

FENDT

Fendt 500 Vario

512 • 513 • 514 • 516



The new Fendt 500 Vario

Formed by Ideals

The 500 Vario brings together the best ideals in a completely new tractor series. The dimensions of the legendary 500 Favorit, paired with an award-winning design, are visible signs of the technical progress. The combination of up to 165 hp maximum output with fuel-saving SCR technology brings high efficiency to a new performance class. The ideal features of the Fendt high-horsepower tractors – the unique VisioPlus cab and the Variotronic – are now also found in the new 500 Vario. That is ideal, through and through.

512 Vario	125 hp	92 kW
513 Vario	135 hp	99 kW
514 Vario	145 hp	107 kW
516 Vario	165 hp	121 kW

* Maximum output to ECE R 24



Uncompromisingly ideal

The comfort and technology of the high-horsepower tractors are found in the new 500 Vario. As components of the Variotronic, the new Vario-terminal, camera functions, automatic steering and documentation, have now found their way into this tractor class. You will experience enormous savings in fuel costs thanks to the SCR technology. This makes the 500 Vario another representative of Fendt Efficient Technology.

More information at:
www.fendt.com/efficient-technology

More comfort

- Unique VisioPlus cab
- All functions in one terminal
- Up to 1920 hand movements less a day*
- VarioGuide automatic steering for the first time in this performance class at Fendt
- Seat and cab suspension for maximum ride comfort

More performance

- 165 hp maximum output
- 50 km/h at just 1,700 rpm

More economy

- Save fuel with SCR
- Tractor Management System TMS
- Automatic maximum output control
- Low weight-to-power ratio of 39 kg/hp

More versatility

- 22 connections for maximum versatility
- Ideal front loader operations with new front windscreen and factory-installed front loader

More safety

- Six points for comfort and driving safety**
- Better overview thanks to large glass area in the VisioPlus cab

More for the environment

- 95 percent less NO_x
- 95 percent less particulate matter
- Less CO₂ emissions through lower fuel consumption
- Less operating materials through less overlapping

*Internal comparison Fendt (p.10/11), **see page 24





Visibility without limits

The Fendt VisioPlus cab with its unique glazed areas sets the benchmark for overview and visibility. The interior has impressive high-quality workmanship. As is typical for Fendt, the controls are logically placed and well thought-out and the Vario is easy to control. A first-class workplace.

The ideal operator environment

The Fendt VisioPlus cab

Work is a pleasure in the new Fendt VisioPlus cab, because it is a miracle in visibility and spaciousness. The windscreen curves up into the roof and provides a full view of the raised front loader. More room and nearly six square metres of glazing make the cab very spacious. The ergonomic, intelligent operating interface and the high-quality workmanship, provide you with the convenience and comfort that substantially increase your performance.

Open or closed?

The new front windscreen on the VisioPlus cab is a true plus in visibility. The curved top of the window has tripled the upward view angle. The downward sightlines through the front windscreen and the waisted bonnet have been optimised for an ideal view to the wheel arches. The front window of the new Fendt 500 Vario is offered in two variants: the first variant is the familiar opening window and doors on the right and left-hand sides. If you prefer an absolutely unobstructed view, we recommend the second standard version with a continuous front windscreen and a door on the left side.

Ergonomics as never before

When developing the 500 Vario, special emphasis was placed on the ergonomic design of the operator environment. All operating functions have been optimally placed on the right armrest, which moves along with the driver seat, and in the new Varioterminal. The steering wheel is height and tilt adjustable. The instrument cluster swings along with it and is therefore always in an ideal position. Air-conditioning is standard and automatic climate control is available as an option.

The final touch in comfort

Many small details as just a pleasure: LED entry lights in the roof liner, ambient lighting in the cab, a cooling compartment, various storage spaces and much more are your practical daily helpers. Enjoy either the low noise level in the cab or the best sound through the MP3 radio with sound system. And if you're not working alone, there is a comfortable seat for your passenger. The comfort instructor seat is completely cushioned and offers plenty of sitting space.



The upward viewing angle has been tripled. The downward sight lines have also been optimised and it is easy to see into the wheel arches.



- Large VisioPlus cab for an exceptional sense of space
- Curved front windscreen for excellent visibility
- Pure ergonomics in the cab
- Ergonomically designed control console on the right armrest
- Comfort instructor seat, folds down, can be used as table
- Air-conditioning is standard, automatic climate control is available as an option

The ideal operating controls

The Fendt Variotronic controls

The Fendt Variotronic, with its many benefits, has already caused a stir in the Fendt high-horsepower tractors. Now the modern operating interface has also been integrated in the 500 Vario. The large 10.4" Varioterminal and the 7" Varioterminal are distinguished by their user-friendly menus and practical touch technology.

1,920 hand movements less per day

During turning manoeuvres at the headland, operators usually have to change between different controls, sometimes up to 12 times. In the 500 Vario it is not necessary to change

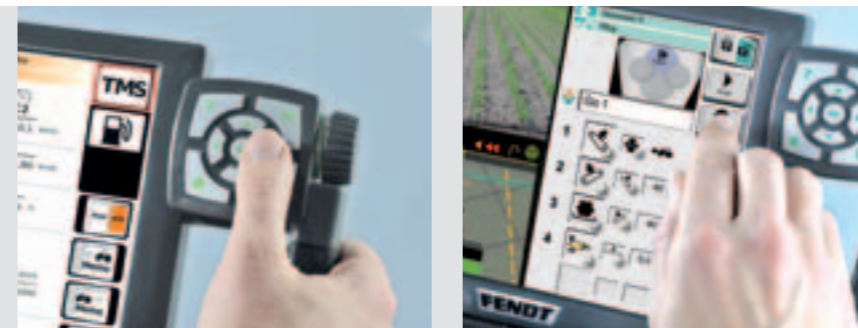
controls, because the right armrest is the central operating control. Operators can rest their arm on it and control the tractor and implement using the multi-function joystick and Varioterminal. The linkage control module next to the crossgate lever controls the quick lift switch, depth control and front and rear PTO engagement. Thanks to headland management, operating errors during turning manoeuvres are a thing of the past. On a 10-hour day with some 160 turning manoeuvres, operators can save up to 1920 hand movements. Their performance remains at a high level over the entire workday and they are still fit and relaxed in the evening.

