

# FENDT

Fendt 800 Vario





## Superior. To the last detail.

The new Fendt 800 Vario is the popular high-horsepower tractor that scores high in compactness, flexibility and performance. With up to 280 hp, they are not only powerful in the field, but also superior for transport work. It is also superior down to the last detail, with intelligent and efficiency enhancing technologies, such as the tyre pressure regulation system VarioGrip, automated steering and much more.



## Superior speed. Effortlessly.

Large-scale farms that are looking for flexible solutions for field and transport work, clearly choose the 800 Vario. In Western Europe, nearly every third tractor 200 hp and up is a Fendt Vario. No other manufacturer has such a strong position in this power segment. And that is no coincidence, because Fendt offers professional complete solutions for professional customers.

### Efficiency in motion

Speed is a must for transport work – exactly the right thing for the new Fendt 800 Vario with a top speed of 60 km/h. Dynamic, lively and with a straightforward design, it excels on the road and in the field.

- Integral tyre pressure regulation system Fendt VarioGrip
- TMS with auto. max. output control 2.0
- Very lightweight base tractor with 9.5 t unladen weight and up to 16 t permissible overall weight
- High payload up to 6.5 t with an unladen weight of only 9.5 t
- x5-cab with 3.5 m<sup>3</sup> of air space and a panoramic windscreen
- Automatic SectionControl
- Automatic radiator cleaning with reversible fan
- VariableRateControl (VRC) for precision farming
- LED lighting concept for driving and work lights



### Tested efficiency.

Fendt stands for efficiency and low fuel consumption. The best proof for that is the practice-oriented DLG PowerMix test. According to the DLG PowerMix test, with a result of 248 g/kWh diesel and 14.1 g/kWh AdBlue consumption\*, the 828 Vario is one of the most economical high-horsepower tractors that has ever been tested. And that was the benchmark to improve on for the new series.

\* Results for the Fendt 828 Vario acc. to DLG PowerMix in profi-tractor test (12/2014)

Superior performance.  
Perfection in detail.

	HP	kW
Fendt 822 Vario	220	162
Fendt 824 Vario	240	176
Fendt 826 Vario	260	191
Fendt 828 Vario	280	206

Maximum output to ECE R24

AN INTEGRAL APPROACH THROUGH EXPERIENCE

## Superior traction.

### Integrated enhanced performance

Fundamental innovations have found their way into the Fendt 800 Vario, ones that further improve the efficiency of the tractor series. Lively handling up to 60 km/h through greater dynamics, higher torque and improved power availability. At the same time, intelligent solutions, such as the tractor management system TMS, ensure low consumption of both fuel and AdBlue. The VarioGrip tyre pressure regulation system provides efficiency that is transferred directly to the ground.

### Integral tyre pressure regulation system Fendt VarioGrip

The benefits of optimum tyre pressure are clear: According to neutral tests, the ideal tyre pressure saves up to 8% fuel and increases area coverage by up to 8%.\* Tractive power can also be increased by up to 10%.\* Furthermore, it reduces soil compaction and therefore keeps yield losses at a minimum. When driving on the road, a higher air pressure ensures more stable handling and also lowers roll resistance, which reduces fuel consumption and tyre wear.

\*South Westphalia University of Applied Sciences, Agriculture Soest

### Lightweight with high payload

No matter if you are using your Fendt 800 Vario primarily for arable farming, transport or specialty operations – you profit from the low unladen weight of only 9.5 t in any case. On the one hand, you have high payload reserves of up to 6.5 t and on the other, you do not need to transport unnecessary weight. A tailor-made ballast concept is ideal for heavy draft work.

### Pulling power through self-levelling front axle suspension

The coordination of the front axle suspension of the Fendt 800 Vario has been optimised for heavy draft operations. This enables a 7% higher transfer of traction than an axle without suspension, since the wheels adapt themselves ideally to the ground, which prevents inefficient power-hopping.

The integral tyre pressure regulation system VarioGrip adapts the tyre pressure from 0.6 to 2.5 bar within the shortest amount time – even while driving. This is accomplished on all wheels via the integral rotary union, which is designed to last the lifetime of the tractor. Air is supplied via a water-cooled double-compressor as well as the vehicle's own valve equipment.



Using the Varioterminal, the tyre pressure of the tractor can be controlled with just a push of a button. The assistance system informs drivers about too low or too high tyre pressure.





The reversible fan can automatically reverse the air flow so the radiator elements can be blown out effectively. What's special: Depending on the cooling requirement, the position of the fan blades is adjusted to achieve more efficient cooling. This has a positive impact on the fuel-efficiency.

## ENGINE AND EXHAUST TECHNOLOGY

# Superior performance. Perfection in detail.

### More dynamics and more stable speeds thanks to twin turbocharger Fendt twin intercooler

With a maximum output of up to 280 hp, the Fendt 800 Vario delivers high performance. The six-cylinder Deutz engine, featuring a common rail high-pressure injection system and a 6.06 litre cubic capacity, provides liveliness and dynamics. A high injection pressure of 2,000 bar ensures fine atomisation and therefore the best combustion in the engine.

### Fuel efficiency thanks to low rated speed

The engine performance allows the rated speed to be reduced to 2,100 rpm. This not only further improves fuel efficiency, but also provides for a pleasantly low noise level.

### Can do more with twin intercooling

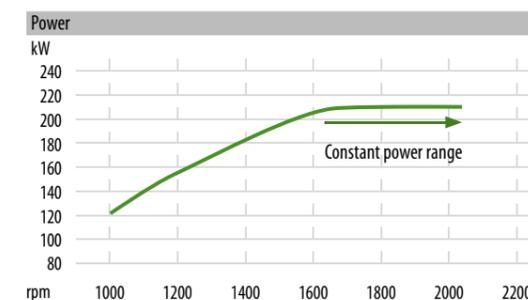
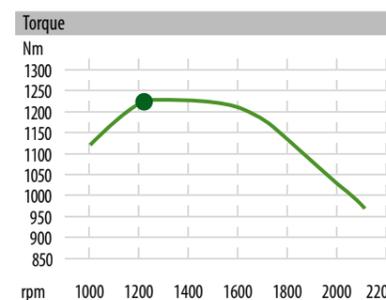
The air that has been pre-compressed in the turbocharger is cooled down by an additional charge-air intercooler, before it is further compressed in the high-pressure turbocharger. Thus the engine can take in a larger air mass with the same volume, which also means more oxygen. This results in more efficient fuel combustion and improved performance.

