Since their introduction in 1998, more Fendt® 700 Series Vario tractors with Vario® CVT (continuously variable transmission) have been sold than any other series for tractors with CVT technology. Now into its third generation, the performance of the basic tractor has been improved and the model range has been expanded upwards with a new top model, the 718 Vario. These all-around versatile performers are available with maximum engine powers ranging from 130 horsepower and 180 horsepower.
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Fendt 712 Vario 130 hp 96 kW
Fendt 714 Vario 145 hp 107 kW
Fendt 716 Vario 165 hp 121 kW
Fendt 718 Vario 180 hp 132 kW

Maximum power acc. to ECE R24
High productivity starts with low costs per hour

**Low costs per hour**

When comparing the actual costs involved in investing in a tractor, it is important to consider the overall costs and operating costs per hour or acre. These include fuel consumption, which is the single greatest factor amounting to more than 50% of costs, write-off including resale value, servicing, repairs and miscellaneous costs such as insurance or housing.

**One joystick replaces several levers**

The multifunction joystick, which incorporates hydraulic, PTO and 3-point hitch operations, allows the operator to steplessly accelerate the 700 Series Vario tractors from a standstill to the desired speed. Move the joystick in the opposite direction and the tractor decelerates. Stepless speeds range from 0 to 32 mph (0-50 km/h) forward and 0 to 25 mph (0-40 km/h) reverse — without the need for creeper gears.

**Superior productivity - the added-value of a stepless drive**

<table>
<thead>
<tr>
<th>Farm type</th>
<th>Acres</th>
<th>Operating time</th>
<th>Fuel saved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed production</td>
<td>123.5</td>
<td>-2.7%</td>
<td>-6.5%</td>
</tr>
<tr>
<td>Forage production</td>
<td>123.5</td>
<td>-6.8%</td>
<td>-8.7%</td>
</tr>
<tr>
<td>Cash crop production</td>
<td>123.5</td>
<td>-4.4%</td>
<td>-6.5%</td>
</tr>
</tbody>
</table>

Sample calculation, based on fuel consumption data for a Fendt Vario and a competitor’s tractor, which appeared in the European farm equipment magazine Top Agrar 12/2004. (Competitor’s fuel consumption is 1.16 g/h (4.4 L/h) more than Fendt’s). Calculations based on a diesel price of 1 euro per liter and 7000 operating hours in 10 years.

**Powerful all-rounder**

Compared to the previous models, the third generation of the 700 Vario has been improved in all essential areas and has been expanded to include a new top model, the 718 Vario. The lift capacity of the rear 3-point hitch has been boosted in all models and axle load has been increased to provide enough payload reserves for the most modern implements. Furthermore, all 700 Varios can now accommodate 42” and 46” tires on the rear axle.

The success of modern agriculture depends on economical operation and optimized production procedures — with versatile mechanization taking the lead. With the 700 Series, Fendt offers a highly productive machine that can efficiently and economically handle virtually any job on the farm or ranch.
Excellent power-to-weight ratio of 79 lbs/hp (36 kg/hp)

High payload reserves thanks to permissible gross weight of 27,558 lbs. (12,500 kg) (718 Vario) or 25,353 lb. (11,500 kg) (712 - 716 Vario)

Increased lift capacities on the rear 3-point hitch

38", 42" & 46" rear tires available on all models (712 to 718)

Latest high-horsepower tractor technology for the drivetrain ensures low operating costs

Low variable costs through low fuel consumption (195 g/kWh for 716 Vario and 718 Vario)

Higher productivity and profitability in the overall cost calculation

Basic equipment or fully equipped?

In the basic version, the 700 Vario is equipped with all the main Variotronic features. Optionally you can configure the 700 Vario with all the enhanced functions. With TMS and Variotronic Ti, you can upgrade the 700 Vario to the level of the most modern high horsepower tractors. The steering assist system, Auto-Guide, which permits exact pass-to-pass driving, independent of visibility conditions and implement width, can also be installed on the 700 Vario.

Impressive profitability

An excellent return on investment is the key benefit of Fendt tractors. The initially higher purchase price is offset by higher performance and lower fuel costs during every hour of operation. An additional plus in the overall profitability calculation is the high resale value of a Fendt. Benefit from the exceptional overall profitability of the Fendt 700 Series!
Longer work hours and increased usage, due to greater versatility, call for a tractor that provides optimum working conditions and increased comfort to combat fatigue. Fortunately, the quiet roomy cabs on the Fendt 700 Series tractors feature excellent ergonomics and plenty of space, visibility and comfort to improve productivity.

A premium class workplace: the 700 Series operator's station

The multiple-award-winning Fendt Varioterminal offers you simple and logical controls. It makes simple applications even easier and also aids the experienced operator during complex operations. This is where you make fine settings to all the EPC and hydraulic control valve functions, program engine speeds and the cruise control memories and adapt the automatic maximum output control to your work. These settings can be saved permanently for four different operations or implements. Plus, the Varioterminal contains an on-board computer that logs all important parameters such as the distance driven or area worked and provides a fuel consumption indicator as standard equipment.

