

7 SERIES TTV



DEUTZ-FAHR
7230 - 7250 TTV Agrotron





TOP GERMAN TECHNOLOGY FOR TOP PRODUCTIVITY.

Success is achieved by businesses that are able to tackle every task throughout the season using the lowest possible amount of resources and working hours. Every cent counts when it comes to reducing production costs. DEUTZ-FAHR has developed the new 7 Series for such businesses. The two very attractive tractor models deliver up to 246 HP and stand out for a range of trademark German characteristics: high quality, high precision and reliability combined with cutting-edge technology in terms of both cost-effectiveness and comfort.

The 7 Series represents the culmination of highly innovative and intelligent tractor technology Made in Germany, offering the excepti-

7 SERIES TTV AGROTRON	7230	7250
Max. power (kW/HP)	166/226	181/246

onal comfort of the MaxiVision 2 cab, intuitive controls, a newly designed armrest, state-of-the-art precision farming systems, highly efficient engine and transmission technology, innovative axles and brakes which ensure optimal driving comfort and maximum safety. Furthermore, the attachment points can be used with almost every conceivable equipment combination, making the 7 Series ideal multipurpose vehicles for increasing the productivity of professional contractors and agricultural businesses – both in the field and on the road.

DRIVING COMFORT AND OPERATING CONVENIENCE ARE NOT MERE LUXURY, BUT A PREREQUISITE FOR MAXIMUM PRODUCTIVITY. TACKLE WORK BEFORE WORK GETS THE BETTER OF YOU – WITH THE 7 SERIES.





The highlights:

- New InfoCenter display into the cluster
- More silent, less vibration and less incoming heat thanks to the separation between cab and bonnet
- New compact engine hood. Best in the market view
- Up to 40.000 lumen LED package with four working headlights

The unique features offered by MaxiVision 2 cab can be seen inside and also from outside. When it comes to ease of use and ergonomics, the new 7 Series takes care of work for the driver to the extent permitted by current technology. The new InfoCentre on the dashboard features a 5" colour display, providing the driver with a stream of data about the tractor's operating conditions. It offers maximum convenience in terms of settings and information. In order to allow precise, stress-free work in all lighting conditions, the tractor can be fitted with an optional 40.000 lumen LED package with four working headlights. The interior is wonderfully peaceful. It keeps out all engine noise, vibrations and heat because the cab and engine hood are not connected. The new hood encapsulates the latest, highly contemporary look of the DEUTZ-FAHR tractor family, while its compact design also ensures outstanding forward visibility. The best possible view of rear attachments is guaranteed by the rearward position of the cab.

Other features that reduce stress are the bright, welcoming colours of the interior, the large windows and a sunroof, available in three designs: an easy-to-open green roof, a glass roof with 84% UV radiation



New InfoCenter, analog and digital. Top information concept.



Exclusive in market. LED lights, 2.500 lumen per light.



New hood. Best view on front implements.



Sunroof with 3 different configurations.

MAXIVISION 2 CAB. INCREASING PRODUCTIVITY BY DECREASING STRESS.

absorption and a FOPS safety version for optimal visibility during front loader operation.

The air conditioning system – with automatic functions – is extremely quiet, while the largest number of air outlet openings in this tractor class guarantee uniform air distribution like no other model. Every detail of the MaxiVision 2 cab has been designed to help the driver work for long periods without stress, thus achieving maximum productivity.



PTO controls (front/rear) and engagement handily integrated in the armrest...



... as well as the front and rear lift adjustments.




Hydraulic valves are controlled via simple joystick with integrated smart wheel.

ERGONOMIC OPERATION. THE INTUITIVE WAY TO MAXIMUM PRODUCTIVITY.

The newly designed armrest makes the 7 Series even more relaxing and more intuitive to operate. All routine functions can be automated. Simply pre-select the desired basic settings and activate them at any time with a tap on the screen. The new, highly ergonomic joystick on the armrest controls everything from driving speed, direction of travel and cruise control selection to the ComfortTip system, lift controls and front lift controls.

It is an intuitive system that requires no change of hand position and no more than a second's thought.

All of the controls are clearly marked with colours and are logically arranged according to their frequency of use. The driver has complete control over the new 7 Series at all times and can work for very long periods at a highly productive rate.

A green tractor is shown from a low angle, pulling a large precision farming sprayer across a field of young corn plants. The sprayer has multiple nozzles that are spraying a fine mist of liquid onto the crops. The tractor's headlights are on, and the sky is a mix of dark blue and purple, suggesting dusk or dawn. The field is a mix of dark soil and green corn plants.

NOT A DROP MORE THAN NECESSARY,
BUT NOT A DROP LESS. PRODUCTIVITY
MEANS ACHIEVING THE GREATEST
RESULTS WITH THE FEWEST POSSIBLE
RESOURCES. OUR INTELLIGENT SYSTEMS
FOR THE NEW 7 SERIES THEREFORE HAVE
ECONOMY AND ECOLOGY IN MIND.



