

# FENDT

## Fendt 700 Vario





## The perfectionist.

Being good just doesn't cut the mustard. Only the perfect interaction between tractor and operator leads to successful results. To bring your everyday routine to perfection, we have combined outstanding solutions in the Fendt 700 Vario – for the ultimate unit full of strength and manoeuvrability, precision, reliability, functionality and comfort.



## Perfected for every kind of work.

This versatile tractor, ranging from 150-246 hp, is your powerful partner for all kinds of work – from easy-going grassland work, to dynamic transport, to heavy-duty field or fleet operations.

| Engine                |       | 714 Vario | 716 Vario | 718 Vario | 720 Vario | 722 Vario | 724 Vario |
|-----------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| Rated power ECE R 120 | kW/hp | 106/144   | 120/163   | 133/181   | 148/201   | 163/222   | 174/237   |

**Because versatility belongs to perfection**

The Fendt 700 Vario offers a number of features that will make your everyday work easier.

- Increased lift capacity of 10,360 daN
- 14 t permissible overall weight
- High payload of up to 6,200 kg
- Load-sensing pump with 109 l/min as standard, and 152 l/min or 193 l/min optional.
- 4-speed rear PTO
- 1000E PTO
- Stage V emissions standard
- 300° windscreen wipers
- Latest-generation LED headlights
- Smartphone-look Varioterminal 7" and 10.4" with touch and key control
- Variotronic guidance system and telemetry functions



**The points for performance and comfort**

The entire chassis of the Fendt 700 Vario has been perfectly designed for demanding operations and fast transport.

- Self-levelling front axle suspension with 100 mm suspension travel
- Pneumatic dual-circuit braking system with one-pedal or steering clutch brake
- TMS pedal mode that adjusts deceleration by detecting thrust
- Automatic trailer steering axle lock
- 100% differential locks for front and rear

Become a perfectionist.  
With the Fendt 700 Vario.

VERSATILITY AND FLEXIBILITY

# Perfectly equipped.

**The tractor for perfect results**

The perfect line for cultivating, track-to-track accuracy for sowing, the perfect cut for mowing – with the Fendt 700 Vario, you can work to perfection with purely satisfying results. The numerous interfaces and automated functions offer you maximum versatility for mounting implements. Powerful hydraulics facilitate and expand the areas of application for maximum efficiency and the best productivity.

**Powerful hydraulics**

With a delivery capacity of 193 litres per minute, the load-sensing pump on the Fendt 700 Vario provides high volume capacity for the hydraulics. These pumps for the Profi and ProfiPlus variants have an easy time with the most demanding implement operations. Additional pump sizes with a delivery capacity of 152 l/min and 109 l/min (Power and PowerPlus) for high performance with any implement. These pump capacities mean the engine speed can be kept low, which saves fuel effectively, even during demanding work.

**Weight lifter in best form**

Thanks to its stable design, the Fendt 700 Vario has a lift capacity of 10,360 daN and can manage the heaviest loads. With this easy-use front hitch with load relief control, you can transfer some of the implement weight to the front axle. Fine-tune the degree of load relief with a special double-acting front power lift valve. This ensures both the safe steering of the tractor and that the front-mounted implement only applies the pressure it needs for the work it is doing.

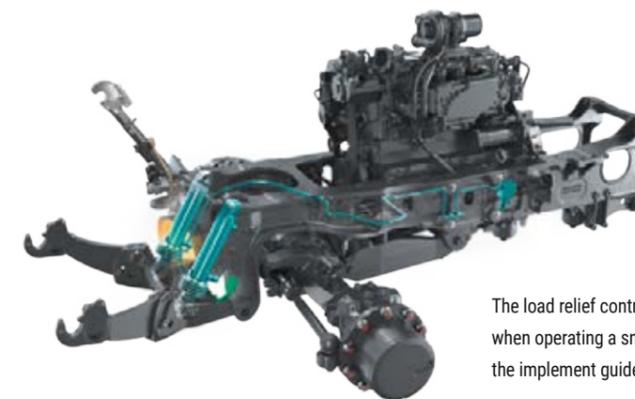
**The Vario and Cargo form a perfect unit**

The Fendt 700 Vario is ideal for front loader work. The upward viewing angle has been tripled thanks to the curved panoramic windscreen. Operators have the front loader in full view, even when it is raised. The front window can be fully opened at any time while the front loader is in use. That makes front loader work a true pleasure.

An unobstructed view through glazed areas and high manoeuvrability make the Fendt 700 Vario ideal for front loader work.



The linkage is set via the Varioterminal and actuated with the powerlift control module, multifunction joystick or the external controls on the rear mudguards or on the front.



A robust cast half frame, which enables a permissible gross weight of 14 tons, carries the load on the Fendt 700 Vario. With a high payload of 6,200 kg, the compact high-horsepower tractor has plenty of reserves for heavy implements.

The load relief control for the front linkage is a particular advantage when operating a snow plough or a front mower in grassland work, as the implement guide quickly adjusts to uneven surfaces.

THE ENGINE ON THE FENDT 700 VARIO

# Perfect coordination for the best drive.

**Power and reliability**

The tried and proven 6-cylinder Deutz engine on the Fendt 700 Vario delivers 150 to 246 hp with a top speed of 50 km/h. With a 6.1 litre cubic capacity, 4 valves per cylinder and common rail injections, this engine delivers a high-torque driving experience. The compact high-horsepower tractor is designed for maximum performance and load capacity. The engine and transmission are perfectly in tune for high overall efficiency.

**Economical and environmentally friendly**

Every litre counts. The Fendt 700 Vario is equipped with the SCR exhaust technology and is especially fuelefficient and complies with the emissions standard EURO Stage V. The passive diesel particulate filter, which does not require additional injection of fuel for regeneration, saves fuel. With perfect engine and transmission coordination, the new Fendt 700 Vario delivers full performance in the field and on the road.

