Fendt 800 Vario
Since it was first introduced, the Fendt 818 Vario has become the most sold compact high horsepower tractor in Europe. The performance of high horsepower tractors has been ingeniously combined with the manoeuvrability and visibility of a mid-sized tractor. With the new top model, the 820 Vario, Fendt fulfils customer requests and now offers this tractor with over 200 hp. This model range offers you premium class standard equipment – with everything professionals require. For example, the tractor management system, TMS, the headland management system, Variotronic™, and the integral front power lift are all standard.
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Fendt 818 Vario  
185 hp  136 kW

Fendt 820 Vario  
205 hp  151 kW

Maximum power acc. to ECE R24

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The success of modern farming businesses depends on economically optimised production procedures. A top requirement here is the use of suitable mechanisation. With the 800 Vario, Fendt offers an extremely productive and economical universal machine for low-cost handling of all work waiting to be done.

Compact, economical high horsepower tractor

The successful Fendt 800 Vario model, now in the second generation, has been significantly further developed compared to the previous models. Through the utilisation of the latest technology for engines, economic benefits have been increased by up to 10 percent. At the same time, the new top model, the 820 Vario with 205 hp maximum power output, has livelier handling and more pulling power.
Wide range of standard equipment
The 800 Vario is equipped with all the basic Variotronic features. Additionally, it has the TMS engine management system and the Variotronic™ headland management, in other words, the latest technology for high-horsepower tractors. The steering assist system, Auto-Guide™ PRO, which permits exact pass-to-pass driving, independent of visibility conditions and implement width, can also be installed on the 800 Vario.

Impressive profitability
An excellent return on investment is the key benefit of Vario tractors. The initially higher purchase price is offset by higher performance and lower fuel costs during every hour of operation. A further plus in the overall profitability calculation is the good resale value of a Fendt. Profit from the exceptional overall profitability of the 800 Vario!

- Excellent power-to-weight ratio of 35 kg/hp (820 Vario)
- High payload reserves thanks to permissible gross weight of 12500 kg
- Factory-installed 42” rear tyres are standard for both models
- Latest high horsepower tractor technology for the drive train ensures low operating costs
- Low variable costs through low fuel consumption of 195 g/kWh
- Absolute productivity and profitability in the overall cost calculation
Ever-increasing working hours at a stretch and higher tractor utilisation require optimum working conditions to aid in protecting the driver’s health and combating fatigue. The workplace on the 800 Vario offers well-thought-out functionality and maximum ergonomics, so that you stay fit on long work days.

Ideal working position
The more comfortable a working position is, the better the driver can attend to the implements. For this reason, the 800 Vario is equipped with a height and tilt-adjustable steering column. The original Fendt seat can be adapted to virtually all height requirements; it has air suspension as standard and has an integral active charcoal layer for climate control. The Fendt Super Comfort Seat, which has low frequency suspension, is also available as an option.

A premium class workplace: the driver station in the 800 Vario
All the tractor operating elements are arranged logically on the right-hand side. Integrated in the armrest are a joystick, a crossgate lever for controlling two hydraulic valves, the speed memory keys and controls for setting the standard-equipped TMS. Integrated in the side control console are the EPC and PTO controls and various engagement keys. In front of them, always in good view of the driver, is the Varioterminal, with which all fine settings to the hydraulics and transmission can be made. The instrument cluster in the steering column displays operating statuses, such as engine temperature, fuel supply and speeds.

- Tidy cab design that concentrates on the essentials
- Pleasantly quiet work place; free-standing exhaust is isolated from the cab
- Perfect ergonomics and logical controls
- Height and tilt-adjustable steering wheel
- Comfort engagement controls with automatic modes for 4WD, differential locks and PTO
- Varioterminal for fine adjustments
- TMS and Variotronic™ are standard
- Fold-down passenger seat
- Air-conditioning system is standard
Operating comfort that you will appreciate more with every working hour

Fendt has received many international awards for the Variotronic™ operating concept. Comprising a joystick, Varioterminal and control console, the Variotronic impresses through its simple, ingenious handling. For you, this means greater economic benefits and productivity in practical use.

Simple, intelligent operation
Independent of Variotronic™, the 800 Vario also has various automatic modes that execute your work with the touch of a button. For example, the automatic PTO engagement, which automatically engages and disengages the power lift dependent on lifting height, or the 4WD and differential lock engagement, which is speed and steering angle dependent.