Flat menu hierarchy and everything in view

Thanks to the flat menu hierarchy and the clutter-free display, operators can learn to use the Varioterminal quickly and always have everything in view. The high-resolution scratch-resistant screen and all function indicators automatically adapt to ambient light conditions. Optimal day and night viewing modes significantly reduce strain on the driver's eyes. The components of the Varioterminal are manufactured according to the motto "Made in Germany", so that you can be sure you are getting high quality, reliable electronics with the best workmanship.

Better driving with full suspension

The design of the suspension on the 500 Vario enables maximum ride comfort in the field and on the road. The combination of front axle suspension, cab suspension and seat suspension, which provide a driving sensation on par with passenger cars, was adopted from the high-horsepower tractors. The pneumatic four-point suspension is the most comfortable variant available for the 500 Vario. The mechanical cab suspension also offers good ride comfort.



Key or touch control?

You can easily change menu settings in the Varioterminal by either touching the screen or pushing the navigation buttons. You can navigate through the menus using either the keys or the touchscreen. The tractor controls on both terminals are identical.



Pneumatic cab suspension

The pneumatic four-point cab suspension reduces vibrations to a minimum and provides high ride comfort. It is supported on four points with integrated self-levelling: the cab rests on two conic bearings at the front and on two air spring elements at the rear.

- Ingenious Variotronic operating interface in the 500 Vario, like on the Fendt high-horsepower tractors
- New Varioterminal – operated per touch and with keys on the attached operating element
- Ideal menu navigation and display in the Varioterminal
- Pneumatic cab suspension is optional
- Coordinated suspension concept: cab suspension, seat suspension plus front axle suspension
- New Fendt Evolution Dynamic seat is optional

The "4-in-1 Varioterminal"

Finally, all functions in one terminal

The Fendt Variotronic is the unique electronic control system that unites all functions in one terminal: tractor and implement controls, camera functions as well as the documentation and automatic steering system are completely integrated in the Varioterminal 10.4" and can be operated using the same operating logic. That saves you the cost for additional terminals. For standard farming requirements, Fendt offers the 7" Varioterminal.

The last turning manoeuvre is as precise as the first

The 500 Vario is equipped with the Variotronic^{TI} headland management system as standard, which ensures that the last turning manoeuvre is as precise as the first. The Variotronic^{TI} is clearly displayed in the Varioterminal. With just a touch of a button, operators can activate automated operating sequences at the headlands. To optimise the sequence of the steps, they can also be edited and adjusted individually when the tractor is at a standstill. That saves you time at the headlands and prevents possible operating errors on long workdays.

VarioGuide automatic steering system in the 500 Vario

Fendt offers the VarioGuide automatic steering system in the power segment from 125 to 165 hp for the first time. VarioGuide is optimally integrated in the Variotronic and can be operated with the Varioterminal. VarioGuide can reduce overlapping by an average of six percent and save fuel and inputs, such as seeds and fertiliser, by six percent. Operators can easily monitor the tractor and implement with VarioGuide, even at night and in poor visibility conditions.

Modern job management with VarioDoc

Documentation is the most important basis for farm management for agricultural businesses. With the new VarioDoc, relevant data can be recorded with a minimum of effort, documented in the field record and analysed in the shortest amount of time. Using the Varioterminal, all important information can already be entered in the field so that follow-up work in the office is reduced to a minimum. And it works the other way around, too – jobs can be created using the PC and transferred to the terminal.



7" Varioterminal

With a 7-inch screen diagonal, the 7" Varioterminal is a handy and functional companion for tractor operations and Variotronic implement control.



10.4" Varioterminal

The 10.4" Varioterminal fulfils all operator wishes. Now, in addition to the tractor operations and Variotronic implement control, the external cameras, the new Fendt VarioGuide automatic steering system and the VarioDoc documentation system can be controlled with just one terminal.



Better quality of work with VarioGuide automatic steering

With VarioGuide, operators can concentrate fully on the implement. That increases performance and has a positive impact on the overall quality of work, even in poor visibility conditions. VarioGuide guarantees maximum reliability thanks to new satellite technology.

- For the first time, all functions are clearly integrated in just one terminal
- ISOBUS implements can be operated via Variotronic implement control
- Variotronic^{TI} headland management with easy setting options
- Precise and reliable Fendt VarioGuide automatic steering
- Fast documentation and wireless data transfer with VarioDoc
- VarioActive steering for stronger steering movements



Screen layout

Up to four applications can be shown on the screen at the same time. It is easy to set a custom display layout.



Variotronic Implement Control

ISOBUS implements are clearly displayed in full screen mode and can be conveniently controlled per touch. Up to 12 functions can be controlled at the same time.



Implement and tractor settings

In the half-screen view, two applications are displayed side by side or one on top of the other and can be controlled simultaneously.



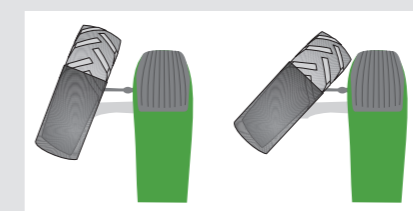
Camera view

The large 10.4" Varioterminal provides up to two camera connections. The use of cameras significantly increases comfort and safety.



