

FENDT



FENDT® 1000 VARIO GEN4 SERIES | UP TO 550 MAX HP

BIGGER. MORE PRODUCTIVE. BOLDER.

FENDT 1000 VARIO GEN4 SERIES



As the most adaptable fixed-frame tractor in North America, the new **Fendt 1000 Vario Gen4 Series** delivers increased power and performance while using less fuel for the best fuel efficiency in its class. The four new models—1040 Vario, 1044 Vario, 1048 Vario and 1052 Vario—range from 426 HP up to 550 maximum HP with DynamicPerformance™ to handle the most demanding tillage, heavy-duty seeding and transport work. All come standard with the latest 12.4L MAN engine, which includes the Fendt iD™ low engine speed concept for increased torque at lower RPMs, and DynamicPerformance™ for optimized horsepower delivery and improved efficiency.

Quick Specs and Features

- Base weight: 30,865 lbs. (14,000 kg)
- Maximum power with DP ECE R120: 426-550 HP
- Rear PTO option: 1000/1000E
- Tier 4 Final, 6-cylinder, 12.4-liter MAN D26 engine
- Maximum speed: 31 mph (50 km/h)
- Max ballast weight: 50,706 lbs. (23,000 kg)
- Continuous lift capacity at hook/ball ends: up to 18,000 lbs. (8,165 kg)
- Optional front power lift capacity: up to 12,540 lbs. (5,688 kg)
- New, intelligent, stepless VarioDrive™ drivetrain with automatic 4WD
- Optional Fendt VarioGrip™ tire pressure regulation system



Ideal for: The largest planting and tillage implements
Row-crop applications
Large hay tools
Grain cart work
Transport of large slurry tanks
Wood chippers and forestry tillers





FENDT SPOTLIGHTS

Fendt solutions that make the difference

From 426 to 550 HP [\(page 6\)](#)

- Four all-new models pack serious power with the Fendt DynamicPerformance intelligent extra-power concept that delivers extra horsepower exactly when you need it
- At 550 Max HP with DynamicPerformance, the new Fendt Model 1052 Vario is the largest and most powerful standard fixed-frame tractor on the market
- Smooth, quiet operation

Adaptive Power [\(page 7\)](#)

- Adjustable power to control engine horsepower for lighter duty work to increase fuel efficiency and protect implements

VarioDrive [\(page 8\)](#)

- Seamless, intuitive transmission operation from 65 ft. per hour to 31 mph
- Independent front and rear hydraulic transmission motors to divert power and reduce slip

Fendt iD Low Engine Speed Concept [\(page 9\)](#)

- High torque, low engine speed
- Increased service life
- Reduced engine noise
- Improved operator comfort

VarioGrip [\(page 10\)](#)

- Optional integrated tire pressure control system
- Reduces compaction and tire wear; improves traction

360° LED Lighting [\(page 12\)](#)

- All-new, CAN-based UltraVision LED work lights on the cab roof deliver an impressive 120,500 lumens, ensuring bright daylight-like illumination even on the darkest nights
- With the innovative 360-degree lighting concept, you can maintain a clear view of all work areas around your tractor, day or night

FendtONE™ [\(page 14\)](#)

- Customize your operation with up to two 12-inch monitors in the cab, one of which retracts from the roof liner
- Control nearly every aspect of machine operation with the customizable multi-function joystick

Operator Comfort Upgrades [\(page 15\)](#)

- The newly designed cab includes a 3.2-gallon compressor cooling box and a modern, hands-free infotainment system, plus options of a premium massage seat, ergonomically mounted footrests and cabin dust extraction

Dual-Pump, Dual-Circuit, On-Demand Hydraulics [\(page 17\)](#)

- Dual pump/circuit system - up to 113.5 GPM
- Fully dedicated to auxiliary functions
- Optional front 3-point hitch, rear PTO and hydraulics
- Hydraulic functions assignable and customizable from the cab
- Separate hydraulics and transmission reservoirs to prevent cross contamination

Autonomy Compatible [\(page 18\)](#)

- Optionally unlocked and future-proofed for autonomous operation with PTx™ OutRun™ grain cart and tillage solutions
- Increase efficiency, reduce operator fatigue and ensure crops get in the bin on time

Gold Star Customer Care [\(page 22\)](#)

