

# FENDT

## Fendt 700 Vario







## Perfected for every kind of work.

This versatile tractor, ranging from 144-237 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. A new driver's workstation sets standards in terms of functionality, customising and ergonomics. The new FendtONE operating philosophy is also unique, connecting your office seamlessly with your machines for the first time.

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



**Turn your work routine into perfection.**

The new 700 Vario has it all – strength, agility, precision, reliability, functionality and comfort.

- Power segment 144 to 237 hp
- Self-levelling front axle suspension
- Front power lift with load-relief control
- Third Front loader valve to simultaneously activate 3 functions
- TMS pedal mode that adjusts deceleration by detecting thrust
- Automatic trailer steering axle lock
- 100% differential locks for front and rear
- 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 an optional 152 l/min or 193 l/min.
- 4-speed rear PTO
- 1000E economy PTO
- ISOBUS socket in the front and rear



Become a perfectionist.  
With the Fendt 700 Vario.

**Making the best even better.**

The new driver's workstation is the ultimate space for more functionality, customising and ergonomics.

- New armrest with familiar Fendt elements
- Incorporates up to 3 display options:
  - Digital dashboard
  - 12" terminal on the armrest
  - Additional terminal stows into the roof liner
- Customise your terminals
- New multifunction joystick with even more functions
- Flexible key assignment with Individual Operation Manager (IOM)
- Logical colour coding
- Infotainment package
- Premium sound system
- New end-to-end operating philosophy FendtONE
- 4 USB ports on the armrest



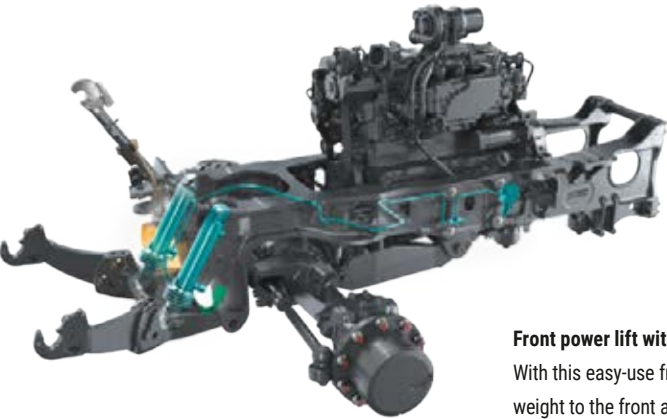
# Tried and tested a thousand times over.



**Third Front loader valve for more options**  
With the third valve for Fendt Cargo front loaders, you can run up to 3 functions at the same time. This helps when using a round baler fork lift, for example. Lower the front loader, extend the bale forks and open them at the same time.



**ISOBUS interfaces**  
An ISOBUS socket is available in both the rear and front, to control ISOBUS-enabled attachments. All the controls you need are in the armrest.



**Front power lift with load-relief control**  
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.

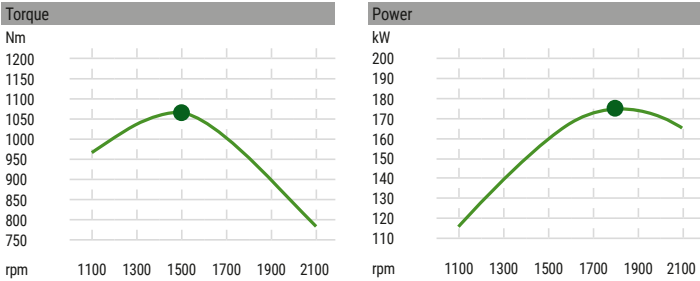


**Vario transmission**  
The Fendt Vario transmission is a hydrostatic-mechanical power split drive. With increasing speed, the share of the mechanical power transmitted through the planetary set increases. The hydrostats can be swung 45 degrees and have a high operating pressure of max. 550 bar – this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



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

**Engine properties**  
The 6-litre 6-cylinder engine delivers 144 to 237 hp. The high-end model, the Fendt 724 Vario, reaches its maximum torque of 1,072 Nm at just 1,500 rpm. This saves fuel and cuts down the low noise levels.





