Fendt 1100 MT

	1149 MT	1154 MT	1159 MT	1165 MT
kW/hp	336/457	365/496	403/548	440/598

Rated power ECE R 120

Think BIG.
Think Fendt 1100 MT.

Fendt 1100 MT was designed based on years of experience, consistent further development and a constant willingness to help farmers and contractors all over the world to achieve maximum efficiency and performance. With its 12-cylinder AGCO Power Motor and innovative drive technology, it sets new standards in the field of power transmission and all that with full road capability.

FENDT 1100 MT MOBIL TRAC SYSTEM

Benchmarks in the field of power transmission: Mobil Trac System.

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 track tractors. 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 tested large tractor brings more engine performance to the soil (profi 12/2016).

Robust design without compromises
The MTS 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 142 kN is generated.

Comfortably spring-mounted
Thanks to the unique suspension system integrated into MTS, 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 rear roller pair is suspended from a lever system using rubber dampers.

The large drive wheel transfers the force to the tensioned rolling track through friction.

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

The pendulum suspension of rollers ensures perfect ground-hugging and constant ground contact.

The large axle stubs ensure a long service life.

Different rolling tracks of widths from 457 mm (18") to 863 mm (36") are available.

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.

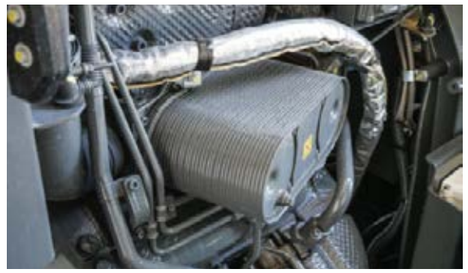
Clean combustion
To comply with the latest emission limits, the engine has been fitted with an cEGR system (cooled exhaust gas recirculation) to reduce AdBlue consumption. The engine runs at an injection pressure of 2000 bar, which has a positive effect on the injection precision and injection timing. The amount of cooled exhaust gas in the inlet air is a maximum of 7% if required.

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 driver seat in the 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.

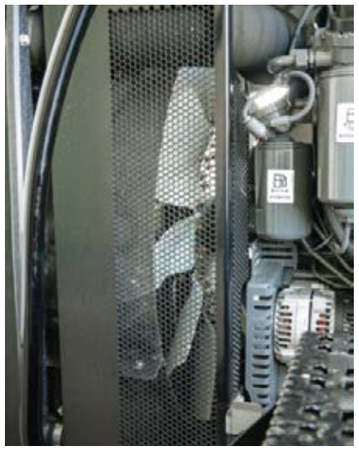
Power Management automatic switching equipment
The Fendt 1100 MT has a power management system, which allows gears to be automatically shifted and the engine speed controlled. Two operating modes are available: "Maximum power" or "Constant speed". In the "Maximum power" mode, the tractor automatically 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 the mode "Constant speed", the driver 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.

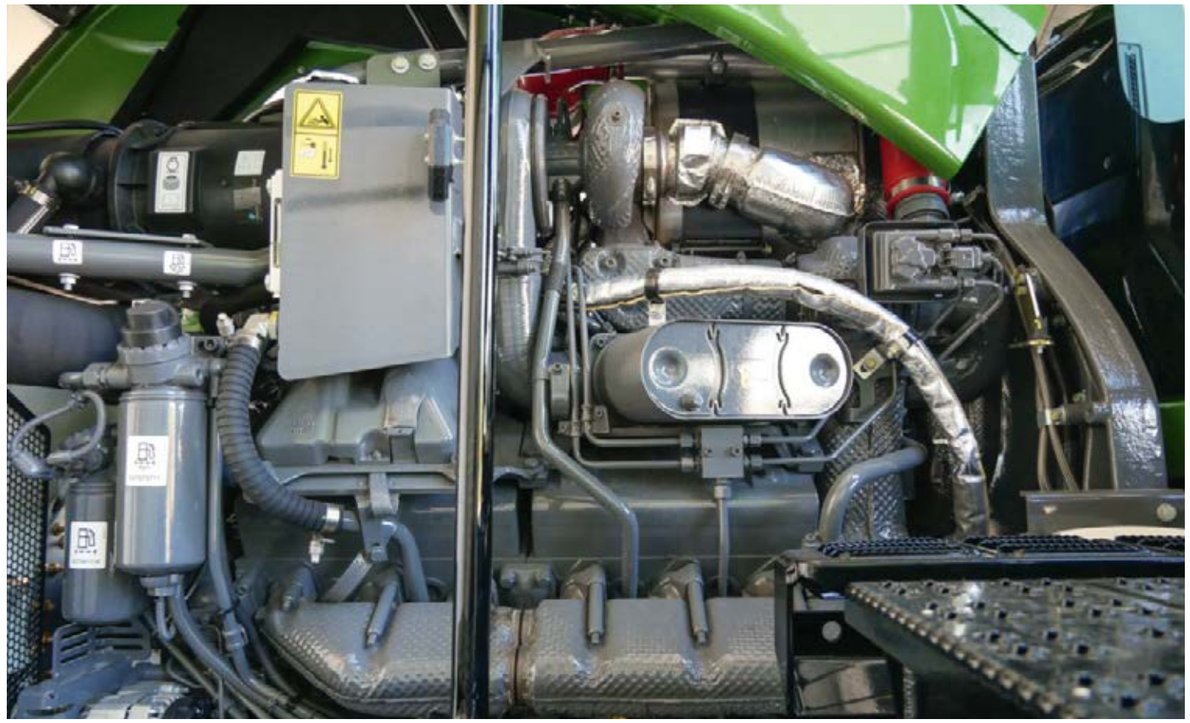
The two-stage turbocharging reduces the turbo lag and enhances the pre-compaction efficiency.

