

FENDT

Fendt 500 Vario





Your farm, your perspective.

The Fendt 500 Vario is the perfect all-round tractor that you can always depend on. Its strengths include traction, precision cultivation, excellent efficiency, comfortable and safe when transporting. By the time you come to use the front loader, you'll see how manoeuvrable and manageable the tractor is. Your work will take on a new quality and provide excellent prospects thanks to these tractors. Fendt 500 Vario. Your ideal perspective.



Ideal prospects for your farm.

Whether on an arable, finishing or grassland farm, every implement immediately finds an ideal connection on the Fendt 500 Vario – a clear advantage for you, because you can meet the many requirements of your farm with only one tractor. Whether medium-sized or large, farms today rely on high power ratings, flexibility, quality and efficiency of tractors. Make your farm future-proof, with the Fendt 500 Vario, the tractor for all seasons.

Engine		512 Vario	513 Vario	514 Vario	516 Vario
Rated power ECE R 120	kW/hp	91/124	98/133	110/150	120/163

500 Vario: Innovations and perfect modularity with 4 configuration options.

- SCR fuel-saving solution with passive CSF system, up to 50% less AdBlue – a saving of up to €4,000
- Save fuel with the 1000E PTO – a saving of up to €1,700
- Varioterminal 7" and 10.4" with touch and key control
- 300° windscreen wipers
- New generation of LED working headlights for 35% more brightness – 48,500 lumens
- 3 front power lift versions including relief control
- A whole range of assist systems: Deceleration assist, brake light assist, trailer auto steering
- VarioGuide automated steering system with a choice of receivers and extensive correction service options
- VarioGuide Contour Assistant
- VariableRateControl (VRC): Control the application rate depending on your position
- 100% ISOBUS-capable
- Software update capability: Performance capacity that grows with your business
- Increased rear axle load + 1 t compared to predecessor
- Bar axle up to 2.5 m



500 Vario – equipment bundles – features – Power – PowerPlus – Profi – ProfiPlus

Power	PowerPlus	Profi	ProfiPlus
VisioPlus cab with aircon and Comfort Seat	Equipment is the same as the Power bundle, plus:	Almost all options available	All options available
Varioterminal 7" touchscreen and key control	VarioGuide setup with choice of receiver (Trimble/NovAtel)	Super Comfort seat* and Comfort passenger seat	Varioterminal 10.4" – touchscreen and key control
Variotronic ³ headland management system	Slip control system using gears and GPS reading	Hydraulic pump with 110/158 l* flow volume	Documentation on VarioDoc Pro
Hydraulic plugs max. 4/0 or 3/1	ISOBUS implement control	Hydraulic plugs max. 5/2*	VarioGuide setup including 2 receiver options (Trimble/NovAtel)
Hydraulic pump with 75/110 l* flow volume		Front cornerlights with halogen	Slip control system using gears and GPS reading
3 front power lift options: standard / position / position and relief control*		170 Ah battery	VarioActive steering
90 Ah battery		White painted roof	Variable Rate Control (VRC)*
		Automatic steering axle lock*	SectionControl*
		Double-acting rear power lift*	Contour Assistant*

* optional

THE CAB OF THE FENDT 500 VARIO

For unrivalled comfort and visibility – Fendt VisioPlus cab.



The panoramic windscreen with a full 77° field of vision upwards and over the wheel arches.

VisioPlus suspension cab: Full visibility

The Fendt VisioPlus cab is a true wonder of visibility and space, with a 77° panoramic view. The windscreen arches into the roof without an obstructive cross bar, giving you a continuous view of the extended front loader. Ingenious cross-lighting with full visibility even at night. To the ground and straight ahead, your line of vision is improved with the compact bonnet and waisted half-frame. Then there's the full control armrest in the cab with suspension as standard. You will immediately feel at home here. Driver and passenger seat, visibility, controls and suspension – the entire body of the cab has been well thought out from the ground up, designed for your well-being and ultimate working conditions. Profi, the specialist farming magazine, praises the full package in its issue of 7/2017: "Space and visibility is superb, and just 69.9 dB(A) too".

Welcome home: End-to-end control concept

With the 500 Vario you can enjoy the uniform control concept of all key Fendt machines from the 500 to the 1000 Vario. With uniform controls you can find a more productive and relaxed way of working with trusted and ideal ergonomics. The practical arrangement and colour coding of the controls guarantee continuous, fast and logical use. All the functions are arranged on the fully integrated multifunction armrest and always within reach. The steering wheel and cockpit are quickly and easily adjusted in height and tilt; the instrument cluster pivots with them so it's always in the right position.

Extensive seat options

Take your place in your ideal driver seat. Everything you need to make a long work day comfortable – from the pneumatic suspension seat to the leather seat with pneumatic support and climate control. The new, dynamic moveable driver seat, the "Evolution dynamic Dual Motion super comfort seat" is especially beneficial for your back – the upper part of the backrest moves along with your body when you turn around to look towards the rear, and also supports your back when reversing. For greater safety, a three-point safety belt is available as an option for the super comfort seat.

Attention to detail makes all the difference

A range of smart details brings more joy to your every day. The dirt-protected entrance with wide steps and the easy-to-reach handles are especially practical. The door seals fixed on the frame allow the doors to be closed easily. This includes a cooler box, a number of storage compartments, 3 stretch nets and built-in drinks holder. The swan neck microphone on the radio with hands-free system gives you the best call quality. The ingenious, integrated cable lead-through guides cables cleanly into the enclosed cab. Dust, noise and water stay outside. There is an additional handle on the rear window so you can reach the open window at any time. The air-conditioning system comes as standard, with automatic climate control available on request.

