Your DEUTZ-FAHR sales partner

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SERIES 7.

For more information, please contact your DEUTZ-FAHR sales partner or visit deutz-fahr.com.

DEUTZ-FAHR is a brand of SDF

DEUTZ FAHR

7230 – 7250 TTV Agrotron

DEUTZ FAHR

TOMORROW'S TRACTORS CANNOT BE BUILT WITH YESTERDAY'S TECHNOLOGY.

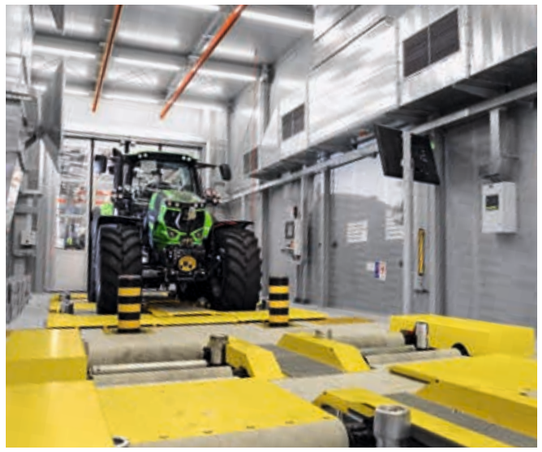
High performance tractors from Europe's most modern tractor factory.

Farmers and contractors invest in innovative technology, top quality, ergonomic operation and maximum productivity. The DEUTZ-FAHR tractor range from 39 to 340 HP offers the right model for any operation and application: useful equipment packages and a comprehensive selection of practical variants turn any tractor into an individual high performance work tool.

In combination with the most advanced precision farming systems, DEUTZ-FAHR offers customised technological solutions for maximum efficiency on the field and on the road. DEUTZ-FAHR is therefore the best partner when it comes to maximising the economic efficiency of your operation.

Europe's most modern tractor factory opened in Lauingen on the Danube in 2017 under the name DEUTZ-FAHR Land. This is where the high performance tractors from 140 to 340 HP are manufactured for the global market.

We set new standards for production efficiency and quality.



Unique in tractor manufacturing: chassis dynamometer and axle suspension test bed.

High tech made in Germany.

DEUTZ-FAHR SERVICE.

Not just close, but also fast.

- High quality requirements
- Original spare parts in premium quality
- Fast and efficient spare parts service
- On-time deliveries – worldwide
- Varied product range
- Excellent price-performance ratio

THE SERIES 7.

Clever design.

The compact design of the current state of the art DEUTZ-FAHR family provides an exceptionally good view to the front. The cab is offset to the rear to ensure a perfect view of the rear implements.

Driving comfort.

The MaxiVision 2 cab with optimum operating convenience and excellent ergonomics together with the electronic suspension on the front axle provide perfect driving comfort. > PAGE 8

MaxCom control armrest.

The integrated, highly ergonomic MaxCom joystick allows intuitive control of e.g. driving speed, driving direction, Comfortip headland management, front and rear linkage – from manual to fully automatic. > PAGE 10

TCD engine.

The water cooled 6-cylinder in-line engine, the powerful common rail injection system and the electronic engine control ensures top engine performance with low fuel consumption. > PAGE 18

Precision farming.

Perfect, easy control and monitoring of all processes with the 12" iMonitor3 – from tractor functions and ISOBUS applications to automatic control systems and data management. > PAGE 14

Compact cooling system.

The patented high performance cooling system and the electronic viscous fan increase engine efficiency. The radiator assembly can be fully opened to facilitate maintenance. > PAGE 19

Powerful hydraulics.

Electronic actuated hydraulic valves, up to five hydraulic valves in the rear and two at the front. The new hydraulic system allows a position-controlled front linkage to be attached. Lifting capacity of the rear linkage: up to 10,000 kg. > PAGE 28

Front axle and brake system.

The suspension concept of the front axle and the brake system are unique in this tractor class. Maximum stability for heavy towing and pushing work thanks to the intelligent and adaptive suspension system. All models are equipped with optional external dry disc brakes and brake boosters. > PAGE 24

TTV transmission.

