

# FENDT

## Fendt 300 Vario







## The Fendt 300 Vario. Yes.

Since 1980, the legendary 300-series has combined the experience gained through the generations with the Fendt demand for 100% quality, value-retention and power. Because the Fendt 300 Vario offers everything that you need. Let the quality features speak for themselves and say yes to the 300 Vario.





## Fendt 300 Vario. Just right.

Anyone who has experienced a Fendt 300 Vario knows just how awesome it is. Whether in grassland, in the field, during transport or for municipal work – equipped with even more comfort, features and efficient technology, the Fendt 300 Vario is your reliable companion with unsurpassed value-retention for the daily challenges of your work.

Engine		310 Vario	311 Vario	312 Vario	313 Vario
Rated power ECE R 120	kW/hp	74/ 100	83/ 113	90/ 123	97/133



# Perfect modularity with 3 configuration variants: Power, Profi and ProfiPlus.

### Power innovations

- VisioPlus cab with 77° panoramic vision and crossover lighting
- Central Variocenter with Power Joystick (2-way)
- Fuel-saving technology SCR with DOC
- TMS and automatic maximum load system 2.0
- Waisted half-frame
- Steering angle-based 4WD and automatic differential lock (together with front axle suspension) 33% more hydraulic power (Power\*/Profi/ProfiPlus)
- High payload of more than 3.5 tonnes
- Self-levelling front axle suspension

### Profi innovations

- Varioterminal 7" scratch-resistant, anti-reflective
- Variotronic<sup>II</sup> headland management
- Multifunction joystick\* & crossgate lever for electric valves\*
- ISOBUS implement control\*
- Pneumatic cab suspension\*
- Front power lift with position\* and load relief control\*
- Custom-assigned valves
- CargoProfi front loader\*

### ProfiPlus innovations

- VarioGuide automated steering system
- VarioActive steering (half the steering wheel revolutions) from ProfiPlus

\* optional



## 300 Vario: benefit from the added power of continuous transmission.

### Superior productivity – the added power of a continuous drive

The stepless drive solution offers savings potentials for all farm types and sizes, unlike drive designs with quick shift gears.

Source: Landwirtschaftliches Wochenblatt-Westfalen-Lippe, 5/2001

### Superior productivity – the added power of a continuous drive

The stepless drive technology offers savings potentials for all farm types and sizes, unlike drive designs with quick shift gears

Type of business	Surface area (ha)	Working time reduction	Fuel reduction
Mixed use	50	2.7%	6.5%
	100	3.3%	6.5%
	200	4.3%	6.8%
Forage harvest	50	6.8%	8.7%
	100	6.6%	8.3%
	200	5.5%	8.0%
Fruit harvest	50	4.4%	6.5%
	100	4.6%	6.4%
	200	4.4%	6.4%

Publication: Landwirtschaftliches Wochenblatt-Westfalen-Lippe, 5-2001;



THE DRIVER'S SEAT ON THE FENDT 300 VARIO

You favourite place with a wide view.



Panoramic windscreen with 77° vision for a full view upwards and over the wheel arches.

VisioPlus 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. And in the cab itself, you have the neat Variocenter. 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.

Open or closed? – 3 cab variants

You can have a door on the right-hand side too, for even more flexible entering and exiting. If you prefer a windscreen that opens, the Fendt 300 Vario offers one with a split window pane. The VisioPlus cab comes with 6.2 m² of glazing for continuous all-round visibility without a B-pillar getting in the way.

The attention to detail makes all the difference

Enjoy the wide steps and easily accessible door handle. A range of smart details brings more joy to your every day. 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. With the cab closed, the ingenious integrated cabling means each cable is laid from the outside in. 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.

Mechanical cab suspension as standard – or choose pneumatic

A perfectly fine-tuned cab suspension is key to safe and easy driving and working. The mechanical cab suspension effectively minimises vibrations and shocks. The pneumatic cab suspension included in the Profi and ProfiPlus packages features a self-levelling function at the rear for even suspension.

The informative multifunction display provides a clear, quick overview. This includes the adjustable multi-display in the middle, as well as the time, hours and temperature. The left side shows you all the engine and PTO speeds, with the driving speed on the right. The multiple display shows the settings for the on-board computer, consumption indicator, speed storage, cruise control and automatic PTO.



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



A special feature of the Fendt 300 Vario is the vertical handle on the rear window, which lets you open and close the window from the comfort of your seat.



Fendt offers a clever solution for cables that run from the rear of the tractor into the cab. Cables can be guided through the lead-through, no matter what kind of cross section they have. The rear window can be closed, so dust, dirt, water and noise stay outside.