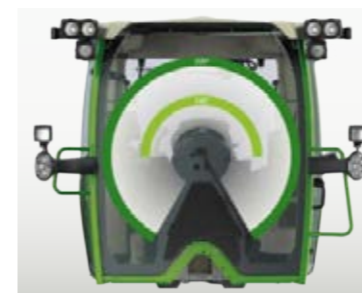
As standard: A perfectly aligned cab suspension is the key to safe and relaxed driving and working. The mechanical cab suspension effectively minimises vibrations and shocks. The optional pneumatic cab suspension is also self-levelling at the rear.



The wide, opaque roller shade is adapted to the curved front window and can be adjusted to any position you like.



Another great feature is the Comfort passenger seat with safety belt and foldable backrest with table function and document holder.



Full view with 300° wiper field: The exclusive windscreen wiper covers your entire field of vision, right across to the wheel arches.



Keep food and drinks in the cooled storage compartment for your refreshment. The compartment behind the passenger seat can be opened with one hand.



Enjoy top quality hands-free phone conversations on the Fendt 500 Vario thanks to the flexible swan-neck microphone.

END-TO-END FENDT OPERATING CONCEPT FOR ALL KEY MACHINES

Uniform controls to make your work relaxed and productive.

End-to-end Fendt operating concept

For years, Fendt has implemented a winning control concept in the right armrest on all of its key vehicles; made up of the Varioterminal, multifunction joystick, crossgate lever, valve switches and membrane keypad. There are two terminal options for you to control the tractor and implement functions.

The 7" Varioterminal – compact and intuitive

The 7" terminal with LED backlighting brings all the tractor and implement functions together in compact form. ISOBUS-capable implements can also be controlled from here. The flat hierarchy menu is easy to navigate. Use the menu options by tapping the screen or a key. The display has a clear resolution, is scratch-proof and easy to clean. The display dims automatically at night, without any glare.

All-in-one or 4-in-1 VarioTerminal 10.4"

Tractor and implement controls, camera function as well as guidance and documentation are completely integrated. Practical: Variable full-display screen layout, split screen or four separate images. The high-quality scratch-proof display has a resolution of 800 x 600 pixels for an ultra sharp image, even in night mode. With a turn of the hand, you can make your settings by touch control (e.g. at a standstill) or using the keys on the move.

Everything at hand: Multifunction joystick

With the multifunction joystick, you can control the tractor easily and precisely. The 4-way multifunction joystick accelerates, decelerates and reverses without having to change gears. The joystick lies well in the hand and numerous features can be activated directly on the lever: cruise control, speed memory, the hydraulics and additional automated functions, such as the headland management. The valves can be freely assigned with the Varioterminal and triggered with a click on the multifunction joystick.

25-implement memory for perfectly configured equipment

With the 25-implement memory, you can save each implement with its own settings and the headland sequence. This saves you from having to enter repeat settings each time. Even if you have different drivers, they can then work efficiently and optimised without making any settings. The numerous setting parameters include: power lift, PTO, hydraulics, maximum load, cruise control, engine speed, 4WD and differential locks.

The 500 Vario with fully integrated control console and 7" or 10.4" terminal: The multifunction joystick, the linkage pad, valve switch and controls are all in a clearly laid out control panel. Intuitive layout and colour-coding. The console is backlit and ensures safe operation at night. You can control the transmission, shuttle control and cruise control with the 4-gate Vario joystick. There are four auxiliary functions: hydraulics, automatic linkage control, two cruise controls and engine speed memory, acceleration rates and TeachIn sequences.



The Variotronic[®] smart headland management system ensures consistent, superior results at the headland. The 500 Vario has the best headland management system in its class. 5 triggers (route, time, front power lift, rear power lift and manual) and 13 function groups help you control an impressive 74 functions. Programming is easy at a standstill or on the move. Shift smoothly between the individual sequence steps. Later all it takes is a touch of a button to activate the automated sequences at the headland.



ISOBUS implement control on the terminal and joystick: Using the optional ISOBUS interface, all ISOBUS-capable implements can be operated with the Varioterminal, so additional implement terminals are not needed. The Vario joystick also gives you up to 10 control buttons. This allows you to easily control the implement with the multifunction joystick.



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 ENGINE ON THE FENDT 500 VARIO

The ideal engine for your farm.



Information at a glance – e.g. via the consumption indicator on the terminal.

High on torque, efficient and clean

With up to 687 Nm (516 Vario), the dynamic, high-torque 4-cylinder engine is tried and tested for all kinds of work in the power segment with a maximum output of 131 to 171 hp. The 4-valve technology with common rail injection enables efficient fuel consumption for the best overall efficiency. With the combination of the SCR exhaust after-treatment and CSF passive diesel particulate filter, the Fendt 500 Vario complies with the latest emissions standard Stage 5 / Tier 4 final and boasts an especially economical diesel and AdBlue consumption. The aluminium pistons also have a special remelted bowl edge for maximum stability and durability.

Powerful, quiet and efficient in the neutral Profi Test (7-2017)

Along with DLG, the neutral testers from the specialist farming magazine put the 514 Vario through its paces. Their verdict was this: "At 4.1l the 4-cylinder is powerful, quiet and efficient. The DLG tests on the PTO brake showed off the best side of the 514 unit. Of the 99 kW rated engine power, almost 94 kW were felt at the stub. At maximum speed, it was a very decent 101 kW." And the testers' verdict on diesel consumption? "259 g/kWh or even just 232 g/kWh at the PTO is phenomenal, with only 10 g/kWh AdBlue on top of that".