### Optimal solution for emissions Stage 4 / Tier 4 Final

The intelligent solution for compliance with the new Stage 4 / Tier 4 Final emissions standard is decisive for the economy of the drive train. That is why Fendt has equipped the engine with an exhaust after-treatment that enables the lowest fuel and AdBlue consumption. Exhaust after-treatment is a combination of SCR technology, the passive diesel particulate filter and the AGRex exhaust gas recirculation.



The high-grade solution for extremely low operating costs: the combination of external exhaust gas recirculation (AGRex), passive diesel particulate filter (CSF) and SCR technology.



### Engine characteristics – Fendt 828 Vario

Through the well-rounded torque curve, more power is already available in the lower speed range. Furthermore, the constant power range provides a broader engine speed band over which the maximum power can be called up. In this range, the rated speed is equivalent to the maximum power.

## SUPERIOR TRANSMISSION TECHNOLOGY

# Steplessly efficient. Fendt Vario transmission.

### Continuously variable Vario transmission ML 220

For years now, continuously variable transmissions have proven their leading efficiency and performance and have become the first choice. Operators are always in the position to work at the optimal speed, which means considerable savings potential. You save valuable working time in different operations through higher area coverage and also profit from low fuel consumption.

### Perfect settings and driving strategies

Thanks to intelligent pre-settings, it is easy to perform work. For example, engine speed and cruise control speeds can be pre-programmed in the Varioterminal and easily activated during operation using the multi-function joystick – especially practical for PTO work, for example. The different driving strategies are also adapted to operations and individual preferences. Drivers can control the speed with either the joystick with four acceleration rates or the foot pedal.

### Automatically at the optimum

Important automated functions are included with the stepless drive, ones that further optimise the coordination of the engine and transmission and reduce the operator's workload. The most important function for this is the fully automatic maximum output control 2.0. It regulates the transmission ratio dependent on the preset speed and the power demand, so that the engine speed is lowered into the range of optimal fuel consumption. There are different optimum values that can be set as the load limit for different operations, for example transport, heavy-duty draft work or for work with PTO-driven implements. The tractor sets the ideal load limit automatically. Operators therefore do not need to actively adjust the maximum output control to each operation. And the interplay between the engine and transmission is just right for every operation. Alternately, operators can also set the maximum output control manually.

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 inner housing of the transmission unit has been strengthened. It stands up to higher pressure and is designed for increasing demands.



The tractor regulates the load limit fully automatically and adjusts the engine speed and transmission ratio. In this way, the engine and transmission are perfectly coordinated, which means extremely low fuel consumption.



## FENDT X5 CAB

# Details that are a pleasure.

### More space. More visibility. More ergonomics.

The Fendt 800 Vario offers you a workplace with plenty of free space. From the driver seat, you can control all working procedures with the Variotronic and always have everything in view. Automated functions keep your performance and concentration at a high level over the entire work day.

### 3.5 m<sup>2</sup> operator paradise with panoramic view

Take your place in the big x5 cab, which offers a generous amount of space and provides exceptional visibility through the large glass areas – a true panoramic view. The automatic air-conditioning system guarantees a pleasant temperature in the workplace at all times, beverages from the air-conditioned cool box provide refreshment. On cold days, the seat heater is a plus in comfort that you would not want to miss. And when you're not working alone, a comfortable seat is available for your passenger.

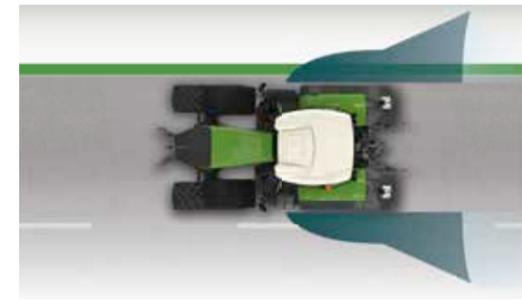
### Unique safety with laminated safety glass

The front windscreen of the Fendt 800 Vario is made of laminated safety glass for the first time. Fendt has introduced this ground-breaking innovation in agricultural equipment to increase the safety of both drivers and passengers. The front windscreen cannot shatter, it is always held together by the lamination layer when damaged. The green shade band on the upper edge of the windscreen protects against glare. The windscreen with laminated safety glass also has a built-in heater.

### Comfortable seats and many practical aids

The mechanical three-point cab suspension reduces vibrations to a minimum and provides maximum ride comfort. The absolute highlight in ride comfort results from the combination of front axle suspension and pneumatic cab suspension along with active suspension on the driver seat. A number of small details in the cab are simply a joy: a cooling compartment, various storage spaces and much more are your practical daily helpers.

The optional wide-angle mirror expands the field of vision, which greatly enhances safety. The hazard zone, which is usually located in the blind spot, is easier to see into and unforeseen situations can be avoided.



To expand the operating spectrum even further, Fendt offers a factory-installed full-function reversing driver station. It only takes a few steps to turn the driver seat around 180 degrees, including the steering wheel, multi-function armrest and all the control elements.



The automatic climate control in the x5 cab ensures pleasant temperatures inside the cab.

 The 300° wiper enlarges your field of vision and keeps the window clean, even under the most adverse conditions, so you always have a free view over the entire front of the tractor and into the wheel arches.

Hands-free phone conversations are possible in best audio quality thanks to the flexible, moveable swan-neck microphone.