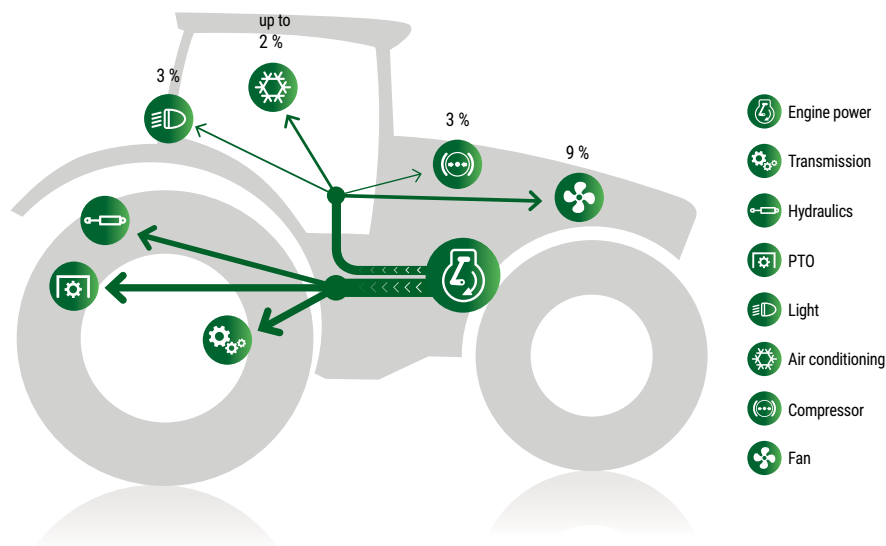
- Three years or 3,000 engine hours full machine warranty PLUS all scheduled maintenance, a loaner guarantee, and five-year subscriptions to Fendt Connect and PTx FarmENGAGE operations software

NEED EXTRA POWER? LET DYNAMIC PERFORMANCE HANDLE IT.

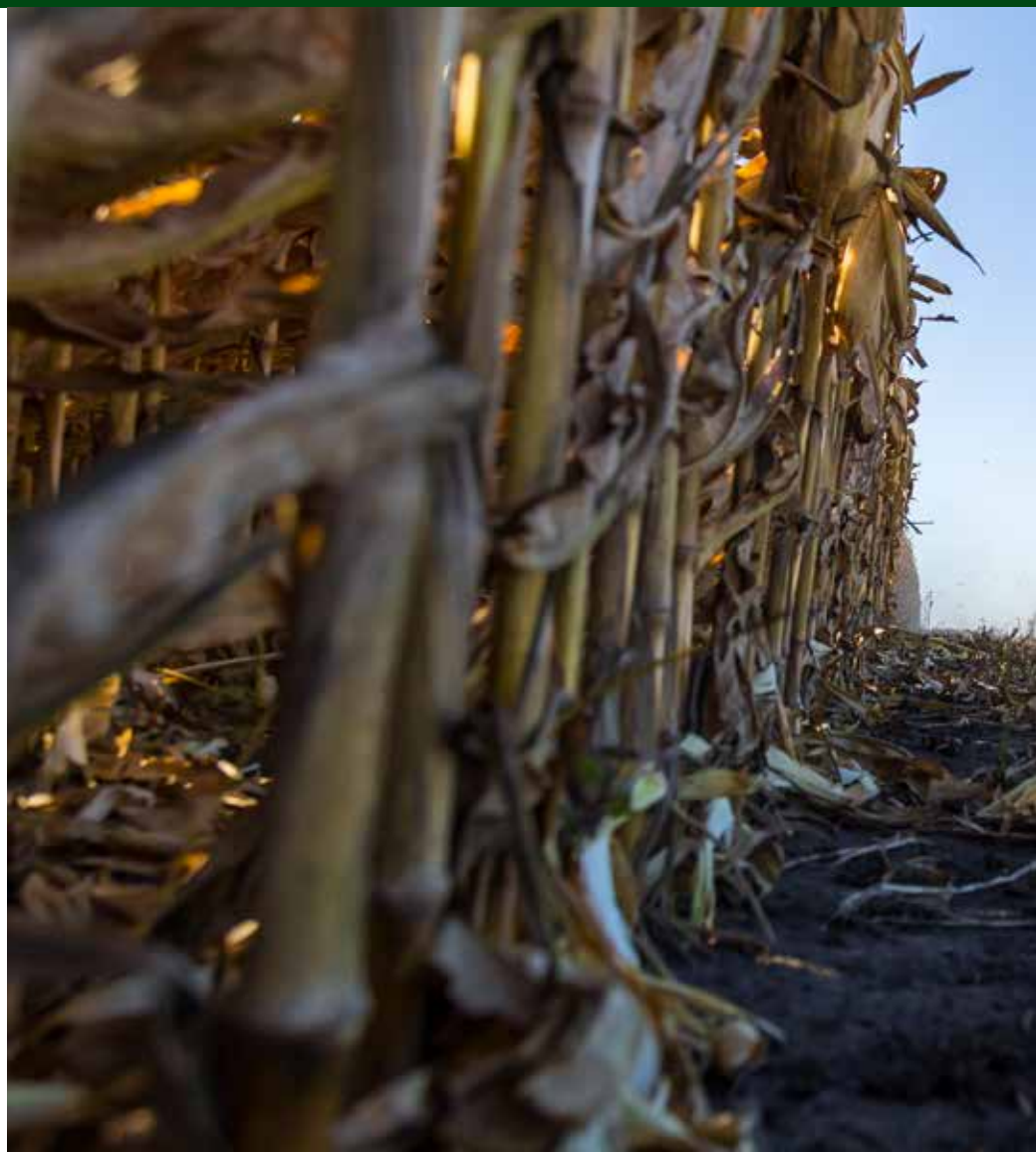
Power where and when you need it

While a tractor's engine power must feed many auxiliary consumers, you can't afford power losses that affect performance of your main tasks. The Fendt DynamicPerformance (DP) extra power concept automatically tells the engine to deliver additional power when needed.