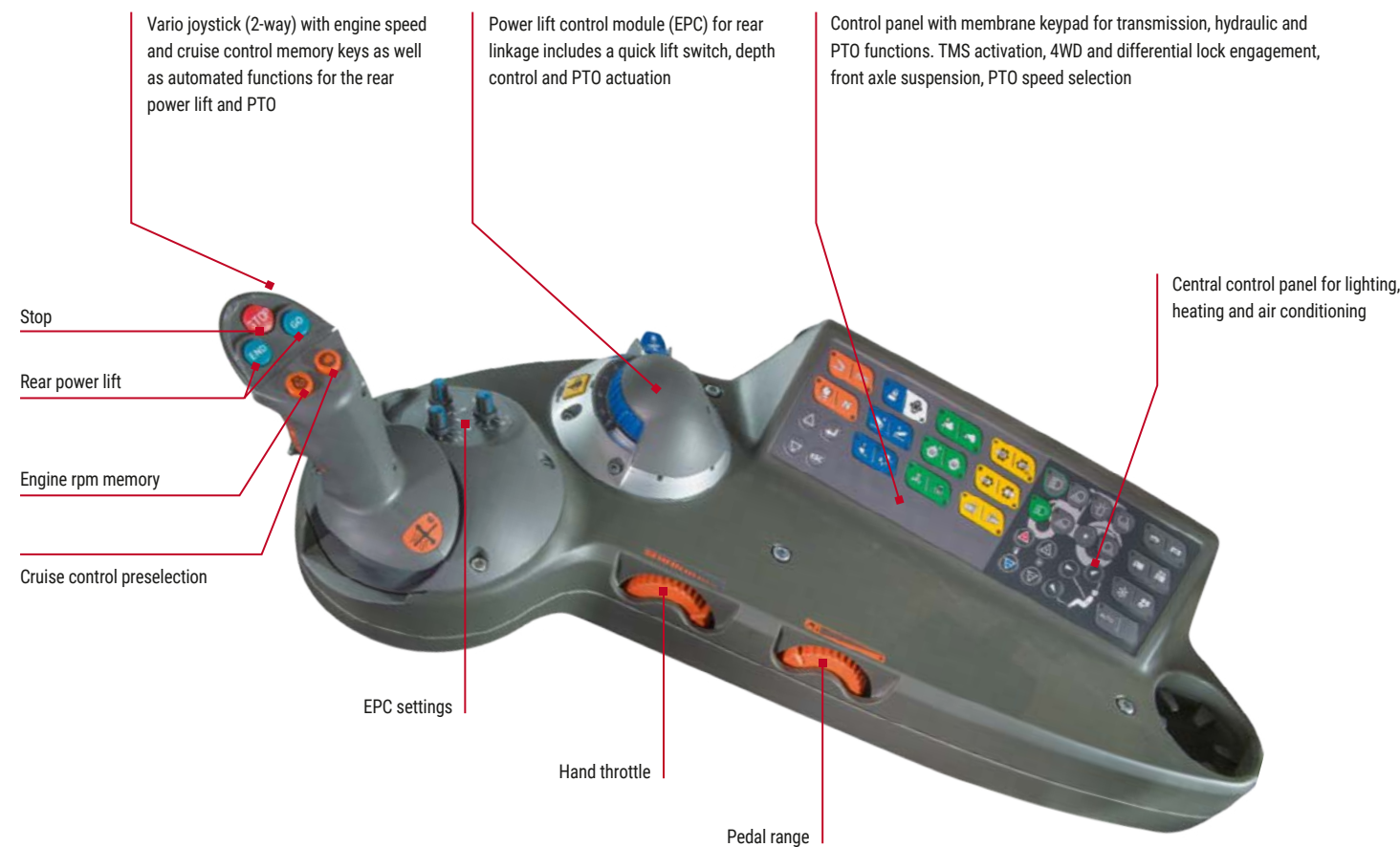


The suspension system and the individual armrest adjustment ensure comfortable work days. The super comfort seat also has seat heating, a rotary adapter and a pneumatic lumbar support.



2 windscreen wipers to choose from: Segment wipers with intermittent operation or parallel wipers for an even larger wiper field.