Powerful cooling to unleash more power

Areas that develop a lot of heat need to be cooled accordingly. Radiator, intercooler, transmission oil and fuel cooler form a highly efficient cooler unit for an efficient and powerful engine. The powerful water pumps delivers 312 l/min for ideal engine cooling. The additional fuel cooler allows for an even more effective use of energy, because cooler fuel produces more power. Together with the engine oil heat exchanger, the engine runs at particularly low temperatures. This means the Fendt 500 Vario delivers the best performance, even under extremely high temperatures.

Efficient exhaust technology

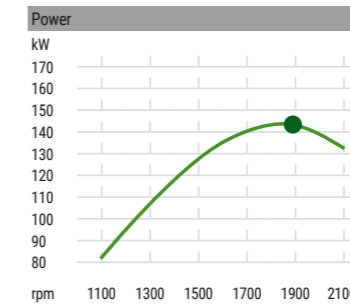
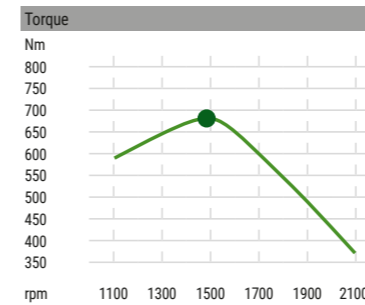
The exhaust after-treatment and diesel particulate filter reliably clean the exhaust, reduce AdBlue consumption and ensure a long lifetime with low operating costs. The external exhaust gas recirculation (EGRex) already reduces nitrogen oxides before they reach the exhaust line, so less AdBlue is required. The passive diesel particulate filter (Coated Soot Filter, CSF) cleans unburned hydrocarbons and particulate matter out of the exhaust. The integrated heat management system regenerates the diesel particulate filter (CSF) automatically while driving.

The high-performance air filter on the Fendt 500 Vario has a long filter life thanks to a precleaner, and is easy to access for maintenance work. It has a particularly effective position in the low-dust area behind the cooler unit.

Additional fuel cooler unleashes the most output, because cooler fuel delivers more performance.



The Fendt 500 Vario reaches its top speed of 50 km/h at a low engine speed of 1,700 rpm, with 40 km/h achieved at a low, quiet 1,400 rpm.



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



The 500 Vario has a 298 l capacity diesel tank which can work extensively without stopping. The AdBlue Tank is fully integrated into the diesel tank and holds 31 litres. Both tanks can be filled from the same side.

TRANSMISSION AND PTOS ON THE FENDT 500 VARIO

Enjoy and benefit from Vario added power.

Vario added power – up to 7% savings on working time and up to 9% less diesel

The extra power of the Fendt Vario comes from always working at the perfect speed and optimum efficiency to achieve maximum area coverage. It taps into power reserves that quick shift gears just can't touch. Independent tests* show that this saves you up to 7 % in working hours* and up to 9% diesel* compared to shift gears, depending on the type of farm. For a 100 ha forage farm, that's up to 46 working hours over 6 working days and 14,500 litres of diesel** saved over 7,000 operating hours. In terms of cash benefits with the continuous system, that's over €30,000**! Trust the expertise gained through more than 250,000 assembled gearboxes.

* Landwirtschaftliches Wochenblatt Westfalen-Lippe, 5-2001; 100 ha forage farm;
** Own calculations: 165 hp tractor, 700 operating hours per year – runtime 10 years/7,000 operating hours; average consumption 25 l diesel / operating hours; saved operating costs: Rental costs for a 165-hp tractor – €24/operating hour *** (machine ring adjustment rates 165 hp – <http://www.mr-bayreuth.de/images/inhalte/verrechnungsheft2018.pdf>; 460 operating hours = €15,360/7,000 operating hours

Perfect handling: Continuous at 20 m/h

From a dead slow 20 m/h up to 50km/h, work with continuous power transmission without changing gears. Even on slopes you can come to a smooth standstill thanks to the active stop control – and accelerate gently and without any jolting. This protects you and your soil.

Reverse without changing gears, and with 2 cruise controls

Stepless, wear-free reverse for even easier handling – optionally via joystick on the right or the reversing lever with integrated holding function below the steering wheel on the left. Excellent support especially during loading work. With 2 cruise controls, you can save 2 speeds and retrieve them at any time.

The perfect duo: TMS and automatic maximum load system 2.0

The tractor management system TMS controls the engine and transmission so that they are always effortlessly working at their best. You just have to specify the desired speed. Then there's the automatic maximum load control, which sets the engine pressure according to power requirements. This means the engine works at its ideal speed range. Operators can adjust the maximum output control manually. With kick-down mode you can start off like driving an automatic car.

Three-speed rear PTO with 1000 E economy PTO

The direct force path from the engine to the PTO stub means the 500 Vario, with its 3 PTO speeds, transmits power to the PTO with exceptional efficiency. The optional 1000E PTO – delivering 1000 rpm with just 1,540 engine turns – can save you 7% on fuel.

Triple PTO with start-up control and lift height-dependent PTO automatic mode – easily preset electro-hydraulically on the membrane keypad, the start-up control ensures a gentle, implement-friendly start-up. Another benefit is the PTO automatic mode, which conveniently switches on and off the PTO depending on the lifting height.