With Fendt DP, Fendt 1000 Vario Gen4 Series tractors offer up to 30 HP* more power for increased productivity and efficiency. Unlike conventional boost systems, Fendt DP goes into action without being restricted by certain conditions, thus ensuring consistent work performance and productivity—regardless of the application.



* depending on model



RETURN ON INVESTMENT: WORKING HARD FOR YOUR MONEY



Efficient power for your bottom line

When you invest in a powerful tractor like the Fendt 1000 Vario Gen4, you want it to work hard for you in a wide variety of applications, from seedbed preparation and planting to hauling grain carts to pulling large balers and slurry tanks.

The Fendt 1000 Vario Gen4 was developed with no compromises from the start, designed specifically for the 500-HP power range, down to the smallest detail. The result is a tractor with the power to handle even the toughest demands, yet is flexibly ballasted, maneuverable and efficient thanks to its intelligent design.

In the 500-HP power class, only the Fendt 1000 Vario Gen4 Series tractors give you:

- Excellent fuel efficiency and automatic power management to get more done with lower input costs
- Perfect utilization of the standard tractor concept with unrivaled performance in traction, PTO and hydraulic power
- A single-stage, stepless VarioDrive drivetrain, which guarantees maximum comfort and agility
- Automatic, independent four-wheel drive, which enables efficient turning, more productive time and soil protection
- Adaptive power levels that enable gentle use of implements with low power requirements, allowing for higher utilization of the tractor and reducing fuel consumption

THE DRIVETRAIN THAT CHANGED EVERYTHING.

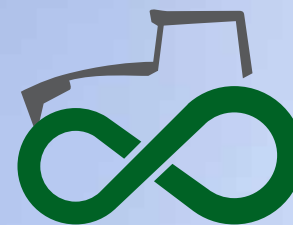
Only Fendt VarioDrive delivers traction, power and efficiency ... effortlessly.

The Fendt VarioDrive drivetrain automatically puts the power of your tractor where it can do the most work, delivering more traction, pulling power and maneuverability with less operator effort. VarioDrive does the thinking for you – continuously and intelligently distributing torque between the front and rear axles to give you optimum traction and power in the field and reduce drag losses in the drivetrain at higher speeds.

Fendt engineers, the creators of the original CVT in tractors, went beyond the CVT to solve the needs of how to deliver traction efficiently between tractor wheels and the ground while integrating the transmission with four-wheel-

drive tractors. The groundbreaking result was the Fendt VarioDrive drivetrain, the heart of what makes a Fendt a Fendt. The unique, continuously variable system involves the whole drivetrain, including the axles and the 4WD system, to give operators of Fendt Vario tractors smooth, seamless, dynamic driving at any speed, from 65 feet per hour to 31 mph, while delivering tremendous pulling power in the field, all with better fuel efficiency.

With Fendt VarioDrive, you are freed from thinking about when to engage 4WD, manage traction or change settings for optimum performance.



Fendt
VarioDrive



SMOOTH OPERATOR.

Efficient power to the ground

VarioDrive's unique hydrostatic and mechanically power-split transmission has one hydraulic pump and two hydraulic motors. With independent motors for front and rear axles, the torque vectoring of the VarioDrive drivetrain puts the power exactly where you need it automatically.

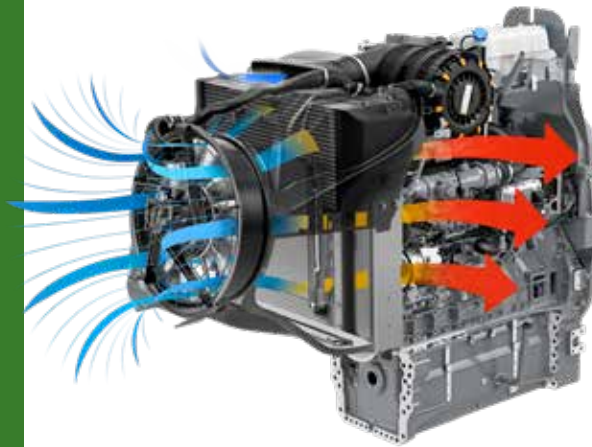
With VarioDrive, the 4WD is fully automated—on and ready to perform—allowing you to concentrate on your work and never again forget to turn on the 4WD before a critical situation. Variable 4WD is possible up to 15 mph, and since there is no fixed drive ratio, the front-wheel drive actively pulls the tractor into a curve, reducing the turning radius in the field by up to 10%. Additionally, power transmission remains tension-free even when cornering, ensuring maximum soil protection and the best traction.

