

# FENDT

## Fendt Squadra 1290 UD







## The Fendt Squadra 1290 UD. Unstoppable.

Bale size		Squadra 1290 UD
Width	cm	120
Height	cm	90
Max. length	cm	274

The Fendt Squadra 1290 UD square baler delivers exceptional baling density and efficient output. Its exterior design marks a generational change in Fendt square balers. This powerful and robust, yet lightweight and compact machine from the AGCO plant in Hesston, USA is characterised by its innovative overall design, reliability and maximum durability based on decades of development experience.



#### The new generation

Fendt is blazing new trails with the high-quality top of the range Squadra 1290 UD. The machine is fitted with an innovative Ultra™ gearbox, as well as 6 double knotters combined with a new generation of twine.

- ProCut cutter unit (optional)
- 120 cm x 90 cm bale size
- Highly dense bales
- New ultra main drive
- Packer feed
- OptiFlow pick-up with increased capacity
- 6 knots with the new twine generation
- All-new design



The Fendt Squadra 1290 UD.  
Unstoppable.

#### Moving the boundaries

The sky's the limit with the new Fendt Squadra 1290 UD. To meet the changing needs of customers, and to make long transport routes profitable, the Fendt Squadra 1290 UD is designed to produce bales with 20% more weight than any previous square balers. This allows you to load heavier and denser bales and make best use of your transport and storage capacities.



OPTIFLOW PICK-UP

# The foundation for perfect bales.

**More power for more output**

The new OptiFlow pick-up has been specially developed for the new output capacity of the Fendt Squadra 1290 UD. Thanks to the 5 tine rows and a total of 80 tines, you can set new benchmarks with the newly developed pick-up. Owing to the increased number of tines and a working width of 2.25 m, the controlled pick-up ensures excellent crop collection even at high speed; easily handling even irregular swaths. For more output and efficiency, the roller windguard presses the swath evenly while supporting the conveyor action of the pick-up. The interplay between the roller windguard and the wiper plate reduces friction and ensures a smoother crop flow.

**Ensure perfect preparatory work**

Processes upstream to the pre-compression chamber must be efficient. That's why we fitted two centring augers on either side to move the crop into the middle when it enters the pick-up. The smooth and actively driven feeding mechanism runs across the entire pick-up width, and supports the feed of the largest swath to the 6 packer tines. The combination of the newly designed pick-up, the tines and the driven feed roller ensure that your output is increased by 20 percent.

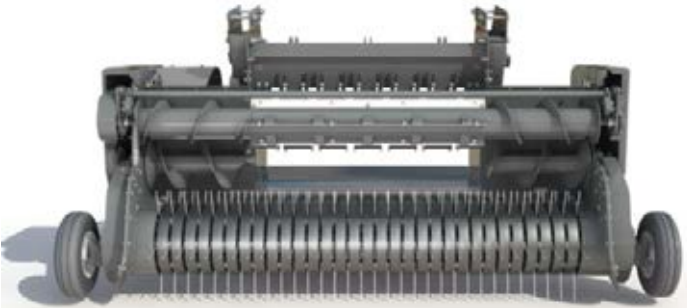
**Well-thought-out technical design**

The Fendt Squadra has been specifically designed to work cleaner and to protect the soil. Thanks to the use of plastic wipers, it was possible to design the pick-up with reduced weight. The polypropylene wipers guarantee extremely clean swath pick-up. The friction effect is always low no matter what the conditions, and the individual wiper belts are less susceptible to contamination. The weight reductions and the adjusted height of the pick-up to suit the new intake auger pivot improve off-road capabilities and protect the soil while working. The tension spring, which optimally works to set the contact pressure of the pick-up and the roller windguard, ensures better overall adjustment to the relevant ground conditions.

The standard windguard and the actively driven, floating feed rollers guarantee the perfect crop pick-up.



With a total pick-up width of 2.98 m you don't need to remove the gauge wheels for transport on public roads.



Thanks to height control using the gauge wheels, the advanced pick-up is relieved by integrated springs, and is therefore perfectly designed to pick up all swathes.



With their built-in springs, the fixed wheels and pick-up are always at the ideal height when working, and can be manually re-adjusted.



ULTRA MAIN DRIVE

The ultimate drive for ultra compressed bales.