Latest technology, maximum precision and high efficiency: Thanks to the four mechanical, automatically shifting groups, the continuously variable TTV transmission is extremely efficient. > PAGE 20

Best German technology for maximum productivity.

Economic success is achieved by operations who only have to use as little time and equipment as necessary for handling all tasks over the entire season. Every penny counts when it comes to saving production costs. DEUTZ-FAHR has developed the new 7 Series for these customers: two highly attractive tractor models with up to 246 HP, which feature the typical German characteristics of quality, precision and reliability and are state of the art when it comes to both ecology and economy. The exemplary comfort of the MaxiVision 2 cab, the intuitive operation with the redesigned armrest, state of the art precision farming systems, highly efficient engine and transmission technology, innovative axles and brakes for maximum ride comfort and maximum safety as well as attachment points which allow use of virtually any implement combination – the sum total of the highly innovative and highly intelligent German tractor technology makes the Series 7 the ideal multi-function vehicle for increasing the productivity of professionally run farms and contractors. On the field and on the road.

Series 7 Agrotron TTV	7230 TTV	7250 TTV
Emissions stage	Stage V	
Engine	Deutz TCD 6.1	
Cylinders / capacity	6 / 6,057	
Maximum power (kW / HP)	166 / 226	181 / 246

More technical data can be found on **PAGES 34 / 35.**

Driving and operating comfort is not a luxury, but the prerequisite for maximum productivity. With the Series 7, you can finish your work before your work finishes you.

PERFECT OUTLOOK.

The MaxiVision 2 cab.
Better work comfort. Greater success.

The unique comfort of the MaxiVision 2 cab is already evident from the outside. When it comes to ease of use and ergonomics, the new Series 7 sets the benchmark and makes many tasks easier for the driver. The new InfoCentrePro in the steering console is equipped with a 5" colour display, continuously providing the driver with the current operating information. The settings and the displayed information can easily be adapted to the driver's requirements. For stress-free and precise working in all light conditions, the tractor can optionally be equipped with a 40,000 lm LED light package. All is quiet on the inside. Engine noise, vibrations and heat stay outside because cab and bonnet are separated. The bonnet not only represents the current state of the art design of the DEUTZ-FAHR family, it also provides an exceptionally good view to the front due to the compact design. The cab is offset to the rear to ensure the best possible view of the rear implements.

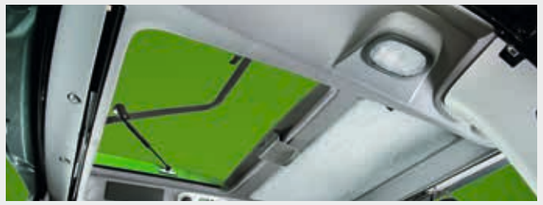
The interior design in friendly, light colours additionally reduces stress, as do the large windows and the sunroof, which is available in three versions: as an easy-open polycarbonate sunroof, as a glass roof with 84 % UV radiation absorption and as a sturdy safety version for optimum view of the front loader. The air conditioning unit with automatic function is extremely quiet and the unusually large number of vents for this tractor class ensure exceptionally even air distribution. Every detail of the MaxiVision 2 cab is designed so the driver can work stress-free and therefore with maximum productivity for long periods.

Highlights

- New InfoCentrePro display integrated in the steering column
- The separation between cab and bonnet ensures less noise, fewer vibrations and less heat radiation
- New compact bonnet with the best view in the industry
- LED package with up to 40,000 lm

New analogue and digital InfoCentrePro. Optimum information concept. Safety thanks to the code lock for the tractor. Lock and unlock with a PIN.

Cab and bonnet are separated to reduce noise and vibration and increase comfort.



Sunroof in three different versions.

Unique on the market. LED package, 2,500 lm per light.

Seat with up to 20° rotation for added comfort and ease of operation.

The PTO activation and engagement (front/rear) is integrated into the armrest ...

... as well as the controls for the front and rear linkage.