The results:

- easier and more precise maneuvering for headland turns
- maximum soil protection
- higher efficiency
- less wear on the machine and the driver.

Fendt iD low engine speed concept

The Fendt iD low engine speed concept allows you to do more of everything, while consuming less. With an RPM band of just 650–1,700, and peak torque achieved and sustained from 1,100–1,400 RPM, you consume a lot less fuel, while covering more ground, more efficiently. Not to mention that the system also provides for an incredibly smooth and quiet operating experience and superior longevity out of the engine with lower maintenance costs.



The Concentric Air System (CAS) cooling concept with forced-draft high-performance fan cools all heat exchangers accordingly and further increases overall efficiency.

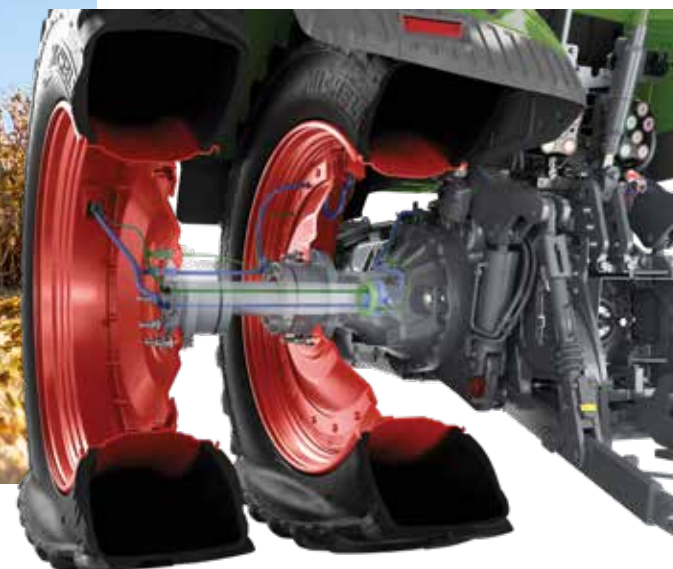


For optimum air supply even in the dustiest conditions, the self-clearing air filter system has continuous, passive dust extraction through negative pressure from the engine fan as well as active, situational clearing with short blasts of air that can be automatic or triggered at the touch of a button in the cab. This reduces maintenance and improves reliability.

MORE GRIP. LESS SLIP.



An onboard air compressor supplies air lines that are integrated into the axle assembly.



You shouldn't sacrifice soil health for machine performance, and with Fendt, you don't have to.

VarioGrip™ is an optional factory-installed tire pressure control system that allows the operator to set and control tire pressure from the FendtONE displays. This reduces compaction while in the field, improves ride quality whether roading or in the field, and reduces tire wear.

Compared to working with unadjusted tire pressure, you can achieve up to 10% more pulling power and cover up to 8% more area with up to 8% lower fuel consumption.* VarioGrip is available for flange and bar axles, and multiple tire configurations.

* Test results from South Westphalia University of Applied Sciences, Faculty of Agriculture, Soest.



To ensure maximum power to the ground, the simple-to-adjust front and rear flexible ballasting system lets you increase the tractor's weight from 30,865 lbs. to a maximum ballast weight of 50,706 lbs. Add only as much weight as necessary for maximum soil protection and traction.



Fendt Stability Control (FSC) takes steering precision, driving stability and braking performance to new levels. At speeds above 12.4 mph (20 km/h), FSC locks the front-axle suspension cylinders and dampens side-to-side movement to ensure maximum lateral stability in transport. When speeds drop below the FSC threshold, it automatically disengages to ensure maximum ground contact with all four tires.

Note: Images at left use Fendt 1000 Gen3 as example.

TURN NIGHT INTO DAY.

UltraVision 360° LED lighting

With LED work lights putting out a brilliant 120,500 lumens, the new optional UltraVision lighting system on the Fendt 1000 Vario Gen4 ensure daylight-like illumination even on the darkest nights. With this innovative 360-degree lighting concept, you can maintain a clear view of all work areas around your tractor, bringing work efficiency and work quality to a new level.

- Your choice of 8 or 12 powerful LED work lights are mounted on the cab roof along with up to 6 LED work lights on the A-pillar and fenders of the Fendt 1000 Vario.
- There are four LED work lights up in the hood with integrated daytime running lights.
- Additional dimmable lights with adjustable beam angles can be easily attached to the optional integrated tech rails in the rear pillars of the cab.
- GroundVision adds targeted illumination in the rear implement area.
- A new three-pin device socket in the rear lets you conveniently operate the work lights and the cameras of the implements via the FendtONE terminal, switching them on and off as desired.
- UltraVision work lights feature adjustable lighting output from the FendtONE display





A unique option is the GroundVision drawbar lighting in the fenders, which perfectly illuminates the rear implement. This ensures you have the best visibility for attaching or unhooking implements and to monitor areas like the pick-up of a baler when working after dark.