Ergonomic benefits: Directly next to the speed control lever are the crossgate lever for operating two hydraulic valves, the engine speed memory keys, the sliding control and the key for setting and activating the TMS.

Variotronic™
A touch of a button on the joystick triggers automatic procedures at the headland. They save time and prevent operating errors on long work days. Sixteen sequences with up to 13 functions each can be saved permanently for four implements.

The top choice for operating comfort
Push the joystick forward to accelerate the Vario. To slow down, simply pull the speed control lever back again. Driving in reverse is just as easy – only the other way around.
Do you need to reverse quickly? Simply move the joystick to the left – the Vario decelerates to a standstill and drives off again in the opposite direction.
Activate the cruise control with a simple movement to the right. Driving with Fendt Vario: ingeniously simple – simply ingenious.
Variotronic™ headland management system

The 800 Vario is fitted with the TMS tractor management system and the Variotronic™ headland management system as standard. They allow you to carry out your work easier and more comfortably. Whether you are a beginner or professional, with these systems you automatically perform your work at maximum efficiency and have more time to monitor your implements.

ISO BUS implement control

With the standard-equipped Fendt implement control, you profit from lower purchase costs and enhanced operating comfort. Without implement control, a separate control terminal is required for each implement. With implement control on the 800 Vario, you control all ISO and LBS implements conveniently with the Varioterminal and the joystick. This enables uniform and simple operating logic with optimum operating ergonomics.
So powerful and yet so economical thanks to the latest engine technology

A 895 Nm torque, 205 HP max. power at 1,900 rpm and a specific fuel consumption of 195 g/kW for the 820 Vario thanks to implementation of the latest technology.

The external EGR system provides targeted cooling of recirculated exhaust, which lowers fuel consumption considerably compared to internal recirculation systems. It saves you up to 10 percent in fuel.

Powerful and economical
In the light of increasing diesel prices, fuel economy becomes of major importance. In the 800 Vario, Fendt employs a high-tech six-cylinder Deutz engine with four-valve technology for greater economy. It has a speed-independent common rail high-pressure fuel injection system and fully electronic engine control.

No matter if you use your tractor for traction or PTO work – in any case, superior overall profitability is crucial.
The 800 Vario tractors have engines with the latest technology. Although they comply with upcoming exhaust standards, fuel efficiency has been increased compared to the previous model.

A fuel consumption display is integrated in the Varioterminal on the 800 Vario as standard. This shows the current as well as average fuel consumption and has two sum counters. Fuel consumption per hectare can also be logged at the same time in the on-board computer.

The 800 Varios have efficient cooling units with maximum service-friendliness. The cooling units for hydraulic oil, transmission oil, fuel and air-conditioning can be swung up away from the radiator to give you better access for cleaning.

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The 800 Vario is also approved for RME fuel without restrictions, as are all Fendt tractors starting with the 1995 models. The use of rape methyl ester according to DIN EN 14214 is fully approved by Fendt as standard specification. You profit from the cost benefits – the tractor does not need to be converted, nor is costly additional insurance required.

AGRex – economical and environmentally-friendly
The high-tech injection system and the first-rate external exhaust gas recirculation system complement each other. Cooling and proportioning of recirculated exhaust gas optimises the combustion process significantly. The benefit in comparison to a simple, internal exhaust gas recirculation system is substantially lower fuel consumption.

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Experience the Vario advantages – on the road, in the field and at the filling station

The productivity of a tractor, and therefore also the return on investment, is determined in great part by fuel consumption. But an economical engine is only one of the determining factors. It is just as important to maintain the engine at its economical optimum while achieving as high an area coverage as possible. No problem with the Vario drive concept from Fendt.

Uncompromising in all applications
This kind of flexibility is only possible with Fendt Vario transmissions. From 30 metres per hour to 50 km/h, every speed is possible over the whole range, without steps. The 800 Vario is therefore predestined for professional grassland applications as well as for heavy-duty field work or row crop operations in large farming businesses. An all-rounder that will impress you through its comfort and uncompromising economy every time you use it.

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Fendt Vario: better than power shift
With stepless variable speed, you can utilise power reserves that are not even available to modern power shift transmissions. With conventional transmissions you are always one gear too high or too low, because of the steps. Vario allows you to mobilise the power reserves that are hidden in between the steps. That means power flow without interruptions.