Variotronic^{TI} headland management

With Variotronic^{TI} headland management, operators can create and save turning sequences while driving or standing still. The sequence is displayed along with the triggers, such as time or distance. Individual steps can be edited at a later time.



VarioActive superimposed steering system

With the VarioActive superimposed steering system, a stronger steering ratio can be activated. It adapts itself to the steering movement and ground speed. This enhances operating comfort, especially for front loader work in tight farmyards or at the headlands.



Cutting-edge engine and transmission technology

The compact powerhouse

The dynamic drive train on the 500 Vario is highly efficient and enables excellent fuel economy. The 4.04 litre four-cylinder engine boasts the modern and environmentally friendly SCR technology for exhaust after-treatment. The 500 Vario boasts a stepless Vario transmission and offers ideal comfort and economy in the power segment with a maximum output from 125 to 165 hp.

The ideal of efficiency

Save fuel with SCR

The maximum output of the 500 Vario ranges from 125 up to 165 hp. For this new series, Fendt also relies on SCR technology with AdBlue® emission control for compliance with emissions standard Euro Stage 3b (Tier IV interim). On the Fendt high-horsepower tractors, this drive train – the engine together with SCR and the Vario transmission – has already proven itself as the most fuel-efficient in the industry*. A further plus: exhaust after-treatment takes place after combustion and does not impair it. The engine itself is therefore ideally tuned and thus achieves outstanding dynamics.

Fendt automated efficiency functions make saving easy

Stepless speed adjustment provides enormous savings potential in time and money. In the 500 Vario, the continuously variable transmission ensures high drive train efficiency. The Tractor Management System TMS keeps the tractor operating at an economic optimum. Operators only need to enter the desired speed and the activated TMS takes control over the engine and transmission. That means efficiency, fully automatically.

Automatically drive at the limit

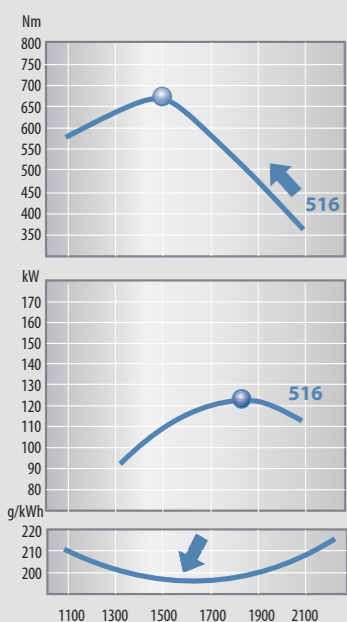
New in the 500 Vario is the automatic maximum output control. The automatic maximum output control enables load-dependent adjustment of the travel speed dependent on engine speed. There are different optimum values that can be set as the load limit for different operations, for example transport or field operations. The tractor sets the ideal load limit automatically. Operators therefore do not need to set the automatic maximum output control when entering or leaving the field. And the interplay between the

engine and transmission is just right for every operation. Alternately, operators can also set the maximum output control manually.

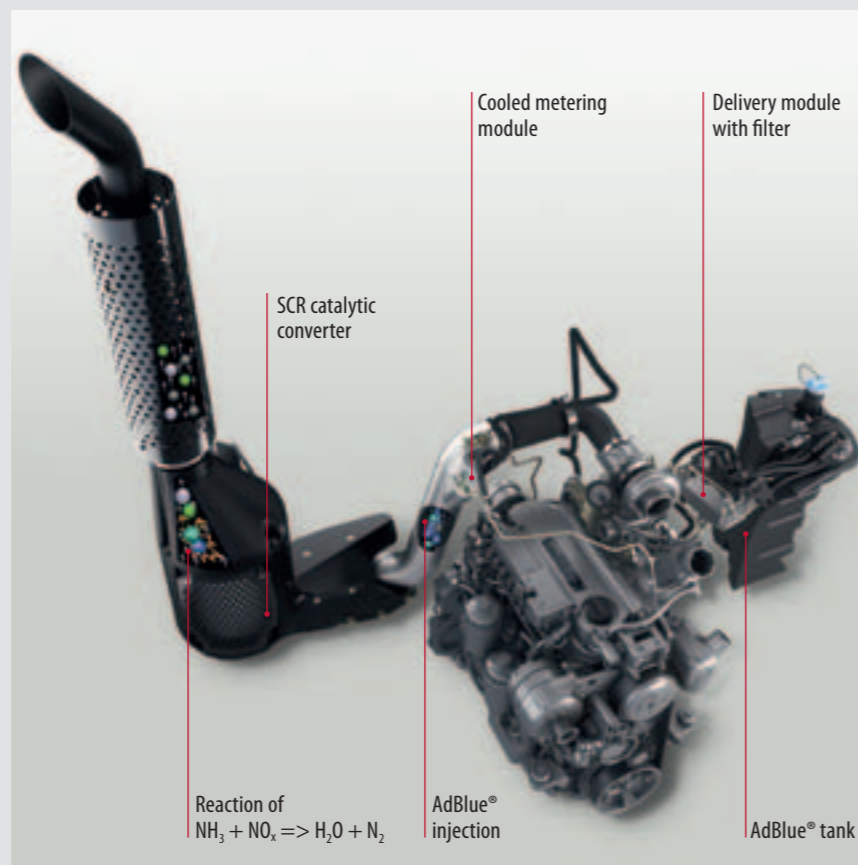
Ideal weight-power ratio

Get the most out of every bit of horsepower is the motto of the 500 Vario. The 516 Vario has an outstanding weight-power ratio of 39 kg/hp, which ensures liveliness and dynamics.

