfort. Thanks to the position control with rotary wheel, the depth of the working tool can be conveniently adjusted. Optionally, there is a front power lift with additional relieving control. The implement attachment is facilitated by external actuation and the optional camera. In addition to the two front power lifts, you can also select a comfort ballast holder.

## Comfort front power lift with position control and relief control

The comfort front power lift with position control and relief control ensures optimum work results. The load or relief pressure can be actively and dynamically controlled between 3-100 bar directly via the terminal. The control system starts at 0.6 km/h – without any additional relief springs. The result: higher forage quality, lower contamination and improved tracking accuracy even on slopes due to targeted loading of the front axle.

## Advantages of the front power lift with relief control

- Attachment follows the ground contour precisely at a continuous height for work that's gentle on the implement and saves fuel
- No need to install or adjust relief springs
- Exceptionally easy to use with settings on the Varioterminal
- Best traction and directional stability the weight transferred from the implement to the front axle increases traction and prevents drift on the hillside
- **Mower/mulcher:** Protect the sward for optimised forage quality, because of lower contamination proportion. Does not pierce into the sward.
- **Device combination with front packer/front tank:** best traction, steering capability, track following, clean, controlled levelling and compaction across the entire working width
- **For winter work with a snow plough:** constant load pressure control for uniform clearing results
- Reduced equipment wear and soil protection



## Rear power lift

The rear power lift is impressive with smart technology for precise and comfortable working: a lifting capacity of up to 7890 daN at the coupling point, double-acting lifting cylinders and active vibration dampening ensure stability – even when driving on the road with implements. The electronic hoist control (EHR) with two storage locations, external operation on both sides and load-compensated lowering enable convenient operation and use. This not only makes every task at the rear easier, but also noticeably safer and more productive.

## Lower link with parking position.

The tool-free height setting of the lower link is done by changing one bolt and pushing the lower link up until it engages. This shortens the lifting struts and brings the lower link into the parking position. This creates 15 cm more clearance between the lower link and the PTO/drawbar and ensures superior manoeuvrability in the team.

## Benefits

- Superior manoeuvrability with implement pairings due to larger steering angle
- Damage to safety-relevant components (PTOs/drawbars) is prevented
  - More safety
  - Less downtime
  - Less in repair costs
  - Tool-free conversion

## Powerful loading and precise control with Fendt Cargo

With the Fendt Cargo and Fendt Cargo Profi front loaders, the Fendt 500 Vario is ideally equipped. The Fendt Cargo shines in easy handling, tool-free attachment and detachment thanks to Cargo Lock and multi-coupler as well as sensitive control via crossgate lever or the 3L-Joystick. For the highest demands, the Fendt Cargo 4.80 Profi also offers smart functions such as the integrated weighing function, lift height limiter and a memory function for arm and tool positions. With a lifting capacity of up to 2.4 t and an lifting height of 4.18 m, it delivers powerful performance for demanding front loader work – precise, efficient and perfectly matched to Fendt tractors.



# Security and stability

## Maximum manoeuvrability with independent four-wheel drive

The Fendt 500 Vario is impressive with a track circle of only 10.1 m for 540/65 R28 tyres – ideal for front loader work. Thanks to VarioDrive and the “pull-in turn” effect, the front axle is actively pulled into the curve, resulting in a significantly smaller turning circle – without damaging the soil with minimal tyre abrasion. The compact design and the swivelling fenders enable maximum flexibility and time savings for every manoeuvre.

## Safe pneumatic braking – completely relaxed

With the pneumatic, sensitive four-wheel brake, the Fendt 500 Vario-brake brakes safely and in a controlled manner – even with heavy loads. The special braking system with compressed air system and low-wear coverings ensures short braking distances and low pedal pressure. Two air dryers keep the brake air dry, reliable and efficiently available. Further braking systems are available for demanding applications.

## Trailer brake assist: Full support for downhill driving

The Trailer brake assistant (TBA) stabilises the combination with a pneumatically braked trailer in critical situations. The TBA continuously monitors the degree to which the trailer is pushed onto the tractor and automatically adjusts the brake pressure without having to press the brake pedal. Overall, the TBA ensures safe and relaxed driving behaviour with a trailer.