**Economical and low-maintenance**

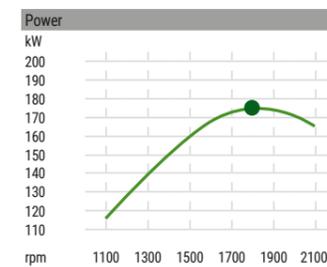
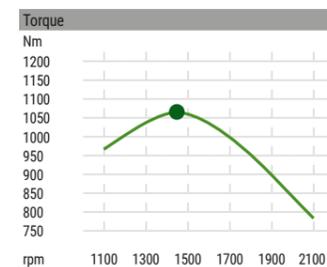
The fuel pre-filter with thermostatic valve allows the tractor to start reliably, even at temperatures well below zero, since the pre-warmed fuel flows from the return into the prefilter. The radiator and filter are arranged for ease of maintenance. The fuel and AdBlue consumption indicator not only monitors the current consumption, but also logs the consumption for different operations. Furthermore, it assists the operator in maintaining an efficient driving style.

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 external exhaust gas recirculation (AGRex) already reduces nitrogen oxides before they reach the exhaust line, so AdBlue® can be used very sparingly.



**Diesel particulate filter Coated Soot Filter (CSF)**

The passive coated soot filter is regenerated while driving and does not need to be actively started. No additional fuel is required for regeneration.



**Engine characteristics – Fendt 724 Vario**

1,058 Nm torque, 246 hp maximum output at 1,800 rpm

THE TRANSMISSION ON THE FENDT 700 VARIO

# Popular, proven, perfect: The Fendt Vario transmission.

### Perfect driving is stepless.

Because only with the continuously-variable Fendt Vario transmission can you drive at the ideal speed for your work. You can drive from 0.02 km/h to a maximum speed of 50 km/h, exactly, without steps. And all this while you're in relaxed control of your tractor with the multifunction joystick. Reduced maintenance costs through longer transmission oil change intervals, every 2,000 hours, have an especially positive impact. The separate oil supply protects the gearbox against oil mixing and contamination.

### The right speed with the 1000E economy PTO

No matter which PTO implement you are using, with the Fendt 700 Vario you can demand power just when you need it. Four PTO speeds with 540, 540E, 1000 and 1000E rpm are available. The 1000E PTO provides optimal power transmission for implements that demand high speeds at low power, such as with a rotary harrow, slurry pump or plant protection sprayer.

### Well-balanced and efficient with TMS

Frequently changing operations are on the agenda for an all-rounder. Whether for transport or heavy draft work, the Fendt 700 Vario has been designed for ideal performance, low fuel consumption and reduced wear on components. The tractor management system TMS controls the engine and transmission so that they are always working at an economical optimum without you having to think about it. You just have to specify the desired speed.

### Go to the limit with full power

Features, such as the automatic maximum output control 2.0, further reduce fuel consumption, since the engine is always running in the ideal speed range. The load limit, which is different for each operation, is regulated automatically. The limit no longer needs to be entered manually and the engine and transmission are always perfectly coordinated. In kick-down mode, the tractor accelerates swiftly and convinces through lively handling.

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.



The driving mode can be selected individually: The speed can be controlled with either the pedal or the joystick.



Change the direction of travel either with the joystick or the reversing lever on the steering column switch. The integrated Stop-and-Go function is a particularly practical feature.



Thanks to the TMS tractor management system and the automatic maximum output control, the tractor automatically adjusts the engine speed.

THE FENDT VISIOPUS CAB

# Comfort at its peak.

**Visibility and space**

The Fendt VisioPlus cab offers plenty of space for your comfort. This starts as soon as you climb up into the cab up the wide steps. With more than six square metres of glazing, the cab is not only a visibility wonder – you also have a greater sense of space thanks to the 2520-litre air space and the well thought-out ergonomic arrangement of all the components. Numerous storage spaces provide practical stowing options.

**Everything in sight**

The panoramic windscreen on the VisioPlus cab curves up into the roof and opens the view upwards and downwards. With a 77-degree angle, you have your work in full view, even when the front loader is raised. The large 6.2-m<sup>2</sup> glazed area provides a perfect all-round view without any B-pillar getting in the way. Rain won't stop you: with a 300-degree wiper field, the wipers provide a clear and full view of the front.

**High-grade equipment**

The high season can come: The Fendt 700 Vario has pneumatic cab suspension for perfect ride comfort. The three-point pneumatic cab suspension compensates perfectly for uneven terrain. You sit very comfortably and relaxed on the "Evolution dynamic Dual Motion" super comfort seat, which provides ideal support to the lumbar region. Suspended with compressed air from the vehicle compressor, the seat adapts itself to your weight. The seat is available with either a black fabric or genuine leather cover.

**An individual work place**

With the height-and tilt adjustable steering column, you can use an additional foot pedal to unlock the steering wheel and the dashboard, then gently tilt it as one unit with both hands to the position you want. Thanks to the hands-free speaking system with movable microphone, your hands are free while making your phone call with the best audio quality. The bearings in the VisioPlus cab have been optimised to absorb unpleasant noises from outside. Automatic climate control provides ideal ventilation and ensures the temperature is perfect in the cab. The active charcoal filter ensures the best breathing air, even during dusty operations.

The wide-angle mirror is integrated on the main mirror as secondary mirror and expands the field of view considerably.



One-piece side window and unobstructed all-round visibility without a B-pillar to get in the way.



Panoramic windscreen with 77° sight angle for a full view upwards and to the wheel arches.



The 300° wiper enlarges your field of vision and provides an unobstructed view over the entire front of the tractor and to the wheel arches.



The suspension system and the individual armrest adjustment ensure comfortable work days. The comfort instructor seat features an integral writing table.



Cables can be led neatly into the cab from the outside through the closed rear window. Dirt and moisture stay outside.



Refreshments are always well within reach in the cooling compartment behind the passenger seat.

## SMART SOLUTIONS IN THE FENDT 700 VARIO

# Efficient operation and a comfortable drive.



With Fendt VarioGuide you can keep on track within two accuracy levels with a deviation of +/-20 cm (VarioGuide Standard) and +/-2 cm (VarioGuide RTK). You can use a receiver and correction service of your choice.

### Well-thought out through and through: The Fendt operating concept

The design of Fendt control elements on the right armrest – including the Varioterminal, multi-function joystick, crossgate lever, linear modules and membrane keypad – has been tried and tested over many years. To control the function of the tractor and implement, the Fendt 700 Vario comes with two terminal versions – the 7" and the larger 10.4". Both terminals are touch and key-controlled.

