

# FENDT

Fendt 1100 MT





There is only so much soil.  
You can conserve it using Fendt.

The soil forms the basis of healthy crops and high yields. Managing it efficiently and with care ensures long-term economic success. In addition to efficiency and comfort, soil protection is our top priority when developing tractors. If you want the advantage of grip and soil protection, go for Fendt.



Engine		1149 MT	1154 MT	1159 MT	1165 MT
Rated power ECE R 120	kW/hp	336/457	365/496	403/548	440/598

## Achieving big things. Think Fendt 1100 MT

Decades of experience, constant development and a continual desire to help farmers and contractors around the world to achieve maximum efficiency and performance, came together to create the Fendt 1100 MT. With its 12-cylinder AGCO Power Engine and innovative drive technology, it sets new standards in the field of power transmission and all that with full road capability.

FENDT 1100 MT TRACK TRACTOR

# Benchmarks in the field of power transmission: Track tractor.

**Unique chassis for permanent best grip**

The chassis is a characteristic of Fendt 1100 MT. It represents the latest expansion stage of our decades-long experience with caterpillar drives. Today it fulfils the fundamental ideas of achieving as much contact area as possible for the best traction and lowest soil compaction better than ever. The profi large tractor comparison also proves: No other applies more engine performance to the ground so effectively (profi 12/2016).

**Robust design without compromises**

The track chassis has a robust lengthwise design with rubber tracks, which are powered by fractional engagement instead of by sprockets and driving teeth. The drive wheels at the rear axle are driven by rolling tracks and have a large diameter in order to increase the contact area between the wheel and the track, and therefore to reduce track slippage. The front guide wheels stretch the rolling tracks by pushing them forward against their inner surface. The pressure directed forwards onto the guide wheels is provided by a hydraulic cylinder and a pressure accumulator so that a rolling track tension of just 222.4 kN is generated.

**Comfortably spring-mounted**

Thanks to the unique suspension system integrated into the track tractor, both the drives can be adapted to the ground contours independently. The oscillating rollers press the rolling track onto the ground in order to keep the contact area as large as possible even on uneven surfaces.

**Rollers with pendulum suspension**

The pendulum suspension of the rollers ensures even weight distribution across the entire rolling surface in order to increase traction and enlarge the contact area. The rolling area on the steel core of the rollers is sheathed with a polyethylene compound. The polyurethane compound, which is directly applied on the steel rolling surface of the rollers, creates an increased resistance against heat and tearing. This prolongs the service life of the rollers. The rollers are suspended via pendulum carriers, which allow the rolling track to flexibly follow the ground contours.

The large drive wheel transfers the force to the tensioned treadbar through fractional engagement.



The guide wheel is pushed against the track by the rolling track tensioner and the tension is therefore maintained.



The oscillating pivot of the rollers ensures perfect ground following and never tears up the ground.



Large trumpet housing ensures long lifetime.



Various treadbar designs\* are available.

\*Outside width of 3 m is maintained with the standard 698 mm (27.5") treadbar.

## FENDT 1100 MT MOTOR & GEARBOX

# Power and efficiency in all situations.

### A one-of-a-kind motor

The Fendt 1100 MT is driven by a 12-cylinder AGCO Power diesel engine. These engines have been specially developed to meet the requirements of agriculture and are unique to tractors. The V12 delivers high torque and is extremely insensitive to engine lugging. The AGCO Power Engine has 16.8 litre displacement and is available with 457 to 598 HP rated power. The engine is more compact in terms of length and height than a 6-cylinder in-line engine. The engine noise is especially low and pleasant thanks to the more compact design. The largest and most powerful Fendt tracked tractors deliver a high torque and are extremely insensitive to high peak loads.

### Clean combustion

To comply with the latest emission limits, the engine has been fitted with an cEGR system (cooled exhaust gas recirculation) to reduce AdBlue consumption. The engine runs at an injection pressure of 2000 bar, which has a positive effect on the injection precision and injection timing.

### Powerful gearbox

The Fendt 1100 MT has a 16x4 full-load gearbox with Speedmatching function. The gearbox is electronically operated using a lever to the right of the operator's seat in the Tractor Management Center (TMC) armrest. The driving direction of the tracked tractor is changed by pushing the lever back and forth. For shifting up and down through all the gears, the operator must use only two push buttons. As the cast steel housing is completely integrated into the tractor structure, the gearbox serves as a rear frame for maximum strength.

