



The leader in tractor technology
just increased its lead.

FENDT

BIG. STRONG. UNIQUE. The new Fendt® 1000 Vario opens up a brand new power segment, delivering 380-500 HP. It is designed to unite all the advantages required for operations in the field or on the road with a 60-inch row crop-capable track width, powerful hydraulics and breakthrough Fendt technology. The Fendt 1000 Vario delivers outstanding maneuverability, unmatched power, optimal traction and superior operator comfort.

Experience why the best-run operations run Fendt.



Introducing the world's largest draft tractor.

INCOMPARABLE ENGINEERING
BREAKTHROUGHTECHNOLOGY
UNPRECEDENTED EFFICIENCY

FENDT 1000 VARIO

ENGINE > MORE POWER. GREATER EFFICIENCY.

Fendt iD: More torque, less fuel

The Fendt 1000 Vario is powered by a highly efficient engine, which delivers power dynamically and is tuned to handle heavy field operations. The Fendt iD high-torque, low-engine-speed concept allows the tractor to always run in the maximum torque range for the lowest specific fuel consumption. High power is dynamically delivered at low engine speeds, resulting in lower fuel consumption and extended service life. The entire drivetrain works at an economic optimum, ensuring efficiency and power distribution through the engine and transmission.

Unique cooling system

The unique Concentric Air System (CAS) cooling concept utilizes a high-performance fan to pull in cold, dense air, accelerate it over the concentrically-formed hood and press it through the radiator. With its own hydrostatic drive, the CAS can always deliver ideal cooling power to each component, according to need and independent of engine speed. Performance is improved with less wear on components.

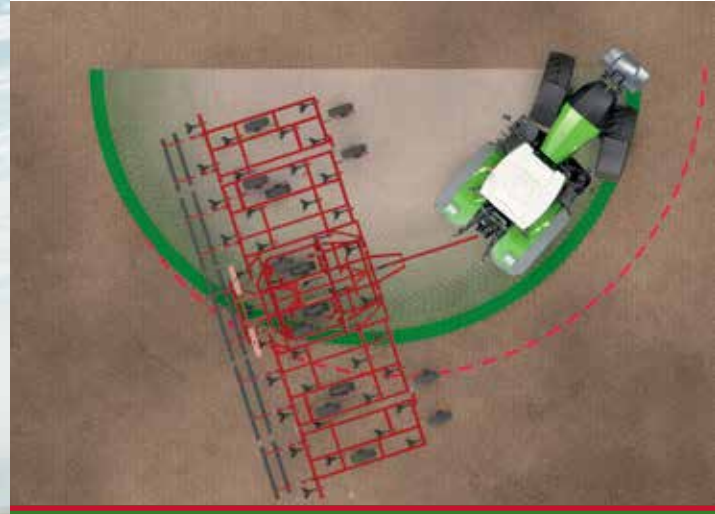


Coolant level and air filter contamination are monitored and can be viewed right on the Varioterminl™.



Selective Catalytic Reduction (SCR) exhaust technology eliminates the need for a diesel oxidation catalyst (DOC) or diesel particulate filter (DPF), minimizing maintenance and downtime.

The six-cylinder, 12.4-liter displacement, MAN engine is ideal for heavy draft work, delivering an impressive 1,770 ft. lbs. of torque at 1,100 RPM.



Pull-in-turn effect

The variable 4WD in the Fendt 1000 Vario has no fixed drive ratio, so the front-wheel drive will actively pull the tractor into a curve. This pull-in-turn effect reduces the turning circle in the field by up to 10%, providing greater maneuverability and efficiency, while also reducing wear on the tires.

FENDT VarioDrive™ > THE NEW DRIVETRAIN.

The stepless Vario™ transmission has been setting worldwide standards in tractor drives for more than 20 years. Now, a newly developed, comprehensive drivetrain with variable four-wheel drive takes the Fendt 1000 Vario even higher.

Fendt Vario means stepless, dynamic driving with plenty of pulling power for speeds from 65 ft./hr. to 31 mph. The new drive on the Fendt 1000 Vario was specifically developed to deliver high engine power in any situation, independent of ground conditions, while keeping speeds especially low. The Fendt VarioDrive is the first drivetrain that drives both axles independently.

Next-Level Traction

During field operations, torque is transferred flexibly to the axle, resulting in tremendous pulling power. As speed increases, a clutch completely decouples the front axle drive at approximately 15.5 mph, eliminating drag losses in the drivetrain while increasing efficiency.

Intelligent 4WD means unmatched power

Fendt VarioDrive enables a variable four-wheel drive and distributes torque over two transmission outputs, independently on both axles. With Fendt torque distribution, torque can be shifted between the axles based on need or field conditions, with the help of an intelligently-controlled four-wheel clutch. The result is tremendous pulling power with very efficient operation.