### On the ideal track: Fendt VarioGuide

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

### New waylines with Fendt Contour Assistant

Fendt machines with the Varioterminal 10.4 and VarioGuide system with NovAtel® or Trimble® receivers can now use the Fendt Contour Assistant. With the new Contour Segments and Single Track features added to the familiar VarioGuide wayline types, your work is now even easier and more efficient. With Contour Segments, you can record the various segments of the field with just one round-trip, a quick and easy way to add field boundaries. With Single Track, drive along the entire tramline length to record it almost as an infinite contour line.

### Perfect for all operations

For the Fendt Variotronic, the ISOBUS interface is the decisive link to the implements. Using Variotronic Implement Control, all devices that are compatible with ISO 11783 can be operated easily and quickly with the Varioterminal and, if supported, with the multi-function joystick as well. The Fendt 700 Vario can come equipped with the Variotronic TIM functionality ready-installed. This means that a TIM-enabled implement automatically controls certain functions of the tractor. This includes for example the forward speed and a hydraulic valve on a TIM-enabled baler.

The use of cameras on your machines significantly increases comfort and safety. You can see more of what is happening around you, especially when working with large implements. The large 10.4" Varioterminal provides up to two camera connections.



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



The headland management Variotronic<sup>II</sup> stores the working pattern at the headland. Up to 5 triggers, 13 memory functions (including guidance) as well as simple operation when stationary, ensure constant, superior working quality at the headlands. You can trigger the sequences with the push of a button on the joystick. You save up to 1,920 hand movements in 160 turns. The Variotronic<sup>II</sup> automatic function is even easier to use, triggering the sequences automatically and with precision. It can also be programmed when stationary.

## SMART, MONEY-SAVING SOLUTIONS

# Perfect for every type of work, an indispensable member of the fleet – documentation and telemetry.

### Your work at a glance with Fendt VarioDoc

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

**Data monitoring in real-time: Fendt VarioDoc Pro**  
VarioDoc Pro also records GPS position data and data transfer in near realtime. Automatic, seamless exchange with ISOXML-compatible field management software and mapping in real-time is therefore possible. The data for the operating inputs that have been used are transferred according to the TC-Geo standard and can be viewed in the Varioterminal while working.

### Variable application with VariableRateControl (VRC)

The VarioDoc Pro data transfer option gives you variable flowrates based on the needs of the soil or plants, to save materials. Based on VarioDoc Pro for documentation, a new solution for precision farming, variable rate control function (VRC), is now available. The individual requirements for seeds, fertiliser and pesticides are shown on application maps. They are then called up during operation and automatically executed. The big advantage: Operating inputs can be defined and planned in the field database and then applied with the utmost precision.

### Efficient from tractor up to data management

Those who invest in a tractor, also invest in the future. As soon as you get your machines well connected, you will optimise the capacity of your fleet. The newest interfaces and software solutions already permit machine data to be called up independent of location today, which enables immediate reaction. This increases the response and operating times of your entire fleet at the push of a button. The new AGCO Connectivity Module (ACM) is the interface between your tractor and the office, taking over the entire telemetry of the data transfer as the central transmission unit on the tractor.

The field settings can be transferred to other Fendt tractors using the USB port. Additionally, the port can also be used to charge mobile phones.



VarioDoc enables wireless data transfer from the Varioterminal to the field database. VarioDoc Pro continually records position and machine data and data transfer is possible via mobile network.



The ISOBUS implement control is perfectly integrated in the Varioterminal 7" and Varioterminal 10.4" (not with Power bundle). The implement is controlled with the terminal and joystick, no need for an additional terminal or joystick.



**FUSE**  
SMART FARMING. SYNCHRONIZED.

QUALITY STANDARD AND RETENTION OF VALUE

## Perfect outlook.

### From update to upgrade

Fendt Variotronic always keeps you up-to-date, now and in the future. How can I do that? With unique software updates giving you new additional functions, which Fendt provides free of charge up to twice a year. The easiest way is to have your sales dealer update your Variotronic during its service (subject to labour costs). This ensures that your Fendt machine is technologically advanced, maintains its value and provides return on investment in the future, just like the day you bought it.

### Lifelong benefits

Enjoy a lifetime of benefits as a Fendt customer. This starts when you buy your Variotronic machine and simply continues throughout your machine's service life, as we make newly developed functions available to existing machines of current and older model years (provided their hardware is compatible) rather than restrict them to future models. Operational safety, impact and ease of use never lose their importance.

### Upgrades and retrofits

Would you now like to benefit from certain features that you chose not to buy at the time? Well, it's a good job you chose a Fendt with Variotronic! Whether VariableRateControl, SectionControl, the Variotronic<sup>1</sup> automated headland management or VarioDoc Pro – you can upgrade to all of these features! This ensures maximum performance capacity and proactive value retention.



The Varioterminal informs you about the next maintenance and servicing dates, it even has a reminder function.

## FENDT CARGO FRONT LOADER

If the tractor and front loader are working together perfectly, it's got to be Fendt Cargo.



Membrane keypad for implement lock and damping activation.

### Optimal operating interface concept

It's never been so easy to use – controlling the Fendt Cargo is child's play, with the controls perfectly integrated into the right armrest and in the Varioterminal. While you use your right hand to control the crossgate lever and, with it, the front loader, the left hand is free to steer and reverse. You control the speed with your foot. The CargoProfi represents the absolute pinnacle in front loader operation.

### Smart functions of the CargoProfi

The new Fendt CargoProfi\* is the consistent further development of the tractor and front loader unit. New measuring and tilt sensor systems as well as a job computer enable new functions. These are a weighing function for individual and total weight, for example, for monitoring when loading salt or gravel, as well as the memo function for saving the positions of the arm and attachment or also a shaking function. The settings are easy to adjust and view in the Varioterminal.