Digital hood and rear camera

To get a better view of your implements, the Fendt 1000 Vario can be outfitted with front and rear cameras. The front camera is seamlessly integrated into the hood, while the rear camera is discreetly placed under the license plate holder. These cameras give you a full overview at all times with super-sharp, high-resolution image quality. Whether you're coupling, switching, or using the equipment, you'll always have full control and complete visibility.

CUSTOMIZE. ORGANIZE. OPTIMIZE.



The new FendtONE operator environment is roomier, more comfortable and has better visibility than before. It allows you to completely customize your settings, data management and operating environment to suit your needs.

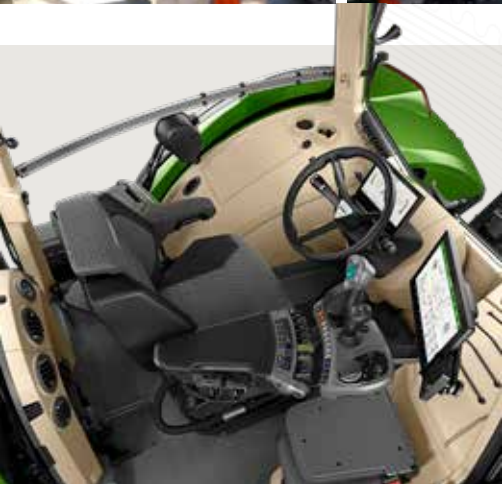
- Incorporates up to three display options, with 10-in. digital dashboard and 12-in. terminal on the armrest standard. Optional secondary 12-in. terminal stows into the roof liner.
- Highly customizable multi-function joystick with flexible key assignment with Individual Operation Manager (IOM).
- Controls are color-coded for similar functions.
- Modern, integrated, hands-free infotainment system with a wide range of external audio sources. Four premium speakers deliver perfectly balanced sound, with option of added subwoofer, and you get the best reception and transmission quality for hands-free calling, thanks to microphones throughout the roof lining.
- New, larger compressor cooler with 3.17-gal. (12-L) capacity, with cooling range from 32 to 61 degrees Fahrenheit. (0 to 16 degrees Celsius)



Work has never been so comfortable

Operator comfort in the Fendt 1000 Vario starts with a choice of four seats, all with air-suspension and seat heating. The top premium seat remembers each operator's settings through the terminal along with multi-stage climate control and a massage function for optimum comfort and relief. We've also added the option of three ergonomically mounted footrests.

Visibility is even better with a heated front window option and wipers that create an exclusive 270° clear view on the front window and 220° on side window. Easily adjust the new rear-view mirrors with electrical control and telescoping options for no blind spots and the best overview. The cab environment protects you with new dust extraction for the cab air filter while powerful air-conditioning joins with front, right and rear sun blinds, automatic climate control and tinted rear window to keep you cool and comfortable.



A better rearview thanks to a reverse operator station

With the optional reverse drive control of the Fendt 1000 Vario, the entire operator's station can be rotated by 180 degrees aided by pneumatic support. Particularly practical: The operating logic automatically adapts to the new direction—so you don't have to rethink it all. The rotated operator's station is particularly advantageous for special applications such as forestry, snowblowing, silage packing or municipal work.

IT'S ALL WITHIN REACH.

As well as the familiar clover leaf operation, the multifunction joystick includes two controls for proportional valve control as well as four freely assignable white keypads.

This is where you can easily manage the usual transmission and driving functions with push buttons: including two engine speed programs, two cruise-control settings and a dial-controlled active cruise control setting.

The 3L joystick offers complete control without you having to reach over two control valves. Complex implement functions can be controlled with the optional third and fourth hydraulic circuits. The third and fourth functions are operated via the smaller, thumb joystick.

You can easily manage the air conditioning and infotainment with two dedicated dials.

Customizable terminal layout

Use the central pushdial to decide what to display on the Fendt 1000 Vario. This includes four quick access keys for Back, Launchpad, Overview, Individual Operation Manager (IOM) and switching between terminal and dashboard.

Here are buttons for rear and front 3-point control, and in the middle are the five freely assignable white buttons.

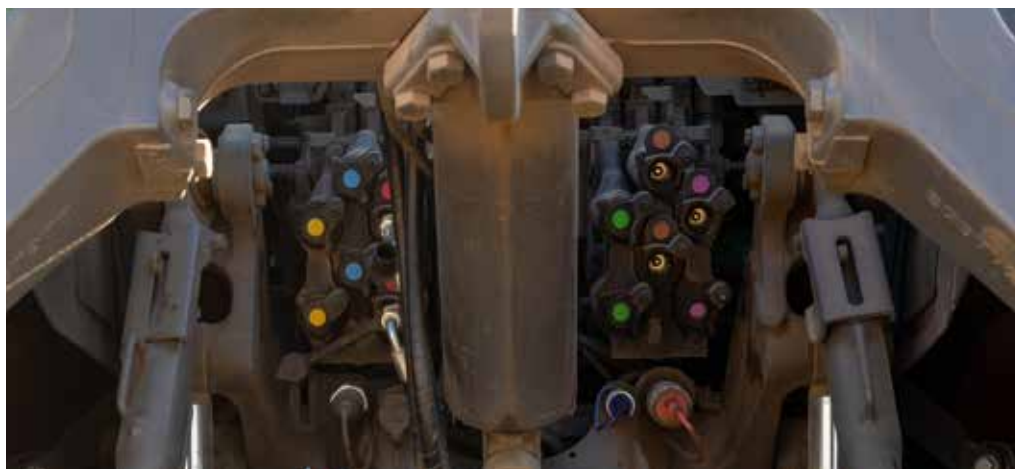
In the middle operating level, from left, we have the following: engine throttle, foot pedal speed limiter, adjustment SCVs 1 through 4 (freely assignable), PTO actuation as well as front power lifts and rear power lifts.