In a class of its own

More weight per bale means higher savings on your transport costs. The newly developed ultra density (UD) main drive and the innovative drive train design help compress the maximum possible material in a bale, and create a more efficient power transfer. With an exceptional compaction force of 760 kN, this extremely powerful combination guarantees straw bale densities of up to 245 kg/m³. Thanks to the overload clutches, jammed balers are a thing of the past.

Momentum in a box

Although lighter than that of the Fendt 1290 XD square baler, the new 500 kg flywheel in the Fendt Squadra has considerably more power. The tractor's PTO speed is increased from 1,000 rpm to 1,500 rpm via a step-up gearbox on the baler. This 50% increase produces 130% more flywheel energy compared with today's Fendt square baler, whilst running much quieter.

Ultra main drive

The single-cast gearbox is designed so robustly that it provides huge torques that are needed to press high-density bales throughout the baler's life cycle. In the ultra main gearbox itself, the driving torque is distributed in an intermediate step to two gears of equal speed, and then combined again in the large drive gear of the plunger. This torque distribution in the main gearbox allows double the power to be transmitted at a virtually constant main gearbox weight and size compared to today's Fendt square baler.

Extra heavy

The Fendt Squadra produces exceptional output and high-density bales thanks to the newly designed plunger. With an increased plunger speed of 50 strokes/minute and a considerably heavier plunger, the square baler has a maximum force of 760 kN, producing heavy, optimally compressed and uniform bales.

The flywheel is operated using a wide-angle drive shaft that is driven by an intermediate gearbox. It ensures uniform and quiet operation of the baler, and high power transmission at the same time. Thanks to the intermediate gearbox, the starting torque can be reduced and the operator can operate with the normal PTO clutch without the hydraulic start-up aid.

The larger contact surface that comes with the new Ultra gearbox means extremely high torques can be transferred in a compact design.





UD – “ULTRA DENSITY”

## Bales are consistently uniform.

### Ensuring a compressed base

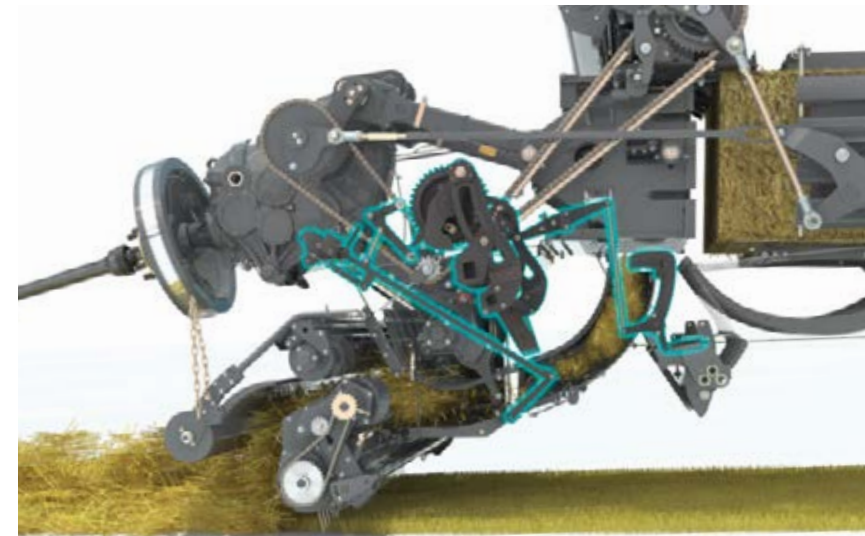
The foundation of perfect bales is laid when filling the pre-compression chamber. It is continuously filled with material from 6 packer tines. The swath size and the forward travel speed do not play a role in the Fendt Squadra. Irrespective of the material, the chamber is always optimally filled without manual intervention. The sensor flap is triggered only when the chamber is properly full and the opening for the main baling channel is released with the retention finger. The perfectly pre-compressed forage package is then fed from the stuffer with one stroke into the main baling channel. Thanks to the uniform material transport from the screw to the feed raking unit, you get a perfect bale shape with uniform density.