Ideal working position

The more comfortable the working environment, the better the operator can concentrate on the job. Consequently, the 700 Series tractors come standard with an air suspension seat that can be adjusted to virtually any height and weight requirement; a tilt and telescopic steering column, and an integral active charcoal layer for climate control. The Fendt Super Comfort Seat, which features a low-frequency suspension, is also available as an option.
All tractor operating controls are conveniently located to the right of the operator where they’re within easy reach. Integrated into the armrest are the multifunction joystick, a crossgate lever for controlling two hydraulic valves, the speed memory keys and controls for setting the TMS system. Integrated into the side control console are the EPC and PTO controls, as well as the keypads for various functions including the power front axle, the differential lock, and more. Mounted at the front of the console, where it’s easy to see, is the Varioterminal. Among its many talents are implementing and monitoring fine setting to the hydraulic system and transmission.

The instrument cluster on the steering column provides all required speed readouts, as well as the operating status of vital functions, including engine temperature, fuel level and ground speed.

- Uncluttered, well-organized cab design that concentrates on the essentials
- Extremely quiet workplace; vertical exhaust is isolated from the cab
- Excellent ergonomics and logical controls
- Height and tilt-adjustable steering wheel
- Easily engaged controls with automatic modes for 4WD, differential locks and PTO
- Varioterminal for fine settings
- TMS and Variotronic TI available as option
- Fold-down instructor’s seat
Operating comfort that you will appreciate more with every working hour

Fendt has received many international awards for the Variotronic operating concept. Comprised of the multi-function joystick, Varioterminal and control console, the Variotronic system is renowned for its simple, ingenious operation. For you, this means greater economic benefits and higher productivity in practical use.

Simple, intelligent operation
In the basic version, 700 Vario tractors already offer a host of automatic modes that execute your work with the touch of a button. Examples include automatic PTO engagement, which automatically engages and disengages dependent on the 3-point hitch lift height, and 4WD and differential lock engagement, which is speed and steering angle dependent.
**ISOBUS implement control**

With the standard-equipment Fendt implement control system, you have convenient control of all ISO and LBS implements with the joystick and Varioterminal. Cab clutter is reduced because there’s no need for a separate control terminal for each implement, which means you save money on equipment you don’t need while profiting from the simple operating logic and optimum ergonomics that are available with Fendt implement control.

**Variotronic TI headland management system**

Fendt 700 Series tractors are available with the optional TMS Tractor Management System and the Variotronic TI Headland Management System, allowing you to carry out your work easier and more comfortably. Whether you are a beginner or professional, with these systems you easily perform your work at maximum efficiency and have more time to monitor your implements.
Whether you use a tractor primarily for field applications, loader work or transport, overall profitability is crucial. Fortunately, the 700 Series Vario tractors deliver awesome torque while meeting all current emission standards — all at higher fuel efficiency levels than the previous model.

Powerful and economical
In the light of increasing diesel prices, fuel economy becomes of major importance. In the 700 Series, Fendt employs a high-tech six-cylinder Deutz engine with four-valve technology for greater economy. A speed-independent, common rail high-pressure fuel injection system and fully electronic engine control are standard equipment.

780 Nm torque, 180 hp (134 kW) max. power at 1900 rpm and a specific fuel consumption of 195 g/kW for the 718 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 and saves you up to 10 percent in fuel.

A fuel consumption display is integrated into the Varioterminal on 700 Series tractors as standard equipment. This shows the current, as well as average fuel consumption, and has two sum counters. Fuel consumption per acre can also be logged at the same time in the on-board computer.

The efficient cooling package design not only provides maximum cooling, but allows maximum efficiency. It also allows the cooling units for hydraulic oil, transmission oil, fuel and air-conditioning to be swung away from the radiator for better access and easy maintenance.
External EGR 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 optimizes the combustion process significantly. The benefit in comparison to a simple, internal exhaust gas recirculation system is substantially lower fuel consumption.

Fully approved for biodiesel (RME)

Fendt 700 Series Vario tractors are approved for biodiesel up to B100 [RME (rape methyl ester) according to DIN EN 141214] as are all Fendt tractors built since 1995. With Fendt tractors, there is no conversion expense to begin using B100.

- 4-valve engine with 6.1 L displacement: 180 HP (134 kW) max. power at 1900 rpm (ECE R24) and 575 ft. lbs. (780 Nm) torque (718 Vario)
- Common rail high-pressure fuel injection system with injection pressures up to 23,206 lbs./sq. in. (1,600 bar)
- Electronic engine control EDC 7
- External exhaust gas recirculation system for lower fuel consumption and best environmental compatibility
- Viscous fan for optimum engine cooling
- Low specific fuel consumption of 21.84 h/gal (195g/kWh) for 716 Vario and 718 Vario
- 89.8 gallon (340 L) tank capacity for long workdays
- Servicing interval every 500 operating hours
- Unrestricted use of biodiesel to B100 (RME DIN EN 14214)
Experience the Vario advantages on the road, in the field and at the fuel tank

The productivity of a tractor, and the corresponding return on investment are determined in large part by fuel consumption. But an economical engine is only part of this productivity equation. It’s just as important to maintain the engine at its economical optimum rpm level while covering as many acres as possible. That’s no problem with the Vario® continuously variable transmission drive concept from Fendt.

Uncompromising in all applications
This kind of flexibility is only possible with a Fendt Vario transmission. Whether the job calls for 100 feet per hour (30 m/h) or 32 mph (50 km/h) the Fendt Vario provides the exact speed you need over the entire range, without steps. Consequently, the 700 Series Vario tractors are ideally suited for professional hay and forage applications, as well as for heavy-duty fieldwork or row crop operations in large farming businesses.