\*available for front loader models 5X/85 and 5X/90



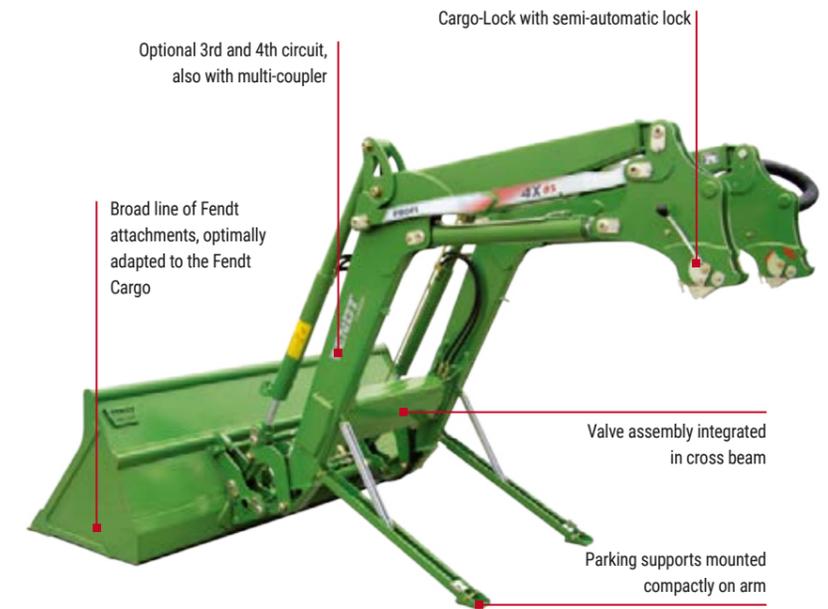
Standard multi-coupler for fast mounting and removing

### Fast and easy loading? Lies at hand.

The controls for the front loader are optimally integrated in the overall operating interface on the right armrest and in the Varioterminal: you control the front loader with your right hand on the crossgate lever, your left hand is free for steering and reversing. You control the speed with your foot. With the reverser, you can change driving direction quickly and easily, without wear. The high hydraulic capacity of the Fendt 700 Vario ensures swift loading and unloading: The load-sensing pump delivers up to 193 l/min.

### Ideal steering and damping system

Less steering and more fun at work with the front loader thanks to the VarioActive steering. With this superimposed steering system, you can already achieve a full steering angle with just one turn of the steering wheel. The advantages are clear – especially in tight farmyards, but also at the headlands. Add to that the active damping on the front loader: Gas pressure reservoirs absorb vibrations and shock loads so they are not transmitted to the tractor body.

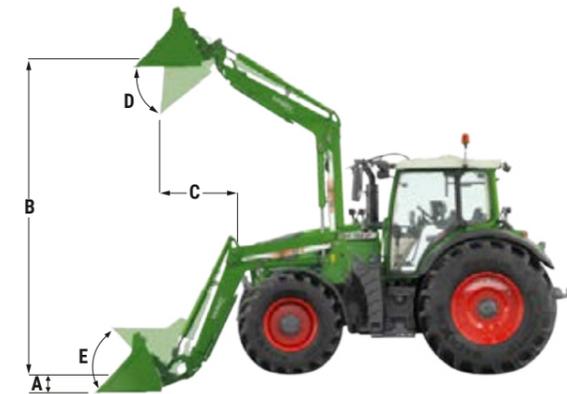


On the Fendt CargoProfi, for example, the tilt angle can be limited when loading very high trailers. The Memo function is especially practical for repeating sequences, for example, the horizontal lower position can be targeted automatically. The weighing function gives you more control over the load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