### Power Management automatic switching equipment

The Fendt 1100 MT has a power management system, which allows gears to be automatically shifted and the engine speed controlled. Two operating modes are available: "Maximum power" or "Constant speed". In the "Maximum power" mode, the tractor automatically downshifts to a high-torque gear if the engine speed falls below the optimal power range due to the load. As soon as the load reduces and the speed increases, the gear is shifted back to the original gear. In "Constant speed" mode, the operator can program a specified driving speed, which is then maintained. If this function is active, the automatic switching equipment selects a combination of engine speed and gear transmission, which keeps the target speed constant.

The two-stage turbocharging reduces the turbo lag and enhances the pre-compactness efficiency.



The iCAC intermediate radiator pre-cools the charged air, and therefore increases the torque.



The large intercooler serves as the second cooling stage, which significantly cools the inlet air and thus optimises the combustion.



Turbo charger with fixed turbine geometry and electronically-controlled wastegate provides high and long-lasting performance.



The inlet air filter with dust separation ensures fresh and clean inlet air.

Thanks to the wide-opening panels, all the components are very easy to access.

## FENDT 1100 MT HYDRAULIC SYSTEM & PTO

# Well-equipped for all implements.

### Powerful lifting unit

A steering rear linkage can be ordered ex works for all Fendt 1100 MT tractors. This hydraulic linkage is available in category III or IV and it has a lifting power of 14,000 daN on the lower links hooks on the entire stroke. The electronic control and operating elements ensure precise operation of the lifting unit.

### Electronic control of lifting unit

The rear linkage is electronically operated. The electronic system modulates the hydraulic valve to lift and lower the linkage, where the driver can set different linkage parameters such as lowering and lifting speed, maximum lifting height, maximum depth, slip control and tension control. The driver adapts the EHR (electronic linkage control) to the TMC display in the cab.

### Complete PTO

There is an optional 1000 PTO at the rear. Upon being switched on, the PTO reaches 1000 rpm at an engine speed of 1979 rpm. The rear PTO serves as a drive for equipment and makes the tracked tractor more versatile. A spring-operated PTO brake blocks the PTO in switched-off condition.

### Powerful hydraulic system

All Fendt 1100 MTs have a closed hydraulic system (closed centre) with pressure and quantity control (load sensing), which respond quickly and allow precise control of the hydraulic equipment. The dedicated variable flow pump conveys up to 224 l/min to the spool valves and the linkage. All the hydraulic consumers are fed from the oil container situated at a higher level, which is housed in the gearbox and rear axle housing. A pump with 321 l/min capacity is available for the most challenging attachments.

### Active swinging drawbar

An active swinging drawbar can be ordered for Fendt 1100 MT tractors without linkage. Two hydraulic cylinders under the tractor are connected to one of the rear control valves, and swivel the drawbar by 28° in both directions. In the process, the drawbar moves on the rollers without wearing. The drawbar can be secured using bolts; if the control valve is switched to floating position, the drawbar can swivel freely and shocks hydraulically absorbed in the process. The active drawbar makes the tracked tractor more versatile and increases the influence of the operator.



The drawbar, steered hydraulically through 28° on each side, controls the attachments to perfection.



Whether high lifting capacity, hydraulics or PTO power is required:  
The Fendt 1100 MT overcomes any challenge.

## FENDT 1100 MT CAB

# Internal values, which will convince you.

### Quiet cab

The four-post cab with rollover protection (ROPS) and steep nose hood provide an excellent view in all directions. The cab is positioned high on the chassis and is shifted to the rear of the tractor in order to optimise the view of the drawbar and work area immediately behind the tractor. The driver has an unobstructed view of wider equipment thanks to the arrangement of the rear B-column. The electrically-adjustable mirrors can all be adjusted from the cab. Independent tests confirm: The Fendt 1100 Vario cab is the quietest in the high-horsepower tractor segment with 67dB (A) (profi 12/2016).

### Ergonomically designed

The operator enjoys a combination of comfort and functionality inside the cab. The insulated cab and air-sprung air-ride seat makes work a pleasantly quiet driving experience and the new air conditioning system with TXV expansion valve provides the right temperature. The new sound absorber reduces noise pollution for the operator and the surroundings.