### Operations
<table>
<thead>
<tr>
<th>Operations</th>
<th>Operating Time</th>
<th>Fuel Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mowing</td>
<td>-10 %</td>
<td>-10 %</td>
</tr>
<tr>
<td>Chopping corn silage</td>
<td>-10 %</td>
<td>-10 %</td>
</tr>
<tr>
<td>Harvesting potatoes</td>
<td>-5 %</td>
<td>-10 %</td>
</tr>
<tr>
<td>Harrowing /drilling</td>
<td>-5 %</td>
<td>-10 %</td>
</tr>
<tr>
<td>Weeding</td>
<td>-5 %</td>
<td>-10 %</td>
</tr>
<tr>
<td>Ripping</td>
<td>-3 %</td>
<td>-3 %</td>
</tr>
<tr>
<td>Plowing</td>
<td>-3 %</td>
<td>-3 %</td>
</tr>
</tbody>
</table>

The savings potential for various working procedures is clearly noticeable. You save valuable hours of labor by covering more area in less time, while benefitting from lower fuel consumption.

Source: Nürtigen University

Fendt Vario CVT - better than powershift. It allows you to use power reserves that are not even available with modern powershift transmissions.

Economical operation is automatic with the standard equipment TMS Tractor Management System.
When TMS (Tractor Management System) is activated, the tractor electronics control the engine and transmission. This significantly increases operating comfort for the operator. The operator only needs to set the desired speed; TMS controls the rest. The diagram above shows that the tractor operates at a reduced engine speed on level ground.

On the slope, the load increases, so TMS increases the engine speed. As soon as the load decreases (on level ground or downhill), the quantity of fuel injected is reduced. This maintains an economical driving style, since TMS operates the tractor at the lowest engine speed possible.

The diagram shows the following components:
1. Torsional vibration damper
2. Planetary gear set
3. Ring gear
4. Sun wheel
5. Planet carrier
6. Hydro pump
7. Hydro motor
8. Collecting shaft

Operations | Operating Time | Fuel Consumption |
Mowing      | -10 %          | -10 %           |
Chopping corn silage | -10 %          | -10 %           |
Harvesting potatoes | -5 %           | -10 %           |
Harrowing /drilling | -5 %           | -10 %           |
Weeding     | -5 %           | -10 %           |
Ripping     | -3 %           | -3 %            |
Plowing     | -3 %           | -3 %            |

12

Experience the Vario advantages
on the road, in the field and at the fuel tank

The productivity of a tractor, and the corresponding return on investment are determined in large part by fuel consumption. But an economical engine is only part of this productivity equation. It’s just as important to maintain the engine at its economical optimum rpm level while covering as many acres as possible. That’s no problem with the Vario® continuously variable transmission drive concept from Fendt.

Uncompromising in all applications
This kind of flexibility is only possible with a Fendt Vario transmission. Whether the job calls for 100 feet per hour (30 m/h) or 32 mph (50 km/h) the Fendt Vario provides the exact speed you need over the entire range, without steps. Consequently, the 700 Series Vario tractors are ideally suited for professional hay and forage applications, as well as for heavy-duty fieldwork or row crop operations in large farming businesses.
Maximum working efficiency with optimum fuel consumption

Up to 10 percent more area coverage thanks to optimally adjusted travel speed

Top speed of 31 mph (50 km/h) at a fuel-saving 1,700 rpm

Up to 10 percent fuel savings

Super creeper gears included (from 100 ft./h; 30 m/h)

Operated using the joystick instead of several levers

Turboclutch feature for greater operating comfort

Stepless reversing of travel direction (shuttle shifting) without wear

Stop-and-go feature

Fendt Vario: better than powershift

With stepless variable speed, you’re able to use power reserves that are not even available from modern powershift transmissions. With conventional transmissions, you often have to settle for one gear too high or too low because of the steps between gears. Vario CVT allows you to mobilize the power reserves that are hidden in between the steps. That means power flow without interruptions.

Special equipment included

In addition to the economic benefits, the stepless drive also offers you a one-of-a-kind benefits in ride comfort. A creeper gearbox is no longer necessary, since it is integrated into the Vario drive. To increase driving comfort, the 700 Series tractors also have a turboclutch feature, which prevents engine stalling.
The Fendt 700 Series Vario tractors represent further development of the most successful mid-sized tractor range with stepless drive. The result is enhanced performance. The 700 Series now offers four models ranging from 130 to 180 (96 to 134 kW) maximum engine horsepower.

1. Front drive axle with 52° steering lock
2. Hydropneumatic front axle suspension with level control and 2 cylinders (lockable)
3. Front 3-point hitch (optional)
4. Front PTO (optional)
5. Planetary final drives
6. 6.06-liter Deutz engine with 4-valve technology
7. Intercooler
8. AGRex external exhaust gas recirculation system
9. Stepless Vario transmission
10. Planetary gear set
11. Hydraulic motor
12. Hydraulic pump
13. Enclosed 4-WD clutch
14. Nitrogen pressure accumulator (suspension)
15. 89.8-gallon (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 suspension uses silent block bearing
21. Mechanical cab suspension
22. Air-sprung Fendt comfort seat and seatbelt
23. Multi-function joystick for controlling the stepless Vario transmission
24. Varioterminal
25. Auxiliary work lights
Fast transport with maximum comfort, payload and operator control

Even for mid-sized tractors like the 700 Vario Series, the transportation of materials for custom work and wide-spread farm operations is gaining importance every day. Studies show transport operations may amount to more than 40 percent of tractor operating hours. The 700 Series tractors allow you to transport loads or equipment at 32 mph (50 km/h) at a fuel-saving 1,700 rpm while providing maximum ride comfort and operator control.