## Additional braking force without wear

The hydraulic auxiliary brake of the Fendt 500 Vario uses the existing hydraulic circuit to create an additional braking effect when decelerating or driving downhill – without any mechanical wear. It is activated conveniently via a foot switch or a button on the armrest. Especially with heavy trailer loads, it provides a significant increase in safety. At the same time, the operating brake is protected, which leads to lower maintenance costs in the long term. This means that the tractor remains safe and controlled at all times, even for demanding transport tasks.



## A tractor with countless possibilities

The Fendt 500 Vario offers a wide range of different trailer systems in the trailing slide and in the bottom hitch. From the factory, the Fendt 500 Vario can be equipped with large tyres up to 1.85 m at the rear (650/65 R38 or optional 710/60 R38) and up to 1.42 m in the front (540/65 R28 or optional 600/60 R28) for optimum traction with minimal ground pressure. The large contact surface improves the tractive power, new hybrid tyres provide flexibility in changing conditions. The concept is supplemented by individually adjustable ballast – fully roadworthy, without speed limitation or number plate requirements. This keeps the Fendt 500 Vario efficient, manoeuvrable and soil-friendly – on any surface.

## More tractive power, less consumption – with VarioGrip

The fully integrated tyre pressure regulation system Fendt VarioGrip is available for flange and stub axles and enables automatic tyre pressure adjustment – even for twin tyres. Rotary entries enable internal laying of the cables, so they are effectively protected against damage. For the front and rear axles, two pressure values can be stored and called up while driving.

The system increases traction by up to 10%, reduces fuel consumption by up to 8%\* and protects the ground and tyres, thereby minimising wear. Operation is conveniently done via the terminal.

\*South Westphalia University of Applied Sciences; Agricultural Economics Soest

# VisioPlus cab

A large part of the working day in agriculture takes place on the tractor – all the more important is a workstation that offers more than just functionality. The Fendt 500 Vario is equipped with a generous panoramic window, which allows an impressive vertical field of view of 77°. Ideal for precise work with the front loader even at overhead height without contorting yourself to keep a view. Areas outside the direct field of vision are reliably covered by electrically adjustable and heated exterior mirrors as well as the front and rear cameras. When it rains, the 300° window wipers provide a perfect view of the wheel inlets and the area directly in front of the tractor. Even in the dark, the overview is maintained thanks to sophisticated, fade-free and shadow-free crossover illumination of the work lights. Fogged up windows are a thing of the past: The heated front window made of laminated safety glass (LSG) ensures a clear view at all times. At the same time, it offers optimum protection for stone chips and contributes to a calm and pleasant indoor climate thanks to the additional noise insulation.

## 2,520 litres

Space volume



### Benefits

- Exclusive 300° clear view on front window and a wiper on the right side window
- Washing nozzle integrated in the wiper arm
- No shadowing, e.g., from exhaust or hood of cross-illuminated work lights
- Maximum safety thanks to viewing the front and rear workspace thanks to hood and rear cameras
- Cab designed for long periods of use
- Comfortable sun shading through window-wide roller blinds
- Air conditioning concept especially for very hot regions for excellent cooling

### Maximum driving and working comfort thanks to cab suspension

As standard, mechanical cab suspension with two cone bearings at the front and two spring elements at the rear ensures optimum damping. Optionally, the comfort version offers pneumatic cab suspension with self-levelling. The cab suspension is optimally matched with the front axle suspension, the seat suspension and the power lift damping. The sophisticated overall suspension concept guarantees maximum driving comfort – even during long working days and demanding conditions.

### The premium driver's seat

Among the 6 seat variants of the Fendt 500 Vario, the super comfort seat in leather interior ensures maximum comfort. In addition to multi-level seat heating and air conditioning, it also offers a massage function. The backrest, side bolsters and lumbar support of the seat as well as the longitudinal adjustment can be adjusted electrically. Further comfort functions can be conveniently operated and set in the terminal. The individual driver settings are stored in the respective user profile thanks to the integrated memory function.