### Tough from start to finish

The new Optiform™ Ultra bale chamber has been specially developed to guarantee maximum baling density and a perfect bale shape every time. This is all down to the 4 m long bale chamber of the Fendt Squadra that can generate more friction due to its perfectly shaped compression wall design; for neat bales with clean edges. At the end of the day, you can empty the baling channel of any residues using the selectable length bale ejector.

### Full steam ahead

More power for maximum bale weights and densities under low load. The Fendt Squadra ensures this thanks to the robust yoke and large density cylinders with a total diameter of 178 mm. In order to guarantee a uniform bale density even in the most diverse of harvesting conditions, the load in the loading arms of the plunger is measured for each of the 50 plunger strokes per minute. The electronic pressing force controller ensures that the resistance in the bale chamber is automatically adjusted when the measured load does not correspond to the pre-set value. The pressing force of the pressing cylinders in the bale chamber flaps is increased. It also detects different load distributions in the bale chamber. The terminal therefore shows the operator whether he/she needs to drive to the right or left to form consistent bales.



The pre-compression chamber is uniformly filled by the packer and pre-compressed in the first stage. Once the compression in the pre-compression chamber is completed, pressure is exerted on the flap and the feed raking unit is activated. Retention fingers prevent the crop from landing in the main baling channel immediately.



The density cylinder which is 55% larger (178 mm total diameter) than the familiar Fendt XD square baler, generates the power to reach the maximum bale weight.



The finished bales are ejected via the 5 rollers of the hydraulic bale chute; the supporting chains have been replaced by belts. This means that your combine becomes lighter, and runs smoother since there is no more chattering from the chains.



PROCUT TABLE

You decide how short you want it.

ProCut – and the cut is just right

The new ProCut table with maximum cutting performance: The combination of a newly designed rotor cutter and an easily accessible knife drawer makes the balers more precise, faster and highly efficient. The result is perfect fodder or short bedding material.

The heart of the table: the rotor cutter

The v-shaped arrangement of the rotor tines sets up the crop for a perfect cut – with a uniform, efficient cutting process and no load peaks. The new rotor cutter runs at a speed of 120 rpm and has 3 rotor tines per rotor ring. This ensures a high cutting frequency and increases the output rate, resulting in lower fuel consumption. The rotor tines are hardened with carbon and are especially robust and durable.

Variable cutting length

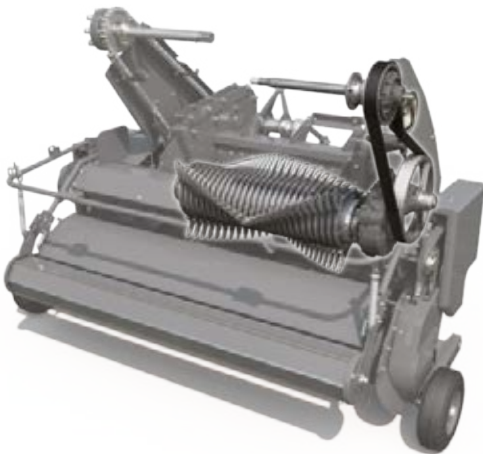
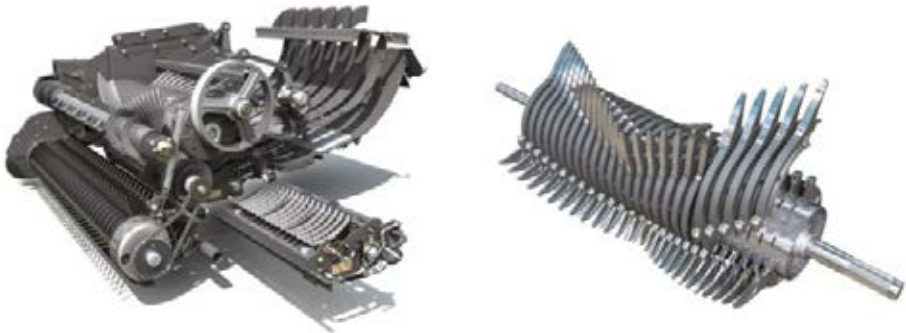
There are 26 knives (17 knives for 990 S) available to produce an ideal cutting length of 43.5 mm for straw and silage. At the push of a button, you can halve the number of knives – the group engagement for the knives, which swings every other knife forward and backward hydraulically, is controlled in the Varioterminal. This gives you a cutting length of 87 mm. All knives are hardened with tungsten carbide and can be replaced individually.