Control and comfort, even with high payloads
A rugged cast half-frame, which enables a permissible gross weight of 23,000 lbs. (10,432 kg), carries the load on the Fendt 700 Vario (27,557 lb. (12,500 kg) for the 718 Vario). The permissible axle loads were also increased compared to the previous model. This provides ample payload reserves for heavy-duty implements. But high transport loads must also be slowed down quickly as traffic and terrain demand. On the 700 Vario this is ensured by a
- 31 mph (50 km/h) transport speed at reduced engine speed (1,700 rpm)
- EPC with shock load stabilization
- Maximum operator control and ride comfort
- Mechanical cab suspension for ride comfort (standard), optional pneumatic cab suspension
- Front axle suspension with level control and locking function that permits front-mounted implements to be guided precisely
- Top efficiency braking system: Wet, integral multi-disc brakes
- Rugged cast frame design

practically maintenance free braking system, comprised of two integral multi-disc brakes for the rear wheels and a disc clutch on the cardan shaft for the front wheels. The front axle with level control, a benefit in terms of ride comfort, also contributes superior operator control. For easier mounting and for precise guidance of front-mounted implements, the suspension can be locked with a push of a button.

Cab suspension for maximum comfort
The 700 Series cab is equipped with a manual cab suspension system as a standard feature. Hydraulic suspension in the front and sprung struts with an integral lateral stabilizer at the rear, keep annoying shock loads and movements away from the cab. The optional pneumatic cab suspension system provides even greater suspension and working comfort, keeping the operator comfortable and productive during long workdays.
Whether you use a tractor for cultivation or hay and forage operations, soil compaction can be a major issue. Fortunately, with the appropriate tires, you can greatly reduce soil compaction. However, it is even easier if the tractor has a low weight to power ratio. With the 700 Series tractors, you profit from an advantageous tractor weight and a broad selection of tire options. If required for the application, there are also variable ballasting options.

Row-crop pro with payload reserves
With an unladen weight of 13,602 lbs. (6,170 kg) (712) or 14,451 lbs. (6,555 kg) (714 - 716), 700 Series tractors are the perfect choice for row-crop applications. A low weight-to-power ratio of 81.6 lbs./hp (37 kg/hp) (Model 718), contributes to its nimble and responsive handling. Yet, a permissible gross weight of 25,353 lbs. (11,500 kg) or 27,558 lbs. (12,500 kg) (718) provides ample payload reserves for heavy implements.

A 52° steering angle, along with a wheel base of 107 inches (2,720 mm) ensure a turning circle of only 18 feet (5.6 m), which makes 700 Series tractors extremely maneuverable. A 52° steering angle, along with a wheel base of 107 inches (2,720 mm) ensure a turning circle of only 18 feet (5.6 m), which makes 700 Series tractors extremely maneuverable.

Since the application of fertilizer and pesticides in late growing stages can increase yield, the 700 Series tractors are designed to accommodate row-crop tires, providing plenty of ground clearance.

Minimum soil compaction is essential in both row-crop and forage production operations. Tire widths for 700 Series tractors go up to 600/60 R28 front and 710/60 R38 rear or 600/60 R30 front and 710/60 R42 rear. This provides the minimum possible ground pressure from a conventional wheel and tire configuration.

Intelligent 4WD and differential lock technology
Depending on the mode selected, 4WD and differential locks can be automatically engaged and disengaged based on steering angle or speed. If you choose 100% 4WD or 100% differential locking, these are engaged permanently. Both functions can be engaged and disengaged under load, in automatic as well as 100 percent modes.
• Advantageous unladen weight of only 13,602 lbs. (6,170 kg) (712 Vario)
• Excellent power-to-weight ratio of 81.6 lbs./hp (37 kg/hp) (718 Vario)
• High payload up to 13,106 lbs. (5,945 kg) (718 Vario)
• Large row-crop tires are available
• Ideally suited for row-crop work, thanks to the stepless drive which starts at 98 ft./hr. (30 m/hr)

Tires for every application
While developing the 700 Series tractors, Fendt engineers understood the need to offer a broad selection of tires. This why Fendt provides multiple tire options from 480/85 R 42 for crop production to 650/85 R 38 tires for optimum soil protection.

Short, compact and agile
The well thought-out design of the 700 Series tractors ensures maximum maneuverability for any job. A total length of 15.3 feet (4.66 m) (15.5 ft./4.73 m for 718), a wheelbase of 8.9 feet (2.72 m) and a 52 degree steering angle result in a turning circle of only 18 feet (5.5 m). That translates into tight turning maneuvers that will save you time at the headlands.

• Wheelbase: 8.9 ft. (2.7 m)
• Turning circle: 18 ft. (5.5 m)
• Electrohydraulic engagement for 4WD and differential lock, can be actuated under load
• 100% locking differential on rear axle
• Automatic front differential lock
Powerful drives at the front and rear

You will appreciate the operating comfort of the Fendt 700 Series tractors, especially for tillage applications, where you often must operate the PTO controls in addition to the controls for the hydraulics or 3-point hitch. The 700 Series offers you extensive, high-quality PTO management with start-up control.