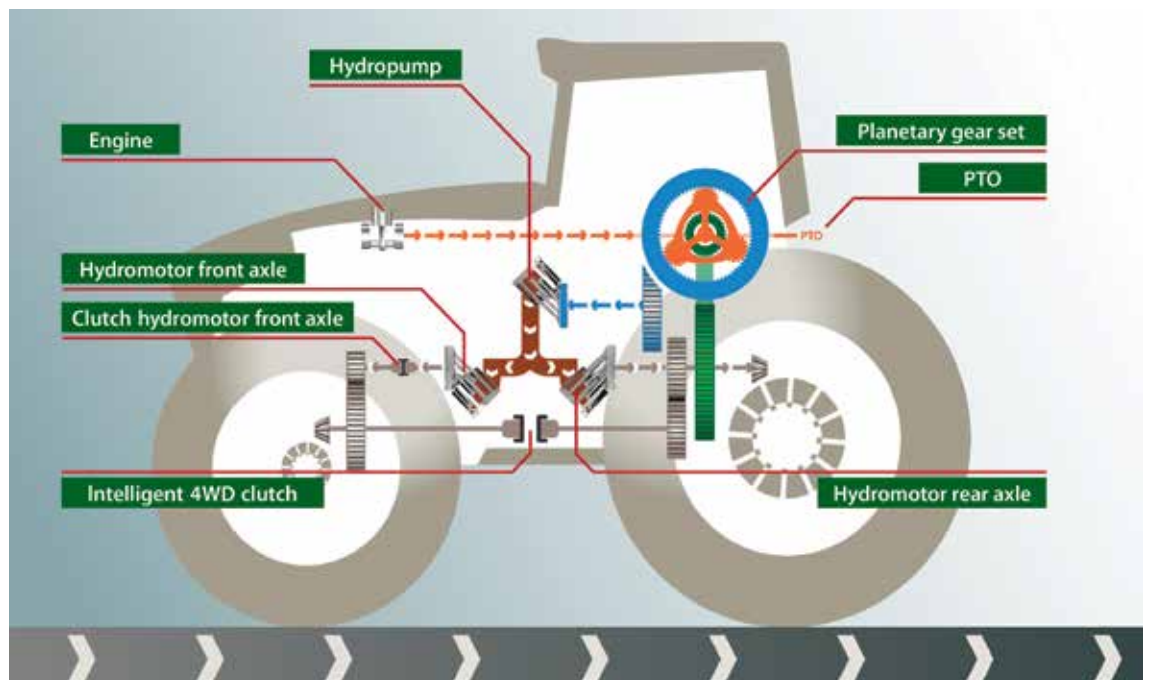


VarioDrive drivetrain — a leader in power distribution

The new driveline design enables ideal torque distribution on both the front and rear wheels with a drive unit based on a hydraulic pump and two hydraulic motors. The first hydraulic motor supplies the rear axle with continuous torque via hydrostatic-mechanical power splitting, from 65 ft./hr. to 31 mph. The second hydraulic motor serves the front axle. Through feedback to the rear axle, from the ground or through the intelligently controlled four-wheel clutch, the front axle drive also becomes part of the hydrostatic-mechanical power splitting.

Power distribution through Fendt torque distribution

Flexible torque distribution of the variable four-wheel drive is achieved through a T-piece located between the hydraulic pump and the hydraulic motors for the front and rear axles. It acts as a hydrostatic differential between the axles, permitting freely-adjusted oil flow between the pump and hydraulic motor. This eliminates tension and reduces friction. Torque can be automatically shifted from one axle to the other via the intelligently-controlled four-wheel clutch, eliminating drag and increasing efficiency.



With a modular hydraulic system designed to handle all coupling sizes, the Fendt 1000 Vario can operate countless implements. It delivers the perfect oil pressure and oil flow for several operations at the same time.

Versatile coupling system

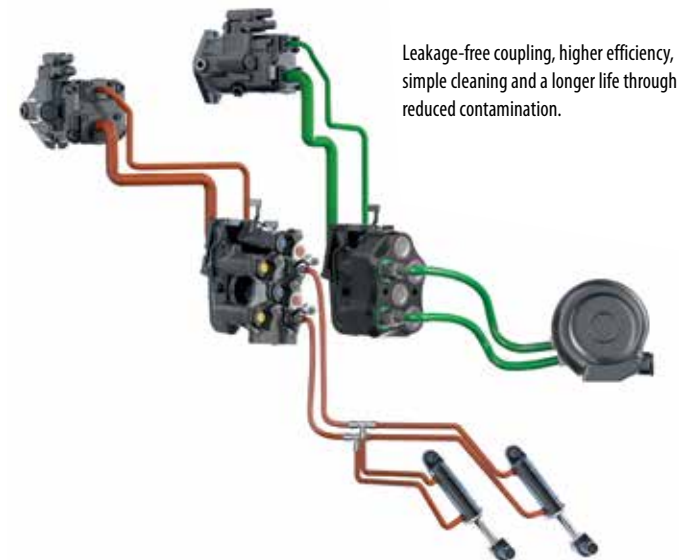
The flexible coupling housing permits use with different coupling sizes: 1/2", 3/4" and 5/8" Flat Face Coupling (FFC). The twin pump option allows the third and fourth valves to independently deliver a high flow volume of up to 45 GPM with the 3/4" or 5/8" couplings. All connections can be coupled under pressure on both sides.