PTO Operation

The lower control level includes the LED display for each setting. The driver immediately sees whether buttons have been reallocated by the hydraulic valve color.



POWER UP FOR ANY JOB.



Versatile hydraulics for maximum power

With the dual-pump, dual-circuit hydraulics option, the Fendt 1000 Vario provides up to 113.5 GPM of on-demand, dedicated hydraulic capacity completely independent from other hydraulic consumers, such as transmission or steering functions. The high and targeted flow capacity gives you the consistent supply needed to perform multiple functions simultaneously and operate the widest implements to cover more acres in a day. Time-proven color coding of all hydraulic outlets can be reassigned from the FendtONE display in the cab.

Power lifts available front and back

Order your Fendt 1000 Vario Gen4 with one of three options up front: comfort ballast support, front power lift with position control or front power lift with position and relief control. The optional rear power lift achieves a high maximum lifting force of 18,000 lbs. (8,165 kg) at the coupling point.







ALREADY BUILT FOR WHAT'S NEXT.

Automation-ready: Welcome to the future today

One of the most challenging times to find help is during harvest, when you are running against the clock trying to get your crop off the field before you lose your hard-earned yields.

That's why we've equipped the Fendt 1000 Vario Gen4 Series for the future as the first Fendt tractor that can be optionally unlocked from the factory for PTx OutRun grain cart and tillage automation solutions. OutRun, a pioneering automation system, delivers autonomous tractor operation to increase efficiency, reduce operator fatigue and ensure crops can be harvested on time.

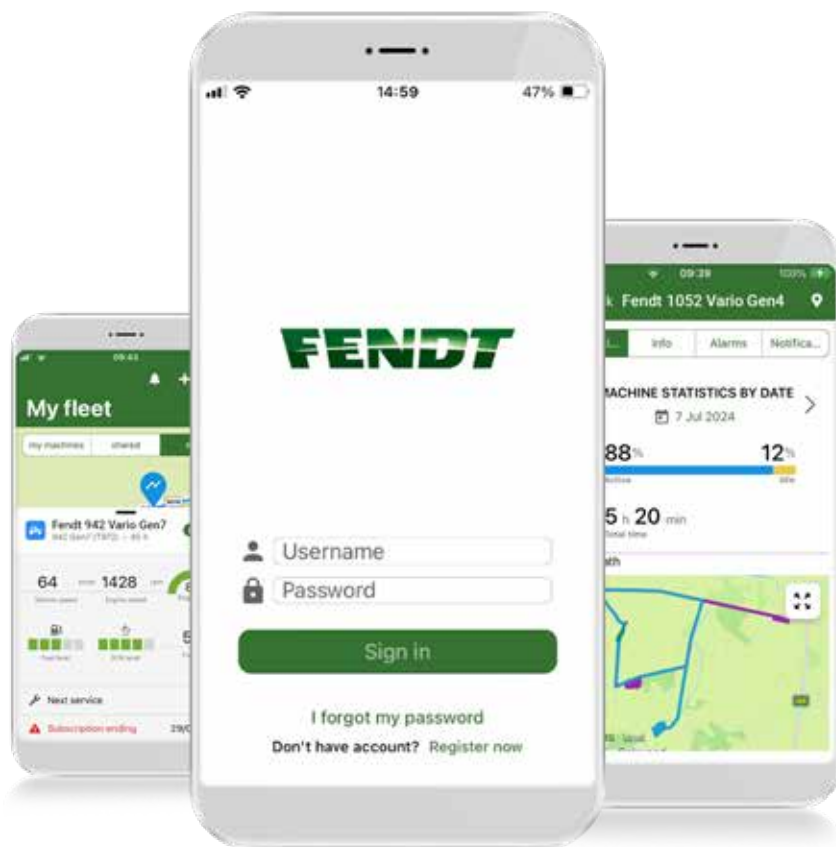
OutRun gives you the flexibility of deploying labor where you need it. If you don't have the help you need to run grain carts, you can harvest 50-60% faster with an autonomous grain cart you run from the cab of the combine instead of unloading at the headlands. You can stage the grain cart strategically in the field, call for it to come to and align with the combine to unload grain on the go, then send it to a predefined truck unload zone to be unloaded (manually, for now).