Three-mode rear PTO is standard
The PTO engagement control allows preselection any of three PTO operating modes that best fit a given application. Conveniently operated with switches on the control console. The 700 Series tractors provide standard 540 rpm PTO, 540E mode that provides 540 rpm at fuel-saving reduced engine rpm and standard 1000 rpm rear PTO.

Standard with flange PTO
The 700 Vario is fitted with a flange PTO as standard equipment. When required, you can switch between different PTO options easily and in a relatively short amount of time.

Front PTO with excellent efficiency
1000 rpm optional front PTO with excellent efficiency, since the PTO is driven directly from the engine’s crankshaft.

Save yourself unnecessary steps
Rear fender controls for the rear 3-point hitch and a rear PTO shut-off are available for the 700 Vario, allowing you to easily mount rear implements and to save unnecessary steps.

Minimize the risk of drive shaft damage
Concentrate on the essentials at the headlands. The standard-equipped PTO automatic mode engages and disengages the PTO as soon as you lower or raise the implement.

Front PTO with excellent efficiency
1000 rpm optional front PTO with excellent efficiency, since the PTO is driven directly from the engine’s crankshaft.
Automatic modes
The PTO automatic mode is also standard on the 700 Series tractors. After being activated with the push of a button, it automatically engages and disengages the PTO, depending on the lifting height of the 3-point hitch. The electrohydraulic PTO engagement can even be stopped externally from the rear fender.

Three-mode PTO with comfort controls, start-up control
Flange PTO at rear is standard
PTO actuation with start-up control
PTO automatic mode (automatic engagement dependent on height of lifting gear)
External PTO actuation at the rear
External PTO engine speed control (together with TMS)

Highly efficient front PTO
The optional front PTO is driven directly from the engine to provide an efficient transfer of horsepower to front mounted implements. You have the choice of 540 rpm or 1000 rpm. The automatic PTO start-up modulates engagement according to the power requirements of the implement. You benefit from the longer life of all the PTO components as well as reduced machine costs.
Powerful hydraulics for heavy implements and demanding applications

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 700 Series tractors, with their load-sensing hydraulics and electrical hydraulic valves, are well-equipped for convenient operation.

Powerful hydraulic system
Fendt 700 Series tractors are equipped with a load-sensing hydraulic system. That means modern axial piston pumps deliver the exact quantity of hydraulic oil required up to 29 gallons (110 L) per minute. A maximum of 11.9 gallons (45 L) of hydraulic oil is available to mounted or trailed implements. The hydraulics and transmission also have separate oil supplies.

Electrical valves: first-rate working and operating comfort

The joystick and the crossgate lever control the electric proportional valves. These are all double-acting control units, which can also be used in a single-acting capacity, and feature a floating position. The controls for the first two valves are located on the convenient crossgate lever. Setting the valve functions with the Varioterminal is simple. Using the rotary control and function keys, you can easily and precisely control the flow rates and actuation times of all electric proportional valves, set valve priority or activate external actuation for a valve.

Optional: first-rate front 3-point hitch
The optional front 3-point hitch lift on the 700 Series tractors is an integral part of the tractor design and has been well engineered in every detail. As an example, the top link can remain on the tractor, even when not in use.

Powerful EPC rear 3-point hitch with double-acting function
The standard-equipment EPC rear 3-point hitch can be switched to double-acting operation by moving just one lever. Using the down force from the rear 3-point hitch, mounting dual wheels is significantly easier.
EPC rear 3-point hitch with reserves
The electrohydraulic rear 3-point hitch, which has a maximum lift capacity of 12,233 lbs. (5,548 kg) (20,411 lbs/9,258 kg for the 718), guarantees that in practical operation even heavy rear-mounted implements designed for this power class can be easily lifted to the full lift height. Meanwhile, the standard-equipment shock load stabilization counteracts tractor bounce by actively raising and lowering the 3-point hitch.

Load-sensing hydraulics
Hydraulic delivery capacity: 29 gallons/min. (110 L/m)
Hydraulic oil cooler
Maximum lift capacities:
Rear: 12,233 lbs (5,548 kg)  
20,411 lbs (9,258 kg for 718)
Front: 5,520 lbs (2,500 kg) (optional)
EPC rear 3-point hitch with-
- shock load stabilization
- quick lift
- lift height limiter
- lowering throttle
- position, draft and mixed control
- external actuation

Integral front 3-point hitch (optional), with gas shock absorbers
Electric hydraulic valves (optional with external actuation)
Crossgate lever
Maximum available hydraulic oil quantity: 11.9 gallons (45 L)
Bio-oils can be used for the hydraulics, thanks to separate oil supplies

Integral front 3-point hitch with damping
The optional front 3-point hitch for the 700 Series tractors has a continuous lift capacity of 5,520 lbs. (2,500 kg) and can lift front-mounted implements weighing up to 6,000 lbs. (2,721 kg). The integral gas shock absorbers ensure that operator control and ride comfort are maintained at these high loads.
Front loader operation
like a wheeled loader

The shuttle switch on the steering column allows you to quickly and smoothly reverse driving direction using just one finger. In addition, you profit from the Stop and Go feature with active parking function: If the switch is pressed while moving, the tractor decelerates to a standstill and only starts to move again when the switch has been released.