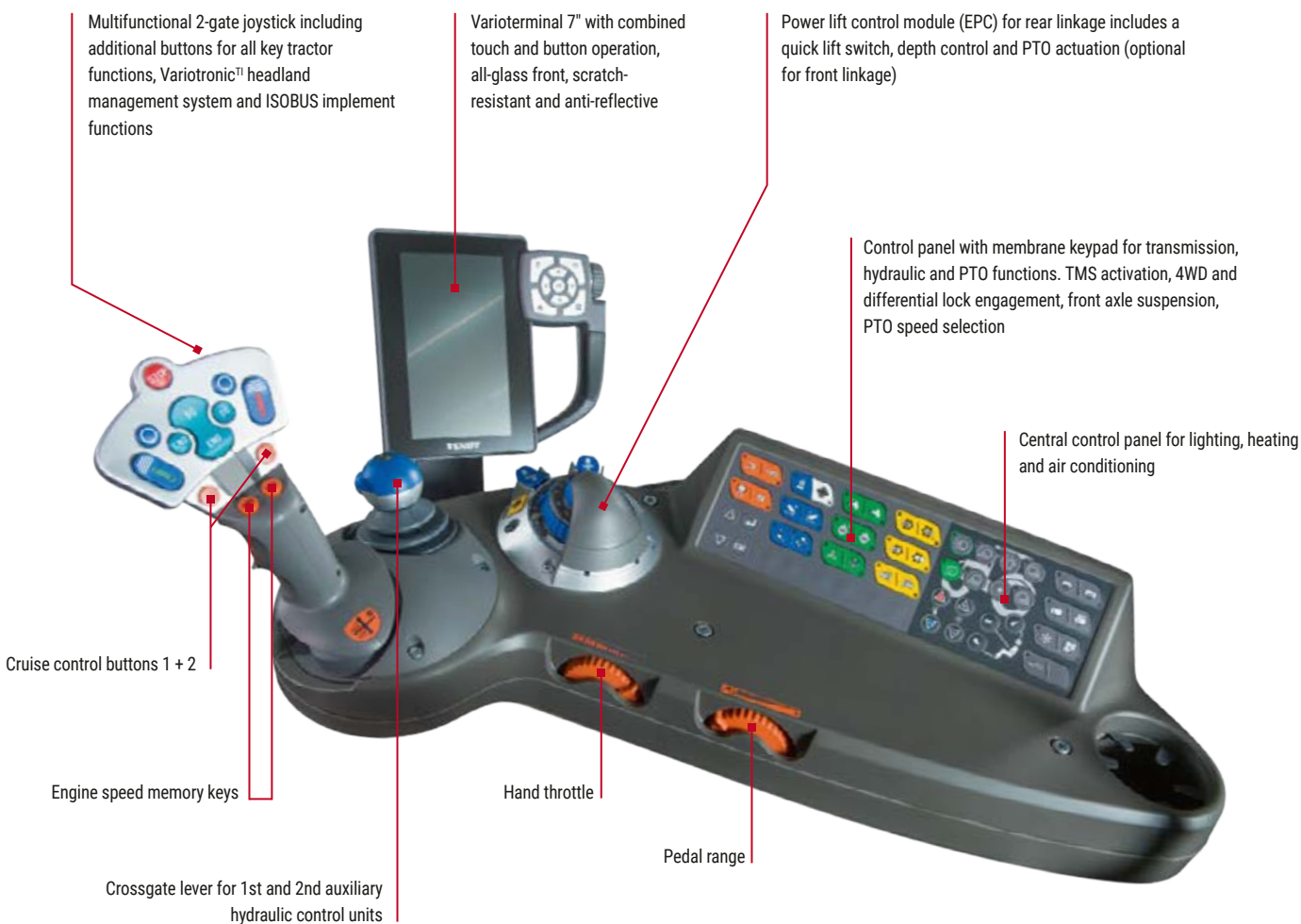
# Fendt 300 Vario Power.



**300 Vario Power: Operation made easy**  
Operating the Fendt 300 Vario Power is straightforward and easy using the fully integrated Variocentre. The Vario joystick, the linkage pad and the backlit keypad are combined in a clearly laid out control panel. The arrangement and colour coding of all the operating elements corresponds to the current Fendt tractors and guarantees across-range, easy and fast operation.

**Clearly laid out**  
The entire membrane keypad is backlit and ensures safe operation in the dark. The lighting is controlled using neatly grouped buttons. A big advantage is the central button for switching on and off preselected work lights. You can control the transmission, shuttle control and cruise control with the 2-gate Vario joystick. There are four auxiliary functions: automatic linkage control, two cruise controls, one speed memory and acceleration rates.

# Fendt 300 Vario Profi/ProfiPlus.



**Profi/ProfiPlus – smart headland management system Variotronic<sup>TI</sup> and ISOBUS implement control**  
With the Profi and ProfiPlus model, the 300 Vario class welcomes the extensive headland management system, Variotronic<sup>TI</sup>. Control an impressive 74 functions using 5 triggers and 11 function groups. 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. Easily and intuitively control ISOBUS implements with UT, AUX-O and AUX-N standard on the terminal and joystick.

**25 implement memories to perfectly configure your equipment**  
All settings in the Varioterminal can be saved under a unique name and called up at a later time. For example, if you have set the engine or cruise control speeds, or configured the hydraulics and linkage, these settings can be easily reloaded and adjusted, if necessary. The headland sequences are also saved. This means that new drivers can also work with settings that are just right. Of course, operators can also save their own custom settings.



THE ENGINE ON THE FENDT 300 VARIO

This drive is a joy.  
On the field and on paper.



More strength with the powerful and high-torque 4.4-l engine.

High-torque and highly efficient

The power range of the Fendt 300 Vario goes from 113 hp to a maximum output of 143 hp with a top speed of 40 km/h. The 4.4 l AGCO Power engine and wastegate turbocharger deliver more power and an exceptional amount of torque in the 300 class. This all-round tractor is extremely fuel-efficient: The low rated speed of 2,100 rpm, a new cooler unit and a high-capacity air filter ensure high efficiency with low fuel consumption.

Groundbreaking efficiency thanks to lowest costs per hour\*

In 2017, the 312 was the all-out winner in the Europe's biggest comparison tests by top agrar, Farmers Weekly, France Agricole and Boerderij. In addition to top performance values, the 312-series has the lowest relative consumption values and, with that, the lowest cost per hour – €1.20 less than the average (based on costs at 80 kW power).