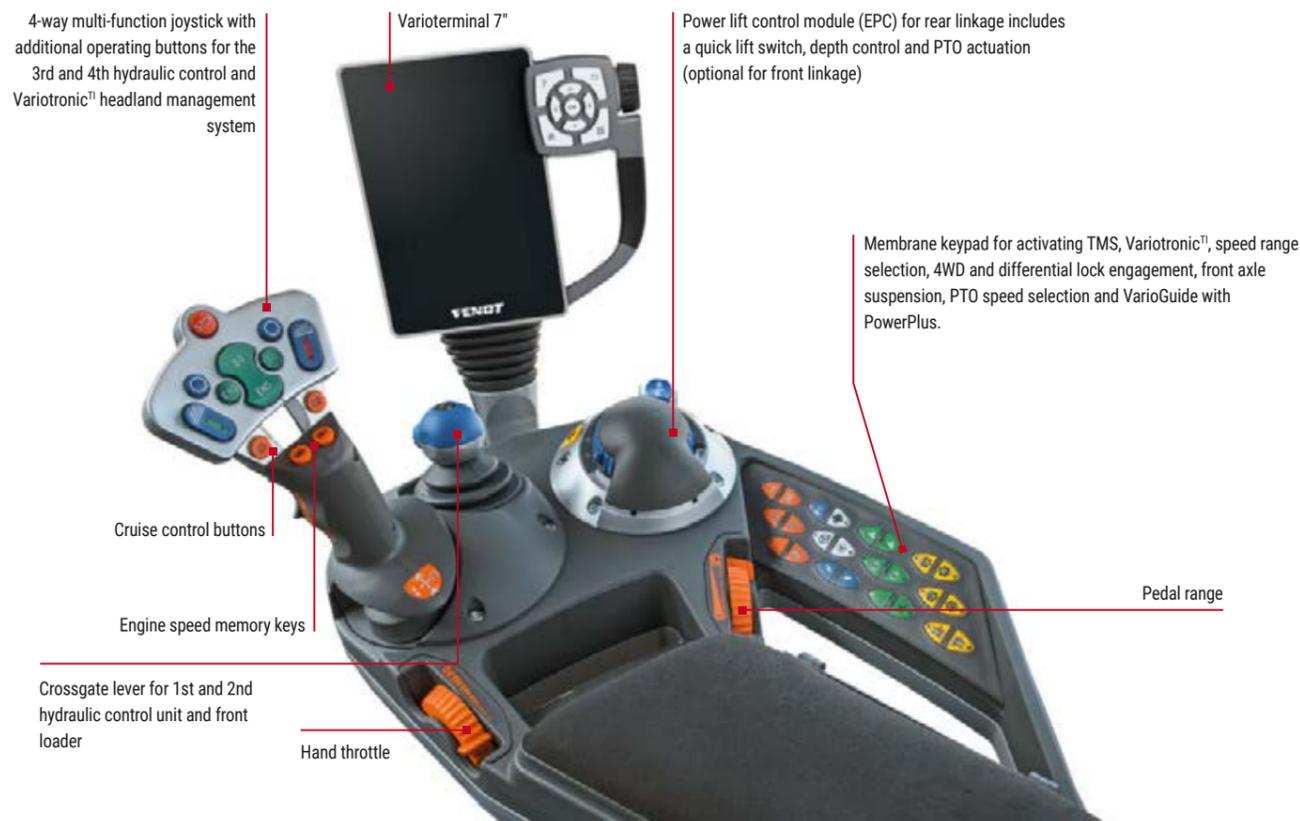


| Fendt Cargo front loader |  |         | 4X/85 <sup>2</sup> | 5X/85 <sup>1</sup> | 5X/90 <sup>1</sup> |
|--------------------------|--|---------|--------------------|--------------------|--------------------|
| A                        | Digging depth (tyre-dependent)                   | mm      | 130                | 250                | 250                |
| B                        | Excavation height (tyre-dependent)               | mm      | 4150               | 4460               | 4460               |
| C                        | Laying width at height of 3.5 m (tyre-dependent) | mm      | 1610               | 1910               | 1910               |
| C                        | Laying width (tyre-dependent)                    | mm      | 980                | 1080               | 1080               |
| D                        | Angle of emptying                                | degrees | 55                 | 55                 | 55                 |
| E                        | Angle of backwards tilt                          | degrees | 48                 | 48                 | 48                 |
|                          | Continuous lifting capacity                      | daN     | 2600               | 2600               | 2950               |
|                          | Max. lift capacity                               | daN     | 3000               | 3000               | 3460               |

<sup>1</sup> Same values apply to Fendt CargoProfi  
<sup>2</sup> Fendt 700 Vario (up to max. tyre Ø 1450 mm)



# Fendt 700 Vario Power/PowerPlus.



### The Varioterminal 7"

The Varioterminal 7" with LED backlighting brings all the tractor and implement functions together in one terminal. ISOBUS-capable implements can also be controlled directly with the Varioterminal. You will find your way around easily in the flat menu hierarchy and the clear display. Simply touch the corresponding menu item directly on the touchscreen or click a key. Smartphone-look LCD display delivers brilliant colours and a sharp resolution of 480 x 800 pixels. It is extremely scratch-proof and easy to clean. The display dims automatically at night, prevents blinding.

### Everything at hand: Multifunction joystick

With the multifunction joystick, you can control the tractor easily and precisely. The 4-way multi-function joystick accelerates the Fendt 700 Vario without steps. 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.

# Fendt 700 Vario Profi/ProfiPlus.



### 4-in-1 Terminal: The Varioterminal 10.4"

Tractor and implement controls, camera function as well as guidance and documentation are completely integrated in the Varioterminal 10.4". The straightforward screen layout is practical and can display full-screen and half-screen modes as well as four individual images, each with a different function. The high-quality touch display made of scratch-proof glass has a resolution of 800 x 600 pixels and 16 million colours for an ultra sharp image, even in night mode. Touch operation reacts sensitively and quickly. Key operation is also available.

### 25 implement memories

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. Of course, operators can also save their own custom settings.

## FENDT 700 VARIO

# Cab.



The flexible swan neck microphone enables hands-free phone calls with the best sound-quality.



Numerous sockets are available for external current consumers.



■ The Fendt cab offers a number of different storage spaces and compartments so everything has its place.



□ The cockpit, including the steering wheel, is individually height-adjustable.



□ Easy access, optimal suspension properties, ergonomic arrangement of controls, and additional visibility and space with the panoramic windscreen, 300° windscreen wiper, LED lighting concept and much more – that's the Fendt VisioPlus cab.



□ The integrated air conditioning ensures optimal cooling – manually controlled in the Power variant, fully automatic control in the Fendt 700 Vario PowerPlus, Profi and ProfiPlus.



The Varioterminal can be adjusted in all directions thanks to a new bracket with a ball joint.



□ The instructor seat can be folded down into a table with a clamp for documents.



□ The phone bracket can be adjusted to accommodate various phone models.



□ A radio with CD and MP3 function and four stereo loudspeakers deliver the best sound quality in the cab.



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



□ The pneumatic cab suspension with braking and pitch compensation reduces vibrations to a minimum and provides high ride comfort. It is supported on three points and has an integrated self-levelling feature. (available for Fendt 700 Vario Profi and ProfiPlus).



□ In addition to the features of the dual motion comfort seat Evolution, the super comfort seat Evolution dynamic Dualmotion also offers active suspension. The seat cover is available in either a black fabric or black, smooth leather in combination with a leather steering wheel.



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



■ The pneumatic cab suspension reduces vibrations effectively 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.



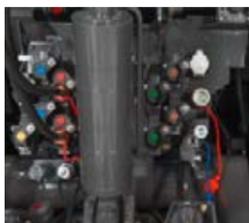
□ The air-sprung super comfort seat is equipped with an adjustable backrest, heating, low frequency suspension, pneumatic lumbar support and easy armrest adjustment. A three-point safety belt is available.



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

FENDT 700 VARIO

# Hydraulics and mounting areas.



□ Power Beyond pressure and control line for efficient implement drive and control.

□ The self-closing valve flaps on the DCUP couplings offer secure protection against contamination through dirt or water.



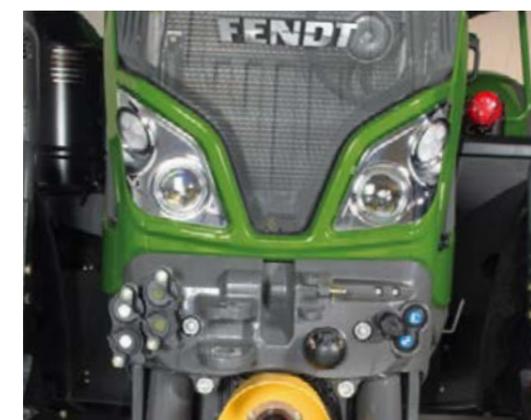
■ Rear PTO with speeds 540, 540E, 1000 and 1000E rpm. The external PTO actuation at the rear is especially convenient.



■ The hydraulic connections on the Fendt 700 Vario can always be coupled under pressure (CUP). The double-sided DCUP (dual couple-under-pressure) couplings make mounting and removing the implements much easier.



**Interfaces at the rear include** ISOBUS signal socket, hydraulic top link, five double-acting control valves, unpressurised return, compressed air brake, Power Beyond pressure and control line, hydraulic trailer brake, 7-pin socket, lower link arresters, ABS socket, rear PTO (540 / 540E / 1,000 / 1,000E), trailer coupling, bottom hitch and automatic steering axle.



**Interfaces at the front:** Top link, two double-acting control valves, unpressurised front return, 7-pin socket, front PTO (1,000 rpm), shut-off valve, bottom link arrester, fold-away bottom link, EPC front linkage including shock load stabilising



□ ISOBUS socket for connecting implement control units.