The hydraulic valves are actuated with a joystick with an integrated thumbwheel.

INTUITIVE FOR MAXIMUM PRODUCTIVITY.

Automated functions and relaxed operation.

The redesigned armrest makes operation of the Series 7 even more relaxed and intuitive. All routine functions can be automated. Simply select the desired basic setting and reactivate at the press of finger. The new, highly ergonomic MaxCom joystick is used to control driving speed, direction of travel, Comfortip, and the linkages as well as for recalling cruise control speeds. Intuitive, without changing hand position or thinking long.

All controls are clearly marked with colours and are logically arranged according to their frequency of use. The driver has full control of the new Series 7 at all times and can work at a high level of productivity for a very long time.

Productivity requires technical solutions which only reach their full efficiency when they are perfectly coordinated. The new Series 7 is the perfect example.

GREEN AT HEART.

Productivity boost through efficiency.

The engine of the new Series 7 was completely revised with regard to exhaust technology and cost efficiency. The new Deutz 6.1 engine not only meets emissions stage V, it also has a better response, offers a greater torque reserve and starts up with a higher torque. At the same time, fuel and AdBlue consumption were reduced by 5 % compared to the previous model. The new exhaust system is equipped with SCR exhaust treatment and SCR exhaust treatment and an additional, passive diesel particle filter (DPF). Compared to conventional active filters, the passive DPF offers three advantages: no fuel injection in the filter, lower heat generation and significantly faster regeneration of the filter. That saves fuel and therefore money and ensures compliance with all international emissions standards.

Engine efficiency is supported by the electronic viscous fan and the compact patented high performance cooling system. The radiator unit can be opened fully to greatly facilitate maintenance. The air is cleaned before it enters the air filter, which significantly reduces service work. The Deutz 6.1 engine with emissions stage V – a prime example of modern technology made in Germany – is synonymous with maximum know-how and outstanding economy, so you can achieve the best results.

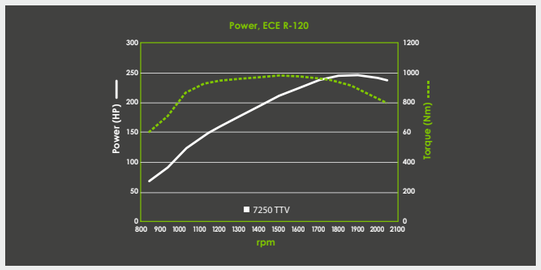
Highlights

- Faster response, higher torque reserve and higher start-up torque
- Up to 5 % less fuel and AdBlue consumption
- Electronic viscous fan for even more efficiency and quieter running