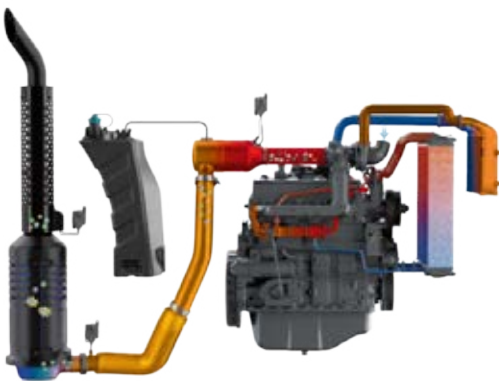
\*top agrar Comparison Test for the 120 hp class – Issue 1/2/3-2017)

Economical and low-maintenance

The fuel pre-filter with thermostatic valve allows the tractor to start reliably, even at very low temperatures well below zero, since the pre-warmed fuel flows from the return into the prefilter. The radiator and filter are arranged for ease of maintenance. With the Fuel and AdBlue consumption indicator you can monitor your current and long-term consumption. You can also store consumption during various type of work. This helps the driver choose an economic style of driving.

Emission control with DOC and SCR

Also saves on emissions: The SCR exhaust technology with AdBlue exhaust gas treatment proves to be especially fuel-efficient. The additional injection of the urea solution AdBlue reduces nitrogen oxides to a minimum. In combination with a diesel oxidation catalyst (DOC) and the exhaust gas recirculation (AGRex), emissions are reduced effectively and the tractor complies with the newest Stage 4 / Tier 4 Final emissions standards.



With SCR technology, exhaust gases are after-treated with AdBlue, a 32.5% urea solution, which converts nitrous oxides NO<sub>x</sub> into non-toxic nitrogen and water.

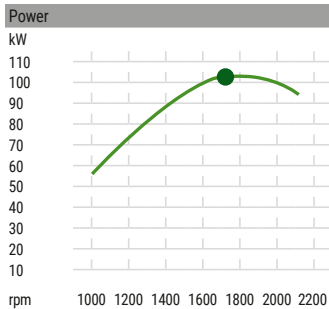
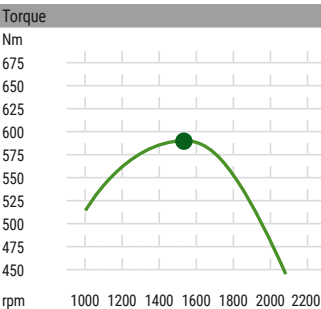
The large tank holds 210 litres of diesel and 22 litres of AdBlue for long-range results. Work longer without refuelling. Practical: The Diesel and AdBlue filler necks are located on the same side of the tractor.



The fuel pre-filter with thermostatic valve allows the tractor to start reliably, even when outside temperatures are very low. The radiator and filter are arranged for ease of maintenance.



Excellent accessibility for maintenance: Both the direct air supply and easy access to the foldable climate capacitor and coolers make it all extremely maintenance-friendly. The flat radiator floor ensures low sensitivity to dirt.



Engine characteristics – Fendt 300 Vario  
The high 596 Nm torque and 143 hp maximum power at 1,750 rpm ensure full engine power and agility.



TRANSMISSION AND PTOS ON THE FENDT 300 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 11,600 litres of diesel\*\* saved over 7,000 operating hours. In terms of cash benefits with the continuous system, that's over €25,000\*\*!

**Perfect handling: Stepless at 20 meters/h – reverse and 2 cruise controls without changing gear**

From a dead slow 20 m/h up to 40 km/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 – gently and without any jolting. This protects you and your soil. Another benefit is: the stepless, wear-free reverse – optionally via joystick on the right or the reversing lever with integrated holding function below the steering wheel on the left. Especially important for 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 controls the engine and transmission so that they are always effortlessly working at their best. You specify the target 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. You can also choose to adjust the maximum output control manually. With kick-down mode you can start off like driving an automatic car.

**Rear: Triple PTO with start-up control and lift height-dependent PTO automatic mode**

For an implement-friendly take off, just preset the start-up control electro-hydraulically at the push of a button in the Variocentre. Another benefit is: the PTO automatic mode, which switches on and off depending on the lift height.

**Exclusive Fendt benefit: Rear PTO with external actuation and engine speed increase**

Practical example of filling the slurry tanker: Activate the PTO externally then increase the engine speed in the cab: now a thing of the past because the engine speed increases when you activate the PTO externally. Benefit: There's no more need to get in and out the cab.

Basic data: \* Landwirtschaftliches Wochenblatt Westfalen-Lippe, 5-2001; 100 ha forage farm;  
\*\* Own calculations: 140 hp tractor, 700 operating hours per year – runtime 10 years/7,000 operating hours; average consumption 20 l diesel / operating hours; saved operating costs: Rental costs for a 140-hp tractor – €20/operating hour \*\*\* (machine ring adjustment rates 140 hp – <http://www.mr-bayreuth.de/images/inhalte/verrechnungsheft2018.pdf>; 460 operating hours = €12,800/7,000 operating hours

The ingenious 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. Power splitting and hydrostats that swing 45 degrees ensure outstanding efficiency.



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.

**Hydraulics system with up to 110 litres of flow volume**  
The Fendt 300 Vario is equipped with a powerful 110 l powershift control pump as standard in the Profi configuration. This pump capacity keeps the engine speed low, which saves fuel effectively, even during demanding work. Power models have an 84-litre constant flow pump as standard with the option of a 110-litre pump.