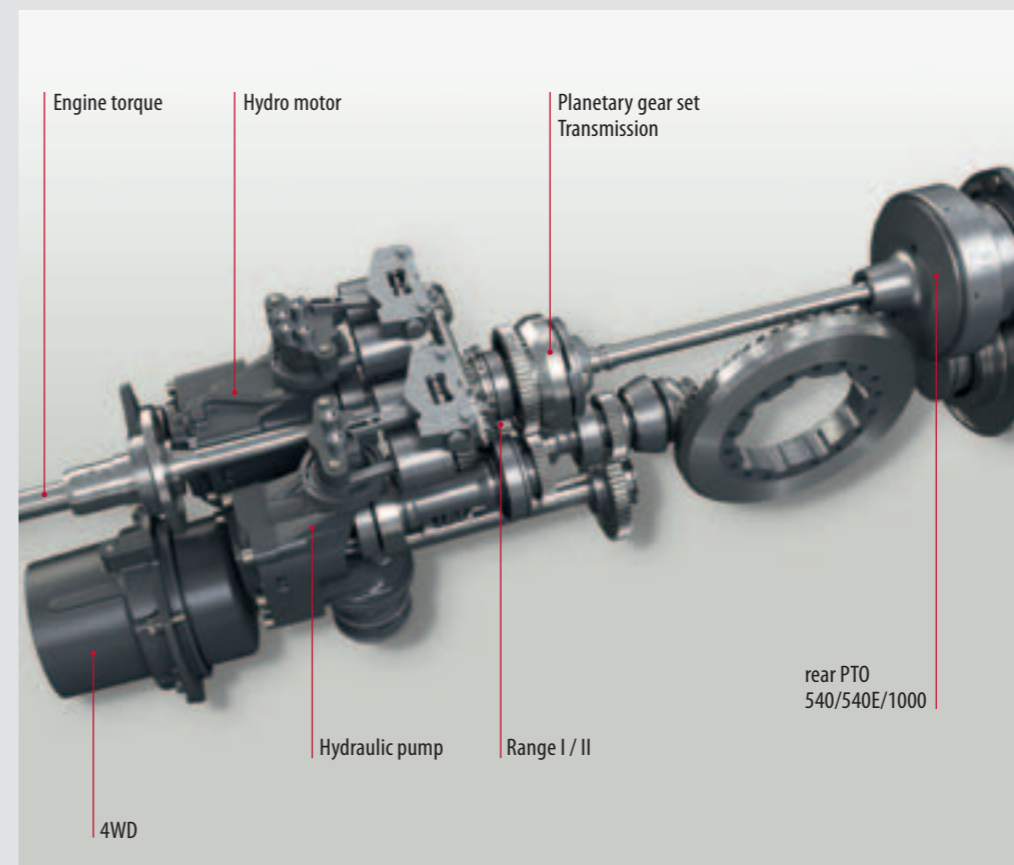
*DLG Powermix 936 Vario, Nov. 2011



687 Nm torque, 165 hp max. output at 1,800 rpm and a specific fuel consumption of 192 g/kWh for the 516 Vario through implementation of the latest technology.



SCR (Selective Catalytic Reduction) for exhaust gas after-treatment
 With SCR technology, exhaust is after-treated with AdBlue®, a 32.5 percent solution of urea, which converts nitrous oxides NO_x into non-toxic nitrogen and water. The consumption of AdBlue®, the standard urea-water solution used by commercial vehicles, lies at an average of seven percent of the diesel consumption. This can vary depending on the operation. AdBlue® is available at filling stations all over the world or through AGCO Parts.



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

- Four-cylinder engine with 4.04 l cubic capacity and common rail injection: 165 hp maximum output at 1,800 rpm
- SCR technology for compliance with emissions standard Stage 3b EU/Tier IV interim and excellent fuel efficiency
- Continuously variable Vario transmission
- Tractor Management System TMS and automatic maximum output control are standard
- Optimum weight-power ratio of 39 kg/hp (516 Vario)

The principle of precision

Precise grassland and field work increases area coverage. The 500 Vario offers the ideal automated functions that allow you to work accurately from pass to pass. The powerful hydraulics permits a wide range of applications for implements in this power class.



Intelligent technology at the front and rear

More than 22 connections at the front and rear

The Fendt 500 Vario offers more interfaces than any other tractor in its performance class: five electrohydraulic double-acting valves at the rear plus two in the front, power beyond, ISOBUS connection and much more. Overall, the 500 Vario has more than 22 connections, which are practicably located at the front and rear. That guarantees versatile operations and trouble-free connection of implements.

Powerful hydraulic system

The hydraulic system features modern load-sensing technology. Delivery capacities of 75, 110 or 150 litres per minute are possible as an option.

Powerful lift at the rear

The electrohydraulic rear linkage has a maximum lift capacity of 7,780 daN. The newest load compensating rear linkage means a great gain in comfort, because it automatically maintains the set lowering speed, for heavy as well as lightweight implements.

Intelligent control at the front

The maximum lift capacity at the front is 3,400 daN. The comfort front linkage has optional load relief control. This allows the implement to be lowered with the double-acting front linkage valve and, at the same time, to be kept floating with a defined pressure. This is an advantage when working with a snow plough or with a front mower in grassland. Relief springs for the mower are no longer necessary.

The right speed

The PTOs can be easily controlled via the multi-function armrest. External controls are also available at the rear. The PTO speeds (540/1000E) at the rear enable work at a lower engine speed, which means lower fuel consumption. The front PTO (540 or 1000 rpm) permits operation with a broad range of implements at the front of the tractor.