FENDT VARIOTRONIC

# Varioterminal and implement control.

## Flat menu hierarchy and everything in view

Fendt has been consistently following the one-terminal strategy. The result is the unique integration of functions in just one terminal. Thanks to the flat menu hierarchy and the clutter-free display, operators can learn to use the Varioterminal quickly and always have everything in view. The high-resolution, glare-free screen in smartphone look and all function indicators automatically adapt to ambient light conditions. The anti-glare night mode makes night work no problem.

## The Varioterminal 7-B

The new Varioterminal 7-B with LED backlighting unites all tractor and implement functions 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. The LCD display in smartphone look has a sharp resolution of 480 x 800 pixels and brilliant colours. It is extremely scratch-proof and easy to clean.

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

Tractor and implement controls, camera function as well as guidance and documentation are completely integrated in the Varioterminal 10.4-B. 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 a sharp image, even in night mode. Touch operation reacts sensitively and quickly. Key operation is also available.

## Perfect for all operations

For the Fendt Variotronic, the ISOBUS interface is the decisive link to the implements. Using ISOBUS 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 new Varioterminal 10.4-B convinces with its smartphone look and an optimised touch surface. It is standard in the ProfiPlus equipment level. It is also available in the Profi version upon request.

The Varioterminal 7-B is the handy and functional companion for tractor operations and ISOBUS implement control.

The functions for the ISOBUS implement control and headland management can be assigned to the multifunction lever as needed. In combination with the VarioGuide automated steering system, Variotronic<sup>®</sup> automatic enables automatic activation of sequences at the headland.



With Variotronic<sup>®</sup> headland management, operators can create operating sequences for turns, while driving or standing still, and save them. Settings for the engine and transmission control, the hydraulic valves and the front and rear linkage, the front and rear PTO as well as the automated steering system along with their individual functions are made via the headland management system and can be called up easily.

4-way multi-function joystick with additional operating buttons for the 3rd and 4th auxiliary hydraulic control unit, cruise control and engine speed memory buttons as well as activation of the Variotronic<sup>®</sup> headland management.

FENDT VARIOTRONIC

# Precise track, perfect application, higher yield.

### Always on the ideal track

With Fendt VarioGuide you can drive reliably and accurately, even in areas with difficult reception conditions. Fendt VarioGuide permits the highest possible utilisation of your machines, because you can work without actively having to steer, even at night or with large working widths. With VarioGuide, the tractor automatically maintains the ideal line so that you can concentrate fully on the implement. Overlapping is reduced and, depending on the working procedure, savings of three to ten percent can be achieved. Depending on the application, you can work with two different accuracy levels: with deviations of approx. 20 cm (VarioGuide Standard) or accurate to 2 cm (VarioGuide RTK).

### On the ideal track: The new Fendt VarioGuide

With the new version of Fendt VarioGuide, there are now two different receiver systems available, NovAtel® and Trimble®. Existing Trimble® RTK infrastructures on the farm, such as NTRIP, can continue to be used. A number of correction signals are supported, depending on the receiver, for example, EGNOS/WAAS or RangePoint™RTX™, CenterPoint RTX™ and Ntrip. Should you lose your signal due to the terrain, VarioGuide continues to work reliably up to 20 minutes without a correction signal thanks to Trimble®-xFill™ technology.

### Variable application with VariableRateControl (VRC)

Data transfer with VarioDoc Pro now permits variable rate application, based on the needs of the soil or plants, and therefore saves operating inputs. 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 with the aid of the field database and then applied with utmost precision.

### From the field database to the application map

VariableRateControl (VRC) is based on the ISOBUS standard with the "TC-GEO" functionality. The application map is created with the aid of a compatible field management system and transferred to the Varioterminal via VarioDoc Pro. VariableRateControl allows 5 application maps to be worked parallel. Additionally, an as-applied map of the applied quantity is created for later checking. Tank management is available for large implements, which have several containers. It can define whether the containers are emptied parallel or in a specific sequence – if the implement supports this function.

With the fully automatic SectionControl for ISOBUS implements, you can apply seeds, fertiliser or pesticides without overlapping. This prevents double treatment and areas worked outside of the field boundaries. With the aid of the SectionControl assistant, you can set the correction values for each implement, quickly and easily. The switch on and off points can be set precisely from the very beginning, which automatically results in economical application.



When operating ISOBUS-capable sprayers, fertiliser spreaders or seed drills, SectionControl can now switch up to 36 sections.



Your benefit with the Fendt Variotronic: Your Fendt's software is updated during servicing in the workshop, including new, additional features.



With VariableRateControl (VRC), you can farm according to site-specific application maps, depending on the ground and crop. So you can save on inputs.

## DATA TRANSFER AND DOCUMENTATION

# Connections that add more value.

### Efficient from tractor up to fleet

The operating strength of your fleet is optimised as soon as the machines are connected effectively to each other. 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 reaction and operating times of your entire fleet at the push of a button. If you also control additional services via remote access, you can achieve even higher machine utilisation.

### 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 permits recording of GPS position data and data transfer in near real-time 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.

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.



AGCO's all-encompassing electronics strategy Fuse Technologies™ provides contractors with seamless integration and networking for the entire fleet. Under the name Fuse Technologies™, AGCO and Fendt provide solutions for precision farming that reduce operating costs and make machine operations even more efficient and profitable.

PROVEN BEST PERFORMANCE

## Tested efficiency.

### Higher efficiency and performance

The best of the best Fendt machines are given the Fendt Efficient Technology label. They allow professional farmers to achieve MORE from LESS – more output using less resources such as fuel, inputs or time. The Fendt 800 Vario achieves this with equipment options such as the VarioGuide guidance system, SectionControl or the VarioDoc documentation system. The outstanding fuel economy of a Fendt goes without saying.

### More from less

Fendt stands for efficiency and low fuel consumption. The best proof for that is the practice-oriented DLG PowerMix test: Only 248 g/kWh diesel and 14.1 g/kWh AdBlue consumption in tested Fendt 828 Vario.\* The Fendt 800 Vario is full of innovations, which have already received international awards:

### Absolutely operation-friendly

Ideal diagnostic capabilities and long maintenance intervals ensure the tractor keeps on running. The remote transmission measuring points permit fast and simple diagnostics without having to disassemble the wheel. Failures can be analysed quickly through the fault messages in the Varioterminal. The separate oil supply means the transmission and hydraulic oil only needs to be changed every 2,000 hours under normal conditions. The Fendt 800 Vario has a number of factors that keep downtimes and maintenance costs low.