**EPC – rear power lift for 100% overview and practicality**  
The rear linkage with a lift capacity of 5,960 daN guarantees that even the heaviest mounted implements can be lifted to their full extent. Shock load stabilising ensures quiet driving without stressful vibrations. From the cab you have an excellent view of the lower links, ball-type coupling and trailer opening. You'll love the rear of the tractor with its practical advantages: including the unrivalled one-handed lower-link latch, 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 and turn the elbow screw.

**3 front power lift versions to suit every task**  
The power lift with vibration damping is available as standard, with position control as well as a comfort front power lift with position and load relief control. This all helps optimise your feed quality. 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 43 litres also allows use of large skips.

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.



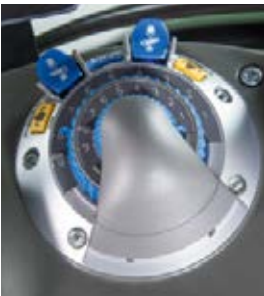
The front power lift is fully integrated and sits tight against the vehicle. This keeps the linked machines highly manoeuvrable. The lower links have a particularly good bottom grip and can be folded for parking. Bellows protect the lifting cylinders against stone impact. The vibration damping fitted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



The hydraulic couplings in the rear are neatly aligned and colour-coded. The dust caps close by themselves. For easy coupling, the connections are offset and decoupled under pressure.



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.



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



300 VARIO PROFI/PROFI PLUS: FENDT VARIOTRONIC

# Efficient to use – comfortable to drive.

**Welcome home: The Fendt operating concept**  
Well thought-out to the last detail, but always with an eye on the whole – in Fendt tractors you experience intuitive operation and functionality across all ranges. The operating elements comprising the Varioterminal, multifunction joystick, crossgate lever and membrane keypad are clearly laid out in the Variocentre.

**Varioterminal 7" with touchscreen and key control**  
Straightforward, intuitive and practical – the new 7" Varioterminal with LED backlighting brings together all the tractor and implement functions in one. You can also control ISOBUS-compatible implements directly on the Varioterminal. The flat hierarchy menu and clear display are easy to navigate. You can operate the functions directly on the touchscreen or by pressing a key. The edgeless LCD terminal with dimmed night mode delivers brilliant colours and a sharp resolution. It is scratch-proof and easy to clean.

**Powerful track guidance with receiver selection**  
The VarioGuide steering system ensures optimum work results and maximum comfort. We offer two different receiver systems - NovAtel® or Trimble®. 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, even without a correction signal.

**25-implement memory for perfectly configured equipment**  
With the 25-implement memory, you can save each implement with its own settings. This saves you from having to enter the 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 control, cruise control, engine speed, 4WD and differential locks.

**Headland turns made easy: Fendt Variotronic™**  
Electronic assistance is a real benefit, especially at the headlands. With our Variotronic™ headland management system you save up to 1,920 daily hand movements in 160 turns. You can program up to 39 functions into the terminal for each turning manoeuvre at the headland, both when standing still and when driving. Later all it takes is a touch of a button to activate the automated sequences at the headland. Work without having to reposition. 5 triggers (route, time, front power lift, rear power lift and manual) and 11 function groups help you control an impressive 74 functions. 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.



**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 locked 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.

**ISOBUS implement control on the terminal and joystick:** Using the optional ISOBUS interface, all ISOBUS-compatible implements (UT, AUX-O, AUX-N) can be operated on the Varioterminal, so there's no need for any extra implement terminals. The multifunction joystick also give you up to 10 control buttons, depending on the attachment. This allows you to easily control the implement with the central multifunction joystick.



**Everything at hand: Multifunction joystick – from Profi/ProfiPlus**  
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.





# 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 independent of load. The suspension can be completely deactivated at the touch of a button for any loading work that requires particular accuracy and precision.

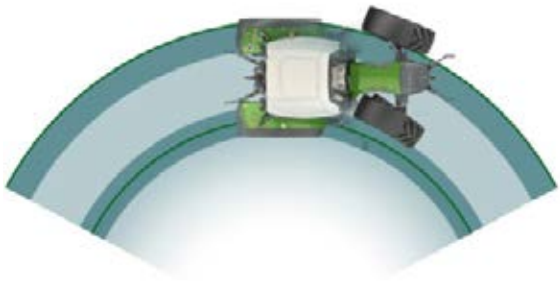
**Safe driving, even with high payloads**  
The Fendt 300 Vario is based on a robust cast half-frame, which is designed for a permissible overall weight of 8,500 kg and a high payload of 3,500 kg. The space-saving half-frame design creates the space required for the suspension with longitudinal arm, 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 300 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 ensures less load on the drive train and a long service life.

The waisted cast half-frame of the Fendt 300 Vario is the rugged base for the entire tractor – engine, cooler unit, front linkage, front PTO and front axle are mounted on the half-frame. Thanks to the stable construction, larger axle loads are permissible. The waisted design permits a larger steering angle.