Quick change

If you want to change the number of knives or replace a knife, simply open the knife drawer. The knife bed is then lowered and the drawer can be pulled out with one hand movement. For your safety, there is a double hydraulic knife protection, securing the knives on both sides with two hydraulic cylinders. If necessary, individual rotor tines can be unscrewed and replaced.

The lowered knife drawer can be pulled out on the left side of the machine to change knives.

V-shaped rotor cutter with bolted rotor tine segments. A high speed of 120 rpm means a high cutting frequency for enhanced threshing performance with the best quality of cut.



ProCut table		1290 UD
ProCut table		<input type="checkbox"/>
Cutter	Number	26
Hydraulic cutter protection		<input type="checkbox"/>
Cutting rotor diameter	mm	650
Group engagement of knives		0, 13, 26
Potential cutting length	mm	43.0
Pull-out knife drawer		<input checked="" type="checkbox"/>

Standard and optional equipment  
Standard: ☒  
Optional: ☐



KNOTTER AND TWINE

Perfect bales every time.

More secure

The Fendt Squadra 1290 UD securely binds your bales at the maximum baling pressure with the completely revamped, patented double knotter system. The knotter beaks are larger, stronger and create a wider opening for more space when placing. They also hold the twine even tighter, to securely bind even the hardest of bales. The square baler guarantees less wear and excellent reliability with just 6 knots. Trust is good, control is better. Therefore, the electronic star wheel sensor installed at the centre of the baling channel measures the bale length, and automatically triggers the knotting process when the length set by you is reached.

Cleaner

Debris has no chance with the Fendt Squadra. The cleanliness of the double knotter is improved due to the revamped cross-flow fan. Air constantly flows over, under and along the knotters to better remove the infiltrating dirt. The large maintenance hood and the foldable cross-flow fan ensure easy access.

Tear-resistant

Why there are only 6 double knotters? The concept developed by Fendt saves space and makes your square baler considerably more accessible. It also reduces your costs – there's less wear and maintenance as there are only 6 knotters, and even twine usage is considerably lower. In addition, it simplifies your work and saves time since fewer settings need to be configured and refilling is also required more rarely thanks to the EasyFill twine box with 36 twine spools. Consistent implementation of the unique Ultra Density concept has necessitated the development of a new twine generation, UD twine. The new twine is no wider, but is much more stable and tear-resistant and is therefore highly reliable.

More durability

During the harvest you want to spend as little time on maintenance as possible. That's why the bearings around the knotter are perfectly sealed and protected. The central lubrication unit continuously supplies oil to the knotters. The Vario terminal in the tractor can be used to adjust lubrication intervals and the time needed to carry out the work as per the respective working conditions.

Fewer maintenance activities due to optimal knotter lubrication.



The standard cross-flow fan ensures a permanent air flow across the entire knotter area and it removes all foreign bodies from the knotter area.



Two knots are tied in each knotting process. Thanks to the double knotter system, the twine holders and the reinforced needles are only loaded during the knotting process. Alternatively, you can also process standard twines if you do not want extremely compressed bales.



The EasyFill twine boxes can be easily filled from the ground. The layout of rollers in 2 rows gives you an ideal overview of the stock and excellent accessibility on work days.



OPERATION AND MAINTENANCE

# Hard work made easy.

**Ready-to-use with ISOBUS**

Development of the Fendt Squadra 1290 UD square baler has focused largely on the electronics. The entire baler is controlled via ISOBUS, meaning that the re-designed and intuitive user interface is easy to use on the Fendt Varioterminal or any other ISOBUS-capable terminal. Many functions can be enabled using the joystick depending on the tractor.

**Simply easy**

The operator can see the baler menu as a full screen or partial screen on the Varioterminal. All functions can be controlled and monitored using the new BaleCreate user interface. The operator can adjust the set point value of the plunger load to be reached. The machine automatically takes over the control of bale chamber flaps. An electrical bale length adjustment is provided as a standard feature. The operator sets the desired length of the bale and the automatic unit triggers the knotting process. This enables a quick change between different lengths and is of particular interest to baling contractors. The operator can use the terminal to set the lubrication intervals of knotters, create tasks, read the number of bales and configure bale chamber settings.