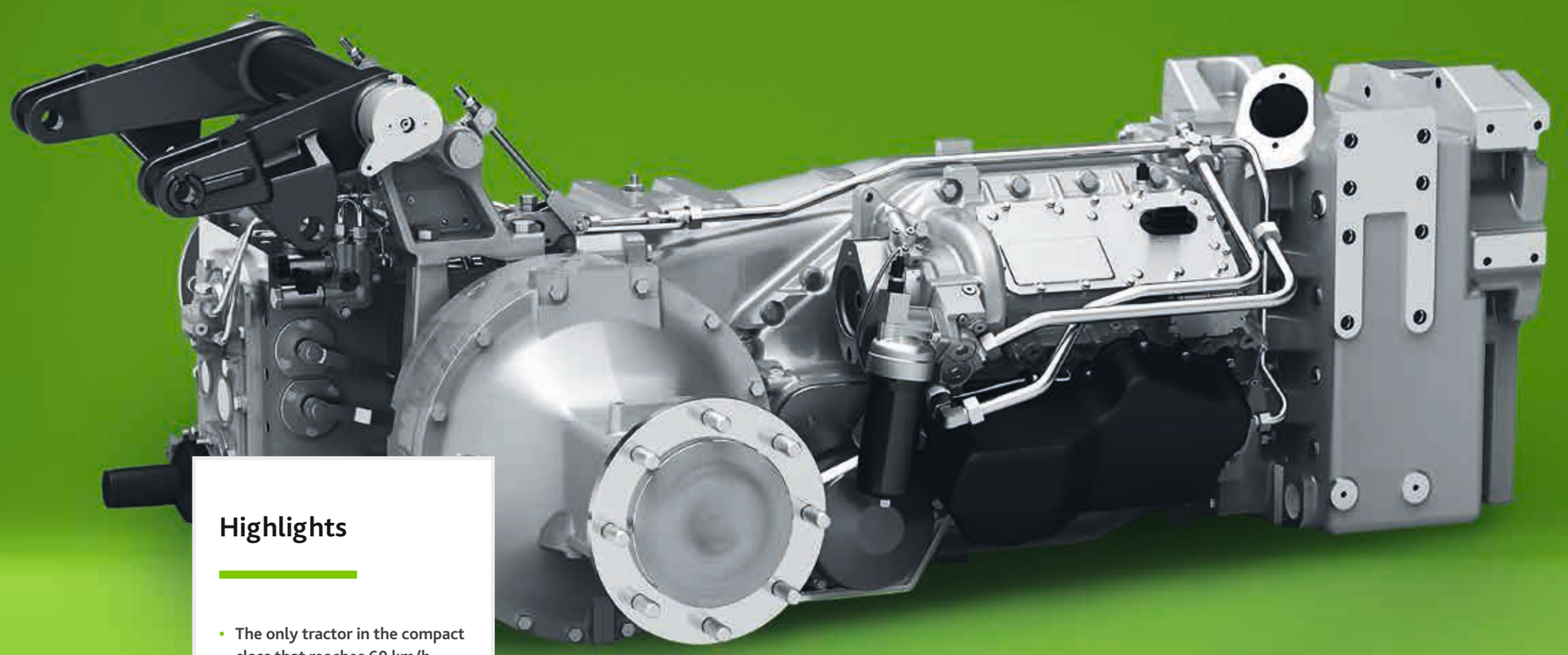
Deutz 6.1 engine with emissions stage V.

SCR exhaust gas treatment and passive DPF save fuel and operating costs.

Long service life: redesigned radiator unit made from aluminium, opens fully for easy maintenance.



Greater torque reserve and more torque at lower engine speeds.



Highlights

- The only tractor in the compact class that reaches 60 km/h
- 40 km/h, 50 km/h or 60 km/h at reduced engine speed
- Highly comfortable and efficient

PowerShuttle and SensClutch can be used to easily adjust the response characteristics of the transmission.

Four driving speeds can be stored and recalled for optimising work processes.

Hydraulic shuttle transmission with two wet multi-plate clutches and an electronic control unit.

MAXIMUM PRODUCTIVITY WITHOUT CHANGING GEARS.

The state of the art continuously variable TTV transmission technology of the Series 7.

Maximum productivity is the result of a precise transmission of forces and exact working speeds. The new Series 7 is equipped with state of the art continuously variable TTV transmission technology. A solid basic concept which has proven successful for many years, with new software for even better handling. DEUTZ-FAHR is the only manufacturer that can offer a 60 km/h tractor in such a compact design. All top speeds (40 km/h, 50 km/h or 60 km/h) are reached at reduced engine speed and are therefore extremely fuel saving. Overall, a speed range from 0.2 to 60 km/h is covered. For field work, the TTV transmission operates with maximum efficiency at all speeds.

Thanks to the four mechanical, automatically shifting groups, the highly comfortable TTV transmission is extremely efficient.

Engine and transmission management are fully integrated. The mechanical shifting stages are changed automatically. Up to four driving speeds can be stored for optimising the work process. Driving with a trailer on hilly terrain becomes even safer with trailer stretch mode, as trailer and tractor are controlled independently. Every single detail of the TTV transmission system was designed to maximise productivity of the Series 7.

The Series 7 offers maximum vehicle control in all situations: on the field, on the road, on difficult terrain, at top speed and with heavy attachments. The Series 7 gives you a uniquely precious feeling: safety in all situations.