FENDT 700 VARIO.

## A workplace that feels like home.

### Fully equipped

So you can work professionally and in comfort, you can design your driver's workstation on the Fendt 700 Vario to suit your requirements. With top priority given to ease of use.

### Display options

As well as the new standard 12" terminal on the armrest, the 10" dashboard is now also digital. The genius thing about this is that, in addition to regulation-compliant road data, you can also view machine-related information while you're on the field. For extra display space, use the 12" roof terminal. You can stow this one half way into the roof liner. Applications like the air conditioning or the Infotainment system are still shown on the lower, visible half of the terminal.

### Infotainment package with sound experience

Four high-end speakers and a subwoofer deliver superior sound quality in the cab. Enjoy playback from your smartphone via USB, AUX-IN and Bluetooth. FM/AM/DAB+/HD and two antennas with permanent channel search also ensure the best radio reception. Make phone calls in your Fendt 700 Vario with a fantastic quality hands-free kit: A total of 8 microphones built into the roof liner guarantees the perfect acoustics, picking up your voice every time. The controls are on the terminal or the armrest.

### Fendt Connect telemetry system

Our basic telemetry package is the best way to analyse and manage your fleet. Fendt Connect can read, store and analyse machine data as part of the package. This makes it easier to plan usage times and machine capacity, which ultimately helps you increase the cost-effectiveness of your vehicles. View machine data on your PC or smart device, including:

- Machine position and route (map view)
- Fuel consumption
- Speed
- Operating time
- Machine capacity
- Error messages
- Upcoming service intervals
- And more.



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# Taking user friendliness to a whole new level.

## Crossgate lever / 3L joystick

There is a crossgate lever or 3L joystick to control the 3rd and 4th hydraulic control units as well as the front loader, depending on the configuration. The 3L joystick gives you up to 27 functions, split over up to 3 control levels ('3L' stands for 3 levels). ISOBUS implements are also compatible with this. You can now use the 3rd valve together with the 3L joystick and the Fendt front loaders to control 3 functions at once. With the additional reverse drive button, changing direction is a smooth and comfortable experience.

## 12" terminal

Up to 6 freely configurable screens are shown on the standard 12" terminal.

## Infotainment control: Volume/mute

## Aircon control

## Pushdial

Use the pushdial to manually use the terminals instead of using touch control. You can also switch between the terminals. There are hotkeys for quick navigation.

## Front/rear power lift control

## Gear function control

## Customisable buttons

The buttons are ready to be assigned, so you can adapt your Fendt 700 Vario to suit your work, and have your most common actions right where you need them. A clever light system gives you a visual reminder of functions that have been reassigned to other buttons. This means you can quickly find your way around without any user errors.

## Assign the functions you want (basic setting: hydraulic valve control)

FENDT 700 VARIO

# Equipment ranges.

For the best workplace to suit your needs, we have four different equipment variants to choose from:

**Power, Power+, Profi, Profi+**

Choose from Setting 1 or Setting 2:



## Power Setting 1

- No crossgate lever
- One rocker pair (linear module) to control the hydraulic valves



## Power+ Setting 1

- Crossgate lever
- One rocker pair (linear module) to control the hydraulic valves



## Profi Setting 1/ Profi+ Setting 1

- Crossgate lever
- Two rocker pairs (linear module) to control the hydraulic valves



## Power Setting 2

- Crossgate lever
- No rocker pair (linear module) to control the hydraulic valves



## Power+ Setting 2

- 3L joystick
- One rocker pair (linear module) to control the hydraulic valves



## Profi Setting 2/ Profi+ Setting 2

- 3L joystick
- Two rocker pairs (linear module) to control the hydraulic valves



# FendtONE – seamlessly connecting office and machine.



Whenever you buy a product or service with the Fuse logo, you can enjoy guaranteed open connectivity and compatibility within our core brand ranges as well as with other manufacturers' products. To find out more, go to [www.FuseSmartFarming.com](http://www.FuseSmartFarming.com)