The standard-equipped crossgate lever provides extra value in operating comfort, since two control valves on the loader can be operated with just one lever.

When working with a silage or bale grapple, a 3rd hydraulic circuit (optional) can easily be actuated with a button on the crossgate lever.

A 700 Vario equipped with an original Fendt front loader permits extremely productive front loader operations. You have the choice between two front loader models; the main difference lies in the lifting cylinder.

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>3SX/70</th>
<th>3SX/75</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Digging depth – in. (mm)</td>
<td>5.51 (140)</td>
<td>5.51 (140)</td>
</tr>
<tr>
<td>B Lifting height – in. (mm)</td>
<td>159.8 (4,060)</td>
<td>159.8 (4,060)</td>
</tr>
<tr>
<td>C Dumping distance - in. (mm)</td>
<td>49.6 (1,260)</td>
<td>49.6 (1,260)</td>
</tr>
<tr>
<td>D Angle of emptying</td>
<td>52°</td>
<td>52°</td>
</tr>
<tr>
<td>E Angle of backwards tilt</td>
<td>43°</td>
<td>43°</td>
</tr>
<tr>
<td>Lift capacity - lbs. (kg)</td>
<td>5,147 (2,334)</td>
<td>6,024 (2,732)</td>
</tr>
<tr>
<td>Break-away force - lbs. (kg)</td>
<td>6,856 (3,109)</td>
<td>8,002 (3,629)</td>
</tr>
</tbody>
</table>

### Turn any 700 Series tractor into a multi-purpose machine with a Fendt front-end loader.

The design and technology of Fendt loaders and Fendt tractors have been continually adapted to each other. During development, focus was placed on operating comfort, control, stability and service-friendliness. When combined with the 700 Series tractors’ ground-breaking operating concept, they ensure maximum loading efficiency along with exceptional operating comfort.

### Maximum productivity and operating comfort

Besides improved control, the systems also offer maximum operating comfort whether operating the loader with the crossgate lever or operating the tractor driving functions. Thanks to the ultimate smoothness and ease of the Vario transmission shuttle shifting and a tight turning circle, you achieve maximum productivity for all your front loader work.

The combination of different suspension systems offers maximum comfort in the cab, even in rough terrain.
Through a specially designed connection between the front loader and the tractor, all maintenance work can be performed on the 700 Series tractors while the front loader is attached.

Further visible evidence of the perfect symbiosis of the tractor and loader is the front window on the tractors, which can be swung out completely at any time during front loader work.

Well-designed concept

The Fendt front-end loader, with its mechanical self-levelling system, provides unparalleled operator control, thanks to a pipe fracture safety feature along with shock load protection and overload valves. Loader stands provide the front loader main beams with a stable stand when it is removed. Plus, mounting and removing the front loader is very easy and can be done without tools.
Every farmer in North America has experienced the effects of stress at one time or another... whether it involved changing implements when you were pressed for time or working long hours without a break during peak seasons. So you already know how the little things can make a big difference. Fortunately, Fendt offers a number of small detail solutions to make life easier day in and day out.

The 700 Series tractors are equipped with rear work lights as standard equipment. The Twin Power work lights are mounted on the left and right side of the cab roof where the high position provides exceptional lighting for rear-mounted implements.

In a matter of minutes and without the use of tools, the lower links on the 700 Series tractors can be set to rigid or swinging position, depending on implement requirements. A rugged, sturdy mechanical lateral lock is engaged and disengaged with levers on the right and left sides. In the unlocked position, the lift arms are automatically centered in the middle position. By moving just one pin, you can change the width of the lower links between Category II and III.

It is virtually impossible to prevent oil from leaking when coupling hydraulic connections. On the 700 Series tractors, however, oil leaks run into the casing, which also serves to protect hydraulic couplings from dirt. The oil is then directed through a hose into an easily accessible container.

Optional super comfort seat Fendt Evolution with seat climate control, seat heater, pneumatic lumbar support and lateral suspension.

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 tractor, 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 operator.

The 700 Vario was designed to give you access to all areas necessary for daily maintenance - even when the front loader is mounted.

Fendt tractors include turn signal lights that automatically shut off when the steering wheel is turned back, just as they do in your car or pickup.

The 700 Vario uses ISOBUS implement control, which is integrated in the Variotronic, as standard equipment. With the 700 Vario, you control ISOBUS 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 various terminals for your implements.

All 700 Series models are available with a wide selection of tires, including wide tires that help reduce compaction and row-crop tires for to fit a wide range of crops and growing practices.

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. Naturally, the cables can be fitted easily, without tools.
At Fendt, we understand that you need more than leading-edge tractor technology to be successful today. That’s why Fendt dealers and sales partners offer a wide range of valuable support services, including high-quality parts, flexible financing, expert diagnostics and more—all from one trusted source.

Competent customer consultations and demonstrations
Fendt dealers and distributors receive regular training and are true 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 more product information and a Fendt dealer locator.

Innovative technology, intelligent services - find it at your Fendt dealer

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

Financial flexibility – AGCO Finance services
Financing through AGCO Finance offers attractive conditions and flexible payment plans, customized to meet your needs.

Experience the Fendt difference with a field test
With Fendt, driving is believing. Once you’ve operated a Fendt, you’ll understand why there’s no other tractor like Fendt in the field for superior performance and comfort.