□ Using the double-sided fender controls, you can actuate the PTO, the rear hitch and a control unit of your choice in the tractor boot.

FENDT 700 VARIO

# Lighting.



■ Get back home safely: The integrated coming home light permits operators to climb down from the tractor safely, even in the dark. The headlights continue to shine a while longer after the tractor is switched off.



In the Fendt 700 Vario, you also work safely and effectively in the dark. The 360° LED lighting design gives you more light when working, with an increased light intensity totalling 49,900 lumens. The lights on the steps to the cab already provide safety and a sure feeling. Equipped with high-quality LED headlamps, night becomes day. Dipped and main lights in the bi-LED headlamps offer a wide view as well as increased safety on the road. They have especially strong illuminating power with low power consumption and a long lifetime.



In night mode, the display is dimmed to keep the lighting at a pleasant level for the operator. Thanks to the alternative display, the settings and icons are easy to see.



■ The lighting is easily set and adjusted thanks to its straightforward layout. With the one-button system, all previously set work lights can be switched easily and quickly with just one touch of a button in the membrane keypad.



□ With the corner lights, you have the entire wheel arch in view, even at night. The corner lights are also available as extra bright LED lights.



□ The beams of the work lights cross each other. This prevents all shadows and reflections so operators profit from an optimally illuminated field of vision.

FENDT 700 VARIO

# Ride comfort and hitch systems.

+/- 50 mm suspension travel

8° swing angle



■ The front axle has a suspension system as standard, with suspension characteristics specially adapted to heavy-duty traction on the field. By consistently avoiding power-hopping, the tractive power on the front axle can be increased by up to 7% (unlike without suspension).

The design of the suspension 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.

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

Without VarioActive

1x turn of the steering wheel = 26.6°

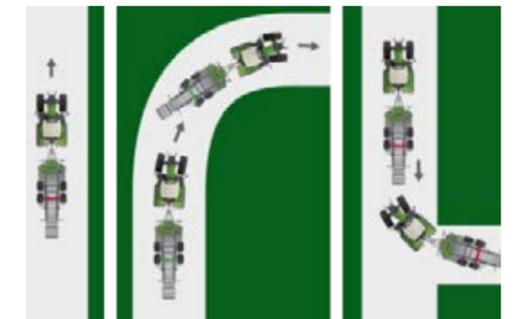


With VarioActive

1x turn of the steering wheel = 43.3°



Compared to the standard setting, with VarioActive you need 60% fewer turns of the steering wheel for the same wheel angle. With VarioActive, you benefit from the faster reaction of the steering when making tight turning manoeuvres at the headland or during front loader work. For safety reasons, it can only be used from 0 to 25 km/h.



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.



## FENDT SERVICES

The best product with the best care and service.

Fendt provides you with a high-tech product for even the toughest challenges. That's why you can expect that little bit extra when it comes to services from highly-efficient, certified Fendt dealers:

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

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

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



+44 330 123 9909

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

FENDT SERVICES

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

**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.

**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 and full payment – you set the general finance terms for 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 – even if it's pre-loved 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:

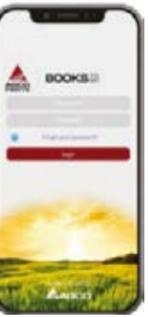
- Certification according to strict quality standards
- Extensive incoming check (technology, wear, appearance)
- Fully serviced wear parts
- If required, replace, clean and paint components
- One-year warranty (option to extend)

**Fendt Care – servicing and guarantee extensions**

In order 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 durations and flexible rates with and without excess, the machine can be guaranteed even after the 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.

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. Please contact your Fendt dealer for your personal access data.



## 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 repair risk (except wear and tear) |                                      |  | 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 that 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 our new Fendt Care rates, Fendt offers extensive coverage for the reliability and repair risk of new machines. Fendt Care gives you complete cost control with exceptional service. From a service agreement to the full carefree package including replacement machine, Fendt has a flexible and tailored solution for your fleet.

# Quick and simple servicing.



A swing-up bonnet and removable side panels provide excellent access to the engine compartment. This means you can quickly and easily remove the air filter.



The radiator is also easy to access when it needs cleaning.

# Fendt extras.



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



# What can we do for you?

### What makes Fendt Services different?

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

### How do I get a software update?

Fendt software is update-compatible, so your Fendt always features the latest technology. This ensures that your Fendt machine is technologically advanced, maintains its value and provides return on investment in the future, just like the day you bought it. Contact your Fendt dealer for details.

### What is Fendt Expert?

Become a Vario pro with our Fendt Expert operator training: Do you know all about the functions at your disposal? 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

24/7 Fendt – You can, with our multimedia solutions. 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.