### Invest in profitability

Overall profitability distinguishes the entire product line of the premium brand Fendt. The efficiency of the products guarantees the best cost-effectiveness per hectare. In combination with the extremely high retention of value of a Fendt, you also get an unbeatable resale value at the end of your tractor's service life. As a trendsetter, Fendt continually sets important new standards and installs technology that continues to be in demand in the future. Add to that the high quality, which stands for operational reliability and a long life. The total is a retention of value that only Fendt can offer you.



Become a Vario pro with driver training: With our Fendt Expert Training, you learn how to use all of the functions on your tractor efficiently. Our team of competent professional trainers teaches you how to utilise the entire performance potential of your Fendt tractor. Sign up through your dealer. You will find further information at: [www.fendt.com/training](http://www.fendt.com/training)



"The overall consumption of 248 g/kWh (+14 g/kWh AdBlue) are even better than the 246 g/kWh (+22.5 g/kWh AdBlue) for the IIB machine – and over 15% less than consumed by the average!"

Results for the Fendt 828 Vario acc. to DLG PowerMix in profi-tractor test Issue 12/2014

"VarioGrip increases productivity tremendously. Compared to an average pressure of 1.6 bar, a pressure of 1 bar or less in the field and 2 bars on the road increases performance by 15%."

Matériel Agricole, Issue 4/2015

Silver for the integrated tyre pressure regulation system Fendt VarioGrip

Awarded at the Agritechnica 2009.

Silver for the load relief front linkage control

Awarded at the Agritechnica 2011.

"Besides the low fuel consumption, we should also mention the substantially lower wear – and therefore higher life of the MPT tyres – (Reckleben et al. 2013) as well as the higher payload due to the reduced weight."

Transport test Technical University Munich 3/2015

"And that the Fendt is a transport expert is not only apparent in the optionally available 60 km/h top speed. At 40 km/h, the consumption was nearly 20% below the average of all previously measured tractors. At 50 km/h it was also 17% less. And at 60 km/h the measurement results of the competition are missing..."

profi, Issue 12/2014

## FENDT STARSERVICE: THE BEST SERVICES

# For more from your investment.



**100% quality, 100% service: Fendt StarService**  
To ensure that your Fendt 800 Vario delivers 100 percent performance at all times, we offer you 100 percent service. In addition to the best diagnostics-capability and ease of repair, this includes availability of replacement parts 24/7 during the season. Furthermore, the Fendt Service network guarantees short paths between you and our trained Service staff. You also get a 12-month warranty on original Fendt parts and their installation. Repairs with original parts ensure that your Fendt tractor retains its value.

**Performance and profitability under contract**  
A Fendt StarService contract gives you full cost control with the best service. The Fendt service package includes all the prescribed maintenance work based on attractive fixed prices. The ProService package includes regular maintenance and repairs in combination with an extended warranty of up to 6,000 total operating hours or up to five years.

**Individual financing and rental models**  
Purchasing machinery is a high capital investment. Your Fendt dealer will assist you in working out a customised financing plan for your new machine together with the agricultural financing experts at AGCO Finance. If you have a short-term need for additional capacity or prefer long-term use without having to buy, your Fendt sales partner has the ideal rental offer for you.

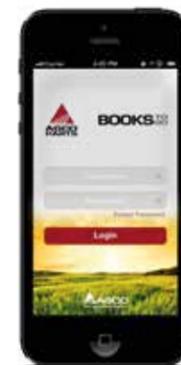
**Retention of value through the latest software version**  
Every time the tractor goes in for servicing, your Fendt dealer updates the entire tractor software. Then you can profit from new, additional features for your Fendt. That gives you access to new operating benefits as well as a proactive retention of value, since your Fendt is always kept up to date.

Fendt stands for high quality. To honour this promise, running quality control takes place during daily production. When your Fendt 800 Vario is delivered to your farmyard, it has already run through all the quality gates along the entire production line.

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



With the smartphone app "AGCO Parts Books to Go", you can find and directly order Fendt replacement parts quickly and easily. The app is available through the App Store or the Google Play Store. Please contact your Fendt dealer for your personal access data.

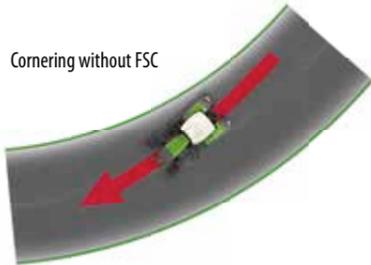


The best product, the best services: Certified Fendt dealers are distinguished by their first-class expertise and their comprehensive range of services. They regularly undergo strict audits to prove their high-quality of service. Your FENDT is in the best hands here.

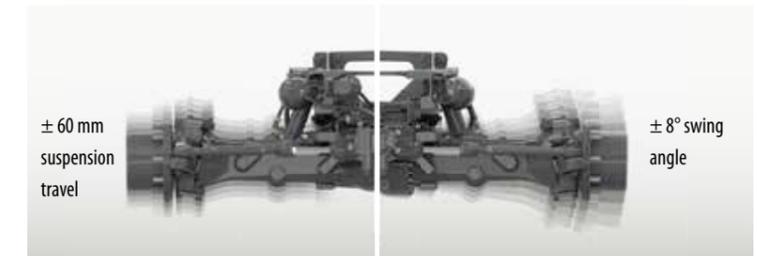
DRIVING DYNAMICS WITH SAFETY AND COMFORT

# Fast, versatile – superior.

 Fendt Stability Control (FSC) provides additional stability and steering precision when driving above 20 km/h on the road. When the driving speed drops below 15 km/h, compensation between the left and right side is possible again, which guarantees the best ground contact.