### Cab variants and cab entry

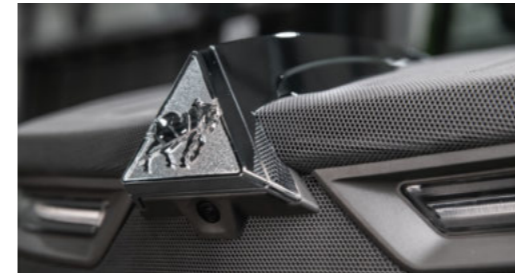
The Fendt 500 Vario offers three sophisticated cab variants that adapt perfectly to your individual requirements: The VisioPlus panoramic cab is impressive with a continuous front window and right cab side for maximum visibility. If you also want a door on the right, you will find the perfect solution in the panoramic cab VisioPlus with right door – with doors on both sides for even more flexibility and easy cleaning. The standard cab VisioPlus offers a right-opening door and an adjustable front window with two sturdy handles – for optimum ventilation and ease of use. All variants score with a clever cable entry: Three integrated, dust-proof feed-throughs below the rear window ensure a clean cab, better noise insulation and an orderly cable routing thanks to the bracket in the C-pillar. This way, everything stays where it belongs – safe and clear.

### Best visibility even at night

The illumination of the Fendt 500 Vario can be individually configured – from daytime running lights to powerful LED work lights with up to 4,000 lumens per spotlight. High-performance reflectors ensure glare-free illumination, while thermal management and vibration-resistant design ensure a long service life. Two light settings can be stored and can be easily accessed via the steering wheel adjustment lever or the terminal. Features such as the Coming-Home lights, the illuminated entry into the cab and the LED all-round lighting increase safety and comfort – even in the dark.

### GroundVision drawbar lighting

With the innovative GroundVision lighting concept, the work area behind the tractor remains optimally illuminated even in the dark. Two integrated fender spotlights provide 1,700 lumens – for a clear view of the rear implement area and maximum control with every movement. The system shows its strengths, especially when working at night with the disc harrow or when monitoring the pick-up on forage wagons or balers. The targeted shadow-free illumination of the rear implement area ensures full control, increases work safety and increases productivity – even during long periods of use until late at night.



### Bonnet and rear camera

With their high-resolution image quality, the bonnet and rear cameras ensure maximum safety and good view of the front and rear mounting areas and make it much easier to attach implements.

### Infotainment

The infotainment system in the Fendt 500 Vario offers state-of-the-art technology for entertainment and communication. It includes a hands-free system with optimally distributed microphones, excellent radio reception worldwide and the connection of external audio sources via Bluetooth, USB or AUX. Operation is intuitive via the terminal or the rotary dial on the armrest. Two sound systems are available – up to the 4.1 system with subwoofer for rich sound and the best listening experience in the cab.

### Pesticides with Category 4 cab for the best possible user protection

The Fendt 500 Vario can be equipped with an exchangeable filter system according to EN15695, which provides protection against dust, aerosols and vapours. The Fendt 500 Vario thus fulfils all requirements for the application of pesticides that require a category 4 cab. The driver is reliably protected in pesticide applications and wearing personal protective equipment in the cab is not required.



### Maximum customisation and intuitive operation with FendtONE

The Fendt 500 Vario combines modern technology with a well thought-out operating concept that offers maximum comfort and maximum adaptability. The modular combination of up to 3 display options, depending on the equipment variant – consisting of a digital 10" dashboard, a 12" terminal in the armrest and partially retractable 12" terminal on the right side in the roof liner – enables individual display and real-time synchronisation of all relevant functions. The content can be flexibly moved between the displays and displayed as required. The freely programmable armrest with multifunction lever, crossgate lever or 3L-Joystick and 14 function keys allows a personal configuration without additional controls. In addition, up to 4 linear modules and the operating modules for front and rear power lifts are integrated.

A logical colour concept supports intuitive operation: each function group is colour-coded, freely assignable buttons automatically adapt when the function is changed. Two LEDs per button give visual feedback on function and status – for maximum overview and safety. Thanks to individual user profiles and the consistent FendtONE operating philosophy – from the driver's workstation to the office – the Fendt 500 Vario is optimally tailored to the requirements of modern agriculture and ready for the future.



### Benefits

- All functions can be operated via the central armrest, no external terminals or joysticks are required
- Error messages and system information are displayed intelligibly and directly
- Future-proof through powerful computing unit and regular software updates
- FendtONE enables in-depth individualisation of operation and function settings for best ergonomics
- Uniform operating logic between FendtONE onboard (tractor) and offboard (office) – no re-accustomisation required



### 3L-Joystick – full control on three levels

The 3L-Joystick for Power+ Setting 2, Profi Setting 2 and Profi+ Setting 2 enables the convenient operation of hydraulic functions and parallel operation of up to 3 front loader functions or Fendt Cargo Profi functions. In addition, it is fully ISOBUS capable. Up to 27 functions can be distributed on three operating levels – individually adaptable with colour feedback. A reversing button saves reaching and facilitates change of direction. For more safety, the entire joystick can be locked to avoid unintentional operation. Ideal for demanding applications with high functional requirements.