**The perfect operating concept**

The C1000 colour terminal comes as standard, with its clear layout. The operator can always access a separate terminal. There are more displays to choose from, with direct access for ease-of-use. The Home menu gives an overview of the entire baler and pistons. You can see all settings of individual components at a glance.

**Well-thought-out design**

The Fendt Squadra comes in a new and progressive design that reflects the need for performance, quality and ease-of-maintenance. The side panels, which can be swivelled upwards, provide the perfect accessibility for maintenance. Even the dust-proof twine boxes can be swivelled upwards for maintenance. Because the twine stores flat, you can always see how much twine is left. The filling process is simple and convenient. As well as the durable design of the tracks and drives, the automatic knotter lubrication and the new automatic track lubrication are also maintenance-friendly features.

Thanks to ISOBUS compatibility, the machine can be conveniently controlled in the Fendt Varioterminal.

The standard C1000 colour terminal offers you the ease-of-use that Fendt is known for. If the tractor is not ISOBUS-capable or operators want a separate terminal, you can always go back to the C1000.



The Fendt Squadra 1290 UD offers you perfect accessibility.





## FENDT SERVICES

# The best product with the best care and service.

With a Fendt Squadra, you get a cutting edge product that will overcome the toughest of challenges. That's why you can expect that little bit extra when it comes to services from highly-efficient, certified Fendt dealers:

- Fast lines of communication between you and our trained service team.
- 24/7 availability of replacement parts throughout the season
- 12-month warranty on Fendt original parts and their fitting

**100% quality. 100% service: Fendt Services**  
We offer outstanding services to offer you the best possible reliability of use and efficiency from your Fendt Machine:

- Fendt Demo service
- AGCO Finance – finance deals
- Fendt Care – servicing and guarantee extensions



+44 330 123 9909

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 SERVICES

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

**Fendt Demo service**  
Is this a new purchase? You'll love our Fendt solutions and overall efficiency. Let the Fendt Demo service make the decision easier.

**Individual finance 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 Squadra.

**Fendt Care – servicing and guarantee extensions**  
To keep your machine ready for action at any time, we offer a tailored maintenance and repair service beyond the statutory warranty. This only covers the repair risk of a new machine for the first 12 months after delivery. That's where Fendt Care comes in. With flexible durations and flexible rates with and without excess, the machine can be guaranteed even after the first year. Your Fendt dealer will only install Fendt original parts. These have a proven standard of quality and are safety-tested. This ensures the best value retention for your Fendt machine.

Using the smartphone app "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 and in the Google Play Store. Your personal access data is available from your Fendt dealer.



Full control over costs and planning reliability

Fendt Care	Bronze	Silver	
Service	Regular maintenance, fixed maintenance costs	Cover against the risk of repair (excludes wear)	
Benefits	Reliability of use	Full coverage under great conditions	Full protection while you keep costs under control
Regular maintenance	✓	✓	✓
Repair costs		✓	✓
Excess		€190	€0



5 years /  
50,000 bales

With our new Fendt Care rates, Fendt offers extensive coverage for the reliability and repair risk of new machines. Fendt Care gives you complete cost control with exceptional service. Fendt has a flexible and tailored solution for your fleet.



FENDT SQUADRA 1290 UD

Additional extras.



■ Air brake



■ The LED working lights ensure quick and easy filling and knotting even in darkness.



■ The trailing-steered tandem axle guarantees a large contact area with high manoeuvrability.



□ Perfect overview with the optional rear view camera.



□ The optional hydraulic parking jack makes light work of attaching and detaching the tractor.



■ Easy adjustment with the electronic bale length control.



■ All knotters and important drive chains are lubricated automatically, and the lubrication interval can be easily set on the terminal.



■ The bale load cells between the bale chamber and the bale chute measure the exact weight of the bale and send the data straight to your terminal. The system is protected by the integrated wiring set in the chassis and hence the cables are not easily torn.



■ The Fendt Squadra 1290 UD comes with 2 different tyre options for an external width of less than 3 metres: 620/50R22.5 and 620/55R26.5.

FENDT SQUADRA 1290 UD

Equipment variants and technical details.