**Superbly agile with a waisted half-frame**  
Profi, the technical farming magazine, praised the outstanding manoeuvrability of just 10.20 m (11/2016) in combination with the pivoting fenders. The waisted design of the half-frame creates more space for an optimal steering angle, which means greater manoeuvrability.



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\* as you can already reach full wheel impact with just one steering wheel rotation. Up to 8 km/h the superimposed steering system is unrestricted, from 8 to 18 km/h the superimposition effect is linear.

\* Optional



FENDT CARGO/CARGOPROFI FRONT LOADER

Perfect loading combination.



**A perfect overview with the VisioPlus cab and the slim, low bonnet**  
You'll love the 300 Vario with its outstanding, 77° panoramic view – a true wonder of visibility and space. The windscreen on the cab curves up into the roof for an unobstructed view over the raised front loader. The integrated curvature means any material just slides off. The area between and in front of the wheel arches has also been optimised. Because the bonnet and waisted frame are kept particularly narrow and neat. The VarioActive superimposed steering system makes the 300 Vario ProfiPlus more agile than ever.



The screens give you a perfect overview of the crossgate lever, the weighing system for single weight, overall weight and to adjust the lifting height and tilting angle.

**4 front loader versions – Compact to Profi**  
The Cargo front loader is available in four versions for the 300 Vario: Cargo 3X70, 4X75, 4X75 compact and CargoProfi 4X75. On the Compact 4X75, the arm is attached 100 mm closer to the cab, to increase stability.

**Integrated Cargo damping system**  
Gas pressure reservoirs absorb vibrations and shock loads so they are not transmitted to the tractor. This saves wear and tear on the tractor and ensures a long service life. Combined with the front-axle and cab suspension, the damping system makes it a real joy to use the Fendt 300 Vario with a front loader.

**Perfect ergonomics: turn and steer on the left, load on the right.**  
The front loader controls are perfectly integrated into the overall operating interface on the right armrest and Varioterminal. There is no need to reach around. Your left hand selects the driving direction while your right hand operates the crossgate lever for the front loader. 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 300 Vario ensures swift loading and unloading: The load-sensing pump delivers up to 110 l/min.

**CargoProfi: Smart and accurate loading to target weight and working height**  
Thanks to the precise measuring and tilt sensor system on the CargoProfi 4X75, you know exactly how much you are loading. Weigh your load with the touch of a button and utilise the full loading capacity. This also saves the trip to the weighing station. The CargoProfi offers top and bottom limits for lifting height and tipping angle. Your bucket is emptied completely thanks to the integrated shake function, which loosens any adherent material. The Memo function saves positions and makes frequently repeating jobs easier.

With the crossgate lever installed as standard, the front loader can be controlled extremely sensitively with two control valves. When working with the silo or ball pliers, use the push-buttons on the crossgate lever to control the third and fourth hydraulic circuits (optional on request).



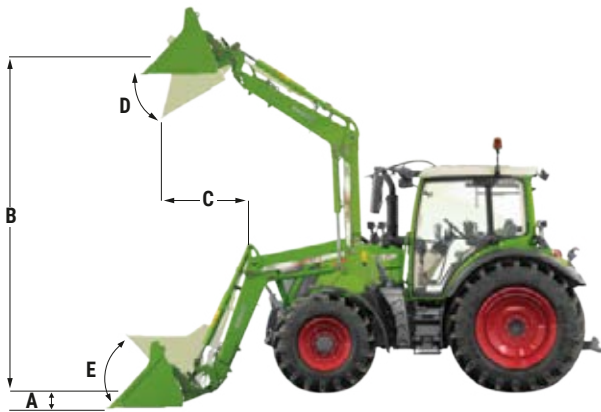
Limiting the tilt angle for safety: On the Fendt CargoProfi, you can limit the tilt angle when loading very high trailers. The Memo function is especially practical for repeating sequences, for example, the horizontal lower position can be targeted automatically. The weighing function gives you more control over the load weight.

With the orange reverser lever, you can easily change directions with your left hand. Hold the lever down and the Vario stops. Release the lever and the tractor automatically drives in the preset direction.



Fendt Cargo front loader			3X/70 <sup>2</sup>	4X/75 compact	4X/75 <sup>1</sup>
A	Digging depth (tyre-dependent)	mm	60	220	150
B	Excavation height (tyre-dependent)	mm	3740	4085	4155
C	Laying width at height of 3.5 m (tyre-dependent)	mm	1450	1585	1685
C	Laying width (tyre-dependent)	mm	1030	1045	1145
D	Angle of emptying	degrees	55	55	55
E	Angle of backwards tilt	degrees	48	48	48
	Continuous lifting capacity	daN	2000	1940	1940
	Max. lift capacity	daN	2190	2250	2250

<sup>1</sup> Same values apply to Fendt CargoProfi  
<sup>2</sup> Fendt 300 Vario (up to max. tyre Ø 1200 mm)





FENDT 300 VARIO

# Fendt VisioPlus cab.



The clearly laid out and ergonomically designed VisioPlus cab offers the best overview, both to the operating elements and the field. The windscreen comes either as a continuous panoramic window or as a hinged pane. You can choose a second door in place of the right side panel.