### Multifunction levers – everything to hand

The multifunction lever in the Fendt 500 Vario combines central driving functions in a logical arrangement. Reversing, cruise control and driving speed can be controlled as usual via both avenues. A rotary wheel allows you to adjust the cruise control speed while driving. In addition, four buttons for operating headland management, 5 freely assignable buttons and 2 proportional rockers for individual functions are available. Important gearbox functions such as TMS or speed memory are clearly arranged in the lower area. The central position of all operating elements ensures less reaching and more comfort in everyday work.



# One thing is simple: FendtONE

## ■ Consistent operating philosophy

FendtONE's first holistic operating approach on the market enables seamless use without having to switch between different media.

## ■ Freely programmable control panel

The buttons can be freely assigned and customised via the Individual Operation Manager (IOM).

## ■ Terminal network

The first operating concept on the market with a terminal network and central computing unit ex works enables real-time synchronisation of content on the dashboard and terminal.

## ■ Unique colour concept

The logical and dynamic colour concept with different function groups and functions provides an optimum overview.



onboard

offboard

## FendtONE onboard – the driver's workplace in the cab

With FendtONE onboard, operating the machines is easier than ever before. Various technical functions combined with the high level of comfort of the cab make your day-to-day work in the field easier – for example with different guidance types or the machine control options. Get an overview of the FendtONE driver's workplace spotlights now.

### Machine control

The FendtONE machine control system optimally integrates the tractor and implement, which facilitates precise control of part-width sections and pinpoint cultivation of partial areas. This maximises operator comfort, saves operating inputs and reduces the driver's workload thanks to an intuitive operating system.



### Guidance system

Track guidance with FendtONE ensures precise machine operation and sustainable soil protection by automatically keeping the machine on the desired track. This reduces the driver's workload, lowers operating costs and saves time, especially on long working days.



When technology and comfort become one.

## FendtONE offboard – digital recording, analysis and management of data

Your business generates valuable data for the documentation and optimisation of machines, personnel and operating resources. The seamless recording and visualisation of data is essential for this. FendtONE offboard\* simplifies planning and documentation by wirelessly transferring standardised data to the portal. A simple and intuitive introduction to digital documentation and machine operation.

\*Please note that FendtONE offboard is not currently available in all countries.

### Agronomy

FendtONE enables seamless agronomy through the automatic documentation of field data collected during field work. This data is transferred to a farm management system, which ensures complete documentation and future-proofing while saving time in the office.



### Telemetry

Telemetry with FendtONE enables real-time monitoring and analysis of machine data, ensuring optimal fleet management and breakdown prevention. This data not only helps you, but also your service partner with diagnostics and maintenance, allowing better logistics and service decisions to be made.



When farm planning and management become one.



# So that your farm keeps running!

You must be able to rely on your agricultural machinery. However, something unforeseen can always happen. To keep your farm running, your Fendt Service Partner is available for you, especially during the harvesting season. This means you don't lose any valuable time in the field or during transport.

+44 330 123 9909



## Fendt Care service packages – The best for your agricultural machinery

Benefit from the optimum operational readiness of your Fendt agricultural machine with full cost control even beyond the statutory warranty period. Fendt Care membership offers you customised contracts for maintenance and repair cover. You choose exactly the service package and term that suits you. If you wish, you can secure all repair risks and shorten repair times by allowing your dealer remote access to the machine data via Fendt Connect. Fendt offers you the longest coverage in the tractor market and the most comprehensive agricultural machinery insurance in the industry. The advantages of Fendt Care are obvious: your risk is minimised, the costs are calculable and you have full planning security.

**Find your perfect Fendt Care tariff!**



## AGCO Finance – Your partner for the growth of your business

When deciding whether to rent, finance or lease, we provide you with complete support based on decades of experience. And Fendt Service is also there for you in your day-to-day work: to keep costs calculable, we offer you customised maintenance and service offers that go far beyond the statutory warranty.



## Spare parts – Genuine original parts, without compromise

To ensure that your Fendt remains 100% a Fendt, your Fendt Sales partner only installs genuine parts. These have a proven standard of quality and are safety-tested.