You can easily adjust the transmission functions on the armrest, e.g. the driving pedal range with the rotary control. TMS, 4WD and PTO speed with a click on the keypad. The PTO preset and auto functions are marked in yellow.



The automatic maximum output control 2.0 regulates the engine speed (engine load) according to power requirements, so the engine always works in the optimal range in terms of fuel consumption and driving speed.



Driving pedal or joystick control: The driving mode can be selected individually: The speed can be controlled with either the pedal or the joystick. Change drive direction either with the joystick or the reverser lever with integral stop and go function.



Wear-free reversing with neutral and Stop and Go. Constant power transfer – for smooth, soil-protecting acceleration.



The ingenious Fendt Vario transmission is a hydrostatic-mechanical power split drive. The PTO stub rotates freely.

VERSATILITY AND FLEXIBILITY: HYDRAULICS – FRONT AND REAR POWER LIFT

Ahead of the rest in more ways than one.



Intuitive operation with a compact power lift control module (EPC) and PTO control.

Hydraulics system with up to 158 litres of flow volume
The 500 Vario is equipped with modern load-sensing technology with a hydraulic capacity of up to 158 l/min. You can have up to 7 electrohydraulic double-acting valves, 5 at the rear and 2 at the front. The hydraulic oil is kept warm, so it's always ready for action, even on cold days. A central display in the cockpit shows the oil level at all times.

EPC rear power lift with unrivalled functionality
The rear linkage with a lift capacity of 7,780 daN guarantees that even the heaviest mounted implements can be lifted to their full extent. From the cab you have an excellent view of the lower links, ball-type coupling and trailer opening. Other practical benefits: The unrivalled one-handed lower-link latch and the simple spindle adjustment of the lift rods with an integrated length scale. Change the spread of the lower links without tools using the bolts. Then there is the load-compensating lowering for a constant drop rate whatever the weight. You can opt to have a down-force rear power lift, which is particularly practical for changing tyres.

3 front power lift versions to suit every task
The power lift with vibration damping is available with the standard model and Comfort front power lift with position control or with position and load relief control. This all helps optimise your feed quality. You can define the field pressure in the Varioterminal for balanced implement driving. This is a great help in grassland with a front mower, because the implement follows the ground contour precisely, at a constant height. No need for conventional relief springs. The weight transferred from the implement to the front axle simultaneously increases traction and prevents drift on the hillside. Research studies confirm that this optimises the feed quality, as the raw ash content in the feed decreases if the sward is not pierced. For winter work with a snow plough, the constant field pressure control provides uniform clearing results.

Separate oil supply – high extraction quantity
The separated oil supplies for the hydraulics and gearbox prevent the oils from mixing, which is especially important if implements are changed frequently. The high oil volume of 55 litres also allows use of large skips. Another benefit: the use of bio oil in the hydraulic circuit. The leakage oil container – integrated into the front and rear power lift – also contains clean, reusable oil.

The exclusive front power lift with load relief control is particularly helpful for front mower work on grassland, with front mulching implements or with a snow plough, as the implements very quickly adapt to uneven ground.



The front power lift is fully integrated and sits tight against the vehicle. This keeps the linked machines highly manoeuvrable. The lower links have a particularly good bottom grip and can be folded for parking. Bellows protect the lifting cylinders against stone impact. The vibration damping fitted as standard prevents bounce and guarantees safe driving and comfort.



All the hydraulics settings are made by touch/key control on the terminal. Then there's the option to assign all the valves to the controls you find the most ergonomic.



The hydraulic couplings are offset and colour-coded at the rear for easy one-handed coupling and perfect accessibility. The dust caps are self-closing with a spring mechanism.

Logical, precise and productive: Fendt VarioGuide.



With Fendt VarioGuide you can keep on track to an accuracy of +/- 20 cm (VarioGuide Standard) or +/- 2 cm (VarioGuide RTK). You can use a receiver and correction service of your choice.

Fendt VarioGuide – always on the right track

With Fendt VarioGuide you can drive steadily and accurately, even in poor visibility. Fendt VarioGuide lets your machine work at full capacity, because you can stay on track without actively steering, even at night or with large working widths. With Fendt VarioGuide, the tractor automatically maintains the ideal line so that you can concentrate fully on the implement. There is less overlapping and, depending on your work, you can see savings of 3% to 10%. Depending on the application, you can work to an accuracy of approx. 20 cm (VarioGuide Standard) or even 2 cm (VarioGuide RTK).

Fendt VarioGuide – choice of 2 receivers

We offer two different receiver systems – NovAtel® or Trimble®. With the NovAtel® receiver, the correction signals SBAS, TerraStar-L & C and RTK keep you on track. Choose a Trimble® receiver to use SBAS, RangePoint™ RTX™, CenterPoint RTX™ and RTK. If you lose your RTK signal due to the terrain, VarioGuide continues to work reliably up to 20 minutes thanks to the Trimble®-xFill™ or NovAtel® RTK Assist solution.

New waylines with Fendt Contour Assistant

Fendt machines with the Varioterminal 10.4 and VarioGuide system (NovAtel® or Trimble®) can use the Fendt Contour Assistant. With the new Contour Segments and Single Track waylines added, your work is now even easier and more efficient. The different segments are recorded by just a single lap around the field using the Contour Segments wayline type. Field boundaries can therefore be quickly and easily established. Use Single Track to record an almost endless track with an open contour. You no longer need to automatically generate parallel tracks. This feature is perfect for maintenance work (fertilising, plant protection). Complete tramlines can be stored as one contour line.