### Everything under control

The Tractor Management Centre (TMC) comprises the right armrest, control elements and display and serves as the control centre of the tracked tractor. Thanks to TMC, the operator can make all the tractor settings comfortably and control nearly all the functions centrally. The TMC armrest is attached to the right of the seat and follows its movements so that the operator always has all the control elements comfortably at hand. The driving direction is determined by pulling the gear selection lever back and forth. The gears are easily shifted using push buttons on the selection lever. Clearly labelled toggle switches are available for hydraulic valves.

### Information centre

The TMC display (Tractor Management Centre) is an interactive colour monitor. It provides the driver with an overview of all the important tractor data. At the same time the driver can adjust many tractor functions using push buttons and knobs while working. This way, the TMC display can communicate with the ISOBUS attachments quickly and easily and operate them. The TMC display has a connection to a rear view camera.

The TMC display permits tractor and attachment settings by operating buttons and the rotating wheel.



There is an additional C3000 display for automatic steering and for better display.



Clearly arranged toggle switches make operation easy.



The straightforward dashboard provides an overview of numerous functions.



The ladder is automatically folded upwards during the ride.



The efficient automatic air conditioning system provides the right temperature.

FENDT SERVICES

Rest assured that your machine will be ready for action tomorrow.



**100% quality, 100% service Fendt Services**  
To ensure that your Fendt Vario delivers 100 percent performance at all times, we offer you 100 percent service. In addition to the best diagnostics capability and ease of repair, this includes availability of replacement parts 24/7 during the harvesting season. The Fendt service network also guarantees fast lines of communication between you and our trained service employees. Fendt original parts and their fitment come with a 12-month warranty. Repairs using original parts ensures your Fendt tractor retains its value.

**Performance and profitability under contract**  
The Fendt Service packages give you complete cost control with exceptional service. The packages cover all specified maintenance work, based on attractive fixed rates. The various Fendt Care levels include regular maintenance and servicing combined with an extended warranty for up to 10,000 operating hours or 8 years in total.

**Individual finance and rental models**  
Investing in technology means a considerable capital outlay. A credit finance agreement from AGCO Finance offers attractive conditions and flexible terms. From the initial down payment to monthly instalments to the payment term – you set the general terms on which to finance your Fendt. If you need additional capacity in a hurry or want to use tractors over a long-term period without purchasing them, your Fendt dealer can offer the ideal solution with tailored rental packages. These packages help you adapt your fleet to your current workload.

**Fendt Expert operator training**  
Fendt brings you not only the latest technology, but also helps you get maximum value from your vehicle. With the help of the exclusive operator training programme, you can optimise the efficiency of your Fendt even further, and get to know all the functions which make your daily routine that much easier. Our team of professional trainers will advise you on how to use the full potential of your Fendt vehicle.



Max. hours	10,000
Max. years	1 + 7
Cover (except wear)	Full cover

Fendt has set new extended warranty premiums to offer an even more comprehensive product to cover the reliability and repair risk of new machines.



Using the smartphone "AGCO Parts Books to go", you can find Fendt spare parts quickly and easily and order them directly. The app is available for download in the app store or in Google Play Store. Your personal access data is available from your Fendt dealer.



Your Fendt dealers are always there when you need them, and have just one aim – to make sure your Fendt machines are ready for action at any time. If something does go wrong during harvest time, simply call your certified service centre 24/7 on the emergency hotline.

Fendt Care packages	Bronze	Silver
Coverage	Regular maintenance, fixed maintenance costs	Cover against repair risk (except wear and tear)
Machine type	All	All
Regular maintenance	✓	✓
Repair risk		✓
Excess		Optional excess: €0, €190, €490

In order to keep your machine ready for action at any time, we offer a tailored maintenance and repair service beyond the statutory warranty. Fendt ProService offers you flexible policy periods depending on the machine type, and flexible premiums with and without excess. This gives you complete cost control, planning certainty and retains the value of your machine.

## FENDT 1100 MT EQUIPMENT DETAILS



■ Halogen work lights light up the surroundings perfectly. An LED headlight is available on request.



■ The work surroundings are perfectly lit up in the front as well as on the side. An LED headlight is available on request.



■ The 12-cylinder AGCO Power engine convinces you with its smooth running and good maintenance access.



■ The large cooler units are easy to clean.



■ Four maintenance-free batteries supply power in the Fendt 1100 MT.