The Fendt 800 Vario has a self-levelling front axle suspension as standard. It has a 120-mm suspension travel, plenty to level uneven surfaces. The  $\pm 8^\circ$  swing angle ensures stability while driving. The  $50^\circ$  maximum steering angle on the front axle guarantees maximum manoeuvrability. The entire suspension travel can be run through manually when standing still, e.g. for picking up a front weight without front linkage.



 In relation to the standard setting, with VarioActive one only needs approx. 60% fewer turns of the steering wheel for the same wheel angle. With VarioActive, you profit through the faster reaction of the steering during tight turning manoeuvres at the headlands. For reasons of safety, it can only be used from 0 – 25 km/h.



**Maximum on-road and in-field driving safety**

The chassis guarantees optimum operability on the road and in the field. With the unique Fendt Stability Control FSC you always have a safe feeling when driving, even when negotiating curves. At the same time, the practically maintenance-free braking system, comprising wet disc brakes on the cardan shaft and the rear wheels, increases driving safety. The chassis design provides the best ride comfort as well as optimum ergonomics.

**Seven features ensure an exceptional driving sensation:**

- the self-levelling front axle suspension
- the Fendt Stability Control (FSC)
- the Fendt Reaction steering system
- the shock load stabilising
- the cab suspension
- the seat suspension
- the automatic steering axle lock
- the intelligent brake light control

**Haul 37 tonnes more a day**

The Fendt 800 Vario has a top speed of 60 km/h at an engine speed of only 1,750 rpm, which gives it an up to 16% higher transport capacity\* and lower fuel consumption. Those are advantages that make the difference at the end of the day: for example, a Fendt 800 Vario with a transport capacity of a total of 230 tonnes in ten hours moves 37 tonnes more thanks to the higher speed. When the Fendt 800 Vario is driven at a top speed of 50 km/h, it drives even more economically at just 1,450 rpm.

\*in-house measurement

MOUNTING AREAS AT THE FRONT AND REAR

# Intelligent technology at the front and rear. Suitable for every application.



**Versatility through connections**

The Fendt 800 Vario offers more connections than any other tractor in its power class: six electrohydraulic double-acting valves at the rear and two in the front, power beyond, ISOBUS connection and many more. Overall, the Fendt 800 Vario has more than 24 connections, which are practicably located both at the front and rear. That guarantees versatile operations and trouble-free connection of all implements – for effective teamwork between the tractor and implement.

**Powerful lift capacity**

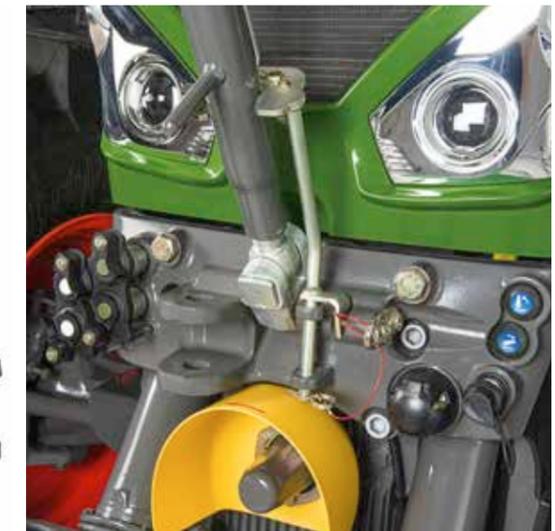
The electrohydraulic rear power lift, which has a maximum lift capacity of 83.4 kN, guarantees that even heavy rear-mounted implements for this power class can be lifted to the fullest height without trouble. A maximum lift capacity of up to 5,040 daN at the front permits the use of heavy front-mounted implements. The newly designed, cast front linkage is integrated in the structure of the tractor so that the coupling points are close to the vehicle.



The comfort front linkage on the Fendt 800 Vario has optional load relief control. It allows the weight of the implement to be transferred to the tractor over a defined pressure. This is especially advantageous when working with a front mower or winter maintenance implements, because the weight is shifted to the front axle, which improves steering performance.



The PTO has outstanding efficiency, since power to the PTO stub flows through a direct drive line from the Vario transmission. At the same time, the rated speeds are already attained at an engine speed below 2,000 rpm, which has a positive effect on fuel consumption.



**Interfaces at the rear:**

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

**Interfaces at the front:**

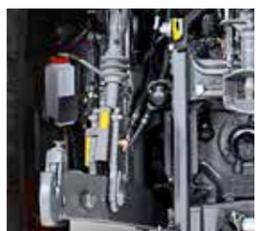
- Top link
- Two double-acting control valves
- Unpressurised front return flow
- 7-pin socket
- Front PTO
- Lower link hook end
- Holder for relief springs (not shown)

**Powerful hydraulic system**

With its load-sensing technology, the Fendt 800 Vario is well-equipped for demanding operations. Depending on the area of application, you can equip the Fendt 800 Vario with a load-sensing pump with a delivery capacity of 152 or 205 litres per minute. Separate transmission and hydraulic oil supplies, dirt cannot enter the transmission. With up to 80 litres, the Fendt 800 Vario has a high volume of available oil that can meet the demands of implements with a very high oil requirement.

**PTOs with economy function**

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



The lower links on the rear linkage can be folded up into parking position, so that there is more space for the drawbar.

FENDT X5 CAB

# Sitting comfort and many practical helpers.



➔ The Fendt 800 Vario has been trimmed for an optimal overview. The bonnet has been kept as narrow as possible, so drivers have an excellent view to the wheel arches and front-mounted implements.



A special feature of a Fendt tractor is the standard specification bonded front windscreen. For even greater comfort and safety, a heated front windscreen made of laminated safety glass is also available.



□ Numerous sockets are available in the cab, e.g. several 12-Volt sockets, ISOBUS socket, signal socket.



■ In a Fendt cab you will find many different storage 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.



□ Refreshments for a long work day find their place in the large external cool box. The cool box can also keep meals warm, if necessary.



□ Important papers, such as the operating manual, can be stored securely and well protected in the document case.