Interfaces at the front:

- Top link
- Two double-acting control valves
- Unpressurised front return flow
- 7-pin socket
- Front PTO
- Lower link hook end

Front hydraulic connection with own auxiliary valves (up to 2)

Free front return flow

Axial piston hydraulic pump

No communicating hydraulic lines

On the 500 Vario, the hydraulic connections in the front have their own control valves and no longer communicate with the rear valves. You therefore have a full five valves at the rear plus two full valves in the front.

Hydraulic connections at the rear (up to 5)

Heat exchanger for hydraulic oil cooling

Hydraulic oil tank (55 litres of available oil)

Container for oil leakage



A number of connections are available at the rear:

- Signal socket
- ISOBUS connection
- Hydraulic top link
- Five double-acting control valves
- Leakage oil line
- Unpressurised rear return flow
- Air brake
- Control line power beyond
- Pressure line power beyond
- Hydraulic trailer brake
- 7-pin socket
- Lower link hook end
- ABS socket
- Hitch
- Rear PTO
- Low hitch

- Up to seven electrohydraulic double-acting valves
- No communicating lines for the front valves
- Maximum lift capacity:
Front: 3,400 daN
Rear: 7,780 daN
- EPC rear and front linkage incl. shock load stabilising
- PTO with comfort controls (540/540E/1000 rpm)
- External controls for the linkage, one valve and rear PTO

Economical dynamics

The compact 500 Vario is fast, flexible and manoeuvrable in transport work. A top speed of 50 km/h at a reduced engine speed permits fast and, most importantly, economical driving on the road. The low weight-power ratio enables high payloads without a problem.



Drive ahead safely

Six points for your comfort

The 500 Vario allows you to perform transport work at 50 km/h at a fuel-saving 1700 rpm. The chassis design provides the best ride comfort as well as optimum ergonomics. Six points ensure an exceptional driving sensation:

- self-levelling front axle suspension
- the Fendt Reaction steering system
- the shock load stabilising
- the cab suspension
- the seat suspension
- the automatic steering axle lock

Safe driving, even with high payloads

The vehicle design is based on a robust cast half-frame, which enables a permissible overall weight of up to 10.5 tonnes (depends on country). The practically maintenance-free wet multi-disc brakes on the rear axle can brake high loads quickly. Additionally, every time the brakes are actuated, the front wheels are braked with the four-wheel drive. The self-levelling front axle suspension also contributes to driving safety and ride comfort. The suspension can be locked with the push of a button, so front-mounted implements can be guided precisely.

Fendt Reaction steering system

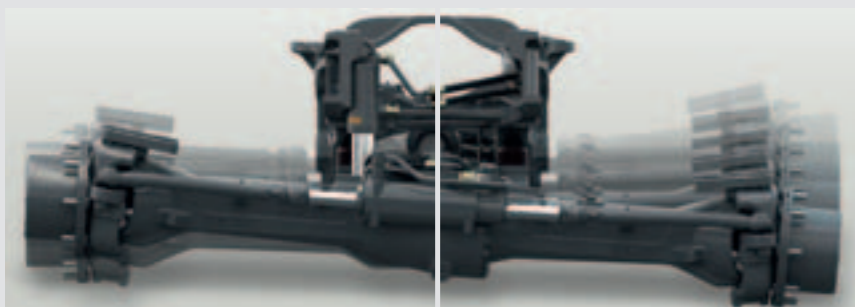
The Fendt Reaction steering system improves straight-ahead driving. After negotiating a curve, a hydrostat quickly brings the steering wheel back into the starting position and provides the driver with steering feedback. This makes sensitive steering much easier.

Automatic steering axle lock

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

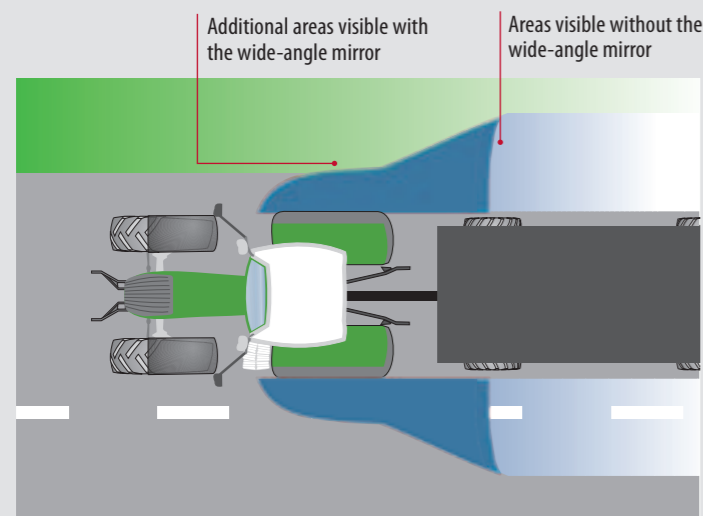
Front axle suspension is standard

A suspension system comes standard on the front axle and permits high payloads with the best ride comfort. The +/- 50 mm suspension travel does an excellent job of absorbing uneven ground. The 8° swing angle ensures stable handling of the tractor. The 52° steering angle on the front axle guarantees maximum manoeuvrability.



+/- 50 mm suspension travel

8° swing angle



Additional areas visible with the wide-angle mirror

Areas visible without the wide-angle mirror

Wide-angle mirrors for a better overview

The optional wide-angle mirror expands the field of vision, which greatly enhances safety. You have a better overview of things that are happening on the sides of the tractor. The hazard zone, which is usually located in the blind spot, is easier to see into and unforeseen situations can be avoided.



Everything in view, even in the dark

The ingenious lighting concept on the 500 Vario does not leave you in the dark. Both the high and low beams provide a one-of-a-kind high level of illumination intensity. The work lights on the 500 Vario can be individually adjusted for up to 360 degrees of illumination. Xenon or LED lights are available as an option.