Genuine Fendt parts - from AGCO Parts
Original Fendt parts are tailored to your Fendt - so that your Fendt remains 100% Fendt. They carry the assurance of series quality and are tested for functional reliability.
Fendt Gold Star Care Plan

The Fendt Gold Star Care Plan covers your new tractor for 3 years or 3,000 hours. The Gold Star Care Plan is a comprehensive service contract that includes each 500-hour service interval during the 3-year period. This will allow you to manage your cost of ownership. Local charges are not covered.
### Technical specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>712 Vario</th>
<th>714 Vario</th>
<th>716 Vario</th>
<th>718 Vario</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated PTO hp(kW)</td>
<td>110(82)</td>
<td>125(93)</td>
<td>140(104)</td>
<td>155(116)</td>
</tr>
<tr>
<td>Rated power hp(kW) (ECE R24)</td>
<td>115(85)</td>
<td>130(96)</td>
<td>150(110)</td>
<td>165(121)</td>
</tr>
<tr>
<td>Max. power hp(kW) (ECE R24)</td>
<td>130(96)</td>
<td>145(107)</td>
<td>165(121)</td>
<td>180(132)</td>
</tr>
<tr>
<td>Max. power hp(kW) (EC 97/68)</td>
<td>136(100)</td>
<td>151(111)</td>
<td>172(126)</td>
<td>186(137)</td>
</tr>
<tr>
<td>No. of cylinders / cooling / aspiration</td>
<td>6 cylinders, four-valve technology / water / turbocharger, intercooler</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injection / engine control / exhaust recirculation</td>
<td>common rail / EDC / external EGR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bore / stroke in (mm)</td>
<td>3.98/4.96 (101/126)</td>
<td>3.98/4.96 (101/126)</td>
<td>3.98/4.96 (101/126)</td>
<td>3.98/4.96 (101/126)</td>
</tr>
<tr>
<td><strong>Transmission and PTO</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of gearbox</td>
<td>Vario CVT</td>
<td>Vario CVT</td>
<td>Vario CVT</td>
<td>Vario CVT</td>
</tr>
<tr>
<td>Speed range: Range I mph (km/h)</td>
<td>Forward 0.01-12.4 (0.02-28), Reverse 0.01-10.6 (0.02-17)</td>
<td>Forward 0.01-11 (0.02-18), Reverse 0.01-9.2 (0.02-15)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range II mph (km/h)</td>
<td>Forward 0.01-31 (0.02-50), Reverse 0.01-16 (0.02-25)</td>
<td>Forward 0.01-28 (0.02-45), Reverse 0.01-14 (0.02-23)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top speed mph (km/h)</td>
<td>31(50)</td>
<td>31(50)</td>
<td>31(50)</td>
<td>31(50)</td>
</tr>
<tr>
<td><strong>Rear PTO Standard:</strong></td>
<td>1,000 rpm, 21 spline 1-3/8&quot; and 540/540E, 6 spline 1-3/8&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulics</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Load Sensing</td>
<td>Load Sensing</td>
<td>Load Sensing</td>
<td>Load Sensing</td>
</tr>
<tr>
<td>Hydraulic pump capacity gpm (L/min)</td>
<td>29.1(110)</td>
<td>29.1(110)</td>
<td>29.1(110)</td>
<td>29.1(110)</td>
</tr>
<tr>
<td>Working pressure psi (bar)</td>
<td>2,900(200)</td>
<td>2,900(200)</td>
<td>2,900(200)</td>
<td>2,900(200)</td>
</tr>
<tr>
<td>Rear 3-point hitch control</td>
<td>EHR, lower link control, shock-load stabilizing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auxiliary valves standard (optional)</td>
<td>2(2) Electric proportional valves with joystick and crossgate control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. lift capacity, rear 3-pt hitch 24” from ball ends lbs(kg)</td>
<td>12,233(5,548)</td>
<td>12,233(5,548)</td>
<td>12,233(5,548)</td>
<td>12,233(5,548)</td>
</tr>
<tr>
<td>Max. lift capacity, front 3-pt hitch 24” from ball ends lbs(kg)</td>
<td>5,520(2,503)</td>
<td>5,520(2,503)</td>
<td>5,520(2,503)</td>
<td>5,520(2,503)</td>
</tr>
<tr>
<td>Max. available hydraulic oil gal (L)</td>
<td>11.9(45)</td>
<td>11.9(45)</td>
<td>11.9(45)</td>
<td>11.9(45)</td>
</tr>
<tr>
<td><strong>Brakes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear brakes</td>
<td>wet, integrated multi-disc brake</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front brakes</td>
<td>wet brakes on cardan shaft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weights and dimensions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unladen weight acc. to DIN 70020 lbs(kg)</td>
<td>14,561(6,605)</td>
<td>14,561(6,605)</td>
<td>14,561(6,605)</td>
<td>15,399(6,985)</td>
</tr>
<tr>
<td>Perm. gross weight lbs(kg)</td>
<td>25,300(11,500)</td>
<td>25,300(11,500)</td>
<td>25,300(11,500)</td>
<td>27,500(12,500)</td>
</tr>
<tr>
<td>Max. payload lbs(kg)</td>
<td>10,879(4,945)</td>
<td>10,879(4,945)</td>
<td>10,879(4,945)</td>
<td>13,079(5,945)</td>
</tr>
<tr>
<td>Overall length in(mm)</td>
<td>183.8(4,669)</td>
<td>183.8(4,669)</td>
<td>183.8(4,669)</td>
<td>187.0(4,753)</td>
</tr>
<tr>
<td>Overall width in(mm)</td>
<td>99.2(2,520)</td>
<td>99.2(2,520)</td>
<td>101.2(2,570)</td>
<td>101.2(2,570)</td>
</tr>
<tr>
<td>Ground clearance in(mm)</td>
<td>21.3(532)</td>
<td>21.3(532)</td>
<td>21.7(552)</td>
<td>21.7(552)</td>
</tr>
<tr>
<td>Wheel base in(mm)</td>
<td>106.3(2,700)</td>
<td>106.3(2,700)</td>
<td>106.3(2,700)</td>
<td>107.1(2,720)</td>
</tr>
<tr>
<td>Min. turning circle ft (m)</td>
<td>18.0(5.5)</td>
<td>18.0(5.5)</td>
<td>18.0(5.5)</td>
<td>18.0(5.5)</td>
</tr>
<tr>
<td><strong>Electrical equipment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Starter hp(kW)</td>
<td>4.0(3.0)</td>
<td>4.0(3.0)</td>
<td>4.0(3.0)</td>
<td>4.0(3.0)</td>
</tr>
<tr>
<td>Battery</td>
<td>12V / 170 Ah / 1,020CCA</td>
<td>12V / 170 Ah / 1,020CCA</td>
<td>12V / 170 Ah / 1,020CCA</td>
<td>12V / 170 Ah / 1,020CCA</td>
</tr>
<tr>
<td>Alternator</td>
<td>200 Amp</td>
<td>200 Amp</td>
<td>200 Amp</td>
<td>200 Amp</td>
</tr>
<tr>
<td><strong>Cab</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>integral, tiltable cell hinged front, side and rear windows, roof hatch,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climate control</td>
<td>ventilation system with inf. adj. blower in roof, hot water heating with three-speed blower, air conditioning</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Standard and optional equipment