□ A bracket keeps mobile phones in their own fixed spot. The bracket can be adjusted to accommodate various phone models.



□ The air-suspended super comfort seat Evolution active Dualmotion is the absolute high-tech seat variant. Operators profit from the additional active suspension. The seat cover is available in either a black fabric or black, smooth leather in combination with a leather steering wheel.



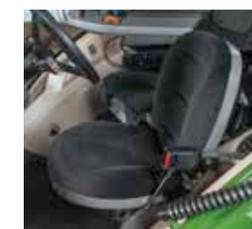
□ The air-suspended super comfort seat Evolution dynamic Dualmotion has an adaptive backrest, seat heater, low frequency suspension, pneumatic lumbar support and adjustable armrest. The seat cover is available in either a black fabric or black, smooth leather in combination with a leather steering wheel.



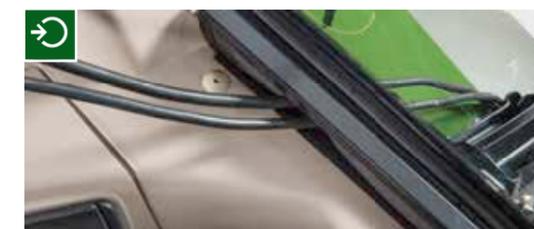
□ The cab suspension with air spring elements enables a fully vibration-minimised cab. The great difference in height and the long distance between the spring elements of the x5 cab also prevent bouncing and ensure maximum ride comfort.



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



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



■ 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 LIGHTING ON THE FENDT 800 VARIO

# Superior visibility – even at night.



■ 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. The entry steps on the Fendt 800 Vario have practical lights. They are positioned on the tank so that the steps are perfectly illuminated and drivers can climb in and out safely.



State-of-the-art lighting: The lighting design concept on the Fendt 800 Vario has been perfected and is state-of-the-art. The dipped and main beams have the latest Bi-LED lamps with headlamp levelling. The work lights and corner lights are also fitted with LED lamps. This permits precise control of the illumination and provides exceptional visibility to the implements and the wheel arches, even in the dark. The LED lights are especially low in power consumption, have a very long life and deliver a total luminous flux of up to 36,640 lumen.



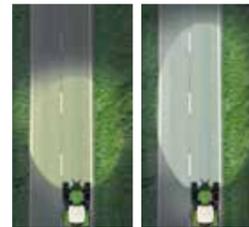
□ The Fendt 800 Vario is ideal for reverse drive operations, since the complete driver stand can be turned 180°.



■ The interior lighting in the Fendt 800 Vario is perfectly designed for the important areas. Whether day or night, the most important operating elements are pleasantly backlit. The intensity of the backlighting is automatically controlled in the Varioterminal via a light sensor, dependent on the light conditions.



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



□ The light range of the LED headlights can be adapted to the situation at hand, for example for driving on the road.



The double-sided CUP (couple-under-pressure) couplings make mounting and removing the implements much easier. The self-closing valve flaps effectively protect against contamination and permit one-handed connection of a hydraulic line.



With the external valve controls, you can actuate the rear linkage, one valve and the PTO directly on the rear mudguard. Using the external controls for the rear PTO, a preset engine speed can be targeted automatically. You save yourself unnecessary steps, for example, when filling the slurry tank.

EQUIPMENT VARIANTS

# Fendt 800 Vario. Superior. To the last detail.

		Power	PowerPlus	Prof	ProfPlus
<b>Vario operation</b>	Joystick w/cruise control + engine speed memory	■	■		
	Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics			■	■
	Varioterminal 7-B with touch and key control	■	■	■	
	Varioterminal 10.4-B with touchscreen and key control			□	■
	Variotronic implement control (ISOBUS)	□ <sup>1)</sup>	■ <sup>1)</sup>	■	■
	SectionControl				□
	Variotronic <sup>®</sup> – headland management system			■	■
	Vario TMS Tractor Management System	■	■	■	■
	VarioDoc – documentation system			□	■
	VarioDoc Pro – documentation system				□
	Guidance system VarioGuide NovAtel / Trimble		□		□
	Electronic immobiliser	■	■	■	■
	Without immobiliser	□	□	□	□
VarioActive steering				■	
VariableRateControl (VRC)				□	
<b>Cab</b>	Mechanical cab suspension, 3-point	■	■	■	■
	Pneumatic cab suspension, 3-point with integral self-levelling	□	□	□	□
	Fendt Reaction steering system	■	■	■	■
	Reversing driver station for 2-way operation	□	□	□	□
	Height and tilt-adjustable steering column	■	■	■	■
	Super Comfort Seat, air sprung	■	■	■	■
	Super comfort seat Evolution dynamic with climate control	□	□	□	□
	Super comfort seat Evolution dynamic Dualmotion with fabric or leather cover	□	□	□	□
	Super comfort seat Evolution active Dualmotion with fabric or leather cover	□	□	□	□
	Passenger seat with automatic seat belt	■	■	■	■
	Comfort passenger seat	□	□	□	□
	Radio mounting kit with two stereo speakers	■	■	■	■
	Dual radio slot with four loudspeakers	□	□	□	□
	Radio MP3, USB and SD with sound system	□	□	□	□
	Radio MP3, CD, USB and SD with hands-free speaking system	□	□	□	□
	Tachograph	□	□	□	□
	Integrated automatic climate control	■	■	■	■
	Active charcoal filter	□	□	□	□
	Front windscreen laminated safety glass, heated	□	□	□	□
	300° windscreen wiper front	■	■	■	■
Rear window wash/wipe	□	□	□	□	
Ext. rearview mirror, electrically adjustable, heated	■	■	■	■	
Wide-angle mirror	□	□	□	□	
Interior mirror front	■	■	■	■	
Roof work lights, 2 at rear, 1 in front	■	■	■	■	
Roof work lights, 2 at rear LED, 1 in front	□	□	□	□	
Work lights LED roof front	□	□	□	□	
Work lights A-pillar, rear mudguard	□	□	□	□	
Work light LED A-pillar, mudguard rear	□	□	□	□	
LED headlamps with headlamp levelling	□	□	□	□	
LED rear lights	□	□	□	□	
Bracket for auxiliary devices	□	□	□	□	
Air-conditioned cool box	□	□	□	□	
<b>Engine</b>	TMS with auto. max. output control 2.0	■	■	■	■
	Reversible fan	□	□	□	□
	Fuel pre-filter with thermostat valve	■	■	■	■
	Heated fuel prefilter	□	□	□	□
	Preheater package (engine, transmission, hydraulic oil)	□	□	□	□
	Exhaust brake	□	□	□	□