- 50 km/h transport speed at reduced engine speed (1,700 rpm)
- Self-levelling front axle suspension with locking function
- Wide-angle mirror
- Fendt Reaction steering system for better straight-ahead driving at fast speeds on the road
- Tachograph optional
- Up to four front Xenon work lights and two rear Xenon work lights
- Two front LED work lights and two rear work lights
- Corner lights for good illumination of the wheel arches
- Permissible overall weight of up to 10.5 tons (depends on country)

Automatically see everything

Easy working with the Fendt Cargo

The new 500 Vario is ideal for front loader work. The upward viewing angle has tripled, thanks to the new windscreen, and operators now have a full view of the raised front loader. The front window of the 500 Vario can be fully opened at any time while the front loader is in use. The compact design of the 500 Vario ensures flexibility and manoeuvrability when working in the farmyard.

Easy loader work

You can use the standard crossgate lever to control the Cargo very precisely as well as activate and control the third and fourth control circuits. Changing directions is fast with the reverser lever. The VarioActive steering*, which increases the wheel angle dependent on speed, facilitates tight turning manoeuvres. The shock load stabilising system and the hydraulic attachment lock can be enabled easily using two keys on the membrane keypad in the instrument cluster.

*in connection with ProfiPlus

Easy maintenance – even with the Cargo

The specially coordinated design of the front loader and the tractor result in an exceptional overall design. It allows all maintenance work on the 500 Vario to be performed while the front loader is mounted.



The upward angle of vision has been increased and operators can see the raised front loader fully. The comfortable sitting position in the cab is good for your back and health.



Membrane keypad for hydraulic attachment lock and activating damping



Modell		4X/75	4X/80
A	Digging depth (mm) 1)	150	150
B	Lifting height (mm) 1)	4155	4155
C	Dumping distance (mm) 1) B = 3.5 m	1685	1685
C	Dumping distance (mm) 1) B = max.	1145	1145
D	Angle of emptying	55°	55°
E	Angle of backwards tilt	48°	48°
	Lift capacity over full height (daN)	1940	2260
	Max. lift capacity (daN)	2250	2620

1) depends on tyres

- Fendt Vario and Cargo build one perfect unit
- Optimal view to the raised front loader
- Lift capacity over full height:
1940 daN (4X/75)
2260 daN (4X/80)
- Lift height: up to 4155 mm
- Cargo Lock automatic attachment lock
- All pipes run in the frame
- Valves and damping are protected in cross bar
- Multi-coupler for connecting front loader
- 3rd and 4th hydraulic circuit (optional)
- Best access to all maintenance points on the tractor



Fendt versatility

Everything is ideal

The high performance capabilities of the Fendt 500 Vario, combined with the compact and manoeuvrable vehicle design, make it ideal for a wide range of applications. Whether for professional farming in the field or the farmyard, or for specialised contracting, municipal and forestry work – you are always well equipped with the 500 Vario.



500 Vario Power

500 Vario Power

Fendt offers the 500 Vario with an additional equipment level. The 500 Vario Power unites the most important features of the series with a good price-performance ratio.



Top technology in the Power version

Economy for standard requirements

For farms with standard requirements, Fendt offers the economical Power version. The 500 Vario Power has the most important features, such as the VisioPlus cab and the operating interface on the right armrest, as the Profi and ProfiPlus versions.

Clearly laid out 7" Varioterminal

The Varioterminal 7" is the ideal solution for making tractor settings. Like the large 10.4" Varioterminal, it can be operated intuitively, either per touch or using the keys. ISOBUS implement control, VarioGuide and VarioDoc are not available for the 500 Vario Power version.

Hydraulics and linkage

The Power version of the 500 Vario is equipped with modern load-sensing technology and a delivery capacity of 75 l/min. Optionally, the capacity can be increased to 110 l/min. The 500 Vario has max. four hydraulic connections, either four at the rear or one in the front and three at the rear. In the Power version, the rear linkage is only available with single-acting valves.



Clever controls

The control units can be conveniently operated with the crossgate lever and multi-function joystick.

A comfortable place to sit

The upholstered instructor seat in the 500 Vario provides a comfortable place to sit.

From the outside, the 500 Vario Power differs slightly from the Profi version in that the panels are coated and the corner lights have been dropped.



- VisioPlus cab for best visibility
- Varioterminal 7" for easy tractor and implement control
- Comfortable passenger seat
- Up to four electrohydraulic auxiliary control valves
- Modern load-sensing hydraulics with a delivery capacity of up to 110 l/min (75 l/min standard)



Invest right – and keep on saving

It is clear that you get cutting-edge technology with a Fendt tractor. But there's much more to the total cost picture of a Fendt Vario: from competent consultation, to comprehensive services to the special value retention of a Fendt tractor.

Efficiency: The recipe for economical operations

We make no compromises when it comes to efficiency, because our objective is to be the leader for cost-effectiveness per hectare and kilometre. The very best technology, for example as is found in the 700 Vario, is just good enough for us: the highly efficient Vario drive train and the fuel-saving SCR technology in combination with TMS. These enhance the already top-level efficiency of the Vario and further reduce the costs per hectare and kilometre.

Retention of value = future-proofing plus quality

Every Fendt customer knows: things are settled at the end of the service life of a tractor. And this is a true joy for Fendt owners, because the resale value of a Fendt Vario is unbeatable. As a trendsetter, Fendt continually provides vital standards to the sector and implements technology that continues to be in demand in the future. Add to that the high quality, which stands for operational reliability and a long lifetime. The total is a retention of value that only Fendt can offer you.