The iCAC intercooler pre-cools the charge 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 attachments.

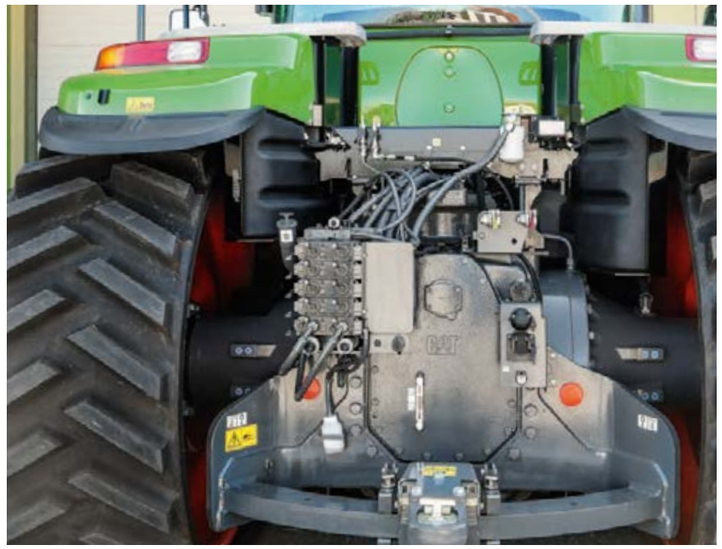
Powerful lifting unit
A steering rear linkage can be ordered ex works for all Fendt 1100 MT tractors. This hydraulic linkage is available in category III or IV and it has a lifting power of 98.5 to 198.2 kN at the lower links hooks across the entire length of stroke. The electronic control and operating 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.