		Power	PowerPlus	Prof	ProfPlus
<b>Transmission</b>	Shuttle function, stop-and-go function	■	■	■	■
	Acoustic signal when reversing	□	□	□	□
<b>Chassis</b>	Front axle suspension, +/- 60 mm travel	■	■	■	■
	Dual-circuit braking system w/FSC Fendt Stability Control			□	□
	Single-circuit braking system 1 pedal	■	■	■	■
	Single-circuit braking system, 2 pedals and steering clutch brake	□	□	□	□
	Compressed air system	■	■	■	■
	Automatic trailer steering axle lock	□	□	□	□
	VarioGrip tyre pressure regulation system	□	□	□	□
<b>4WD</b>	Comfort engagement controls for 4WD / diff. locks	■	■	■	■
	Rear / front differential with 100% disc locking	■	■	■	■
<b>Powershift PTOs</b>	Rear: flanged PTO 540E/1000 rpm	■	■	■	■
	Rear: flanged PTO 1000/1000E rpm	□	□	□	□
	Front: 1,000 rpm	□	□	□	□
	External controls for rear PTO	■	■	■	■
<b>Hydraulics</b>	Load sensing system with axial piston pump (152 l/min)	■	■	■	■
	Axial piston displ. pump 205 l/min capacity	□	□	□	□
	Electrohydr. linkage DA (EHR), w/external controls	□	□	□	□
	Electrohydr. linkage SA (EHR), w/external controls	■	■	■	■
	Hydraulic lower link lateral stabiliser	□	□	□	□
	Radar-activated wheel slip control	□	□	□	□
	Upper link QC hydraulic	□	□	□	□
	Lower link hooks Cat. 4	□	□	□	□
	Hydraulic connection external (power beyond)	□	□	□	□
	Hydraulic valve actuation crossgate lever, multi-function joystick			■	■
	External control for hydraulic control unit at rear	■	■	■	■
	Double CUP lever couplings rear	□	□	□	□
	CUP coupling rear	■	■	■	■
Easy ballast mounting for front weights <sup>2)</sup>	■	■	■	■	
Front linkage sa with external controls	□	□	□	□	
Comfort front linkage da, with position control, external controls			□	□	
Load relief control for the comfort front linkage			□	□	
<b>Body</b>	Manual hitch	□	□	□	□
	Auto. hitch with remote control, rear	■	■	■	■
	Ball-type coupling, height adjustable	□	□	□	□
	Ball coupling incl. frame	□	□	□	□
	Forced steering (one or two-sided)	□	□	□	□
	Hitch	□	□	□	□
	Swinging drawbar	□	□	□	□
	Piton fix	□	□	□	□
	Compressed air Duomatic coupling	□	□	□	□
	Rotating beacon	□	□	□	□
	Wide vehicle marker	□	□	□	□
Pivoting front wheel mudguard	■	■	■	■	
Twin tyres rear	□	□	□	□	
Twin tyres front	□	□	□	□	
Front weights, various sizes	□	□	□	□	
Wheel weights, rear wheels	□	□	□	□	
Design Line	□	□	□	□	
Paint body Nature Green, rims Terra Red	■	■	■	■	
Removable, additional tool box	□	□	□	□	

1) = Operation with Varioterminal 2) = not possible with front lift  
 The Fendt on-line configurator: Here you can put together your own custom Fendt according to your wishes. Visit [www.fendt.com](http://www.fendt.com).