**Consistent and intuitive operating philosophy**  
For the first time, the new FendtONE platform merges your machines and your office into one control unit. FendtONE combines the familiar operation of the tractor with the terminal for planning or control tasks that classically would take place in the office. You can schedule field data and orders on your computer or smart device wherever you are, and send them to your machine. The view from the driver's cab and online (from the office or on the move) is always the same. FendtONE helps you comply with legal documentation requirements and optimises your entire work processes.

- Practical advantages at a glance:**
- Intuitive and uniform operation (same buttons in the same place with the same icons)
  - Centralised maintenance of master data (field data, machines, etc.)
  - Easily send data to the machine terminal and vice versa – wherever, whenever.
  - Open and vendor-independent system, with the option to manage mixed fleets
  - Customers retain ownership of their data

**Choose from 4 modules**  
A total of 4 modules are available, which you can select as needed:

- Guidance system
- Agronomy
- Telemetry
- Machine control

Each module includes a basic package of the startup applications you need. You can also extend the modules with optional extras.

## Tailored to your needs

Fendt Smart Farming Module	Benefits	Optional
<b>Guidance system basic package</b> <ul style="list-style-type: none"><li>• Equips the tractor for lane guidance and the Fendt Guide application</li></ul>	<ul style="list-style-type: none"><li>• Even more efficient field work</li><li>• Indispensable for plant protection and all other field work</li><li>• Easy and intuitive</li><li>• Field data updated and managed in one place</li><li>• Less work for the driver</li><li>• Less overlapping during parallel runs</li><li>• Higher productivity and fuel efficiency</li><li>• Full lane guidance capabilities</li></ul>	<ul style="list-style-type: none"><li>• Choice of different receivers (NovAtel or Trimble)</li><li>• Fendt Contour Assistant</li><li>• Fendt TI</li><li>• Fendt TI Headland (Fendt TI Auto)</li></ul>
<b>Agronomy basic package</b> <ul style="list-style-type: none"><li>• Includes the Fendt Task Doc and Fendt Task Manager apps</li><li>• Create orders and follow-up reports on the machine</li><li>• Full overview of completed jobs</li></ul>	<ul style="list-style-type: none"><li>• Overview of tasks and jobs</li><li>• Simplified documentation of jobs and field work</li><li>• Complete documentation of field work</li><li>• Ready for future reporting</li><li>• Flexible data transfer: USB, Bluetooth or mobile network</li></ul>	<ul style="list-style-type: none"><li>• Next Machine Management</li><li>• agrirouter</li></ul>
<b>Telemetry basic package</b> <ul style="list-style-type: none"><li>• For the best analysis and optional fleet management</li><li>• Use Fendt Connect to display and store data such as machine position, fuel consumption, speed and error codes</li><li>• Storage to evaluate work processes and machine condition</li><li>• Data is sent via the mobile network, so you can check machine data wherever you are</li></ul>	<ul style="list-style-type: none"><li>• Reliable planning, with the best application windows and machine performance</li><li>• Increased vehicle efficiency</li><li>• Access machine data wherever you are</li><li>• Simple fleet management</li><li>• Avoid machine downtimes by identifying error codes as soon as they appear</li><li>• Improved dealership service</li></ul>	
<b>Machine control basic package</b> <ul style="list-style-type: none"><li>• Prerequisite for additional ISOBUS functions</li><li>• Simple and intuitive control of ISOBUS attachments with standardised cross-vendor interface as per Standard ISO 11783</li><li>• The tractor terminal and attachment are attached using a socket at the rear</li></ul>	<ul style="list-style-type: none"><li>• More efficient use of the setup and resources</li><li>• Better quality of work</li><li>• Helps you target your work for each sub-section</li><li>• Saves on pesticides, fertilisers and seeds by targeting how you manage your work for each sub-section (VRC, SC)</li><li>• Maximum range of functions to manage ISOBUS implements</li><li>• Easy control of complex attachments</li><li>• No additional ISOBUS hardware required for plant protection, thanks to the Fendt 3L joystick and its 27 functions</li></ul>	<ul style="list-style-type: none"><li>• Fendt Section Control (SC)</li><li>• Fendt VariableRateControl (VRC)</li></ul>