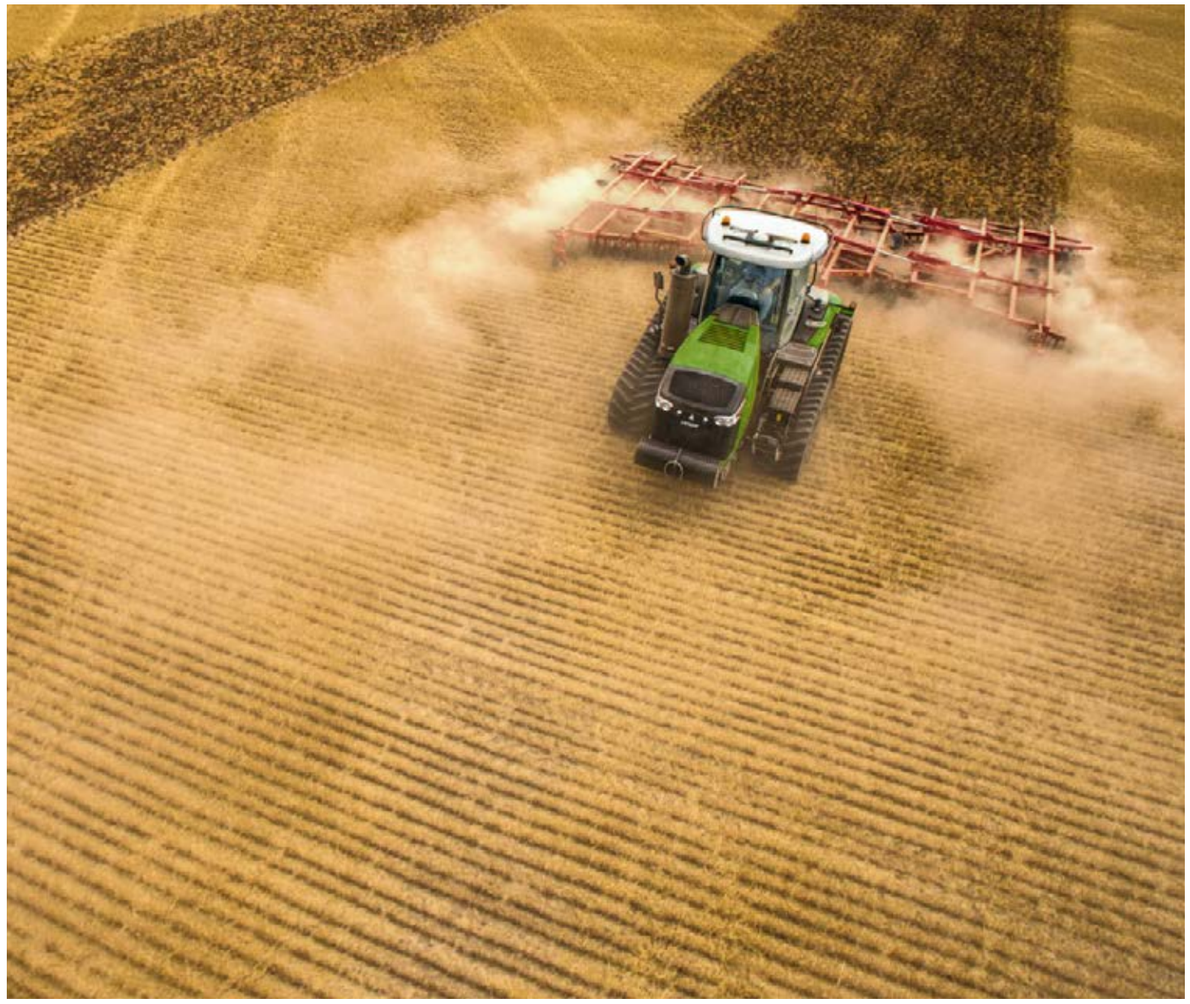
Complete PTO
There is a 1000 PTO at the rear. Upon being switched on, the PTO reaches 1000 rpm at an engine speed of 1979 rpm. The rear PTO serves as a drive for equipment and makes the tracked tractor more versatile. A spring-operated PTO brake blocks the PTO in switched-off condition.

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 control 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 arrested using bolts; if the control valve is switched to floating position, the drawbar can swivel freely and is damped hydraulically 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.



The following is required despite high lifting capacity, high hydraulic power or high PTO power:
The Fendt 1100 MT copes with all the challenges effortlessly.

FENDT 1100 MT CAB

Inner 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. Power mirrors, all of which can be adjusted from the cab, are available if required. Independent tests confirm: The cab of Fendt 1100 Vario is the quietest in the large 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.

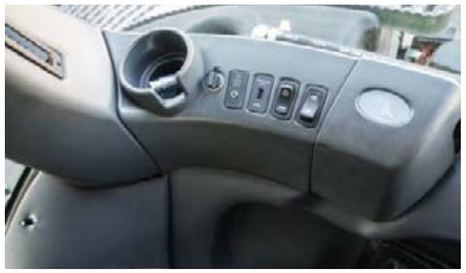
Everything at hand
The Tractor Management Centre (TMC) comprises the right armrest, control elements and display and serves as the control centre of the tracked tractor. Thanks to TMC, the operator can make all the tractor settings comfortably and control nearly all the functions centrally. The TMC armrest 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.