Special equipment included
In addition to economic benefits, the stepless drive also offers you a one-of-a-kind benefit in operating comfort. A crawler gearbox is no longer necessary, since it is integrated in the Vario drive. To increase driving comfort, the 800 Vario has a turboclutch feature, which prevents engine stalling.
Overview of technology

The third generation Fendt 800 Vario is a consequent further development of the most successful compact high horsepower tractor range with stepless drive. The result is enhanced performance. It comprises two models ranging from 185 hp to 205 hp maximum power.

1. Front drive axle with 52° steering lock
2. Hydropneumatic front axle suspension with level control and 2 cylinders (lockable)
3. Front power lift (standard)
4. Front PTO (optional)
5. Planetary final drives
6. 6.06-litre Deutz engine with 4-valve technology
7. Intercooler
8. AGRx external exhaust gas recirculation
9. Stepless Vario transmission
10. Planetary gear set
11. Hydro motor
12. Hydro pump
13. Enclosed 4-WD clutch
14. Nitrogen pressure accumulator (suspension)
15. 340-l fuel tank
16. Planetary axle
17. Multi-disc brake for rear wheels
18. Front wheel disc brake
19. Tiltable comfort cab
20. Front cab bearing is silent bearing
21. Pneumatic cab suspension
22. Air-sprung Fendt comfort seat
23. Multi-function joystick for controlling the stepless Vario transmission
24. Varioterminal
25. Auxiliary work lights
Fast transport with maximum comfort, full safety and high payload reserves

A combination of suspension systems
The combination of shock load stabilising (1), pneumatic cab suspension (2) and front axle suspension with level control (3) provides ride comfort on par with commercial vehicles. This also increases safety substantially, since the vehicle is not in danger of developing bounce when driving with mounted implements. The load on the front axle remains constant and steerability is maintained.

Front axle suspension
The swing axle, centrally located in the swing arm, detects uneven surfaces and transmits these findings to the swing arm. The plungers on the two cylinders displace oil, activating three nitrogen reservoirs which absorb all shocks.

Pneumatic cab suspension is standard
The pneumatic cab suspension has air spring dampers on the rear bearing. These feature automatic levelling, which adjusts the suspension to varying loads.

Even for compact standard tractors, the transportation of goods for purchase and sales-oriented jobs is gaining importance and today already amounts to over 40 percent of operating hours. The 800 Vario allows you to perform haulage work at 50 km/h at a fuel-saving 1700 rpm while providing maximum ride comfort and driving safety.

Safe driving, even with high payloads
A robust cast half frame, which enables a permissible gross weight of 12.5 tons, carries the load on the Fendt 800 Vario. This gives you ample payload reserves for heavy-duty implements. But high transport loads must also be slowed down quickly in dangerous situations. On the 800 Vario this is ensured by a practically maintenance-free braking system, comprising two integral multi-disc brakes for the rear wheels and a disc clutch on the cardan.
- 50 km/h haulage speed at reduced engine speed (1700 rpm)
- EPC with shock load stabilising
- Superior driving safety and ride comfort
- Standard-equipped pneumatic cab suspension for perfect ride comfort
- Front axle suspension with level control and locking function that permits front-mounted implements to be guided precisely
- Top-efficiency lifetime braking system: wet, integral multi-disc brakes
- Robust cast half-frame design

shaft for the front wheels. The front axle with level control, a benefit in terms of ride comfort, also contributes to driving safety. For easier mounting and for precise guiding of front-mounted implements, the suspension can be locked with a pushbutton.

Cab suspension for maximum comfort
The 800 Vario cab is equipped with pneumatic cab suspension as standard. Hydraulic suspension in the front and air spring dampers with automatic level control at the rear, keep annoying shock loads and movements away from the cab. This increases working comfort, keeping the driver fit on long working days and protecting the driver’s health.
No matter if you operate your tractor for cultivation or grassland operations – in either case soil compaction is a major disadvantage. With the appropriate tyres, you can prevent soil compaction. But it is even easier, if the tractor does not weigh much to begin with. With the 800 Vario, you profit from an advantageous vehicle weight and a broad selection of tyre options. If required for the application, variable ballasting options are also available.

Universal applicability
With an unladen weight of 6800 kg, the Fendt 800 Vario is the first choice for all kinds of applications. It has a power-to-weight ratio of 33 kg/hp (820 Vario), which gives it exceptionally lively handling. A permissible gross weight of 12500 kg provides ample payload reserves for heavy implements. For heavy-duty traction work, you can ballast the tractor variably and for row crop work on large farms, you also benefit from its low vehicle weight.