When it's time for field preparation, you'll soon be able to add the OutRun tillage kit* to your implement and turn your Fendt 1000 Vario Gen4 tractor into a 24/7 workhorse managed right from your mobile device.



*OutRun tillage kit available in late 2026.

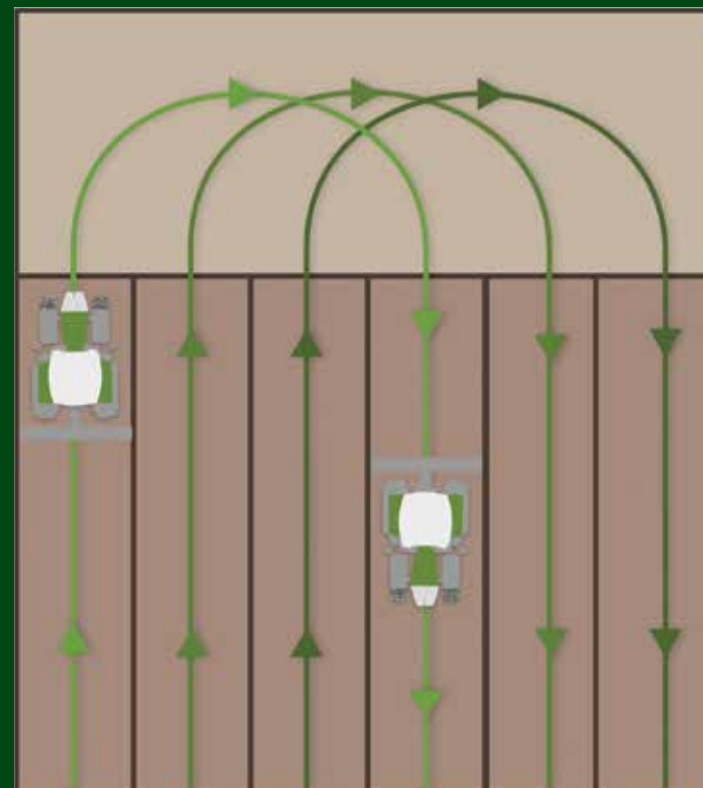
INTUITIVE, INNOVATIVE, AND INFORMATIVE.



Fendt Connect™ is like a control tower for your fleet, seamlessly linking your operators, your office and your dealer. Through one easy-to-use interface—on a smartphone, tablet or laptop—Fendt Connect provides signals that keep you connected to the field and to your dealer. It's robust data visualization that enables remote, real-time monitoring, decision-making and even diagnostics.



Select from either Trimble or NovAtel integrated receiver options and up to sub-inch accuracy. All guidance and mapping features are accomplished through the FendtONE displays.





Get ahead of the paperwork: Fendt TaskDoc

With the order-led documentation system Fendt TaskDoc®, your tractor collects all necessary data as you work. You can then transfer the data as a standardized file into a field map—either via a USB stick, or wirelessly over the mobile network.

Simple order management: Fendt Task Manager

With the basic agronomy package on your machine, you can create tasks on the go or from the office in just a few clicks and send them wirelessly to the machine.

Headland management made easy with Fendt TI Headland

This smart assist is a real benefit for repeat processes, especially headlands. Our Fendt TI headland management system saves you up to 1,920 daily hand movements in 160 turns. Both manually at a standstill and while driving, you can record all the functions as a sequence and save them in the terminal. Later, all it takes is a touch of a button to activate the automated sequences when entering and coming out of the headland. Work without having to reposition. Five triggers (*distance, time, front power lift, rear power lift and manual*) and 13 function groups help you control an impressive 74 functions. Shift smoothly between the individual sequence steps. Later, all it takes is a touch of a key to activate the automated sequences at the headland.

With Fendt TI Headland, in combination with Fendt Guide, position detection automatically initiates all recorded steps at the headland.



Pinpoint precision: Fendt SectionControl

SectionControl provides automated section control for ISOBUS implements. Fendt SectionControl supports up to 140 partial widths. The ISOBUS standard promises intuitive handling: The control screen automatically appears on the terminal when you connect the ISOBUS plug to the socket.



Manage your farm's workflow

PTx FarmENGAGE™ is the next generation of operations management software built to bring simplicity, connectivity and control to your entire fleet. No matter the equipment brand, FarmENGAGE empowers you to manage every aspect of your operation from the field or the office, using the machines you already own—regardless of make or model year. With powerful tools for fleet tracking, job monitoring and data management, FarmENGAGE keeps your operators productive, your equipment visible and your workflows efficient.

This platform is designed to help you focus on what matters most: getting the job done right. All Fendt 1000 Vario Gen4 Series tractors come with five-year subscriptions to PTx FarmENGAGE farm operations software.



THE BOTTOM LINE: WE CARE ABOUT YOURS.