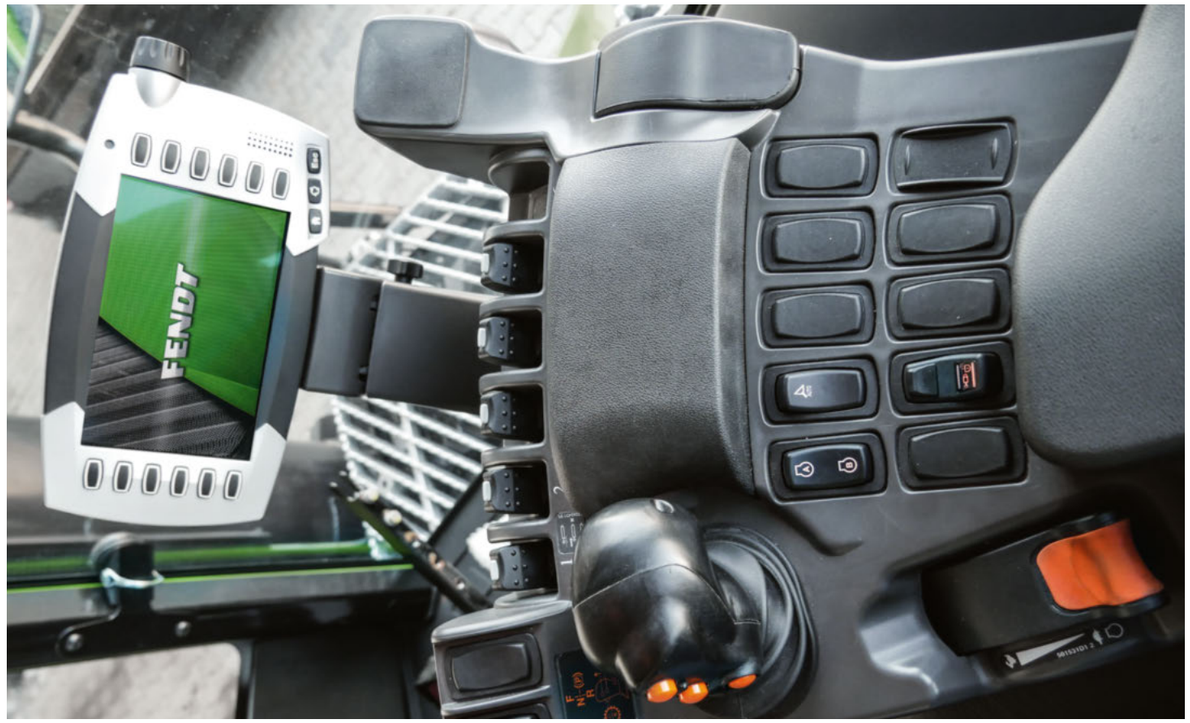
Information centre
The TMC display (Tractor Management Centre) is an interactive colour monitor. It provides the driver with an overview of all the important tractor data. At the same time the driver can adjust many tractor functions using push buttons and knobs while working. This way, the TMC display 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 1100 MT EQUIPMENT DETAILS

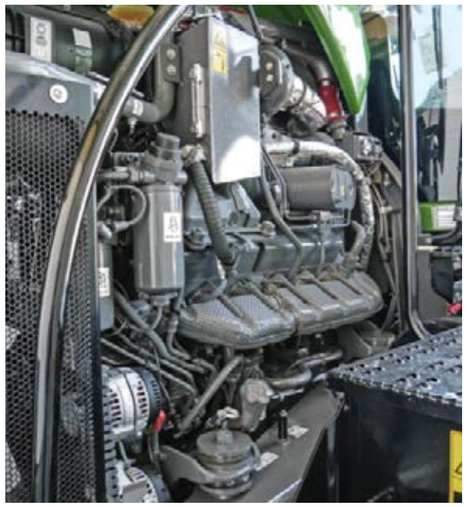
Extraordinary details make it perfect.

■ Xenon NightBreaker 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 rear linkage can be operated from the rear mudguards.

■ The large cooler units are easy to clean.



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

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

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

■ Marginal 990 kg weight can be mounted on the front frame.

■ The engine is fitted such that it is cushioned.

■ 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 preheating	□
Preheater unit (engine, transmission oil)	□

Gearbox	
Cruise control	■

Vario control	
Ready for automatic steering system	■

Cab	
Comfort cab	■
Air-suspended comfort seat	■
Super Comfort Seat, air sprung	□
Instructor seat	■
Height and tilt-adjustable steering column	■
Heating with stepless fans	■
Air conditioning	■
Integrated automatic climate control	□
Roller shade rear	□
Roller shade right	□
Parallel wipers front	■
Rear window wash/wipe	■
Ext. rear view mirror, electrically adjustable, heated	■
Radio CD MP3	□
Radio CD MP3 hands-free speaking system	□
Radar sensor	■