Highlights

- Unique suspension concept for the front axle
- Maximum stability for towing, also on uneven terrain
- Unique dry disc brakes
- Brake booster for easy braking in all conditions

Unique new suspension concept for the front axle.

The brake booster provides high braking performance even at the lightest press of the pedal.

MAXIMUM SAFETY.

Full control thanks to unique front axle and brake system.

The suspension concept of the front axle and the brake system of the Series 7 are unique in this tractor class. The intelligent and adaptive suspension system give the new Series 7 maximum stability – for heavy towing and for pushing tasks. The innovative anti-dive system stabilises the tractor during all transport tasks and increases safety. To further improve safety when driving on uneven terrain, the suspension cylinders were mounted at the front side of the axle.

The 7 Series is the only standard tractor to feature optional dry high performance disc brakes on the front axle. An additional brake booster system guarantees the highest possible braking power with the lowest pedal pressure. No other standard tractor can offer a heavy duty front axle, dry disc brakes in combination with the booster brake system, and more safety, especially at higher speeds. This allows even large and heavy implements to be carried on public roads.

The productivity of a tractor depends directly on the attachments which can be used. The objective is to reduce overruns through larger and heavier implement combinations. This is where the new Series 7 shows its strength without compromise.

YOUR PERSONAL POWERHOUSE.

Attachment points with powerful, state of the art hydraulic system.

The new Series 7 offers hydraulics technologies which were previously available only in tractors from higher performance classes. Up to five hydraulic control valves are located at the rear, which the front is equipped with two valves. The absolute highlight is that all valves can be proportionally controlled.

The new hydraulics system of the Series 7 allows a position-controlled front linkage to be attached. High-tech which was previously only available in the Series 9. The lifting capacity is an impressive 5,480 kg. In addition, the implements are much closer to the tractor thanks to the new front linkage concept, which significantly increases the lifting power and provides better balance. An ISOBUS interface is also integrated into the front attachment point.

The hydraulic pump delivers 120 l/min as a standard or 160 l/min on request. The load sensing system is part of the standard features. A separate pump supplies the steering, so that the work hydraulics are not affected. The rear lifting capacity is 10,000 kg.

With the rear PTO speeds (540ECO / 1000 / 1000ECO) and 1000 or 1000ECO at the front, any task can be completed efficiently. Thanks to the high performance potential in the low engine speed range, the ECO PTOs can be activated more frequently, which significantly reduces fuel consumption and noise emissions.

All hydraulic and PTO functions can be conveniently set and controlled on the multi-function armrest in the cab.

Up to five proportional control valves at the rear and two at the front. Front linkage closer to the tractor and integrated.

Convenient: ISOBUS interfaces at front and rear.

External operation for hydraulics, rear linkage and PTO.

Not a drop more than needed, but not a drop less either. Productivity means achieving a maximum result with minimum use of equipment. That is why we have equipped the new Series 7 with the Connected Farming Systems.

Highlights

- Higher productivity
- Easy to use
- Secure data
- Added convenience
- Unprecedented precision
- Optimum connectivity
- Highest level of compatibility
- Maximum return
- Better planning of your tasks

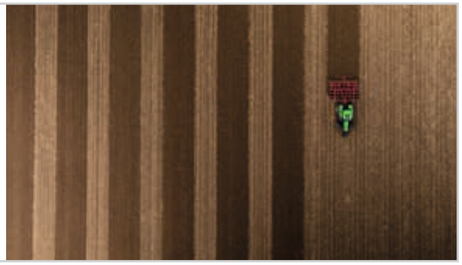
CONNECTED FARMING SYSTEMS.

Precision is the basic prerequisite for productivity.

Connected Farming Systems combines a large number of digital solutions for efficient and comfortable operation of tractors and combine harvesters. This includes reliable, automatic high precision track guidance systems, ISOBUS applications, data management and fleet management. The iMonitor3 is at the core of the operation of most applications – it is the central, user friendly control element.

SDF Guidance

Modern steering systems save resources, increase convenience and productivity and ensure reliable precision. You can rely on high reliability even in difficult working conditions such as fog or night time. Satellite navigation provides the basis for this. You can choose the system that best suits your operation.