The highlights:

- 7 Series offers the whole range of DEUTZ-FAHR Precision Farming technologies from factory
- iMonitor2 with a 12" display. The largest on the market

The new 7 Series can be factory fitted with the most advanced precision farming technology. The features of the central monitoring and control unit are unique, as are its dimensions: the iMonitor2 has a screen size of 12". Everything runs on a single, clear user interface, from tractor functions to ISOBUS applications, automatic steering, control systems and data management. Two independent cameras can be fitted as an option. The new 7 Series can also be TIM ready (Tractor Implement Management) and can react on implement requests. Such technology boosts your precision and comfort at work. Another option is the VT4 system. This makes it possible to control attachments using the tractor's own switch, thus avoiding too many implement controls/monitors in the cabin. The section control and variable rate control systems for sprayers and seeders are included as standard. These allow the driver to activate or deactivate sections in order to avoid overlaps and to conserve crop protection agents and seeds. Thanks to an optional remote control system, product specialists can support the operator remotely in the screen. Of course, there are also automatic control systems as well as solutions for wireless data transmission and data management, covering every stage from order planning to invoicing.

PRECISION IS THE PREREQUISITE FOR PRODUCTIVITY.



TIM ready (Tractors Implement Management) functions can follow implement requests.



VT4 ready. Implement functions controlled by tractor own buttons.



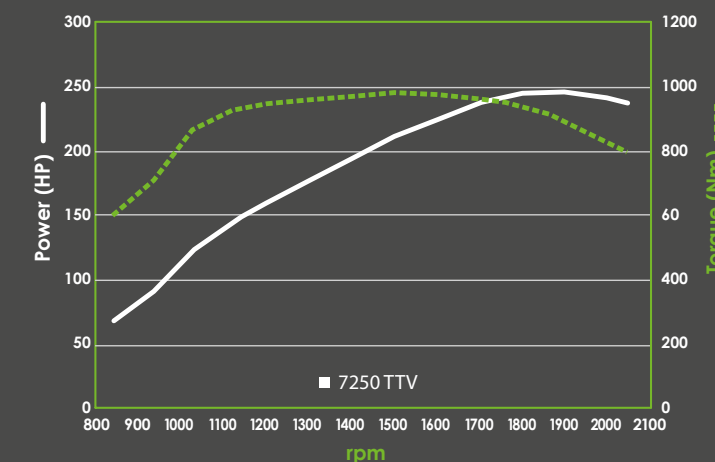
Section control/variable rate control as standard.



Thanks to the ISOXML standard, tasks can be planned, documented and evaluated with numerous agricultural field records.



PRODUCTIVITY DEMANDS A RANGE OF TECHNOLOGICAL SOLUTIONS THAT ACHIEVE THEIR FULL EFFICIENCY WHEN THEY ARE PERFECTLY BALANCED TO WORK IN HARMONY. THE NEW 7 SERIES IS A PERFECT EXAMPLE OF THIS.



The highlights:

- Faster reaction speed, higher reserve torque and higher starting torque
- Up to 5% in average lower fuel and AdBlue consumption
- Electronic Visco fan for a higher efficiency

The new 7 Series is equipped with a completely redesigned engine in terms of environmental impact and cost-effectiveness. The new DEUTZ 6.1 Stage 4 (Tier4 Final) engine is more responsive, offers higher reserve torque and starts with a higher torque and, at the same time, consumption of fuel and AdBlue has been reduced by 5 %, compared to the previous generation. The revised exhaust system features SCR exhaust after treatment and an additional, passive DPF (diesel particulate filter). DPF offers three advantages compared to the usual active filters: no fuel injection the filter, less heat is generated around the unit and the filter regenerates much more quickly. This saves fuel and money while conforming to all international emission standards.

The efficiency of the engine is supported by Electronic Visco fan and the redesigned, compact high-performance cooling system. The patented cooling system can be opened completely, which makes servicing much more straightforward. A pre-cleaning system on the air intake slots prevents dirt from entering the air filter, again making a substantial difference to service costs. The DEUTZ 6.1 Stage 4 (Tier4 Final) engine – modern technology made in Germany – is synonymous with the highest levels of know-how and efficiency, allowing you to achieve maximum productivity.

STAGE 4 SIX CYLINDER ENGINES. PRODUCTIVITY POWERED BY EFFICIENCY.



Less fuel and AdBlue consumption. 400 L diesel and 50 L AdBlue tank for long working sessions.



New designed cooling system. Fully openable for easy maintenance.



SCR aftertreatment system and passive DPF (diesel particulate filter) for saving fuel and operating costs.



The highlights:

- The only compact tractor that can reach 60 Km/h
- 40 Km/h, 50 Km/h or 60 Km/h at reduced engine speeds
- Highly comfortable and efficient

Maximum productivity is the result of precise power transmission and exact working speeds. The new 7 Series is fitted with state-of-the-art electronically controlled continuously variable TTV transmission technology. It is a solid concept that has been tried and tested over the years, now with new software for even better handling. DEUTZ-FAHR is the only manufacturer that offers a 60 Km/h tractor in such a compact design. All final speeds of 40 Km/h, 50 Km/h or 60 Km/h can be reached at a reduced engine speed, which is extremely fuel efficient. Overall, the speed range extends from 0.2 Km/h to 60 Km/h. For field work, the TTV transmission system operates most efficiently at all speeds.