Lighting system	
Halogen headlights	■
Rear working lights	■
Work lights A-pillar	■
A-pillar LED work lights	□
Rear roof LED work lights	□
Work lights roof front LED	□
Rotating beacons	■

Chassis	
Stepless track adjustment	■
Treadbar with standard design	■
Treadbar with enhancement	□
Compressed air system 1-/2- circuit system	□

Power lift	
Tractive power and stepless mixed control	■
Externally controlled rear power lift	■

PTO	
Rear: Flanged PTO 1,000/1,000E rpm	□
External controls for rear PTO	□

Hydraulics	
EHS valve actuation linear module	■
Up to 6 electr. proportional valves	□
PowerBeyond hydraulic plug	□
Unpressurised rear return	■
Double connect-under-pressure lever couplings rear	■

Design	
Drawbar Cat. 4	■
Drawbar Cat. 5	□
Front weights, various sizes	■
Wide vehicle marker	■

Standard and optional equipment
Standard: ■
Optional: □

FENDT 1100 MT

Technical Specifications.

		1149 MT	1154 MT	1159 MT	1165 MT
Engine					
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
Displacement	cm^3	16800	16800	16800	16800
Rated engine speed	rpm	2100	2100	2100	2100
Max. torque at 1500 rpm	Nm	2170	2360	2600	2840
Fuel tank	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
Transmission and PTO					
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
Power lift and hydraulics					
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, rear linkage	daN	14000	14000	14000	14000
Electrical features					
Max. transferable current ISOBUS socket	A	30	30	30	30
Tracked conveyor tracks					
Central carrier suspension		OptiRide	OptiRide	OptiRide	OptiRide
Spring stroke at the front guide wheel	mm	150	150	150	150
Chassis suspension		OptiRide	OptiRide	OptiRide	OptiRide
Total width of drive wheel	mm	225	225	225	225
Total width of roller	mm	224	224	224	224
Series tracked conveyor tracks		27.5″ Standard AG	27.5″ Standard AG	27.5″ Standard AG	27.5″ Standard AG
1. Option of tracked conveyor track		27.5" Extreme AG	27.5" Extreme AG	27.5" Extreme AG	27.5" Extreme AG
2. Option of tracked conveyor track		30" Extreme AG	30" Extreme AG	30" Extreme AG	30" Extreme AG
3. Option of tracked conveyor track		30" Extreme APP	30" Extreme APP	30" Extreme APP	30" Extreme APP
Dimensions					
Track width (in case of series tracked conveyor track)	mm	2350	2350	2350	2350
Minimum track width (in case of series tracked conveyor track)	mm	2350	2350	2350	2350
Maximum track width (in case of series tracked conveyor track)	mm	2600	2600	2600	2600
Total width in case of series tracked conveyor track	mm	3000	3000	3000	3000
Overall length	mm	6755	6755	6755	6755
Overall height comfort cab	mm	3460	3460	3460	3460
Max. ground clearance	mm	460	460	460	460
Wheelbase (drive wheel to front guide wheel)	mm	3000	3000	3000	3000
Weights					
Unladen weight (base tractor with cab - full tanks, without driver)	kg	19365	19365	19356	19356
Max. perm. overall weight	kg	27000	27000	27000	27000
Max. trailer hitch load	kg	4536	4536	4536	4536

Safety and Service non-stop.

What makes the Fendt StarService 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, an extensive manufacturer warranty extension offers full cost control and planning reliability. In case of tracked tractors, flexible runtimes 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 covered 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 tracked tractors and caterpillar tracks. Here, the tractors undergo numerous intensive tests before they leave the factory, so they can perform their best in your business. Regular certification according to ISO standards confirms the high quality of the entire production process up until delivery.