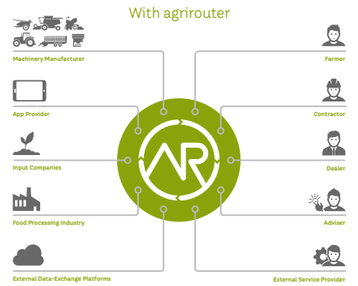


SDF Fleet Management

Optimise operations. Increase efficiency. The connectivity solutions from SDF keep you connected at all times. It allows convenient managing of relevant data. The BTM (Basic Telematic Module) is the entry level for transmission of tractor data. Telemetry data are sent to e.g. a smartphone via a Bluetooth connection. All relevant data can be called up with an app. In the Pro version, the CTM (Communication Telematic Module) transfers the data directly to the office over the Internet using an integrated e-SIM card.

SDF Data Management

Efficient data management is becoming increasingly important for optimising work processes. SDF uses standard file formats for reliable data exchange so customers can keep an overview at all times and data are transferred in a coordinated manner. With the agrirouter, we offer a universal data exchange platform that allows farmers and contractors to exchange data between machinery and agricultural software applications from a wide range of manufacturers. The agrirouter simplifies data exchange and therefore work processes, reduces office work and improves economic efficiency.



ISOBUS

Electronics make agricultural machinery safer, more powerful, more precise and more efficient. The driver can use ISOBUS applications to individually control all implements with one single monitor – the iMonitor3 is also the central control element for all ISOBUS applications. The iMonitor3 easily manages tasks such as assigning AUX-N functions, processing application maps or automatic switching of up to 200 sections. A great number of functions are even available without activation.

IN USE ALL YEAR ROUND.

The extensive additional options help you master even the most specialised tasks.

To optimise your tractor for special tasks or to maximise comfort, you can choose from a wide range of additional factory fitted DEUTZ-FAHR options: From front loader packages, front mounted plates, LED work lights, air conditioning, iMonitor and camera via ISOBUS and PowerBeyond air brake system. Our original equipment ensures that everything is a perfect fit and the quality and performance are right. Each individual tractor can be equipped with extremely versatile and flexible options, so it can be used all year round. Depending on the task profile, tractors from the DEUTZ-FAHR range meet the most diverse requirements for efficiency and productivity, because DEUTZ-FAHR combines decades of experience with continuous technological innovation. So you can get really far ahead. Please ask your DEUTZ-FAHR sales partner. They will be happy to advise you.

The DEUTZ-FAHR ISOBUS interfaces at front and rear make the tractor compatible with attachments from all renowned manufacturers.

Partial leather seat for even more driving comfort.

The compressed air brake system decelerates trailers in all weight categories reliable and safely.

LED package with up to 40,000 lm.

Lockable tank covers for fuel and AdBlue tanks.

Integrated camera with automatic full screen mode (e.g. reversing) for overview and safety.

Rim ballast with up to 1,840 kg ballast weight.

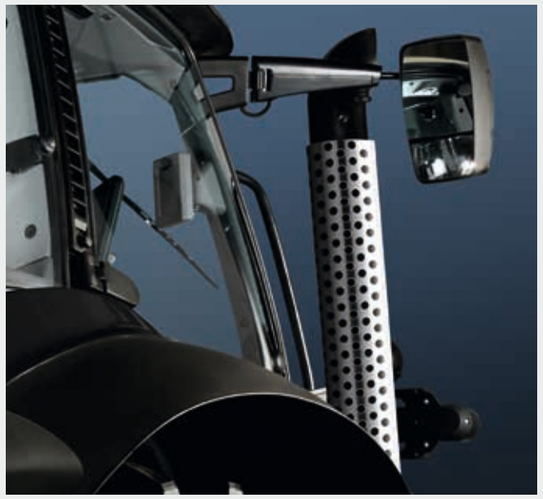
Cast iron front ballast with 1,000 kg for three-point attachment.