Standard and optional equipment  
 Standard: ■  
 Optional: □

FENDT 700 VARIO

# Equipment variants.

|  | Power | PowerPlus | Profi | ProfiPlus |
|--|-------|-----------|-------|-----------|
| <b>Engine</b>  |       |           |       |           |
| Fuel pre-filter (heated)   | □     | □         | □     | □         |
| Preheater unit (engine, transmission, hydraulic oil)   | □     | □         | □     | □         |
| Exhaust brake  | □     | □         | □     | □         |
| <b>Transmission</b>  |       |           |       |           |
| Shuttle function, stop-and-go function   | ■     | ■         | ■     | ■         |
| Acoustic signal when reversing   |       | □         | □     | □         |
| <b>Vario operation</b>   |       |           |       |           |
| Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics | ■     | ■         | ■     | ■         |
| Varioterminal 7" with touchscreen and key control  | ■     | ■         | ■     | ■         |
| Varioterminal 10.4" with touchscreen and key control   |       |           | □     | ■         |
| Variotronic implement control for ISOBUS   |       | □         | □     | ■         |
| Variotronic <sup>TM</sup> - Headland Management System   | ■     | ■         | ■     | ■         |
| Guidance system VarioGuide NovAtel / Trimble   |       | □         | □     | □         |
| VarioDoc - documentation system (only with Varioterminal 10.4")  |       |           | □     | ■         |
| VarioDoc Pro - documentation system  |       |           |       | ■         |
| SectionControl   |       |           |       | □         |
| VariableRateControl  |       |           |       | □         |
| Electronic immobiliser   | ■     | ■         | ■     | ■         |
| Without immobiliser  | □     | □         | □     | □         |
| <b>Cab</b>   |       |           |       |           |
| Active charcoal filter   | □     | □         | □     | □         |
| Pneumatic cab suspension   | ■     | ■         | ■     | ■         |
| Pneumatic cab suspension, 3-point with integral self-levelling   |       | □         | □     | □         |
| Super comfort seat 3-point belt  | □     | □         | □     | □         |
| Comfort seat, air sprung   | ■     | ■         | ■     | ■         |
| Super Comfort Seat, air sprung   | □     | □         | □     | □         |
| Super comfort seat Evolution dynamic / CA  | □     | □         | □     | □         |
| Super Comfort Seat Evolution dynamic DuMo/CA   | □     | □         | □     | □         |
| Super Comfort Seat Evolution dynamic DuMo leather / CA   |       |           | □     | □         |
| Comfort instructor seat  |       |           | ■     | ■         |
| Air-conditioning   | ■     | ■         | ■     | ■         |
| Integrated automatic climate control   |       |           | □     | □         |
| Split windscreen and door on right   | □     | □         | □     | □         |
| Continuous windscreen  | ■     | ■         | ■     | ■         |
| Rear window heated   | □     | □         | □     | □         |
| Segment wipers front   | □     | □         | □     | □         |
| Parallel wipers front  | □     | □         | □     | □         |
| 300°-front windscreen wipers (with continuous windscreen)  |       |           | ■     | ■         |
| Rear window wash/wipe  | □     | □         | □     | □         |
| Wide-angle mirror  | ■     | ■         | ■     | ■         |
| Radio mounting kit with two stereo speakers  | ■     | ■         | ■     | ■         |
| Radio CD MP3 hands-free speaking system  | □     | □         | □     | □         |
| Radar sensor   |       |           | □     | □         |
| <b>Chassis</b>   |       |           |       |           |
| Front axle suspension self-levelling, lockable   | ■     | ■         | ■     | ■         |
| Steering brake   |       | □         | □     | □         |
| Pneumatic high-speed dual-circuit braking system 1 pedal   | ■     | ■         | ■     | ■         |
| Pneumatic high-speed dual-circuit braking system 2 pedal   |       | □         | □     | □         |
| Automatic trailer steering axle lock   |       |           | □     | □         |
| Compressed air Duomatic coupling   | □     | □         | □     | □         |

## 4WD

|   |   |   |   |   |
|---|---|---|---|---|
| Rear / front differential with 100% disc locking and steering angle sensors | ■ | ■ | ■ | ■ |
|---|---|---|---|---|

## Power lift

|  |   |   |   |   |
|--|---|---|---|---|
| Da front power lift, with external control (separate valve)                              | □ | □ | □ | □ |
| Comfort front power lift da, with position control, external controls                    | □ | □ | □ | □ |
| Comfort front power lift da, with position control and relief control, external controls | □ | □ | □ | □ |
| Hydraulic lower link lateral stabiliser  |   |   | □ | □ |

## PTO

|   |   |   |   |   |
|---|---|---|---|---|
| Front: 1000 rpm                           | □ | □ | □ | □ |
| Rear: Flanged PTO 540/540E/1000/1000E rpm | ■ | ■ | ■ | ■ |

## Hydraulics

|  |   |   |   |   |
|--|---|---|---|---|
| EHS valve actuation crossgate lever, multi-function joystick | ■ | ■ | ■ | ■ |
| EHS valve actuation linear module                            |   |   | ■ | ■ |
| External control for hydraulic control unit at rear          | □ | □ | □ | □ |
| Load sensing system with axial piston pump (109 l/min)       | ■ | ■ |   |   |
| Load sensing system with axial piston pump (152 l/min)       | □ | □ | ■ | ■ |
| Load sensing system with axial piston pump (193 l/min)       |   |   | □ | □ |
| Hydraulic power beyond connection                            | □ | □ | □ | □ |
| Return rear  | ■ | ■ | ■ | ■ |
| Unpressurised rear return flow                               | □ | □ | □ | □ |
| Double connect-under-pressure lever couplings rear           | □ | □ | □ | □ |
| CUP coupling rear  | ■ | ■ | ■ | ■ |
| Bio hydraulic oil  | □ | □ | □ | □ |

## Additional equipment

|  |   |   |   |   |
|--|---|---|---|---|
| Manual hitch   | □ | □ | □ | □ |
| Automatic trailer hitch with remote control, rear                          | ■ | ■ | ■ | ■ |
| Ball coupling, height adjustable   | □ | □ | □ | □ |
| Ball coupling, short, in the bottom hitch                                  | □ | □ | □ | □ |
| Ball coupling, long, in the bottom hitch                                   | □ | □ | □ | □ |
| Hitch  | □ | □ | □ | □ |
| Drawbar  | □ | □ | □ | □ |
| Piton-fix  | □ | □ | □ | □ |
| Comfort ballast for front-end weight (not available with front power lift) | □ | □ | □ | □ |
| Wheel weights, rear wheels   | □ | □ | □ | □ |
| Forced steering (one or two-sided)   | □ | □ | □ | □ |
| Pivoting front wheel mudguard  | ■ | ■ | ■ | ■ |
| ABS trailer sockets  |   |   | □ | □ |

## Front loader

|                                |   |   |   |   |
|--------------------------------|---|---|---|---|
| Front loader attachment parts  | □ | □ | □ | □ |
| Front loader Cargo 4X/85       | □ | □ | □ | □ |
| Front loader Cargo 5X/85       | □ | □ | □ | □ |
| Front loader Cargo Profi 5X/85 |   |   | □ | □ |
| Front loader Cargo 5X/90       | □ | □ | □ | □ |
| Front loader Cargo Profi 5X/90 |   |   | □ | □ |