Standard and optional equipment  
Standard: ■  
Optional: □

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Equipment variants.\*

	Power	Power+	Profi	Profi+
Engine				
Fuel pre-filter (heated)	□	□	□	□
Preheater unit (engine, transmission, hydraulic oil)	□	□	□	□
Exhaust brake	□	□	□	□

Transmission				
Shuttle function, stop-and-go function	■	■	■	■
Acoustic signal when reversing	□	□	□	□

Guidance system				
Guidance system basic package		■		■
Standard Trimble / NovAtel		□		□
RTK Trimble / NovAtel		□		□
TI Auto				□
Contour Assistant		□		□

Agronomy				
Agronomy basic package		□		■

Telemetry				
Telemetry basic package		□	□	■

Machine control				
Machine control basic package (ISOBUS)		■	■	■
Front implement control (ISOBUS)			□	□
Section Control (SC)				□
Variable Rate Control (VRC)				□

Vario operation				
Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	■	■	■	■
3L joystick		□	□	□
Individual Operation Manager – flexible key assignment	■	■	■	■
Digital Dashboard	■	■	■	■
12" terminal with touchscreen and key control	■	■	■	■
Second 12" terminal in roof			□	□
Fendt Active steering	■	■	■	■
Electronic immobiliser	■	■	■	■
Without immobiliser	□	□	□	□

Cab				
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 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	■	■	□	□
300°-front windscreen wipers (with continuous windscreen)	□	□	■	■
Rear window wash/wipe	□	□	□	□
Rear view mirror and wide-angle mirror electrically adjustable, heated			□	□
Auxiliary device holder	□	□	□	□
Universal mobile phone holder	□	□	□	□
Universal tablet holder	□	□	□	□

Cab				
Radio mounting kit with two stereo speakers	■	■	■	■
Infotainment package	□	□	□	□
Infotainment bundle + 4.1 sound system			□	□
4 camera connections (digital/analogue)	□	□	□	□
4 USB ports			□	□
Radar sensor			□	□

Chassis				
Front axle suspension self-levelling, lockable	■	■	■	■
Steering brake		□	□	□
Automatic trailer steering axle lock			□	□
Compressed air Duomatic coupling	□	□	□	□

4WD / differential locks				
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	□	□	□	□
Electrohydraulic power lift da (EHR), with external controls			□	□
Hydraulic lower link lateral stabiliser			□	□

PTO				
Front: 1000 rpm	□	□	□	□

Hydraulics				
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 5X/85 da - third valve		□	□	□
Front loader Cargo 5X/90	□	□	□	□
Front loader Cargo 5X/90 da - third valve		□	□	□

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Technical specifications.



		714 Vario	716 Vario	718 Vario	720 Vario	722 Vario	724 Vario
Engine							
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 1500 rpm	Nm	664	739	818	911	1002	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							
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	540/ 540E / 1000/ 1000E	540/ 540E / 1000/ 1000E	540/ 540E / 1000/ 1000E	540 / 540E / 1000/ 1000E	540 / 540E / 1000/ 1000E
Front PTO option		1000	1000	1000	1000	1000	1000

Power lift and hydraulics							
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+	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+	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							
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							
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 Fendt Guide	mm	2946	2946	3050	3050	3050	3050
Overall cab height with standard tyres with Fendt Guide	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							
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

\* Please refer to the Settings for equipment variants



# FENDT

It's Fendt. Because we understand Agriculture.



[www.fendt.com](http://www.fendt.com)

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 **AGCO**  
Your Agriculture Company

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