Light for row crop work, heavy for traction work – the 800 Vario can be variably ballasted

A steering lock of 52° together with a wheel base of 2720 mm ensure a turning circle of 5.6 metres, which makes the 800 Vario extremely manoeuvrable.

For heavy-duty traction work, the 800 Vario has many ballasting options. The rear axle can accommodate up to four rim weights, 300 kg each.

Minimum soil compaction is essential for successful field and grassland operations. The tyre options for the 800 Vario go up to 600/60 R30 front and 710/60 R42 rear. That guarantees the least amount of pressure on the ground.

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Intelligent 4WD and differential lock technology
Depending on the setting, 4WD and differential locks can be automatically engaged and disengaged, dependent on steering angle and travel speed. If you choose 100% 4WD or 100% differential locking, these are engaged permanently. Both of these functions can be engaged and disengaged under load in automatic as well as 100 percent modes.

The 800 Vario is fitted with swivelling front mudguards as standard, which allow wheels to be turned to the fullest.

A steering lock of 52° together with a wheel base of 2720 mm ensure a turning circle of 5.6 metres, which makes the 800 Vario extremely manoeuvrable.
• Advantageous unladen weight of only 6800 kg
• Excellent power-to-weight ratio of 33 kg/hp (820 Vario)
• High payload up to 5,700 kg
• Large row crop tyres can be used:
  300/95 R52 rear
  270/95 R38 front
• Wheelbase: 2.72 metres
• Turning circle: 5.6 metres
• Electrohydraulic engagement for 4WD and differential lock, can be actuated under load
• 100% locking differential on rear axle
• Locomatic front differential lock

When developing the 800 Vario, Fendt engineers placed great value on offering as broad a selection of tyres as possible. Now, for all 800 models, row crop tyres with 270/95 R38 front and 300/95 R52 rear are possible. That gives you a rear wheel diameter of 1890 mm. For optimum soil protection, tyres sizes 600/60 R30 front and 710/60 R42 rear are possible.

Tyres for every application

Compact and manoeuvrable
The well-thought out design of the 800 Vario gives it maximum manoeuvrability. A length of 4.75 metres, a wheelbase of 2.72 metres and a steering lock of up to 52 degrees result in a turning circle of 5.6 metres. That permits tight turning manoeuvres that will save you time at the headlands. Furthermore, the 800 Vario offers exceptional visibility.
You will appreciate the operating comfort of the 800 Vario, in particular for tillage applications, where you often must operate the PTO controls in addition to the controls for the power lift. It offers you extensive, high-quality PTO management with startup control.

Three-speed PTO is standard
The PTO engagement control has 3-speed preselection. It is conveniently operated with keys on the control console. The 800 Vario comes with the PTO speeds 540 rpm, 750 rpm and 1000 rpm at the rear as standard. For less power-hungry operations, the 750-rpm economy PTO “540E” allows smooth working at a reduced engine speed and also saves fuel. The optional front PTO is driven directly from the engine’s crankshaft with no loss of power.
The well-known and greatly-appreciated PTO automatic mode is also available as standard on the 400 Vario. After being activated simply by pushing a button, it automatically engages and disengages the PTO, depending on the lifting height of the power lift. The 800 Vario offers you operating comfort inside and outside of the cab. The electrohydraulic PTO engagement can be operated externally from the tail lamp bracket.

Automatic modes
The well-known and greatly-appreciated PTO automatic mode is also available as standard on the 400 Vario. After being activated simply by pushing a button, it automatically engages and disengages the PTO, depending on the lifting height of the power lift. The 800 Vario offers you operating comfort inside and outside of the cab. The electrohydraulic PTO engagement can be operated externally from the tail lamp bracket.

• Three-speed PTO with comfort controls (540/540E/1000 rpm)
• Flange PTO at rear is standard
• PTO actuation with start-up control
• PTO automatic mode (automatic engagement dependent on height of the power lift)
• External PTO actuation at the rear
• External PTO-engine speed control

You have the choice of 540 rpm or 1000 rpm. The automatic PTO start-up sensitively controls start-up, according to the power requirements of the implement. This increases the service life of all the PTO components and reduces machine costs.
Powerful hydraulics for modern implements

The 800 Vario is equipped with a load sensing hydraulic system. That means: modern axial piston pumps deliver the exact quantity of hydraulic oil required – up to 110 (154 optional) litres per minute. A maximum of 45 litres of hydraulic oil is available to mounted or trailed implements. The hydraulics and transmission have separate oil supplies, which permit unrestricted use of bio-oils for the hydraulics.