■ A compressed air connection is located at the front to clean the radiator.



■ A complete compressed-air system is available for limited attachments.



■ In order to tension the rolling tracks, the pressure connections are easily accessible.



□ Marginal 1996 kg weight can be mounted on the front frame.



□ Six hydraulic valves, a leak-oil line connection and PowerBeyond are located at the rear.



■ A 12 V connection is available at the rear for external consumers. The ISOBUS connection establishes a connection with attachments.

## FENDT 1100 MT

# Equipment variants.

### Engine

Engine pre-heating	<input type="checkbox"/>
Preheater unit (engine, transmission oil)	<input type="checkbox"/>

### Transmission

Cruise control	<input checked="" type="checkbox"/>
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### Vario operation

ready for automatic steering system	<input checked="" type="checkbox"/>
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### Cab

Comfort cab	<input checked="" type="checkbox"/>
Instructor seat	<input checked="" type="checkbox"/>
Height and tilt-adjustable steering column	<input checked="" type="checkbox"/>
Heating with stepless fans	<input checked="" type="checkbox"/>
Air-conditioning	<input checked="" type="checkbox"/>
Integrated automatic climate control	<input type="checkbox"/>
Roller shade rear	<input type="checkbox"/>
Roller shade right	<input type="checkbox"/>
Parallel wipers front	<input checked="" type="checkbox"/>
Rear window wash/wipe	<input checked="" type="checkbox"/>
Ext. rearview mirror, electrically adjustable, heated	<input checked="" type="checkbox"/>
Radio CD MP3	<input type="checkbox"/>
Radio CD MP3 hands-free speaking system	<input type="checkbox"/>
Radar sensor	<input checked="" type="checkbox"/>

### Lighting

Halogen headlights	<input checked="" type="checkbox"/>
Rear working lights	<input checked="" type="checkbox"/>
Work lights A-pillar	<input checked="" type="checkbox"/>
A-pillar LED work lights	<input type="checkbox"/>
Roof rear LED work lights	<input type="checkbox"/>
Roof front LED work lights	<input type="checkbox"/>
Rotating beacons	<input checked="" type="checkbox"/>

### Chassis

Infinite track adjustment	<input checked="" type="checkbox"/>
Conveyor with standard design	<input checked="" type="checkbox"/>
Conveyor with reinforcement	<input type="checkbox"/>
Compressed air system 1-2- circuit system	<input type="checkbox"/>

### Power lift

Tractive power and stepless mixed control	<input checked="" type="checkbox"/>
Externally controlled rear power lift	<input checked="" type="checkbox"/>

### PTO

Rear: Flanged PTO 1000/1000E rpm	<input type="checkbox"/>
External controls for rear PTO	<input type="checkbox"/>

### Hydraulics

EHS valve actuation linear module	<input checked="" type="checkbox"/>
Up to 6 electr. proportional valves	<input type="checkbox"/>
Hydraulic power beyond connection	<input type="checkbox"/>
Unpressurised rear return flow	<input checked="" type="checkbox"/>
Double connect-under-pressure lever couplings rear	<input checked="" type="checkbox"/>

### Additional equipment

Drawbar category 4	<input checked="" type="checkbox"/>
Drawbar category 5	<input type="checkbox"/>
Front weights, various sizes	<input checked="" type="checkbox"/>
Wide vehicle marker	<input checked="" type="checkbox"/>

# Technical Specifications.

		1149 MT	1154 MT	1159 MT	1165 MT
<b>Engine</b>					
Rated power ECE R 120	kW/hp	336/457	365/496	403/548	440/598
Maximum power ECE R 120	kW/hp	362/492	394/536	435/592	475/646
No. of cylinders	Number	12	12	12	12
Cylinder bore/stroke	mm	111/145	111/145	111/145	111/145
Cubic capacity	cm <sup>3</sup>	16800	16800	16800	16800
Rated speed	rpm	2100	2100	2100	2100
Max. torque at 1500 rpm	Nm	2170	2360	2600	2840
Fuel level	litres	1000.0	1000.0	1000.0	1000.0
AdBlue tank	litres	106.0	106.0	106.0	106.0
Constant power range	rpm	1500-2100	1500-2100	1500-2100	1500-2100