FENDT 700 VARIO

# Technical specifications.



|                         |        | 714 Vario | 716 Vario | 718 Vario | 720 Vario | 722 Vario | 724 Vario |
|-------------------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Engine</b>           |        |           |           |           |           |           |           |
| Rated power ECE R 120   | kW/hp  | 106/144   | 120/163   | 133/181   | 148/201   | 163/222   | 174/237   |
| Maximum power ECE R 120 | kW/hp  | 110/150   | 126/171   | 138/188   | 154/209   | 168/228   | 181/246   |
| No. of cylinders        | Number | 6         | 6         | 6         | 6         | 6         | 6         |
| Cylinder bore/stroke    | mm     | 101/ 126  | 101/ 126  | 101/ 126  | 101/ 126  | 101/ 126  | 101/ 126  |
| Cubic capacity          | cm³    | 6056      | 6056      | 6056      | 6056      | 6056      | 6056      |
| Rated speed             | rpm    | 2100      | 2100      | 2100      | 2100      | 2100      | 2100      |
| Max. torque at 1450 rpm | Nm     | 650       | 725       | 804       | 911       | 988       | 1072      |
| Torque rise             | %      | 43.0      | 40.0      | 39.0      | 39.0      | 39.0      | 38.0      |
| Fuel level              | litres | 400.0     | 400.0     | 400.0     | 400.0     | 400.0     | 400.0     |
| AdBlue tank             | litres | 38.0      | 38.0      | 38.0      | 38.0      | 38.0      | 38.0      |

## Transmission and PTO

|                         |      | 714 Vario               | 716 Vario               | 718 Vario               | 720 Vario               | 722 Vario               | 724 Vario               |
|-------------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Transmission type       |      | ML 140                  | ML 140                  | ML 180                  | ML 180                  | ML 180                  | ML 180                  |
| Speed range 1           | km/h | 0,02-28                 | 0,02-28                 | 0,02-28                 | 0,02-28                 | 0,02-28                 | 0,02-28                 |
| Speed range 1 - reverse | km/h | 0,02-17                 | 0,02-17                 | 0,02-17                 | 0,02-17                 | 0,02-17                 | 0,02-17                 |
| Speed range 2           | km/h | 0,02-50                 | 0,02-50                 | 0,02-50                 | 0,02-50                 | 0,02-50                 | 0,02-50                 |
| Speed range 2 - reverse | km/h | 0,02-33                 | 0,02-33                 | 0,02-33                 | 0,02-33                 | 0,02-33                 | 0,02-33                 |
| Top speed               | km/h | 50                      | 50                      | 50                      | 50                      | 50                      | 50                      |
| Rear PTO                |      | 540/ 540E / 1000/ 1000E |
| Front PTO option        |      | 1000                    | 1000                    | 1000                    | 1000                    | 1000                    | 1000                    |

## Power lift and hydraulics

|  |        | 714 Vario | 716 Vario | 718 Vario | 720 Vario | 722 Vario | 724 Vario |
|--|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Variable flow pump                                 | l/min  | 109       | 109       | 109       | 109       | 109       | 109       |
| Variable flow pump option 1                        | l/min  | 152       | 152       | 152       | 152       | 152       | 152       |
| Variable flow pump option 2                        | l/min  | 193       | 193       | 193       | 193       | 193       | 193       |
| Working pressure / control pressure                | bar    | 200+20    | 200+20    | 200+20    | 200+20    | 200+20    | 200+20    |
| Max. valves (front/centre/rear) Power / Power Plus | Number | 1/0/4     | 1/0/4     | 1/0/4     | 1/0/4     | 1/0/4     | 1/0/4     |
| Max. valves (front/centre/rear) Profi / Profi Plus | Number | 2/0/5     | 2/0/5     | 2/0/5     | 2/0/5     | 2/0/5     | 2/0/5     |
| Max. available hydraulic oil volume                | litres | 64        | 64        | 64        | 64        | 64        | 64        |
| Max. lift capacity of rear power lift              | daN    | 10360     | 10360     | 10360     | 10360     | 10360     | 10360     |
| Max. lift capacity of front power lift             | daN    | 4418      | 4418      | 4418      | 4418      | 4418      | 4418      |

## Tyres

|                         |  | 714 Vario | 716 Vario | 718 Vario | 720 Vario | 722 Vario | 724 Vario |
|-------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Front tyres (standard)  |  | 480/70R28 | 540/65R28 | 540/65R28 | 540/65R30 | 540/65R30 | 540/65R30 |
| Standard tyres rear     |  | 580/70R38 | 650/65R38 | 650/65R38 | 650/65R42 | 650/65R42 | 650/65R42 |
| 1. Optional front tyres |  | 540/65R30 | 540/65R30 | 540/65R30 | 600/65R28 | 600/65R28 | 600/65R28 |
| 1. Optional rear tyres  |  | 580/70R42 | 580/70R42 | 650/65R42 | 710/70R38 | 710/70R38 | 710/70R38 |

## Dimensions

|   |    | 714 Vario | 716 Vario | 718 Vario | 720 Vario | 722 Vario | 724 Vario |
|---|----|-----------|-----------|-----------|-----------|-----------|-----------|
| Front track width (standard tyres)                        | mm | 1950      | 1950      | 1950      | 1950      | 1950      | 1950      |
| Rear track width (standard tyres)                         | mm | 1920      | 1920      | 1920      | 1920      | 1920      | 1920      |
| Overall width with standard tyres                         | mm | 2550      | 2550      | 2550      | 2550      | 2550      | 2550      |
| Overall length  | mm | 5240      | 5240      | 5240      | 5240      | 5240      | 5240      |
| Overall cab height with standard tyres without VarioGuide | mm | 2946      | 2946      | 3050      | 3050      | 3050      | 3050      |
| Overall cab height with standard tyres with VarioGuide    | mm | 2980      | 2980      | 3099      | 3099      | 3099      | 3099      |
| Max. ground clearance                                     | mm | 506       | 506       | 506       | 506       | 506       | 506       |
| Wheelbase   | mm | 2783      | 2783      | 2783      | 2783      | 2783      | 2783      |

## Weights

|  |    | 714 Vario | 716 Vario | 718 Vario | 720 Vario | 722 Vario | 724 Vario |
|--|----|-----------|-----------|-----------|-----------|-----------|-----------|
| Unladen weight (base tractor with cab - full tanks, without driver)                        | kg | 7735.0    | 7735.0    | 7790.0    | 7980.0    | 7980.0    | 7980.0    |
| Max. permissible overall weight up to 40 km/h country-specific exception approval required | kg | 12500.0   | 12500.0   | 14000.0   | 14000.0   | 14000.0   | 14000.0   |
| Max. permissible overall weight up to 50 km/h country-specific exception approval required | kg | 12500.0   | 12500.0   | 14000.0   | 14000.0   | 14000.0   | 14000.0   |
| Max. trailer hitch load  | kg | 2000.0    | 2000.0    | 2000.0    | 2000.0    | 2000.0    | 2000.0    |

# FENDT

It's Fendt. Because we understand Agriculture.



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