Modern implements demand ever greater flexibility and performance from the tractor hydraulics. Fast lifting and high oil delivery rates are required for economical operation. The 800 Vario models, with their load sensing hydraulics and electrical hydraulic valves, are well-equipped for convenient operation.
The electrohydraulic rear power lift, which has a maximum lift capacity of 90.8 kN, guarantees that in practical operation even heavy rear-mounted implements for this power class can be lifted to the fullest lift height without trouble. The standard-equipped shock load stabilising counteracts vehicle bounce by actively raising and lowering the power lift.

EPC rear power lift with reserves
- Load sensing hydraulics
- Hydraulic delivery capacity:
  - Base: 110 l/min
  - Optional: 154 l/min
- Hydraulic oil cooler
- Maximum lift capacities:
  - Rear: 90.8 kN
  - Front: 44.4 kN
- EPC rear power lift control with:
  - Shock load stabilising
  - Quick lift
  - Lift height limiter
  - Lowering throttle
  - Position, draft and mixed control
  - External actuation
- Integral front power lift with gas shock absorbers
- Electric hydraulic valves (standard with external actuation)
- Crossgate lever
- Max. available hydraulic oil: 45 l
- Bio-oils can be used for the hydraulics thanks to separate oil supplies

The optionally available front power lift for the 800 Vario has a continuous lift capacity of 44.4 kN. It can safely lift front-mounted implements weighing up to 3 tonnes. The integral gas shock absorbers ensure that driving safety and ride comfort are maintained at these high loads.

Integral front power lift with damping
Maximum precision automatically when working with Fendt Auto-Guide PRO

Fendt Auto-Guide PRO: fits your individual requirements and almost any shape of field

Fendt proLine – the classic steering assist system for driving along exact straight parallel lines

Fendt proContur – for guidance along curved, parallel lines

Fendt proCircle – for guidance along concentric circular tracks

Simple operation
A colour terminal makes operating Auto-Guide PRO simple and logical. There is ample memory capacity available for storing field boundaries, as well as obstacles in the field. When working, tracks that have already been worked are marked in colour. This facilitates orientation at night or in poor visibility conditions.

Reference station
An optional Local Base Station, which provides the correction signal, is available for Fendt Auto-Guide PRO. This makes the system autonomous and allows operation independent of subscriptions for reference signals that are provided for a fee by commercial correction signal providers. It has been designed to be mobile and can be set up at any location in a short amount of time. Then you can drive the whole day long with precision that remains constant.

Fendt Auto-Guide PRO further increases the well-documented high profitability of Vario tractors. It further reduces costs for performing work as well as direct costs. With the steering assist system, working quality remains steady and constant, even on long work days. At the same time, you benefit from substantially increased working comfort.

A highlight where profitability is concerned
With the Auto-Guide PRO GPS-supported steering assist system, accurate pass-to-pass driving is child’s play. You reduce overlapping as well as skipping and can therefore optimise area usage without needlessly using up resources. The driver also has more time to focus on the implements, to monitor these and, if necessary, adjust their settings optimally to changing conditions. The steering assist system delivers constant, precise working quality.
independent of the length of operation and the prevailing visibility conditions. In contrast, even the best driver’s concentration wanes towards the end of a long work day.

The right accuracy*
You can choose from three accuracy levels for Fendt Auto-Guide PRO to match your requirements. The “Standard VBS” correction signal provides pass-to-pass accuracy of 20 cm, “Precision HP” 5 cm and the “High Precision” system with a local base station 2 cm. Choose the accuracy that suits your work.

* The accuracy that can be obtained in the field depends on the GPS signal, correction signal, system and tractor factors, type and settings of the implement and the conditions in the field.
Often small things are what make everyday life with a Fendt so pleasant

The 800 Vario is equipped with rear work lights as standard. The Twin Power work lights are mounted on the left and right of the cab roof. Their high position gives you exceptional lighting for your rear-mounted implements.