The Fendt Gold Star Customer Care Program is the best in the business. We'll help you manage every aspect of your variable expenses and risks. We'll also provide the kind of after-sale care that rewards you with exceptional resale value when you eventually trade in your tractor for a newer model.

The Offering

Available for all customers to provide a fully customized warranty plan.

The Warranty

Three years or 3,000 engine hours warranty, including all scheduled routine maintenance and all other repairs, as required.

The Maintenance

All parts and labor required to perform factory-recommended maintenance within the three-year/3,000 engine hours warranty period is included with Gold Star. Dealers perform maintenance every 500 hours or annually during the program.

The Parts

Fendt dealers use only genuine AGCO® parts, so your Fendt is always 100% Fendt. All parts are covered for one year and all labor for six months under the AGCO Parts Advantage warranty.

The Service

Fendt dealers and their factory-trained certified technicians use only the highest-caliber diagnostic tools.

The Loaner

If your tractor can't be repaired in 48 working hours*, we'll provide you a loaner tractor. We stand by this promise for three years or 3,000 hours.

The Operations Software

All Fendt 1000 Vario Gen4 Series tractors come with five-year subscriptions to Fendt Connect and PTx FarmENGAGE farm operations software.

*Two full 24-hour days



Gold Star+ (Optional)

For longer working periods, you can extend the standard Gold Star offering with Gold Star+. All the same benefits but for as long as five years or 5,000 hours.

SPECIFICATIONS

Engine	1040 Vario	1044 Vario	1048 Vario	1052 Vario
Rated/maximum power (HP/kW)	400/294	440/324	480/353	520/383
Rated/maximum power with DP ECE R 120 (HP/kW)	426/313	466/343	507/373	550/405
PTO HP/kW	381/280	417/306	450/331	486/357
No. of cylinders/cooling/cylinder bore X stroke	6/water/4.96 in (126 mm) X 6.54 in. (166mm)			
Displacement	757 cu. in./ 12.419 L			
Rated engine speed	1,700 rpm			
Torque rise	19%	18%	18%	17%
Tank capacity	Fuel tank: 195.5 gal /740 L. AdBlue tank: 20.9 gal /79 L			

Transmission / PTO

Type/model	Stepless VarioDrive Transmission / TA400
Speed range	Forward – 65 ft. / hr. (.012 mph) to 31 mph / 0.02 km/h to 50 km/h Reverse – .012 mph to 21 mph / 0.02 km/h to 33 km/h
Engine speed at top speed of 31 mph / 50 km/h	1,200 rpm
Rear PTO option	1000 / 1000E

Power Lift and Hydraulics

Variable-flow hydraulic pump capacity (standard)	58 gpm / 220 L/min
Optional dual-circuit, dual-pump system capacity	113.5 (55.5 + 58) gpm / 430 (210 + 220) L/min
Working pressure	2,900 psi / 200 bar
Max. number of valves with Profi+	1 front / 6 rear
Max. available hydraulic oil volume	26.42 gal / 100 L
Standard control valve flow (all valves)	37 gal / 140 L
High-flow control valve options (3 and 4)	44.9 gal / 170 L
Front valve flow	31.7 gal / 120 L
Continuous lift capacity at hook/ball ends	18,000 lbs / 8,165 kg
Continuous lift capacity 24" behind coupling point	16,500 lbs / 7,484 kg
Max. front power lift capacity at coupling point	12,540 lbs. / 5,688 kg

Electrical Equipment

Battery power	12 V / 180 Ah
Alternator	14 V /320 A
Alternator (V / A)	14 V / 2 x 160 A

Weights/Dimensions*

Empty weight (base tractor with cab, full tanks, no driver)	30,865 lbs. / 14,000 kg
Max. permissible overall weight	50,706 lbs. / 23,000 kg
Max. permissible front axle load	22,046 lbs. / 10,000 kg
Overall length	250 in. / 6,350 mm
Maximum ground clearance	22.64 in. / 575 mm
Wheelbase	129.92 in. / 3,300 mm

* Dimensions calculated with Trelleborg VF380/85R46 front tires and Trelleborg Dual VF480/95R54 rear tires.

FENDT



FENDT 1000 VARIO GEN4 SERIES



AGCO ANSWERS
(877) 525-4384 AGCOanswers@AGCOcorp.com

AGCO may at any time, and from time to time, for technical or other necessary reasons, modify any of the data, specifications or warranty of the products described herein. Some equipment shown may be optional. Attention: Photographs in this publication may show protective shields and guards open or removed for the purposes of illustration. Be certain all shields and guards are in place during operation.

© 2025 AGCO Corporation. Fendt is a worldwide brand of AGCO Corporation. AGCO®, DynamicPerformance™, Fendt®, Fendt Connect™, FendtONE™, Fendt iD™, PTX™, FarmENGAGE™, TaskDoc®, VarioDrive and VarioGrip™ are trademarks of AGCO. Bluetooth® is a trademark of Bluetooth SIG, Inc. All rights reserved.

FT25BRC014RBv04