1290 UD			
Bale size			
Width	cm	120	
Height	cm	90	
Max. length	cm	274	

Weights and dimensions			
Overall width - single/tandem axle (including pickup wheels)*	m	3.0	
Overall width - tyres 620/50R22.5*	m	3.0	
Overall width - tyres 620/55R26.5*	m	3.0	
Overall width - tyres 710/50R26.5*	m	3.2	
Overall length - bale chute, folded in	m	9.83	
Overall height - to top of hand railing, folded in	m	3.02	
Overall height - to top of hand railing, standing	m	3.38	
Weight - single/tandem axle, without cutter unit	kg	13.400	

Main drive			
Flywheel diameter	mm	990	
Flywheel width	mm	250	
Flywheel weight	kg	545	
Flywheel speed	rpm	1500	
Overload protection - slip clutch, overrunning clutch and shear bolt		■	
Gearbox - enclosed, double reduction		■	
Ultra main transmission and drive train		■	
Overload protection - automatic cam clutch		■	
Automatic chain lubrication		■	

Pickup			
OptiFlow pick-up		■	
Overall width - without pickup wheels	m	2.6	
Overall width - with pick-up wheels	m	3.0	
Effective operating width (DIN 11220)	m	2.25	
Tine rows	Number	5	
Tines	Number	80	
Tine spacing	mm	66	
Drive protection - slip and overrunning clutches		■	
HD spiral spring		■	
Pick-up relief via 2 tension springs		■	
Roller pressure pad with deflector plate		■	

Feeding system			
Packer - fork design		■	
Packer tines (hardened)	Number	6	
Overload protection - slip clutch with splined profile		■	

ProCut table			
ProCut table		□	
Cutter	Number	26	
Hydraulic cutter protection		□	
Cutting rotor diameter	mm	650	
Group engagement of knives		0, 13, 26	
Potential cutting length	mm	43.0	
Pull-out knife drawer		■	

1290 UD			
Plunger / bale chamber			
Plunger speed	Strokes/min	50	
Piston stroke	mm	740	
Compression force max.	kN	760	
OptiForm™ bale chamber		■	
Long bale chamber plates	mm	4000.0	
Automatic bale density control		■	

Knotting system / tying			
Ultra double knotter		■	
Double knotter		■	
Knotter	Number	6	
Knotter distance	mm	176	
Twine reserve (reels)	Number	36	
Cleaning fan with hydraulic drive		■	
Automatic knotter lubrication		■	

Bale ejector and bale chute			
Teeth	Number	12	
Tine rows that can be switched on/off	Number	4	
Control from the cab and the rear of the baler		■	
Heavy-duty bale chute		■	
Eject indicator		■	
Hydraulic pivoting system for road transport		■	

Axles and tyres			
Tandem axle - tyres (standard)*		620/50 - 22,5	
Tandem axle - tyres (optional)*		620/55 - 26,5	
Tandem axle - tyres (2nd option)*		710/55 - 26,5	
Tandem axle - max. permissible speed*	km/h	60	
Pneumatic brake		■	

Operation / control and monitoring system			
BaleCreate control system		■	
C1000 - colour terminal		■	
ISOBUS - compliant with ISOBUS 11783		■	

Tractor requirements			
Recommended tractor power - packer version	kW/hp	261/350	
PTO - type III: PTO diameter: 44 mm, 20 teeth		■	
Dual-action control valve, depending on specification (min.)	Number	2	

Special equipment			
Integrated bale scales		■	
Electrical bale length adjustment		■	
Hydraulic support leg		□	
Rear view camera		□	
Integrated moisture measurement		□	
HayBoss preservative applicator		□	
LED vehicle lighting		■	
LED maintenance lighting		■	

\* = sold according to legislation



# FENDT

It's Fendt. Because we understand Agriculture.



[www.fendt.com](http://www.fendt.com)

AGCO GmbH – Fendt Marketing  
87616 Marktoberdorf, Germany

 **AGCO**  
Your Agriculture Company

Fendt is a worldwide brand of AGCO.  
All details regarding scope of delivery, appearance, performance, dimensions and weights, fuel consumption and running costs of vehicles reflect the latest information available at the time of print. These may change by the time of purchase. Your Fendt dealer will be happy to inform you about any changes. The vehicles shown do not feature country-specific equipment.