This pays off in many ways:

- 12-month warranty on Fendt original parts and their installation
- Operational reliability at the highest level – Top value retention
- Quickly on the spot in an emergency.

**During the harvesting season, your Fendt Sales partner is available seven days a week and around the clock. In the event of a machine breakdown, the technician will be at your site within a short time and will repair your machine as quickly as possible.**

Please note that the availability of Fendt Service Packages varies from country to country.

## Demonstration service – Test it yourself

Would you like to see for yourself how our agricultural machinery performs in the field? This is possible with the Demo service. After a short briefing from your dealer, you can test how the new tractor or harvester performs in everyday use on your own farm. After all, you know best what the new machine needs to be able to do.

**Arrange a demonstration immediately!**



# Technical specifications and equipment variants

		513 Vario	514 Vario	515 Vario	516 Vario
<b>Engine</b>					
Rated power	kW/hp	99/134	106/144	113/154	121/164
Maximum power	kW/hp	99/134	106/144	113/154	121/164
Maximum power with DP ECE R 120	kW/hp	106/144	113/154	121/164	128/174
Cubic capacity	cm³	5017	5017	5017	5017
Rated speed	rpm	1900	1900	1900	1900
Max. Torque	Nm	651	698	745	792
Fuel level	litres	290.0	290.0	290.0	290.0
AdBlue tank	litres	35.0	35.0	35.0	35.0
Exhaust gas treatment		SCR+DPF	SCR+DPF	SCR+DPF	SCR+DPF
<b>Transmission and PTO</b>					
Transmission type		TA120 VarioDrive	TA120 VarioDrive	TA120 VarioDrive	TA120 VarioDrive
Speed range forward	km/h	0,02 - 50	0,02 - 50	0,02 - 50	0,02 - 50
Speed range 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/1000/1000E	540/540E/1000/1000E	540/540E/1000/1000E	540/540E/1000/1000E
Front PTO option		1000	1000	1000	1000
<b>Power lift and hydraulics</b>					
Variable flow pump	l/min	109	109	109	109
Variable flow pump option 1	l/min	152	152	152	152
Max. valves (front/centre/rear) Power	number	1/2/4	1/2/4	1/2/4	1/2/4
Max. valves (front/centre/rear) Power+	number	1/2/5	1/2/5	1/2/5	1/2/5
Max. valves (front/centre/rear) Profi / Profi+	number	2/3/5	2/3/5	2/3/5	2/3/5
Max. available hydraulic oil volume	litres	51	51	51	51
Max. lift capacity of rear power lift	daN	7890	7890	7890	7890
Max. lift capacity of front power lift	daN	3420	3420	3420	3420
<b>Electrical features</b>					
Battery power	Ah/V	180/12	180/12	180/12	180/12
Alternator	V/A	14/200	14/200	14/200	14/200
<b>Tyres</b>					
Front tyres (standard)		480/65R28	540/65R28	540/65R28	540/65R28
Standard tyres rear		600/65R38	650/65R38	650/65R38	650/65R38
1st option for front tyres		540/65R28	480/70R28	480/70R28	480/70R28
1st option for rear tyres		650/65R38	580/70R38	580/70R38	580/70R38
2nd option for front tyres		VF 600/60R28	VF 600/60R28	VF 600/60R28	VF 600/60R28
2nd option for rear tyres		VF 710/60R38	VF 710/60R38	VF 710/60R38	VF 710/60R38
<b>Dimensions</b>					
Overall width with standard tyres	mm	2450	2450	2450	2505
Overall length	mm	4961	4961	4961	4961
Total height of driver's cab with standard tyres without Fendt Guide	mm	2975	2975	2975	2975
Total height of driver's cab with standard tyres with Fendt Guide	mm	3025	3025	3025	3025
Max. ground clearance	mm	470	470	470	470
Wheelbase	mm	2560	2560	2560	2560
Small turning radius with standard tyres	m	10.1	10.1	10.1	10.1
<b>Weights</b>					
Operating weight (incl. common accessories - +/- 5%)	kg	6700	6850	6850	6850
Max. permissible overall weight	kg	11750.0	11750.0	11750.0	11750.0