With two simple hand movements, you can set the lower links on the 800 Vario to rigid or swinging position, depending on implement requirements. A robust, sturdy mechanical lateral lock is locked and unlocked with levers on the right and left sides. In the unlocked position, the lift arms are automatically centred in the middle position. By moving just one pin, you can change the width of the lower links between Cat. II and III.

You have surely experienced this in your day to day work. Whether you have to change implements when you are pressed for time, or have to work many hours in your Vario without breaks during peak work times, often the small detail solutions are what make life easier. Fendt offers you a number of such details.

Benefit from the sum of the small details that a Fendt tractor offers to help you perform your work easier and more comfortably. When designing and developing a vehicle, Fendt engineers always search for solutions that bring you forward. From experts for experts.
The steering wheel is height and tilt adjustable to adapt to the individual requirements of every driver.

The 800 Vario was designed to give you access to all areas necessary for daily maintenance – even when the front loader is mounted.

Fendt tractors have signal lights with auto shut-off. Just like in your car, the turn signal indicator automatically shuts off when the steering wheel is turned back.

Whether you have control cables for a control terminal or hydraulic lines for hydraulic valves on the implement, the cable lead-through in the Fendt cab is designed to enclose the cable so that dirt and cold cannot enter the cab when the windows are closed. Of course, the cables can be fitted easily without tools.

With the external hydraulic valve actuation, you can operate a hydraulic control unit with a pushbutton on the tail lamp frame. For example, this considerably simplifies mounting implements when using a hydraulic top link.

The 800 Vario has ISO BUS implement control, which is integrated in the Variotronic, as standard. With the 800 Vario, you control ISO BUS and LBS implements with the Varioterminal and the joystick. In this way, you have a uniform and simple operating logic with optimum operating ergonomics and save the purchase costs for terminals for your implements.
It is clear that you get cutting-edge technology with a Fendt tractor. But that is not enough for a successful business nowadays. That is why Fendt sales partners also offer a wide range of services. All from one source.

Consultation: the way to a tailor-made Fendt
Fendt sales agents are experienced specialists who can provide you with extensive advice and information on technology, equipment and the overall profitability of a Fendt tractor.

More freedom for investments – the AGRICREDIT financial services
Financing through AGRICREDIT guarantees attractive conditions and flexible repayment periods, customised to meet your needs.

A trial run in the field – experience the difference
You cannot pass judgement on a Fendt tractor without the experience of driving one in the field. Fendt tractors enjoy a first-class reputation for superb driving and working comfort. Not until you have driven a Fendt, do you realise how big the difference really is when compared with other tractors.

Renting gives you freedom
Do you need a vehicle to fill a short-term capacity requirement, or do you want use one over a longer period of time without purchasing? Are you looking for a tax advantage or do you require solvency for other investments? Fendt StarService offers you solutions.

Competent consultations and demonstrations
Fendt dealers and distributors receive regular training and are specialists for Fendt products. They have in-depth knowledge of the entire product line and will offer you competent consultation. Ask your local Fendt sales partner. Or contact us at www.fendt.com for an individual Fendt demonstration.
Genuine Fendt parts – from AGCO Parts – so that your Fendt remains 100% Fendt:
Original Fendt parts are tailored to your Fendt. They carry the assurance of series quality and are tested for functional reliability. That pays off in many ways:
- 12 month warranty on original Fendt parts and their installation
- the highest level of operational reliability
- top resale value

Fast diagnostics thanks to Fendias
The StarService technician uses FENDIAS to gain access to the digital data inside your Fendt. Furthermore, if required, data is gathered and analysed while the machine is running – for example, data from the hydraulics or the transmission. All for the sake of fast error diagnostics and operational availability.

FENDT StarService Emergency Hotline
Available 7 days a week! FENDT StarService partners are mobile and have only one objective: to keep your Fendt operationally available. Should something actually happen, the Emergency Hotline is available for fast and competent help – even on-location at your farm or business!
1) during the harvesting season from May to October

Know-how through practical training
Profit by technically and economically optimising operations with your Fendt tractor, whether in the field, on the road or in the books. Professional instructors show you how to utilise top class technology efficiently and safely, in theory and practice.

Mobile expert service
Every StarService partner has a modern service vehicle. Tried and tested, optimised tools, as well as service documentation and FENDIAS, the computer-supported analysis and diagnostics system, are always on board. This allows the mobile StarService technician to localise and rectify errors quickly.