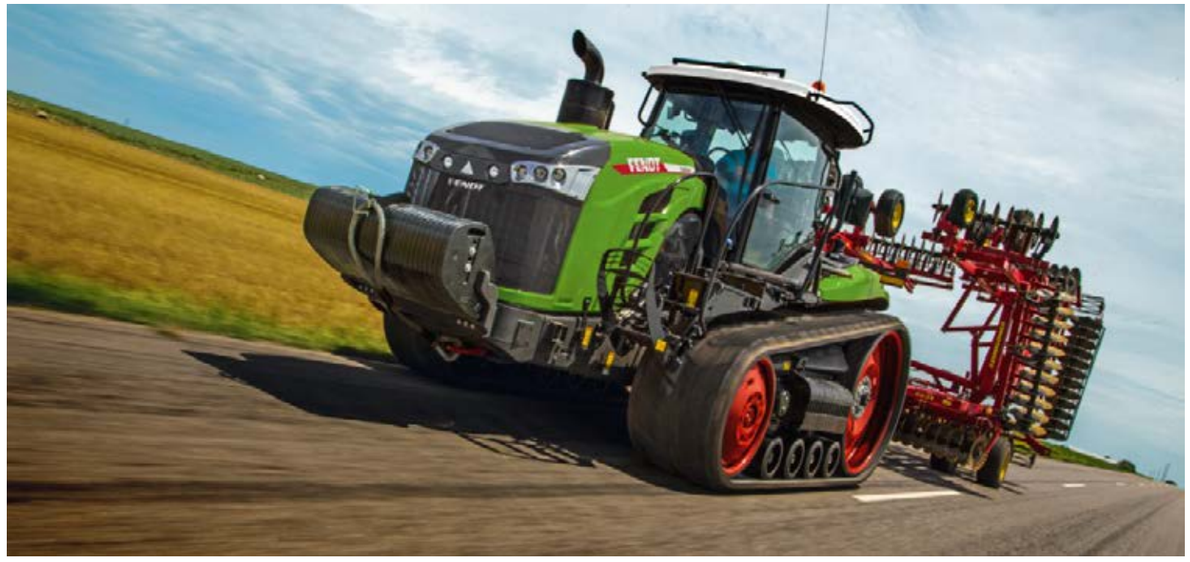
Contacting Fendt.

fendt.com
Here you will find everything online, from brochures to technical specifications, reports about customers or the company, right up to the 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, where you will find a quick link to it directly on the start page.

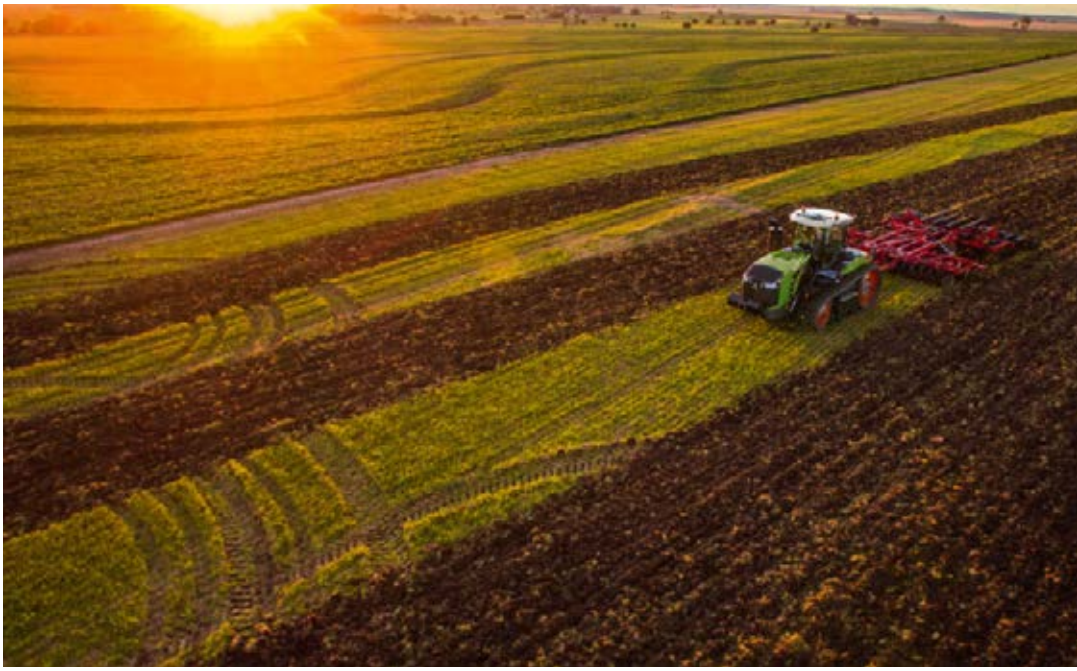
fendt.tv
Fendt around the clock – our Fendt Media Library makes it possible. Our internet TV provides you with news and information about Fendt 24/7.

facebook.com/FendtGlobal
Over 200,000 fans have already befriended Fendt on Facebook. Come have a look!



FENDT

Leaders drive Fendt!



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