More freedom for investments – tailor-made financing through AGCO FINANCE and the custom service package

A custom financing package with attractive conditions and flexible terms offers you an ideal opportunity to match your investment to the needs of your farm or business. With a Fendt Service Package, you always have servicing and repair costs under control. When purchasing your tractor, for example, you can already plan the prescribed service work based on attractive fixed prices – with the Service Package or the comprehensive ProService Package.

Fendt overall profitability

- Fendt Efficiency for the best cost-effectiveness per hectare
- Fendt Comfort for pleasant working conditions day after day
- Fendt Retention of Value for an unbeatable resale value
- Fendt Service for competent consultation and full reliability
- Fendt Flexibility for custom financing and individual offers
- Fendt Expert Driver Training for the most efficient Vario driving



The sum of the technical solutions
creates the technological lead

Cutting-edge technology united

In the 500 Vario, start-of-the-art technology is optimally merged in a single vehicle that gives professional farmers and business owners an economic edge.

1. Front drive axle with 52° steering lock
2. Front linkage with external controls
3. Front PTO
4. 2 da hydraulic connections at the front
5. Planetary final drives
6. 4.04 l Deutz engine with 4 valves per cylinder
7. Cooler unit
8. SCR catalytic converter
9. Continuously variable Vario transmission
10. Hydro motor
11. Hydraulic pump
12. Enclosed 4WD clutch
13. Fuel tank 298 l
14. AdBlue®-tank 31 l
15. Rear PTO
16. Rear axle
17. Hydraulic coupling
18. Rear lift
19. VisioPlus cab with integral automatic climate control and nearly 6 sqm of glazing
20. Pneumatic cab suspension
21. Armrest with Variocentre
22. 10.4" Varioterminal with integral Fendt VarioGuide automatic steering system and ISOBUS
23. VarioGuide roof unit
24. Air-suspended Evolution Dynamic super comfort seat with climate control, seat heating, pneumatic lumbar support
25. Comfort passenger seat with automatic seat belt
26. Wide-angle mirror, electrically adjustable, heated
27. External rear controls for linkage, PTO and one hydraulic control unit

Fendt	512	513	514	516
Engine				
Rated power ECE R 24 (kW/hp)	81/110	88/120	99/135	110/150
Maximum power ECE R 24 (kW/hp)	92/125	99/135	107/145	121/165
Rated power EC 97 / 68 ¹⁾ (kW/hp)	91/124	99/134	109/148	120/163
Maximum power EC 97 / 68 ¹⁾	96/131	103/140	113/154	124/169
No. of cylinders/cooling	4/water	4/water	4/water	4/water
Cylinder bore/stroke (mm)	101/126	101/126	101/126	101/126
Cubic capacity (cm ³)	4038	4038	4038	4038
Rated engine speed (rpm)	2100	2100	2100	2100
Engine speed at max. power (rpm)	1800	1800	1800	1800
Optim. fuel consumption (g/kWh)	192	192	192	192
Max. torque 1450 rpm (Nm)	550	590	649	687
Torque rise (%)	42	40	38	33
Fuel tank (l)	298	298	298	298
AdBlue® (l)	31	31	31	31
Oil change interval op. hrs.	500	500	500	500
Transmission/PTO				
Continuously variable Vario transmission ML 90	50 km/h	50 km/h	50 km/h	50 km/h
Field	Range I: 0.02-28 km/h; reverse 0.02-17 km/h			
Road	Range II: 0.02-50 km/h; reverse 0.02-33 km/h			
Engine PTO rear (rpm)	540/540E/1000			
Front PTO (rpm)	540 or 1000			
Linkage				
Type of control	EPC			
Variable displacement pump capacity(l/min) (pressure 200 + 10bar)	Power 75 (option 110), Profi/ProfiPlus 110 (option 150)			
Max. lift capacity on the drawbar (daN) ²⁾	7780	7780	7780	7780
Front linkage max. lift capacity (daN) ²⁾	3420	3420	3420	3420
Implement weight/front linkage up approx. (kg)	2460	2460	2460	2460
Max. vertical hitch load (kg) with standard tyres and 50 km/h	2000	2000	2000	2000
Weights and dimensions				
Track width front (mm)	1880	1880	1880	1880
Track width rear (mm)	1860	1860	1860	1860
Overall length (mm)	4453	4453	4453	4453
Overall width (mm)	2451	2451	2451	2451
Overall height cab (mm) without VarioGuide	2930	2930	2965	2965
Max. ground clearance at entry steps (depends on tyres) (mm)	477	477	512	512
Wheelbase (mm)	2560	2560	2560	2560
Min. turning circle 3) (m)	5.29	5.29	5.52	5.52
Unladen weight (kg)	6050	6050	6400	6400
Perm. overall weight (kg)	10500	10500	10500	10500
Electrical equipment				
Starter (kW)	3.1	3.1	3.1	3.1
Battery	12 V / Power 100 Ah, Profi/ProfiPlus 180 Ah			
Alternator	14 V / 200 A			
Tyres				
Standard front	480/65R28	480/65R28	480/70R28	540/65R28
Standard rear	600/65R38	600/65R38	580/70R38	650/65R38
Optional front	16.9R28	16.9R28	480/65R28	480/65R28
Optional rear	20.8R38	20.8R38	600/65R38	600/65R38
Optional front	480/70R28	480/70R28	16.9R28	16.9R28
Optional rear	580/70R38	580/70R38	20.8R38	20.8R38
Optional front	540/65R28	540/65R28	540/65R28	480/70R28
Optional rear	650/65R38	650/65R38	650/65R38	580/70R38
Optional front	270/95R36	270/95R36	270/95R36	270/95R36
Optional rear	320/90R50	320/90R50	320/90R50	320/90R50*

1) Power specifications for registration, 2) 1 daN = 10 N = approx. 1 kg, 3) for 540/65R28