	Power	Power+	Profi	Profi+
<b>Engine</b>				
Low-speed concept Fendt iD	■	■	■	■
Reversible fan	□	□	□	□
Fuel pre-filter (heated)	□	□	□	□
Preheater unit (engine, transmission, hydraulic oil)	□	□	□	□
<b>Transmission</b>				
VarioDrive, single-stage, with independent all-wheel drive	■	■	■	■
Shuttle function, stop-and-go function	■	■	■	■
Acoustic signal when reversing	□	□	□	□
<b>Guidance system</b>				
Guidance system basic package	■	■	■	■
Standard Trimble / NovAtel	□	□	□	□
RTK Trimble / NovAtel	□	□	□	□
TI Headland (TI Auto & TI Turn Assistant)	□	□	□	□
Contour Assistant	□	□	□	□
<b>Implement Slope Compensation</b>				
Implement Slope Compensation	□	□	□	□
<b>Agronomy</b>				
Agronomy basic package	■	■	■	■
<b>Telemetry</b>				
Telemetry basic package	□	□	□	■
Smart Connect	□	□	□	□
<b>Machine control</b>				
Machine control basic package	■	■	■	■
Front implement control	□	□	□	□
Section Control	□	□	□	□
Variable Rate Control	□	□	□	□
Fendt Implement Management (TIM)	□	□	□	□
Fendt Implement Management (TIM-Steering)	□	□	□	□
<b>Vario operation</b>				
Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	■	■	■	■

	Power	Power+	Profi	Profi+
3L joystick	□	□	□	□
Individual Operation Manager – flexible key assignment	■	■	■	■
Digital Dashboard	■	■	■	■
12" terminal with touchscreen and key control	□	□	□	□
Second 12" terminal in roof	□	□	□	□
Fendt Active steering	■	■	■	■
Electronic immobiliser	□	□	□	□
Without immobiliser	■	■	■	■
<b>Cab</b>				
Active charcoal filter	□	□	□	□
Category 4 cab air filter system	□	□	□	□
Mechanical cab suspension	■	■	■	■
Super comfort seat 3-point belt	□	□	□	□
Comfort seat, air sprung	■	■	■	■
Super Comfort Seat, air sprung	□	□	□	□
SuperComfort Seat Titanium Leather/DL Electric	□	□	□	□
SuperComfort Seat Titanium / DL	□	□	□	□
SuperComfort Seat EvolutionUp DuMo / DL	□	□	□	□
Instructor seat	■	■	■	■
Comfort instructor seat	□	□	□	□
Air-conditioning	■	■	■	■
Integrated automatic climate control	□	□	□	□
Climate-controlled storage compartment	■	■	■	■
Cooler and thermal box	□	□	□	□
Split windscreen and door on right	□	□	□	□
One-piece windscreen and door on right	□	□	□	□
Front windscreen laminated safety glass, heated	□	□	□	□
Rear window heated	□	□	□	□
Roller shade rear	□	□	□	□
Segment wipers front	■	■	■	■
Rear window wash/wipe	□	□	□	□
Side window wash/wipe system right	□	□	□	□
Comfort mirror + clearance light	□	□	□	□
Retractable comfort mirror + clearance light	□	□	□	□
Ext. rearview mirror, mechanically adjustable	■	■	■	■
Roof mounted rear camera	□	□	□	□
Hood mounted front camera	□	□	□	□
Auxiliary device holder	□	□	□	□
Terminal bracket	□	□	□	□
Universal mobile phone holder	□	□	□	□
Universal tablet holder	□	□	□	□
Tablet bracket	□	□	□	□
Two additional coaxial speakers	□	□	□	□
Infotainment bundle + 4.1 sound system	□	□	□	□
4 camera connections	□	□	□	□
4 USB ports	□	□	□	□
EC tachograph standard	□	□	□	□
Fendt Reaction steering system	■	■	■	■
Radar sensor	□	□	□	□
Self-cancelling indicators	■	■	■	■
Electric battery disconnect switch	□	□	□	□
Floor mat	□	□	□	□
<b>Lighting</b>				
Bi-halogen headlights	■	■	■	■
Low beam and high beam LED	□	□	□	□
Cornerlights	□	□	□	□
Auxiliary lights front	□	□	□	□
Auxiliary LED lights at front	□	□	□	□
Work lights A-pillar, rear mudguard	□	□	□	□
Work lights LED A-pillar, rear mudguard	□	□	□	□
Work light mudguard rear GroundVision	□	□	□	□
Roof rear work lights / 2 pairs	□	□	□	□
Roof rear LED work lights / 2 pairs	□	□	□	□
Working lights roof front LED / 2 pair	□	□	□	□
Roof front working lights / 2 pair	□	□	□	□
LED rear lights	■	■	■	■
Daylight running light	□	□	□	□
LED rotating beacons	□	□	□	□
Chrome package	□	□	□	□
<b>Chassis</b>				
Front axle suspension self-levelling, lockable	■	■	■	■
Single-circuit braking system 1 pedal	■	■	■	■
Single-circuit braking system, 2 pedals and steering clutch brake	□	□	□	□