FENDT 800 VARIO

# Technical Specifications.



Fendt 800 Vario		822	824	826	828	
<b>Engine</b>	Rated power (ECE R24)	kW/hp	162 / 220	176 / 240	191 / 260	206 / 280
	Max. power (ECE R24)	kW/hp	162 / 220	176 / 240	191 / 260	206 / 280
	Rated power (EC 97/68) <sup>1)</sup>	kW/hp	166 / 226	182 / 248	195 / 265	211 / 287
	Max. power (EC 97/68)	kW/hp	166 / 226	182 / 248	195 / 265	211 / 287
	No. of cylinders / cooling		6 / water			
	Cylinder bore/stroke	mm	101/126	101/126	101/126	101/126
	Displacement	cm <sup>3</sup>	6057	6057	6057	6057
	Rated engine speed	rpm	2100	2100	2100	2100
	Max. torque	Nm at 1450 rpm	960	1054	1125	1217
	Torque rise	%	32	31	31	30
Optim. fuel consumption	g/kWh	192	192	192	192	
Fuel level	l	505	505	505	505	
AdBlue	l	50	50	50	50	
Oil change interval	hrs	500	500	500	500	
<b>Transmission/PTO</b>	Type	Continuously variable Vario transmission ML 220				
	Speed range: Range I - field (forward / reverse)	km/h	0.02 – 35 / 0.02 – 20			
	Speed range: Range II - road (forward / reverse)	km/h	0.02 – 60 / 0.02 – 33			
	Top speed	km/h	40 / 50 / 60			
	Rear PTO	rpm	540E / 1000 or 1000 / 1000E			
	Front PTO <sup>1)</sup>	rpm	1000			
<b>Hydraulics and linkage</b>	Displacement pump (200 bar)	l/min	152	152	152	152
	Displacement pump (200 bar) option	l/min	205	205	205	205
	Rear linkage control		EPC	EPC	EPC	EPC
	Max. auxiliary valves, (standard)	Power version:	4 da <sup>3)</sup> (3 da <sup>3)</sup> electr. valves			
		Profi version:	8 da <sup>3)</sup> (4 da <sup>3)</sup> electr. valves / crossgate lever			
		Profi Plus version:	8 da <sup>3)</sup> (4 da <sup>3)</sup> electr. valves / crossgate lever			
	Max. lift capacity, rear linkage on the drawbar	daN	11110	11110	11110	11110
	Max. lift capacity, front linkage	daN	5040	5040	5040	5040
	Implement weight / front linkage up to	kg	3755	3755	3755	3755
	Hydraulic oil tank (available oil volume)	l	80	80	80	80
<b>Weights and dimensions</b>	Unladen weight		9370	9370	9520	9520
	Perm. overall weight					
	for 40 km/h / 50 km/h (single-circuit brake)	kg	16000	16000	16000	16000
	for 40 km/h / 50 km/h (dual-circuit brake)	kg	16000	16000	16000	16000
	at 60 km/h (dual-circuit brake)	kg	14000	14000	14000	14000
	Max. vertical hitch load with standard tyres and 60 km/h	kg	2000	2000	2000	2000
	Overall length	mm	5275	5275	5275	5275
	Overall width	mm	2750	2750	2750	2750
	Overall height	mm	3280	3280	3280	3280
	Ground clearance with 650/85R38	mm	575	575	575	575
	Wheelbase	mm	2950	2950	2950	2950
	Track width front <sup>2)</sup>	mm	2000	2000	2000	2000
	Track width rear <sup>2)</sup>	mm	1970	1970	1970	1970
Min. turning circle <sup>5)</sup>	m	5.5	5.5	5.5	5.5	
<b>Electrical equipment</b>	Starter	kW	4.0	4.0	4.0	4.0
	Battery	V/Ah	12 / 180	12 / 180	12 / 180	12 / 180
	Alternator	V/A	14 / 2x160	14 / 2x160	14 / 2x160	14 / 2x160
<b>Tyres</b>	Standard front		540/65 R 30	540/65 R 30	540/65 R 34	540/65 R 34
	Standard rear		650/65 R 42	650/65 R 42	650/85 R 38	650/85 R 38
	Optional front		540/65 R 34	540/65 R 34	600/70 R 30	600/70 R 30
	Optional rear		650/85 R 38	650/85 R 38	710/70 R 42	710/70 R 42
	Optional front		600/70 R 30	600/70 R 30	710/60 R 30	710/60 R 30
	Optional rear		710/70 R 42	710/70 R 42	900/60 R 38	900/60 R 38

Your Fendt dealer will be pleased to inform you about further tyre options.  
 1) = optional, 2) = with standard tyres, 3) = can also be operated as single-acting, 4) = power specifications for registration, 5) = w/o steering clutch brake, with 540/65R30

FAQ. EVERYTHING ABOUT FENDT.

# What can we do for you?

**What makes Fendt Service 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.

**What is the Fendt one-terminal concept?**  
 On the one hand, only one terminal means: The vehicle controls, ISOBUS implement control, VarioGuide automated steering, VarioDoc documentation, camera functions or various assist functions are all conveniently controlled through one terminal, the Fendt Variotermin. Only one terminal also means that at Fendt, the operating interface is the same across the entire range and is logical. No matter if you are driving a Fendt Vario, a Fendt combine or a Fendt Katana, you will find your way around immediately and feel at home in all the Fendt machines.

**Can I update Variotronic?**  
 Fendt Variotronic can be updated. In this way you always have the latest version on your Fendt and have the future on your terminal. Please contact your dealer for further information.

**What is Fendt Expert?**  
 Become a Vario pro with Fendt Expert driver training: Are you already familiar with all the functions that the technology has to offer? Take advantage of the technology that is found in every Fendt Vario and learn how to optimise the use of all the features with Fendt Expert. Our team of professional instructors offers you competent instruction to enable you to exploit the full performance potential of your Fendt tractor. Inform yourself through your dealer and sign up.

**What is Fuse™?**  
 Fuse™ Technologies provides ultra-modern precision farming solutions across all AGCO brands. It permits farmers and contractors to integrate and connect their entire fleet seamlessly, resulting in reduced operating costs and even more efficient and profitable machine operations. [www.agcotecnologies.com](http://www.agcotecnologies.com)

# Contact to Fendt.

**fendt.com**  
 Here you will find everything online, from brochures to technical specifications, reports about customers or the company, up to the 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**  
 At [fendt.com](http://fendt.com), you will find the area Service and Sales under “Fendt World”. Select the “tractor demonstration service”, then you can already register for a test drive with a tractor.

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 Over 200,000 fans have already friended Fendt on Facebook. Come have a look.



GLOSSARY

- Assistance systems 26, 27
- Lighting 6, 16, 32
- Torque 8, 11, 34
- Fendt Variotermin 9, 12, 16, 17, 18, 20, 21, 22, 25, 32, 33, 35
- Fendt Variotronic 14, 16, 17, 18, 19, 33, 35, 36
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## FENDT SPOTLIGHT. NOTABLE. BETTER.

This symbol stands for solutions that offer special benefits for your daily work and make a Fendt a Fendt.

### Fendt 800 Vario. Superior in detail.

	HP	kW
Fendt 822 Vario	220	162
Fendt 824 Vario	240	176
Fendt 826 Vario	260	191
Fendt 828 Vario	280	206

Maximum output to ECE R24

### Fendt equipment packages



The comprehensive standard equipment with ideally coordinated feature package.



Comprehensive standard specification with individualised equipment options.



The tailored Profi equipment package with a full range of features and added value for high demands.



The ground-breaking innovations package with automatic assistance systems for efficient, high performance.

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# Leaders drive Fendt.



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87616 Marktberdorf, Germany

  
Your Agriculture Company

Fendt is a worldwide brand of AGCO.  
All data regarding delivery, appearance, performance, dimensions and weight, fuel consumption and running costs of the vehicles correspond with the latest information available at the time of going to press. Changes may be made before the time of purchase. Your Fendt dealer will be pleased to supply you with up-to-date information. The vehicles are not shown with country-specific equipment.