Profitability under contract
With a Fendt Service Package, you have servicing and repair costs under control. Would you like to have the prescribed servicing work done on the basis of reasonable fixed costs? Or do you want full control of costs per operating hour without unpleasant surprises? Choose between the Service, ProService and FullService packages.

Fendt24 – because your time is invaluable!
Your StarService partner has the most commonly required parts in stock. If a part is not in stock, we deliver those that are ordered by 6 pm by 8 am the next morning. During the harvesting season² your StarService partner has access to Fendt24. Here orders are taken around the clock and are ready for delivery within two hours.

Rent a tractor including the Service Package at a fixed cost through your FENDT StarService partner. This frees up your funds and you can easily calculate the costs per hour. We can take over all servicing work, complete insurance coverage and repairs*, if you like.

² Repairs according to FENDT warranty policy; natural wear (e. g. tyres) and malicious damage are excluded.
Technical specifications

### Engine
- **Rated power (kW/hp) (ECE R24):**
  - 309 / 420
  - 312 / 425
- **Max. power (kW/hp) (ECE R24):**
  - 312 / 425
- **Rated power (kW/hp) (EC 97/68):**
  - 312 / 425
- **Max. power (kW/hp) (EC 97/68):**
  - 312 / 425
- **No. of cylinders / cooling:**
  - 6 cylinders, four-valve technology / water
- **Aspiration:**
  - Turbocharger, intercooler
- **Injection / engine control / exhaust recirculation:**
  - Common rail / EDC / external EGR
- ** Rated engine speed (rpm):**
  - 2100
  - 2100
- **Speed at max. power (rpm):**
  - 1900
  - 1900
- **Max. torque (Nm/rpm):**
  - 804 / 1450
  - 895 / 1450
- **Torque rise (%):**
  - 35
  - 35
- **Optim. fuel consumption (g/kWh):**
  - 195
  - 195
- **Fuel tank (l):**
  - 340
  - 340
- **Oil change interval (op. hrs.):**
  - 500
  - 500

### Transmission and PTO
- **Type of gearbox:** stepless Vario transmission
- **Speed range: Range I (forward / reverse):** 0.02 to 28 km/h / 0.02 to 17 km/h
- **Max. speed (km/h):**
  - 312 / 425
  - 312 / 425
- **Rear PTO (rpm):**
  - 540 / 540E / 1000
  - 540 / 1000
- **Front PTO (rpm):**
  - 44.4 / 4526
  - 44.4 / 4526

### Hydraulics
- **Type:** load sensing
- ** Hydraulic pump capacity (l/min):**
  - 110 (154 *)
  - 200
- **Working pressure (bar):**
  - 110 (154 *)
  - 200
- **Rear power lift control:**
  - EPC, lower link control, shock load stabilising
- **Auxiliary valves max. (standard) incl. front controls:**
  - 5 da / 13 da / (3 da) elect. valves / crossgate lever
- **Max. lift capacity, rear power lift on the drawbar (kN/kp):**
  - 90.8 / 9256
  - 90.8 / 9256
- **Max. lift capacity, front power lift (kN/kp):**
  - 45
  - 45
- **Max. available hydraulic oil (l):**
  - 45
  - 45

### Brakes
- **Rear brakes:**
  - Wet, integrated multi-disc brake
- **Front brakes:**
  - Wet brakes on cardan shaft

### Weights and dimensions
- **Unladen weight acc. to DIN 70020 (kg):**
  - 7185
  - 7185
- **Perm. gross weight (kg):**
  - 12500
  - 12500
- **Max. payload (kg):**
  - 5315
  - 5315
- **Max. hitch load (kg):**
  - 2000
  - 2000
- **Overall length (mm):**
  - 4753
  - 4753
- **Overall width (mm):**
  - 2570
  - 2570
- **Overall height (mm):**
  - 3025
  - 3025
- **Ground clearance (mm):**
  - 566
  - 566
- **Wheelbase (mm):**
  - 2720
  - 2720
- **Front track (mm):**
  - 1940
  - 1940
- **Rear track (mm):**
  - 1920
  - 1920
- **Min. turning circle (m):**
  - 5.6
  - 5.6

### Electrical equipment
- **Starter (kW):**
  - 3.0
- **Battery:**
  - 12V / 170 Ah
- **Alternator:**
  - 2800 W / 14V / 200 A