Twice as strong

In addition to load-sensing pumps with a delivery rate of 43.6 GPM or 58 GPM, the Fendt 1000 Vario can handle especially high demands with high-capacity hydraulics that provide 113.5 GPM. There are two independent circuits. One pump delivers 55.5 gallons, while a second pump delivers 58 gallons. These two pumps can be controlled with up to six double-acting valves at the rear and one double-acting valve in the front, to supply oil to multiple operations at the same time.

Oil flow according to need

Both control pumps supply the ideal oil volume and correct pressure through their own individual oil circuit. For example, a blower on a pneumatic seed drill requires high flow but low pressure, whereas components such as steering, linkages, chassis or markers demand high pressure with a low flow rate, at the same time.





The perfect operating ergonomics for the job at hand

The 10.4-inch Varioterminal™ provides user-friendly, easy-to-navigate menus and simple, practical-touch technology. All functions are completely integrated in one terminal — tractor and implement controls, camera functions, documentation and automatic steering system. And all function using the same operating logic.

Fendt SectionControl guarantees that there is no overlapping

With fully automatic SectionControl, you can always plant seeds, spread fertilizer or apply pesticides precisely in the right spot. This prevents double treatment and distances are automatically maintained. With the aid of the SectionControl assistant, you can set the correction values for each implement quickly, easily and precisely from the very beginning, which automatically results in economical application.

Fully integrated guidance system

Fendt VarioGuide™ is the most open, fully-integrated guidance system on the market. Choose a NovAtel® or Trimble® receiver, with multiple supported correction signals, depending upon the receiver. And always count on highly reliable and accurate driving in the field.



Functions for ISOBUS-capable implement control and headland management can be assigned to the multifunction joystick.



Easily navigate through or change menus in the VarioTerminal by using either the touch screen on the monitor or the navigation buttons.



The Variotronic^{cl} headland management system allows the operator to save all the procedures used when performing a specific maneuver. Variotronic^{cl} automatically triggers the sequences at precisely the right place.



Fendt VarioDoc brings your office online by allowing you to record all field data in real time.



FENDT

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Technical specifications **FENDT 1000 VARIO**

Fendt 1000 Vario		1038	1042	1046	1050	
Engine	Constant Power ECE R24 (1,500 RPM to 1,700 RPM)	(kW/PS)	279/380	309/420	338/460	368/500
	No. of cylinders / cooling		6 cylinder / water			
	Cylinder bore / stroke	mm	126/166			
	Displacement	L	12.4			
	Rated speed	RPM	1,700			
	Max. torque (1,450 RPM)	(ft. / lbs. / Nm)	1,379 / 1,870	1,512 / 2,050	1,645 / 2,230	1,770 / 2,400
	Torque rise	%	17% based on 1,700 RPM			
	Diesel Tank capacity	(gal. / L)	211 (800)			
	DEF capacity	(gal. / L)	22/58			
	Oil change interval	Operating hours	500			
Transmission / PTO	Type / model		Stepless VarioDrive transmission /TA 400			
	Speed range forward / reverse	km/h	65 ft. / hr. to 31 MPH / (20 m/h to 50 km/h) 0.01 to 21 MPH / (0.02 to 33 km/h)			
	Rear PTO		1000 / 1000E			
Hydraulics	Type of control		Electrohydraulic Power Lift Control (EPC) with shock load stabilizing and standard load compensation			
	Hydraulic pump capacity	(GPM / L / min)	1 pump: 43.6 / 165, 58 / 220 2 pumps: 113.5 / 430 (55.5 / 210 + 58 / 220)			
	Aux. control valves, max. rear / front		6 / 1			
	Flow volume control valves	(GPM / L / min)	High flow volume of 36.9 / 140 std. Opt. 3. and 4. valve with 44.9 / 170			
	Max. lift capacity, rear linkage thru full lift range 24 in. behind hitch point	(lbs. / kg.)	16,890 / 7,661			
	Max. lift capacity, front linkage	(lbs. / kg.)	12,553 / 5,693			
Brakes	Four-wheel braking system		Dual-circuit four-wheel braking system with 4WD, with/without steering brake			
Weights / dimensions	Unladen weight (basic tractor – tanks full, without driver)*	(lbs. / kg.)	30,666 lbs. (13,910 kg.)			
	Max. perm. overall weight	(lbs. / kg.)	50,706 lbs. (23,000 kg.)			
	Wheelbase	(in. / mm)	130 / 3,300			
	Overall length with standard tires with comfort ballast pick-up and rear linkage horizontal	(in. / mm)	242 / 6,157			
	Overall height comfort cab w/o VarioGuide	(in. / mm)	140.5 / 3,570			

*Weight includes IF650/65R38 and IF750/75R46 tires with a rear flange axle.
**Overall length and height is with IF650/65R38 and IF750/75R46 tires