SectionControl – avoid going over the same section twice

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



The VarioGuide receiver is exceptionally well protected and fully integrated into the roof. Without overhanging parts or externally guided cables, the technology is particularly well protected against hanging branches but also theft.



Variable application with VariableRateControl (VRC)

With VarioDoc Pro data transfer, you can now apply products at variable rates based on the needs of the soil or plants, to save on resources. Based on VarioDoc Pro for documentation, there is a new solution now out for precision farming, VariableRateControl (VRC). The individual requirements for seeds, fertiliser and pesticides are shown on application maps. They are then called up during operation and automatically executed. The big advantage: You can define and plan resources in the field database then apply them with maximum precision.

FENDT VARIOTRONIC FOR MORE EFFICIENCY AND PROFITABILITY

Valuable assistants: documentation, telemetry and software updates.

Your work at a glance with Fendt VarioDoc

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

Data monitoring in real-time: Fendt VarioDoc Pro

VarioDoc Pro also records GPS position data and data transfer in near realtime. This enables the automatic, seamless exchange with ISOXML-compatible field management software and mapping. The data for the operating inputs that have been used are transferred according to the TC-Geo standard and can be viewed in the Varioterminal while working.

Telemetry: Efficiency from tractor to data management

Those who invest in a tractor, also invest in the future. The operating capacity of your fleet is optimised as soon as the machines are connected effectively to each other. The latest interfaces and software solutions already let us call up machine data wherever we are, so we can adapt and respond immediately. This increases the response and operating times of your entire fleet at the push of a button. The new AGCO Connectivity Module (ACM), the central transmission unit for all data transfer with regard to telemetry solutions, forms the interface between the tractor and office.

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



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



Performance capacity that grows with your business – from update to upgrade

Fendt Variotronic always keeps you up-to-date, now and in the future. How can I do that? This starts when you buy your Variotronic machine and simply continues throughout your machine's service life. Because, rather than restricting them to future models, the free exclusive software updates from Fendt come with newly developed functions that are also made for current and older models. The easier way of updating your Variotronic is to have it updated by your dealer during a maintenance interval. This ensures your Fendt machine performs at its best, retains its value and guarantees return on your initial investment long into the future.

VEHICLE DESIGN – BUILD – PAYLOAD – CHASSIS – MANOEUVRABILITY

Ahead of the rest in more ways than one.

The superior driving and working comfort of an HGV
The intelligent combination of three systems guarantees maximum ride and operating comfort: self-levelling front axle suspension with anti-roll control, cab suspension and active shock load stabilising.

Front axle suspension – up to 7% more area coverage and couldn't be easier.

The self-levelling front axle suspension with 80 mm suspension guarantees optimum traction and increases your area coverage by up to 7%. The ever powerful Vario drive also delivers the best driving safety even on hillsides or with front loader use.

Self-levelling with full control

The integral automatic self-levelling with position sensor guarantees constant suspension comfort for any load. The suspension can be completely deactivated at the touch of a button for work that requires particular accuracy and precision, like loading.

Safe driving, even with high payloads

The 500 Vario is based on a robust half-frame, which is designed for a permissible overall weight of 10,500 kg and a high payload of over 4,000 kg. The space-saving half-frame design creates the space required for the suspension with longitudinal arm, which provides especially high ride comfort.

Smart 4WD and automatic differential lock

The automatic steering and speed-dependent system for 4WD and the rear multi-disk differential lock is a huge help on the headland. Depending on the requirements, both systems are switched on or off depending on steering angle or speed. The result is ultimate tractive power and soil protection with full manoeuvrability.

Smart assistants for even more safety

The 500 Vario features 2 active assistants for deceleration and brake lights, for even more driving safety. Any deceleration of the vehicle even without braking triggers the brake light indicator and provides faster early detection for the traffic behind you. By detecting thrust, the deceleration assist ensures increased driving stability and flexibly adjusts the deceleration when driving with a trailer attached. This also ensures less load on the drive train and a long service life.

The automatic steering axle lock unlocks the steering axle at a predefined speed on trailers with self-steering axles. On straight stretches, the locked self-steering axle ensures stable handling. Operators do not need to lock the self-steering axle manually outside of the preselected speed range or when reversing.

High payload of almost 4 tonnes: 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. According to the Profi test results of 7/2017, this leaves room for an "impressive 3.9 t payload".

Superior manoeuvrability: Profi, the specialist farming magazine, praised the unrivalled turning circle of just 11.10 m (Issue 7/2017).



Fendt Reaction steering for safe straight-ahead driving: This exclusive Fendt steering system enables particularly sensitive and safe control and has excellent responses for safe straight-ahead driving.

At the headland or during front loading work, you benefit from VarioActive steering, reaching a full wheel turn with just one steering wheel rotation. Up to 8km/h the superimposed steering system is unrestricted, from 8 to 18 km/h the superimposition effect is linear.

FENDT CARGO AND CARGO PROFI FRONT LOADERS

Smart loading expert.

Fendt 500 Vario – ideal front-loader tractor with the best view

A true joy for anybody that does frequent front loader work: The Fendt 500 Vario and the Fendt Cargo front loader are ideal partners. From the agile, stable design to swift working style and easy controls – it's the perfect team. You can see the fully raised bucket through the panoramic front window that curves up into the roof. The front window, which can be opened fully during loader work, has proven itself useful for work in warehouses, for example. The area between and in front of the wheel arches has also been optimised. Because the bonnet and waisted frame on the 500 Vario are kept particularly narrow and neat. 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. Lift height limiting has proven itself useful in low halls and the tipping angle setting is practical for loading high trailers. End position damping ensures the front loader is raised gently and smoothly, which minimises loss of material through trickling.