### Cab
- **Construction:** integral, tiltable safety cell hinged front, side and rear windows, roof hatch, ventilation system with blower in roof, hot water heating with 3-speed blower, air-conditioning

### Standard tyres
<table>
<thead>
<tr>
<th></th>
<th>818 Vario</th>
<th>820 Vario</th>
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<tbody>
<tr>
<td><strong>front</strong></td>
<td>540/65 R30</td>
<td>540/65 R30</td>
</tr>
<tr>
<td><strong>rear</strong></td>
<td>650/65 R42</td>
<td>650/65 R42</td>
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</tbody>
</table>

### Optional
<table>
<thead>
<tr>
<th></th>
<th>818 Vario</th>
<th>820 Vario</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>front</strong></td>
<td>600/60 R30</td>
<td>600/60 R30</td>
</tr>
<tr>
<td><strong>rear</strong></td>
<td>710/60 R42</td>
<td>710/60 R42</td>
</tr>
<tr>
<td></td>
<td>540/65 R28</td>
<td>540/65 R28</td>
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<tr>
<td></td>
<td>650/65 R38</td>
<td>650/65 R38</td>
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<tr>
<td></td>
<td>270/95 R38</td>
<td>300/95 R52</td>
</tr>
</tbody>
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* = recommended  
Your Fendt dealer will be pleased to inform you about further tyre options.
### Standard and optional equipment

#### Vario controls
- Joystick control (multi-function joystick)
- Varioterminal for fine settings
- Fuel consumption indicator
- Camera for the Varioterminal
- Variotronic implement control for ISO and LBS implements
- Variotronic² Headland Management System
- Variolink Engine-Transmission Management System
- Preparation for steering assist
- Auto-Guide steering assist system with VBS or HP or Local Base Station

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<tbody>
<tr>
<td>Standard</td>
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<tr>
<td>upon request</td>
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#### Cab
- Pneumatic cab suspension
- Height and tilt-adjustable steering column
- Fendt Comfort Seat, air sprung
- Fendt Super Comfort Seat, air sprung, low frequency suspension
- Radio mounting kit with two stereo speakers
- Blaupunkt radio CD or CD MP3, coaxial speakers
- Ventilation with steplessly adjustable fan in roof
- Air-conditioning system
- Emissions filter (aerosol)
- Rear window wash/wipe
- Heated rear window
- Mechanically width-adjustable side view mirror
- Twin Power roof/working lights rear, front
- Work lights A-pillar, rear mudguard
- Work light Xenon A-pillar, mudguard rear
- Bracket for additional device
- Battery disconnect switch (electric)

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#### Engine
- Zyklon precleaner
- Fuel pre-filter
- Preheater package (engine, transmission, hydraulic oil)
- Exhaust brake

#### Transmission
- Turboclutch, automatic maximum output control, cruise control
- Shuttle function, stop and go function
- Acoustic signal when reversing

#### Chassis / safety features
- Shock load stabilising EPC
- Front axle suspension with level control
- Compressed air system

#### 4WD / differential locks
- Central 4WD, maintenance-free
- Comfort engagement controls for 4WD / differential locks
- Rear / front differential with 100% disc locking

#### Power shift PTO
- Rear: Flange PTO 540/540E/1000 rpm
- Front: 540 rpm or 1000 rpm
- PTO engagement control, electrohydraulic preselection
- External controls for rear PTO

#### Hydraulics
- Load sensing system with axial piston pump (110 l/min), hydraulic oil cooler
- 154 l/min delivery capacity
- Electrohydraulic power lift DA (EPC), with external controls
- Upper link QC hydraulic
- Radar-activated wheel slip control
- External hydraulic connection (load sensing)
- External control for hydraulic control unit at rear
- Double connect-under-pressure couplings, rear
- Front power lift da with external controls
- Front power lift da with position control and external controls
- Front loader, front loader attachments

#### Body
- Automatic hitch with remote control, rear
- Ball coupling
- Pickup hitch
- Swinging drawbar
- Pin-on-fix

### Auxiliary lighting
- Wide vehicle marker
- Camera for the Varioterminal
- CD or CD MP3 Blaupunkt radio
- Rotating beacon with Xenon work lights; rotating beacon
- Wide vehicle marker
- Camera for the Varioterminal
- Original Fendt CARGO front loader
- Double-sided connect-under-pressure couplings; external load sensing hydraulic connection
Sales agent:

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.