<b>Transmission and PTO</b>					
Transmission type		CAT TA22	CAT TA22	CAT TA22	CAT TA22
Top speed	km/h	40	40	40	40
Rear PTO		1000	1000	1000	1000
Engine rpm at rated speed of rear PTO (1000 PTO)	rpm	1980	1980	1980	1980

<b>Power lift and hydraulics</b>					
Variable flow pump	l/min	224	224	224	224
Variable flow pump option 1	l/min	321	321	321	321
Working pressure / control pressure	bar	200	200	200	200
Max. valves (front/centre/rear)	Number	0/0/6	0/0/6	0/0/6	0/0/6
Max. hydraulic oil filling	approx. litres	267	267	267	267
Max. available hydraulic oil volume	litres	120	120	120	120
Flow rate of control valves (all valves)	litres	140	140	140	140
Max. lift capacity of rear power lift	daN	14000	14000	14000	14000

<b>Electrical features</b>					
Max. transferable current ISOBUS socket	A	30	30	30	30

<b>Caterpillar tracks</b>					
Swing angle of the primary suspension	degrees	3	3	3	3
Suspension travel of the front guiding wheel	mm	150	150	150	150
Total width of driving wheel	mm	225	225	225	225
Total width of track roller	mm	224	224	224	224
Series caterpillar track		27.5" Standard AG	27.5" Standard AG	27.5" Standard AG	27.5" Standard AG
1. Optional caterpillar track		27.5" Extreme AG	27.5" Extreme AG	27.5" Extreme AG	27.5" Extreme AG
2. Optional caterpillar track <sup>1)</sup>		30" Extreme AG	30" Extreme AG	30" Extreme AG	30" Extreme AG
3. Optional caterpillar track <sup>1)</sup>		30" Extreme APP	30" Extreme APP	30" Extreme APP	30" Extreme APP

<b>Dimensions</b>					
Track width (for series caterpillar track)	mm	2286	2286	2286	2286
Minimum track width (for series caterpillar track)	mm	2286	2286	2286	2286
Maximum track width (for series caterpillar track)	mm	2350	2350	2350	2350
Total width for series caterpillar track	mm	3000	3000	3000	3000
Overall length <sup>1)</sup>	mm	6755	6755	6755	6755
Overall height - comfort cab	mm	3460	3460	3460	3460
Max. ground clearance	mm	460	460	460	460
Wheel base (driving wheel to the front guiding wheel)	mm	3000	3000	3000	3000

<b>Weights</b>					
Unladen weight (base tractor with cab - full tanks, without driver)	kg	19365.0	19365.0	19365.0	19365.0
Max. permissible overall weight	kg	27000.0	27000.0	27000.0	27000.0
Max. trailer hitch load	kg	4536.0	4536.0	4536.0	4536.0

\* = Country-specific equipment, \*\* = For belt widths greater than 27.5" and track widths greater than 2,286 mm, the outside width of 3 m does not apply. In the case of outside widths greater than 3 m, country-specific road traffic exemptions may be required.

# Safety and Service non-stop.

## What makes Fendt Service different?

For us, service means knowing and understanding your work in order to meet your demands for reliability and safety and to act in your economic interest. We stand behind our products and have developed them for the highest demands and long-term operation. Our service is the partnership aspect for your work. In case of tracked tractors, a full manufacturer's warranty extension offers full cost control and planning reliability. In case of tracked tractors, flexible policy periods and long-term tariffs (with and without cost sharing) offer full coverage (except wear) for the first eight years or the first 10,000 operating hours. In addition to the usual repair costs, even other risks such as recovery and towing and vehicle diagnosis can be secured in a complete package.

## Where are the Fendt tracked tractors developed and manufactured?

The Fendt tracked tractors are manufactured in Jackson, Minnesota (USA), our global competence centre for track tractors. Here, the tractors undergo numerous intensive tests before they leave the factory, so they can perform their best in your plant. Regular certification according to ISO standards confirms the high quality of the entire production process right up to delivery.

# Contact to Fendt.

## fendt.com

Find everything on line - from brochures to technical specifications, from reports about customers or our company to our Fendt event calendar.

## Fendt Configurator

With the Fendt Vehicle Configurator, you can choose from all the available equipment variations and put together the optimally equipped vehicle for your farm. The Fendt Configurator is available online at [www.fendt.com](http://www.fendt.com), where you will find a quick link to it directly on the start page.

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# FENDT

## Leaders drive Fendt!



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