It couldn't be easier to make CargoProfi settings on the Varioterminal: Show the crossgate lever function, view single weight and overall weight data from the weighing system, limit the working range for the swing arm and attachment.

Perfect controls: turn and steer on the left, load on the right.

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

Ideal steering and damping system

Less steering and more fun at work with the front loader thanks to 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 small yards, but also at the headlands. Add to that the active damping on the front loader: Gas pressure reservoirs absorb vibrations and shock loads so they are not transmitted to the tractor body. The damping, in combination with the front axle and cab suspension, is so comfortable, you will surely remain seated a bit longer in the Fendt 500 Vario, even if you are already finished.

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.

The crossgate lever, fitted as standard, offers sensitive control without you having to reach over two control valves. Complex implement functions can be controlled with the optional third and fourth hydraulic circuits. These are activated and controlled by pushbuttons on the crossgate lever.

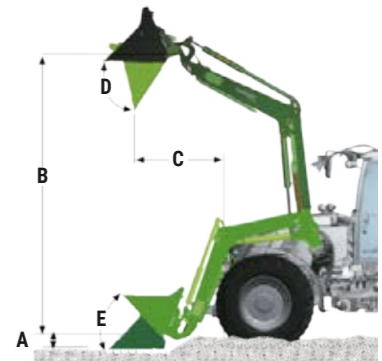
The optional hydraulic attachment lock and the vibration damping system can also be conveniently operated from the driver seat.



The full panoramic windscreen offers a wide 77° viewing angle and a full view to the raised front loader and wheel arches.

Fendt Cargo front loader		4X/75 ¹	4X/80 ¹
A	Digging depth (tyre-dependent)	mm	150
B	Excavation height (tyre-dependent)	mm	4155
C	Laying width at height of 3.5 m (tyre-dependent)	mm	1685
C	Laying width (tyre-dependent)	mm	1145
D	Angle of emptying	degrees	55
E	Angle of backwards tilt	degrees	48
	Continuous lifting capacity	daN	1940
	Max. lift capacity	daN	2250

¹ Same values apply to Fendt CargoProfi



FENDT 500 VARIO

Fendt VisioPlus cab.



■ For the best sitting position, the steering wheel and cockpit must be at the right height and tilt angle. That's why the complete cockpit of the Fendt 500 Vario can be individually adjusted, all by foot pedal.



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



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



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



□ The upper part of the backrest on the new Evolution Dynamic Dual Motion Super Comfort seat turns along with the operator when looking towards the rear and provides support when reversing. The seat is also fully equipped with seat heating, temperature control and pneumatic suspension.



□ The Evolution Dynamic Dual Motion Super Comfort Seat 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 passenger seat can fold away and be used to store documents.



□ The comfort passenger seat is ergonomically formed and has additional cushioning. It has a safety belt and when folded down it acts as a table with a document holder.



□ A perfectly aligned cab suspension is the key to safe and relaxed driving and working. With a 4-point bearing, the mechanical cab suspension effectively minimises vibrations and shocks. It's all based on two conic bearings at the front and mechanical spring elements at the rear. For particularly demanding work, opt for the unwavering comfort of the pneumatic cab suspension with built-in self-levelling function. This rests on conic bearings at the front and pneumatic spring elements at the rear.



■ The Varioterminal can be adjusted in all directions thanks to the bracket with ball joint.



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



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



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

□ In addition to a CD and MP3 player with Bluetooth, the radio also has a flexible swan-neck microphone for hands-free phone calls with top audio quality.



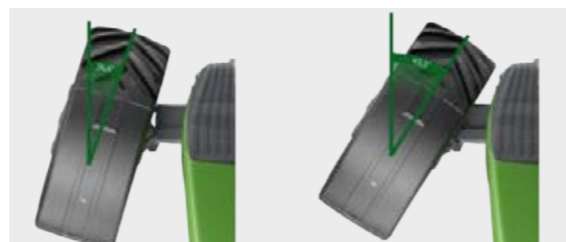
■ Especially popular in the summer: The hatch integrated in the roof liner provides fresh air, fast and draft-free.



■ A special feature of the Fendt 500 Vario is the vertical handle on the rear window, which lets you open and close the window from the comfort of your seat.

FENDT 500 VARIO

Additional equipment – chassis – manoeuvrability.



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

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

□ With VarioActive steering you can go through a full steering angle with only just turn of the steering wheel. This is particularly practical at the headland or during front loader work.



■ The 500 Vario has a self-levelling front axle suspension, fitted as standard, for up to 7% more tractive power without compromising on driving comfort. Especially during heavy-duty work, the front axle is in permanent contact with the ground – i.e. full traction – which prevents "power hopping". Uneven ground is absorbed over the long suspension play of +/- 50 mm. You can also lock the suspension if you want: This is important for accurate loading with a pallet fork or precise depth guidance with a front cultivator. The 52° steering angle of the front axle guarantees maximum manoeuvrability. The suspension function can be switched off, e.g. to pick up the front weight.

■ The exclusive Fendt Reaction steering system, fitted as standard, guarantees sensitive steering and perfect straight-ahead driving. The steering has a resetting torque built-in, much like passenger cars. Rest assured your machine will react with confidence on the road.