#### Vario

<table>
<thead>
<tr>
<th>Vario controls</th>
<th>712</th>
<th>714</th>
<th>716</th>
<th>718</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joystick control (multi-function joystick)</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td>Varioterminal for fine settings</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td>Fuel consumption display</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
</tr>
<tr>
<td>Camera for the Varioterminal</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
</tr>
<tr>
<td>Variotronic implement control for ISO and LBS implements</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td>Variotronic TI - headland management system</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
</tr>
<tr>
<td>Vario TMS engine-transmission management system</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
</tr>
<tr>
<td>Preparation for steering assist system</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
</tr>
<tr>
<td>Steering assist system Auto-Guide with YBS or HP or local base station</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
</tr>
</tbody>
</table>

#### Cab

- Mechanical cab suspension
- Pneumatic cab suspension
- Height and tilt-adjustable steering column
- Fendt Comfort Seat, air sprung
- Fendt Super Comfort Seat, air sprung, low frequency suspension
- Ventilation system with inf. adjustable blower in roof
- Air-conditioning
- Rear window wash/wipe
- Mechanically width-adjustable side view mirror
- Twin Power roof work lights rear, front
- Work lights A-pillar, rear mudguard
- Work lights Xenon A-pillar, rear mudguard
- Monitor mounting frame
- Battery disconnect switch (electric)

#### Engine

- Zyklon precleanser
- Fuel filter
- Preheater package (engine, transmission, hydraulic oil)
- Engine brake

#### Transmission

- Turboclutch, automatic maximum output control, cruise control
- Shuttle gear function, stop and go function
- Back up Alarm

#### Chassis

- Shock load stabilizing EPC
- Front axle suspension with level control
- Compressed air system

#### 4WD/differential locks

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

#### PTOs

- Rear: Flange PTO 540/540E/1000 rpm
- Front: 1000 rpm
- PTO engagement control, electrohyd. preselection
- External deactivation of rear PTO

#### Hydraulics

- Load sensing system with axial piston pump, hydraulic oil cooler
- Electrohydraulic 3-pト hitch double-acting (EPC), with external controls
- Hydraulic rear top link

#### Additional equipment

- Swinging drawbar
- Rotating beacon
- Exteriority Lights
- Pivoting Front Fenders
- Wheel weights, rear wheels
- Front weights, various sizes
- Front ballasting without front 3-pt hitch 1270 kg

#### Vario Controls

- Radar-activated wheel slip control
- External hydraulic connection (load sensing)
- External control for hydraulic remotes
- Double connect-under-pressure rear remotes
- Front 3-pt hitch double-acting, with external actuation
- Front 3-pt hitch double-acting, with position control and external actuation
- Front loader, front loader attachments

#### Walterscheid Cat. 4 hook ends

- External control for hydraulic control unit at rear

#### Wide selection of weights for optimum ballasting

#### Original Fendt front loader

- External hydraulic connection (load sensing)
- External control for hydraulic remotes
- Double connect-under-pressure rear remotes
- Front 3-pt hitch double-acting, with external actuation
- Front 3-pt hitch double-acting, with position control and external actuation
- Front loader, front loader attachments

####Auxiliary lighting with Xenon work lights and rotating beacon

- External control for hydraulic control unit at rear
Leaders drive Fendt

Leaders drive Fendt – for unsurpassed performance, productivity and support services. 
Take the lead with your own Fendt Vario 700 Series tractor today.

www.fendt.com