Highlights*

- Warrior comfort seat
- DEUTZ-FAHR floor mat
- Brilliant black paint on request
- Stainless steel tailpipe trim
- LED package
- Automatic climate control

*Available equipment depends on the market.

LED package and brilliant black paint.



Exhaust with stainless steel trim.

LED lighting for external control.

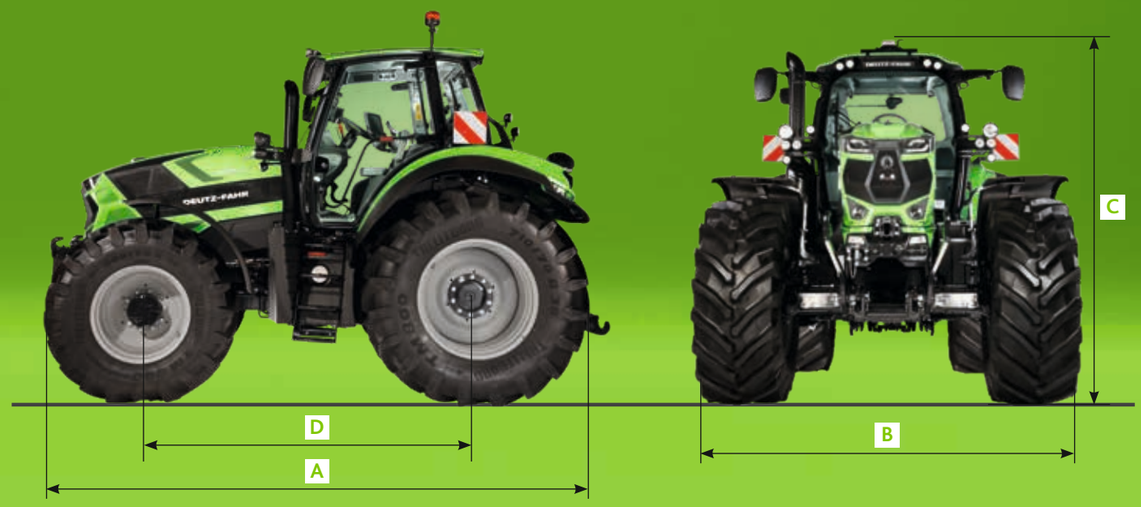
EXCLUSIVENESS FOR YOU!

The 7250 TTV as a Warrior.

The 7250 TTV Warrior is the special edition model for the toughest tasks on the field and on the road. Benefit from the Warrior LED light package, enjoy the Warrior comfort seat and the automatic climate control. The impressive look of the Warrior Edition features a stainless steel tailpipe trim and, on request, the striking brilliant black paint. Added comfort and exclusive options: the 7250 TTV Warrior!