	Power	Power+	Profi	Profi+
Electro-pneumatic handbrake	■	■	■	■
Electro-pneumatic handbrake (handbrake assist)	□	□	□	□
Hydraulic auxiliary brake	□	□	□	□
Automatic trailer steering axle lock	□	□	□	□
Trailer brake assistant	□	□	□	□
Compressed air system 2-circuit system	■	■	■	■
Compressed air Duomatic coupling	□	□	□	□
VarioGrip tyre pressure regulation system	□	□	□	□
<b>4WD / differential locks</b>				
Smart 4-wheel drive	■	■	■	■
<b>Power lift</b>				
Electrohydraulic power lift sa (EHR), with external controls	■	■	■	■
Shock load stabilising, electro-hydraulic power lift control	■	■	■	■
<b>PTO</b>				
Rear PTO 540/540E/1,000/1,000E rpm	■	■	■	■
Rear: Flanged PTO 540/540E/1000/1000E rpm	□	□	□	□
External controls for rear PTO	■	■	■	■
<b>Hydraulics</b>				
EHS valve actuation linear module	□	■	■	■
External control for hydraulic control unit at rear	□	□	□	□
Load sensing system with axial piston pump (152 l/min)	□	□	□	□
1st and 2nd EHS valve at rear	■	■	■	■
3rd EHS valve at rear	■	■	■	■
4th EHS valve at rear	□	□	□	□
5th EHS valve at rear	□	□	□	□
1st front EHS valve	□	□	□	□
2nd front EHS valve	□	□	□	□
Hydraulic power beyond connection	□	□	□	□
Hydraulic connection Power-Beyond FFC	□	□	□	□
Return Front	□	□	□	□
Double connect-under-pressure lever couplings rear	□	□	□	□
CUP coupling rear	■	■	■	■
Bio hydraulic oil	□	□	□	□
<b>Additional equipment</b>				
Manual hitch	■	■	■	■
Automatic trailer hitch with remote control, rear	□	□	□	□
Ball coupling, height adjustable	□	□	□	□
Ball coupling, short, in the bottom hitch	□	□	□	□
Hitch	□	□	□	□
Drawbar	□	□	□	□
Piton-fix	□	□	□	□
Comfort ballast for front-end weight (not available with front power lift)	□	□	□	□
Front weights, various sizes	□	□	□	□
Wheel weights, rear wheels	□	□	□	□
Forced steering (one or two-sided)	□	□	□	□
Pivoting front wheel mudguard	□	□	■	■
ABS trailer sockets	□	□	□	□
<b>Front loader</b>				
Front loader attachment parts	□	□	□	□
Fendt Cargo 4.75 S	□	□	□	□
Fendt Cargo 4.75 - 3rd valve	□	□	□	□
Fendt Cargo 4.75 Profi	□	□	□	□
Fendt Cargo 4.75 Profi - 3rd valve	□	□	□	□
Fendt Cargo 4.80	□	□	□	□
Fendt Cargo 4.80 - 3rd valve	□	□	□	□
Fendt Cargo 4.80 - Profi	□	□	□	□
Fendt Cargo 4.80 - Profi - 3rd valve	□	□	□	□
Working lights front loader LED	□	□	□	□
Multi hose coupl. FL	□	□	□	□
Front loader - 3rd hydr. working group	□	□	□	□
Front loader - multiple coupler/attachment	□	□	□	□
3rd circuit	□	□	□	□
Suspension system DA	□	□	□	□
FL – hydr. attachment lock	□	□	□	□



As of 01.09.2025, the current technical specifications can be found here: [fendt.com/500-vario-data](https://fendt.com/500-vario-data)

# FENDT



Leaders drive Fendt.



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