■ In a Fendt cab you will find many different stowage spaces and compartments, so that everything has its place.



■ There is space for a meal and a cool drink in the air-conditioned cooling compartment.



**There are 2 optional cab suspension variants for the 300 Vario:**

- Mechanical cab suspension: Cone bearings at the front and mechanical spring damper elements make driving particularly comfortable. They prevent vibrations and noise being transferred to the cab when decoupling the cab from the tractor body.
- The pneumatic cab suspension with self-levelling (Profi and ProfiPlus) minimises vibrations and makes the ride exceptionally comfortable. It is supported on four points: the cab rests on two conic bearings at the front and on two air spring elements at the rear.



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



□ The super comfort seat has a seat heater, rotary adapter and pneumatic lumbar support – prerequisites for comfortable work during long shifts.



■ The steps are protected against dirt from the side. There are also wide steps and a well-placed handrail to get up and down safely. The door handle is easy to reach from the ground.



■ The hatch integrated in the roof liner offers additional ventilation on hot days.



■ The integrated air conditioning ensures optimal cooling and comfort – manually controlled in the Power variant or fully automatic control as an option on the Fendt 300 Vario Profi and ProfiPlus variants.



■ Numerous sockets are available for external current consumers.



■ The wide-angle mirror is integrated into the main mirror as a second mirror and considerably increases your field of vision.



■ The comfort passenger seat with backrest and safety belt offers passengers safety and comfort for long work days.



Steering wheel and cockpit perfectly adjustable by foot pedal: For the best sitting position, the steering wheel and cockpit must be at the right height and tilt angle.



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



FENDT 300 VARIO

# Lighting system.



The entire lighting concept, with up to six work lights for the rear alone, offers brilliant illumination so you can work in comfort and safety, even in the dark. If you need extra bright lights but would also like to save power, then choose the Fendt 300 Vario with LED work lights. The total number of lumens in the LED package of the Fendt 300 is 48,300, giving 35% more light output than the previous LEDs. All LED headlights built in by Fendt are shock-proof, jetwash-resistant, EMC-tested (track guidance, radio) and salt-spray tested.



Unique Fendt crossover lighting: The outside front work lights effectively prevent shadows. The secret lies in the unique Fendt crossover lighting. This successfully avoids glare from the hood and drop shadows, giving you a particularly broad field of light, whatever the job at hand.



Valuable detail for night-time work: The terminal with day/night design: A light sensor automatically adapts the terminal lighting to the current light conditions.

FENDT 300 VARIO

# Installation space at the front and rear.



Fixing the lower bars: The lower links can be secured with the shut-off valve on the rear linkage. This can prevent incorrect operation and damage to attached implements.



The rear power lift, PTO and one spool valve can be controlled from either rear fender.



□ Power Beyond connection: The direct pressure and control line for full hydraulic power transmission from the powershift pump directly to the work equipment.



Clearly labelled and very accessible: The hydraulic valves can be coupled under pressure via the DUDK and UDK couplings, making it very easy to attach and detach the equipment. Another benefit is: the self-closing valve flaps offer full protection against contamination through dust or water.



**Interfaces at the rear include** signal socket, hydraulic top link, lower links with hooks, spool valves, free return, air brake, Power Beyond pressure and control lines, hydraulic trailer brakes, 7-pin socket, hitch, 540/540E/1000rpm rear PTOs, bottom hitch configuration, rigid drawbar and much more.



For the 300 Vario you can choose from 4 lower attachment systems: swinging drawbar, hitch, Piton fix and ball-type coupling.



□ Connection for ISOBUS implement control.



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 links, 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 SERVICES

# The best product with the best care and service.

With a Fendt 300 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



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.

**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)

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.



Full control over costs and planning reliability

Fendt Care	Bronze	Silver			Gold <sup>1</sup>	Platinum <sup>1</sup>
Service	Regular maintenance, fixed maintenance costs	Cover against the risk of repair (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						✓

<sup>1</sup> 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 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 superior value retention of a 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 even after years.



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

## 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 safeguards the technological progress and value retention of your Fendt machine and keeps your investment as fresh as it was on day one. 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](http://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](http://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.