Technical data		SERIES 7 TTV AGROTRON	
		7230 TTV	7250 TTV
ENGINE			
Manufacturer		Deutz	
Model		TCD 6.1 L06	
Emissions stage		V	
Cylinders / capacity	Qty. / cm³	6 / 6,057	
Turbocharger with charge air cooling		●	
Electronic viscous fan		●	
Injection pressure (DCR)	bar	1,600	
Max. power (ECE R120)	kW / HP	166 / 226	181 / 246
Power at rated speed (ECE R120)	kW / HP	157 / 214	169 / 230
Homologated power (2000/25/EG)	kW / HP	166 / 226	174 / 237
Speed at maximum power	rpm	1,900	
Max. rated engine speed	rpm	2,100	
Electronic engine control		●	
Air filter with dust ejector		●	
Exhaust with outlet on cab pillar		●	
Fuel tank capacity	Litres	400	
AdBlue capacity	Litres	50	
TTV TRANSMISSION			
Model		ZF S-Matic S240 / S240HD	ZF S-Matic S240 / S240
Speed ranges	Qty.	4	
Top speed	km/h	40 / 50 / 60	
Top speed 60 km/h ECO	rpm	@1,980	
Top speed 50 km/h ECO	rpm	@1,690 / @2,100 (HD)	
Top speed 40 km/h SuperECO	rpm	@1,357 / @1,760	
Active standstill (PowerZero)		●	
Cruise control	Qty.	2+2	
Driving strategies (Manual / Auto / PTO)		●	
ECO/power management		●	
Adjustable powershuttle		●	
Powershuttle with 5 control stages		●	
PTO			
Rear PTO 540ECO / 1000 / 1000ECO		●	
Front PTO 1000		○	
Front PTO 1000ECO		○	
Front PTO 1000 / 1000 ECO		○	
AXLES AND BRAKES			
Front axle with suspension		●	
Electro-hydraulic activation of all-wheel drive		●	
Electro-hydraulic differential lock		●	
ASM system		●	
Rear wheel brake system with activation of all-wheel drive		●	
External dry disc brakes, front		○	
Brake booster (PowerBrake)		●	
Pneumatic trailer brake		○	
Bar axle		○	
Electronic parking brake (EPB)		●	
HYDRAULICS AND LINKAGE			
Pump capacity (standard)	l/min	120	
Hydraulic system with centre system (load sensing)		●	
Pump capacity (optional)	l/min	160	
Maximum removable oil quantity	Litres	45	
Separate oil tank		●	
Hydraulic auxiliary control valves (standard)	Qty.	4	
Hydraulic auxiliary control valves (optional)	Qty.	5 / 6 / 7	
Rear linkage lifting capacity	kg	10,000	
Front linkage with position control		○	
Front linkage lifting capacity	kg	5,480	
ELECTRICAL SYSTEM			
Voltage	V	12	
Standard battery	V / Ah / A	12 / 180 / 700	
Alternator	V / Ah / A	12 / 200	
Starter motor	V / kW	12 / 3,1	
External socket		●	
Interface for attachments 11786 (7-pole)		○	
External socket, 30 A		●	

Technical data		SERIES 7 TTV AGROTRON	
		7230 TTV	7250 TTV
CAB			
MaxiVision 2		●	
Pneumatic suspension		○	
Adjustable rear view mirrors		●	
Adjustable, heated rear view mirrors		○	
Air conditioning		●	
Automatic air conditioning		○	
Roof hatch		●	
MaxCom multi-function armrest		●	
Light panel		●	
Light system control		●	
Camera		○	
Agrosky ready		○	
ISOBUS compatible (class 3)		○	
Comfortip Professional		○	
Max-Comfort Dynamic XL seat		●	
Max-Comfort Dynamic XXL seat		○	
Max-Comfort Evolution Active DDS seat		○	
Padded passenger seat		●	
Prepared for radio with speaker		●	
Halogen work light		●	
LED work lights, 4th generation		○	
Swivel seat		○	
Code lock		●	
COUPLINGS			
Automatic trailer hitch		○	
Ball hitch, height adjustable (4,000 kg)		○	
Ball hitch, fixed (4,000 kg)		○	
Tie rod, hydraulic		○	
Pick-up hitch		○	
Piton Fix		○	
DIMENSIONS AND WEIGHTS			
Front tyres (max.)		600 / 70 R30	
Rear tyres (max.)		710 / 70 R38	
Front tyres (min.)		540 / 65 R34	
Rear tyres (max.)		650 / 65 R42	
Wheelbase (D)	mm	2,868	
Length (A)	mm	4,817 / 4,972	
Height (C)	mm	3,153	
Width (B)	mm	2,500 / 2,736	
Ground clearance	mm	555	
Unladen weight, front	kg	3,100 / 3,915	
Unladen weight, rear	kg	5,100 / 5,185	
Total unladen weight	kg	8,200 / 9,100	
Wheel weights		○	
Maximum permissible axle load, front	kg	6,000	
Maximum permissible axle load, rear	kg	10,000	
Maximum permissible weight (at 40 km/h)	kg	14,500	



●= standard O= option –= not available

Technical data and figures are only provided for guidance. DEUTZ-FAHR is committed to continuously adapting its products to your requirements and therefore reserves the right to make updates without prior notice.
* Data for standard tyres