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



■ Exclusive and particularly practical: The indicator reset has 3 trigger settings: steering angle, time and speed.

FENDT 500 VARIO

Hydraulics and mounting areas.



Interfaces at the front: Top link, 2 double-acting control valves, unpressurised front return, 7-pin trailer socket, front PTO optionally with 1,000 rpm, optional front power lift, optional: electronic position control, load-relieving front power lift control



Interfaces at the rear include Signal socket, ISOBUS connection, hydraulic top link, 5 double-acting control valves, unpressurised rear return, compressed air brake, Power Beyond control line, Power Beyond pressure line, hydraulic trailer brake, 7-pin socket, lower link arrestors, ABS socket, rear PTO (standard: 540 / 540E / 1,000; Optional: 540E / 1,000 / 1,000E), trailer coupling, bottom hitch



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



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



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



□ Power Beyond is available in the rear for operating heavy-duty hydraulic machines. Full hydraulic power is directly available without any unnecessary resistance. The pressureless return with a large cross-section has a low resistance.



□ ISOBUS socket for connecting the implement control unit.



□ 3 high-quality integrated front power lifts: The front-power lift sits particularly compactly on the vehicle, which means that the entire vehicle always remains very manoeuvrable. Max. lift capacity 3,130 daN. Other features: Lower links with particularly good lower grip, fold in to park. Lifting cylinder protected by bellows against stone impacts. The vibration damping fitted as standard prevents bounce and guarantees safe driving and comfort, even when carrying heavy loads.

FENDT 500 VARIO

End-to-end lighting concept.



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



End-to-end lighting at the front with halogen driving light, halogen cornerlights (from Profi), work lights (opt. LED) on the A-pillar as well as the auxiliary headlights in the roof and the exclusive crossover work lights (opt. LED) for the best illumination out front without drop shadows.



As well as the regular rearlights, the lighting at the back includes work lights in the roof (opt. LED) and more work lights (opt. LED) on the mudguards.

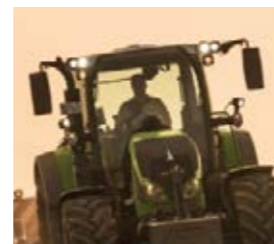


■ Coming home function: For a safe way home, the headlights and cab lighting keep shining, even after the engine has been switched off.

More light to work by – delivered by the 360° LED lighting concept with increased light intensity totalling 49,900 lumens. This produces an even wider light beam. 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 bright as day when working at night. High-power reflectors for even illumination without glare. And another benefit: LEDs save electricity. The following LED headlamps are available for the Fendt 500 Vario: 4x roof rear, 4x roof front, 2x A-pillar, 2x mudguard rear.



Your entire workstation is perfectly suited to night work, with its integrated rear lighting.



■ Simply ingenious: The crossover layout of the work lights in the roof prevents shadows.



■ 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.

FENDT 500 VARIO

Trailer system, ballast and payload.



□ For the 500 Vario you can choose from 6 lower attachment systems: Retractable Cat, 3 drawbar and offset drawbar, hitch, standard and heavy duty Piton Fix and ball head coupling.



The Fendt 500 Vario has flexible ballast options. Diverse front and wheels weights are available: The range of front weights covers 3 sizes: 400 kg, 870 kg and 1,250 kg. Even on models without a front power lift, you can attach/detach every front weight with the Comfort ballast pickup.



Wheel weights of 200 kg, 300 kg and 600 kg.

A flexible ballasting system with front weights up to 1,250 kg and wheel weights with max. 2x 600 kg ensures maximum traction. A low vehicle weight of just 6 tonnes and a payload of over 4 tonnes makes the Fendt 500 Vario very fuel efficient and gentle on the soil in the field.





FENDT SERVICES

The best product with the best care and service.

With a Fendt 500 Vario, you get a cutting edge product that will overcome the toughest of challenges. That's why you can expect that little bit extra when it comes to services from highly-efficient, certified Fendt dealers:

- Fast lines of communication between you and our trained service team.
- 24/7 availability of replacement parts throughout the season
- 12-month warranty on Fendt original parts and their fitting

100% quality. 100% service: Fendt Services
We offer outstanding services to offer you the best possible reliability of use and efficiency from your Fendt Machine:

- Fendt Demo service
- Fendt Expert operator training
- AGCO Finance – finance and lease deals
- Fendt Care – servicing and guarantee extensions
- Fendt Certified - Pre-owned machine programme



+44 330 123 9909

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

FENDT SERVICES

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

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



Fendt Demo service

Is this a new purchase? You'll love our Fendt solutions and overall efficiency. Let the Fendt Demo service make the decision easier.

Fendt Expert operator training

We help you get the most out of your vehicle. With the help of our exclusive Fendt Expert operator training programme, you can optimise the efficiency of your Fendt even further, and get to know all the functions to make your daily routine that much easier. Our team of professional trainers will advise you on how to use your Fendt machine to its full potential.

Fendt Care – maintenance and warranty extension up to 8 years / 8,000 operating hours

To keep your machine ready for action at any time, we offer a tailored maintenance and repair service beyond the statutory warranty, which only covers the repair risk of a new machine in the first 12 months after handover. That's where Fendt Care comes in. With flexible terms up to an impressive 8 years / 8,000 operating hours, and flexible rates with and without excess, your machine can be guaranteed beyond its first year. Your Fendt dealer will only install Fendt original parts. These have a proven standard of quality and are safety-tested. This ensures the best value retention for your Fendt machine.