Equipment levels	Power	Profi	ProfiPlus
Vario controls			
Multi-function joystick with cruise control, engine speed memory, automatic modes & controls for hydraulics	●	●	●
7" VarioTerminal with touch and key control	●	●	⊘
10.4" VarioTerminal with touch and key control, 2 camera ports, incl. VarioDoc	⊘	□	●
VarioDoc Pro documentation system	⊘	□	□
Variotronic implement control (ISOBUS)	⊘	□	□
Variotronic ¹⁾ headland management system	●	●	●
Vario TMS engine-transmission management system	●	●	●
Preparation VarioGuide automatic steering system	⊘	⊘	●
VarioGuide automatic steering system	⊘	⊘	□
VarioActive steering	⊘	⊘	●
Cab			
Split windscreen and door on right	□	□	□
Continuous windscreen	●	●	●
Mechanical cab suspension	●	●	●
Pneumatic cab suspension	□	□	□
Height and tilt-adjustable steering column	●	●	●
Comfort seat, air suspended with back rest (w/o rotary adapter/seat cushion adjustment, simple armrest adjustment)	●	□	□
Super comfort seat with seat heater, lumbar support	□	●	●
Super comfort seat Evolution Dynamic with climate control, seat heater, lumbar support and seat suspension (only with compressed air system)	□	□	□
Instructor seat with automatic seat belt	●	⊘	⊘
Comfort instructor seat with automatic seat belt	⊘	●	●
Radio mounting kit with two stereo speakers	●	●	●
Radio CD MP3 Blaupunkt with 2 stereo speakers	□	□	□
4 stereo speakers	⊘	□	□
Air-conditioning system	●	●	●
Automatic climate control	⊘	□	□
Pollutant filter (aerosol)	●	●	●
Segment wipers front	●	●	●
Parallel wipers front	□	□	□
Rear window heated	□	□	□
Ext. rearview mirror, mechanically adjustable	●	●	●
Ext. rearview mirror, electrically adjustable, heated	⊘	□	□
Ext. rearview mirror and wide-angle mirror mechanically adjustable	□	⊘	⊘
Ext. rearview mirror electrically adjustable and wide-angle mirror heated	⊘	□	□
Rearview mirror	●	●	●
Cornering lights / chrome trim on direction indicators	⊘	●	●
Work lights roof, 4 at rear, 2 in front	●	●	●
Work lights A-pillar, roof front, mudguard rear	□	□	□
Work lights Xenon A-pillar, roof front, mudguard rear	□	□	□
Work lights LED A-pillar, mudguard rear	□	□	□
LED rear lights	□	□	□
Ambient lighting	●	●	●
Bracket for auxiliary devices	□	□	□
Cooling compartment	●	●	●
Electric battery disconnect switch	□	□	□
Add. storage space, 12 Volt left, light in roof liner left	⊘	●	●
Engine			
Fuel pre-filter	□	□	□
Heated fuel prefilter	●	●	●
Preheater package (engine, transmission, hydraulic oil)	□	□	□
Exhaust brake	□	□	□
Transmission			
Shuttle function, stop and go function	●	●	●
Acoustic signal when reversing	□	□	□

Equipment Variants	Power	Profi	ProfiPlus
Chassis / safety features			
Compressed air system	□	□	□
Automatic trailer steering axle lock	⊘	□	□
Compressed air Duomatic coupling	□	□	□
4WD/differential locks			
Comfort engagement controls for 4WD / differential locks	●	●	●
Rear / front differential with 100 % disc locking	●	●	●
Power shift PTO			
Rear: Flange PTO 540/540E/1,000 rpm	●	●	●
Front: 540 or 1,000 rpm	□	□	□
External controls for rear PTO	●	●	●
Hydraulics			
Load-sensing system with 75 l/min delivery capacity	●	⊘	⊘
Load-sensing system with 110 l/min delivery capacity	□	●	●
Load-sensing system with 158 l/min delivery capacity	⊘	□	□
Electrohydraulic rear linkage sa (EPC)	●	●	●
Electrohydraulic rear linkage da (EPC), with external controls	⊘	□	□
Control with linear elements	⊘	●	●
1st and 2nd hydraulic valves at rear	●	●	●
3rd hydraulic valve at rear	□	□	□
4th hydraulic valve at rear or 3rd hydraulic valve at rear and 1st hydraulic valve in front	□	⊘	⊘
4th to 5th hydraulic valves at rear	⊘	□	□
1st to 2nd hydraulic valve in front	⊘	□	□
Radar sensor	⊘	□	□
Top link rear hydraulic	□	□	□
Hydraulic power beyond connection	□	□	□
Hydraulic valve actuation crossgate lever, connect-under-pressure couplings rear	●	●	●
Double connect-under-pressure lever couplings rear	□	□	□
Easy ballast weight pick-up without front linkage	□	□	□
Front linkage da with external controls	□	□	□
Comfort front linkage da, with position control, external controls	□	□	□
Comfort front linkage da, with position control and load relief control, external actuation (only together with rear linkage da)	⊘	□	□
Body			
ABS trailer sockets	⊘	□	□
Mechanical hitch	●	●	●
Auto. hitch with remote control, rear	□	□	□
Ball coupling, height adjustable	□	□	□
Ball-type coupling in the bottom hitch	□	□	□
Ball-type coupling long in the bottom hitch	□	□	□
Hitch	□	□	□
Swinging drawbar	□	□	□
PitonFix	□	□	□
Rotating beacon left and right	□	□	□
Hinged front wheel mudguard	□	●	●
Front weights, various sizes	□	□	□
Ballast weights for rear wheels	□	□	□
Front loader			
Front loader attachment parts	□	□	□
Front loader Cargo 4X/80	□	□	□
Front loader Cargo 4X/85	□	□	□

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