FENDT 300 VARIO

## Equipment variants.

	Power	Profi	ProfiPlus
<b>Transmission</b>			
Acoustic signal when reversing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Vario operation</b>			
Speed control lever with cruise control and engine speed memory, automatic modes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Varioterminal 7" with touchscreen and key control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Variotronic implement control for ISOBUS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Variotronic™ - Headland Management System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Guidance system VarioGuide NovAtel / Trimble	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Cab</b>			
Mechanical cab suspension	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pneumatic cab suspension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Super comfort seat 3-point belt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort seat, air sprung	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Super Comfort Seat, air sprung	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air-conditioning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated automatic climate control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Split windscreen and door on right	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous windscreen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
One-piece windscreen and door on right	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear window heated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear window wash/wipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radio mounting kit with two stereo speakers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Radio CD MP3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radio CD MP3 hands-free speaking system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brake level device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electric battery disconnect switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Lighting</b>			
Auxiliary lights front	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work lights A-pillar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front external roof work lights 2x	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LED front external roof work lights 2x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front internal roof work lights 2x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LED front internal roof work lights 2x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rotating beacons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Chassis</b>			
Front axle suspension self-levelling, lockable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic trailer steering axle lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compressed air system 1-/2- circuit system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Power	Profi	ProfiPlus
<b>4WD</b>			
Rear / front differential with 100% disc locking and steering angle sensors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Power lift</b>			
Da front power lift, with external control (separate valve)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front power lift sa/da (connection middle 1st / 3rd valve)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort front power lift da, with position control, external controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort front power lift da, with position control and relief control, external controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Externally controlled rear power lift	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>PTO</b>			
Front: 1000 rpm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear PTO 540/540E/1000 rpm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rear: Flanged PTO 540/540E/1000 rpm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External controls for rear PTO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PTO comfort control, electrohydr. preselection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Hydraulics</b>			
External control for hydraulic control unit at rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic tandem pump, hydraulic oil cooler (46+ 38 l/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load sensing system with axial piston pump (110 l/min)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1. EHS valve middle and rear, 2nd hydraulic valve rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. EHS valve middle and rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. EHS valve at rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Additional equipment</b>			
Manual hitch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic trailer hitch with remote control, rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ball coupling, height adjustable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drawbar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piton-fix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wheel weights, rear wheels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pivoting front wheel mudguard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Front loader</b>			
Front loader attachment parts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 3X/70	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 4X/75 Compact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 4X/75 Profi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Standard and optional equipment  
Standard: ☒  
Optional: ☐

FENDT 300 VARIO

## Technical specifications.



		310 Vario	311 Vario	312 Vario	313 Vario
<b>Engine</b>					
Rated power ECE R 120	kW/hp	74/ 100	83/ 113	90/ 123	97/133
Maximum power ECE R 120	kW/hp	83/ 113	90/ 123	98/ 133	105/142
No. of cylinders	Number	4	4	4	4
Cylinder bore/stroke	mm	108/ 120	108/ 120	108/ 120	108/ 120
Cubic capacity	cm³	4400	4400	4400	4400
Rated speed	rpm	2100	2100	2100	2100
Max. torque at 1550 rpm	Nm	485	524	559	596
Torque rise	%	55.0	47.0	44.0	42.0
Fuel level	litres	210.0	210.0	210.0	210.0
AdBlue tank	litres	23.0	23.0	23.0	23.0

		310 Vario	311 Vario	312 Vario	313 Vario
<b>Transmission and PTO</b>					
Transmission type		ML 75	ML 75	ML 75	ML 75
Speed range forward	km/h	0,02-40	0,02-40	0,02-40	0,02-40
Speed range reverse	km/h	0,02-25	0,02-25	0,02-25	0,02-25
Top speed	km/h	40	40	40	40
Rear PTO		540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000
Rear PTO option (including ground speed PTO)		540/1000/4,2	540/1000/4,2	540/1000/4,2	540/1000/4,2
Front PTO option		1000	1000	1000	1000

<b>Power lift and hydraulics</b>					
Dual hydraulic pump	l/min	46+38	46+38	46+38	46+38
Variable flow pump	l/min	110	110	110	110
Working pressure / control pressure	bar	200	200	200	200
Max. valves (front/centre/rear) Power	Number	0/2/4	0/2/4	0/2/4	0/2/4
Max. valves (front/centre/rear) Profi	Number	0/0/4	0/0/4	0/0/4	0/0/4
Max. available hydraulic oil volume	litres	43	43	43	43
Max. lift capacity of rear power lift	daN	5960	5960	5960	5960
Max. lift capacity of front power lift	daN	3130	3130	3130	3130

<b>Tyres</b>					
Front tyres (standard)		440/65R24	440/65R24	480/65R24	480/65R24
Standard tyres rear		540/65R34	540/65R34	540/65R38	540/65R38
1. Optional front tyres		480/65R24	480/65R24	16.9R24	16.9R24
1. Optional rear tyres		540/65R38	540/65R38	18.4R38	18.4R38
2. Optional front tyres		540/65R24	540/65R24	540/65R24	540/65R24
2. Optional rear tyres		600/65R38	600/65R38	600/65R38	600/65R38

<b>Dimensions</b>					
Front track width (standard tyres)	mm	1685	1685	1820	1820
Rear track width (standard tyres)	mm	1660	1660	1800	1800
Overall width with standard tyres	mm	2220	2220	2320	2320
Overall length	mm	4336	4336	4336	4336
Overall height - comfort cab	mm	2820	2820	2860	2860
Overall cab height with standard tyres without VarioGuide	mm	2820	2820	2860	2860
Overall cab height with standard tyres with VarioGuide	mm	2870	2870	2910	2910
Max. ground clearance	mm	510	510	510	510
Wheelbase	mm	2420	2420	2420	2420

<b>Weights</b>					
Unladen weight (base tractor with cab - full tanks, without driver)	kg	4810.0	4810.0	4970.0	4970.0
Max. permissible overall weight	kg	8500.0	8500.0	8500.0	8500.0
Max. trailer hitch load	kg	2000.0	2000.0	2000.0	2000.0



# FENDT

It's Fendt. Because we understand Agriculture.



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