Individual finance and lease models

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

Fendt Certified - Pre-owned machine programme

Leaders drive Fendt – including with pre-loved agricultural machinery. Used agricultural machinery to tried and tested high-quality standards and certified Fendt quality – the ideal solution for cost-conscious farmers or as an addition to a growing fleet.

The benefits:

- Certification according to strict Fendt quality standards
- Extensive incoming check (technology, wear, appearance)
- Carefully serviced wear parts and component replacement, cleaning and painting where necessary
- One-year warranty (option to extend)

Full control over costs and planning reliability

Fendt Care	Bronze	Silver			Gold ¹	Platinum ¹
Service	Regular maintenance, fixed maintenance costs	Cover against repair risk (excludes wear)			All costs covered (except wear and tear)	Costs and availability covered (except wear and tear)
Benefits	Reliability of use	Coverage against major damage	Full coverage under great conditions	Full protection while you keep costs under control	Protect against all unexpected repair risks including all secondary costs	For customers who can't afford to down tools
Regular maintenance	✓	✓	✓	✓	✓	✓
Repair costs		✓	✓	✓	✓	✓
Excess		€490	€190	€0	€0	€0
Travel costs, recovery/towing, troubleshooting with added diagnostics tools, performance testing, oils and filters, if engine/gearbox is repaired					✓	✓
After hours and weekend surcharge						✓
Replacement machine						✓

¹ Valid for UK, Germany and France. Platinum only available at participating dealers.



8 years / 8,000 operating hours

With its flexible Care warranty extension, Fendt offers particularly long policy periods of up to 8 years or 8,000 operating hours. Another benefit is the transferability in the event of reselling the machine and the possibility of renewal. This ensures operational reliability, minimises the cost risk of repairs and gives you a value-retaining used machine.

Easy to maintain with unbeatable residual value.



The engine compartment is very easily accessible for inspection and maintenance, even with front loader attachments. The bonnet has two separate side parts to make it easy to open.



Less to do, leave work earlier: The compact radiator package is very accessible and can be cleaned easily and quickly because of the generous clearance between the coolers and the flat radiator bottom.



The high-performance air filter achieves optimum air intake and cleaning and is easy to replace.



The superior value retention of a 500 Vario is a solid building block for its overall economic efficiency. Solutions like this often don't come to market until years later. Benefit: a real investment for years to come.

Fendt extras.



Fendt extras are a great addition to your Fendt machine. Choose from an extensive range of products including lubricants, AdBlue, care kits, cab accessories and much more. All extras are available for purchase exclusively from your Fendt dealer.



What can we do for you?

What makes Fendt Services different?

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

How do I get a software update?

Fendt software is update-compatible, so your Fendt always features the latest technology. This ensures that your Fendt machine is technologically advanced, that it maintains its value, and keeps your investment as up to date in the future as it was on the first day you bought it. Contact your Fendt dealer for details.

What is Fendt Expert?

Become an expert on the Vario Profi with Fendt Expert driver training: Are you already familiar with all the functions that the technology has to offer? Take advantage of the technology in every Fendt Vario and learn how to make best use of every feature, with Fendt Expert. Our team of professional trainers will advise you on how to use the full potential of your Fendt tractor. Contact your dealer for details and register today.

fendt.com

Find everything online – from brochures to technical specifications, from reports about customers or our company to our Fendt event calendar.

Fendt Configurator

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

fendt.tv

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

Test drives

Go to fendt.com and select "Fendt Services" on the "Service" page, select the "Demo Service", then register for a test drive with the tractor of your choice.



Standard and optional equipment
 Standard: ■
 Optional: □

FENDT 500 VARIO

Equipment variants.

	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		□	■	■
Variotronic TM - Headland Management System	■	■	■	■
Guidance system VarioGuide NovAtel / Trimble		□		□
VarioDoc - documentation system (only with Varioterminal 10.4")			□	■
VarioDoc Pro - documentation system				■
SectionControl				□
VariableRateControl				□
VarioGuide Contour Assistant				□
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			□	□
Instructor seat	■	■		
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	□	□	□	□
Wide-angle mirror	■	■	■	■
Radio mounting kit with two stereo speakers	■	■	■	■
Radio CD MP3	□	□	□	□
Radio CD MP3 hands-free speaking system	□	□	□	□
Radar sensor			□	□
Chassis				
Front axle suspension self-levelling, lockable	■	■	■	■
Steering brake	■	■	■	■
Automatic trailer steering axle lock			□	□
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	□	□	□	□

PTO

Front: 1000 rpm	□	□	□	□
Rear PTO 540/540E/1000 rpm	■	■	■	■
Rera PTO 540E/1000/1000E rpm	□	□	□	□

Hydraulics

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.



		512 Vario	513 Vario	514 Vario	516 Vario
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	cm³	4038	4038	4038	4038
Rated speed	rpm	2100	2100	2100	2100
Max. torque at 1450 rpm	Nm	550	590	649	687
Torque rise	%	42.0	40.0	38.0	33.0
Fuel level	litres	298.0	298.0	298.0	298.0
AdBlue tank	litres	31.0	31.0	31.0	31.0
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 option		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
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
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	6050.0	6050.0	6400.0	6400.0
Max. permissible overall weight up to 40 km/h country-specific exception approval required	kg	10500.0	10500.0	10500.0	10500.0
Max. permissible overall weight up to 50 km/h country-specific exception approval required	kg	10500.0	10500.0	10500.0	10500.0
Max. trailer hitch load	kg	2000.0	2000.0	2000.0	2000.0

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