The highly comfortable TTV transmission is extremely efficient thanks to its four mechanical stages, which are automatically changed. Engine and transmission management are fully integrated. That's a comfortable automatic system for mechanical range shifting. Up to four cruise speeds can be stored in order to optimise work processes. A new trailer stretch mode increases driving safety on hilly terrain. Every single detail of the TTV transmission system has been designed to maximise the productivity of the 7 Series.

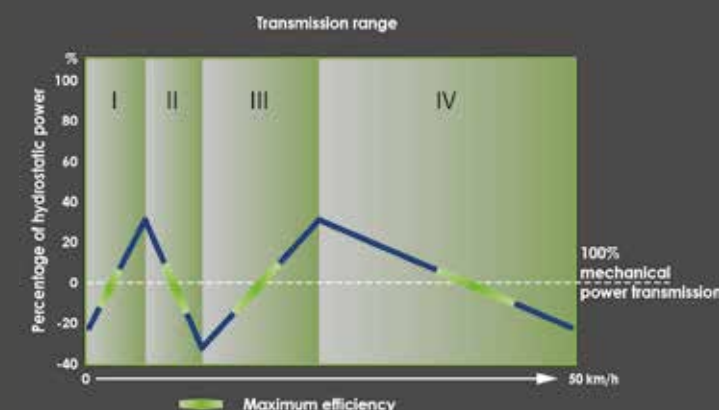
TTV TRANSMISSION. TURN POWER INTO PRODUCTIVITY.



PowerShuttle with SenseShift, the 5 levels of reversing sensitivity can be easily adjusted.



Up to 4 cruise speed can be memorized to optimize applications and efficiency of the process.



PRODUCTIVITY NEEDS MAXIMUM VEHICLE CONTROL – BOTH IN THE FIELD AND ON THE ROAD. AT TOP SPEED AS WELL AS ON CHALLENGING GROUND CONDITIONS AND WITH THE HEAVIEST EQUIPMENT. THE 7 SERIES GIVES YOU A UNIQUELY VALUABLE SENSATION: SAFETY IN EVERY SITUATION.





The highlights:

- Unique heavy duty front axle with suspension
- Maximum stability when towing and driving loads
- Unique dry disc brakes
- Booster brake system



Unique. The new heavy duty suspended front axle concept.



Booster brake system ensures high braking performance with low pedal force.

AXLES AND BRAKES. OPTIMUM PRODUCTIVITY NEEDS OPTIMUM SAFETY.

The new heavy duty front axle with suspension and the braking system of the 7 Series are unique in this tractor class. The intelligent and adaptive suspension system give the new 7 Series maximum stability – both during heavy towing operation and when driving loads. The innovative Anti Dive system stabilises the tractor during all transport operations and boosts driving safety. In order to ensure better handling on uneven ground, the dampers are mounted on the front side of the axle.

The 7 Series is the only standard tractor that is fitted with high performance dry disc brakes on the front axle. The additional Booster brake system ensures maximum braking performance with the lightest pedal pressure. No other standard tractor offers a heavy duty front axle, dry disc brakes combined with the booster brake system and improved safety, especially at high speeds.

The maximum permitted weight of the 40 Km/h version is 14500 kg. As a result, even large and heavy equipment combinations can be driven easily.

THE PRODUCTIVITY OF A TRACTOR DEPENDS DIRECTLY ON THE EQUIPMENT IT CAN DRIVE. THE AIM IS TO REDUCE THE AMOUNT OF DISTANCE TRAVELLED THROUGH INCREASINGLY LARGE AND HEAVY ATTACHMENT COMBINATIONS. THIS IS WHERE THE NEW 7 SERIES CLEARLY DEMONSTRATES ITS STRENGTH.





The highlights:

- All hydraulic valves are proportional controllable
- Position-controlled front linkage
- New front lift concept, closer and integrated to the tractor
- ISOBUS plug in the front

LINKAGES. LIFT UP YOUR PRODUCTIVITY.

The new 7 Series provides attachment area technology that was previously available only in higher power classes. The rear attachment area features up to five hydraulic control valves, while the front attachment area has two. The absolute highlight is that all valves are proportionally controlled.

The new hydraulic system of the 7 Series allows a position-controlled front linkage to be equipped. Until now, such advanced technology was only available in the 9 Series. The lifting capacity is up to 5480 kg, an impressive figure. Additionally, equipment is positioned much closer to the tractor with the newly integrated front linkage concept, which substantially enhances lifting capacity. The front mounting area also features an integrated ISOBUS terminal.



Up to 5 proportional spool valves in the rear and 2 in the front. Front lift closer and integrated to the tractor.



Practically: ISOBUS plug in the front.



External control of hydraulics, rear lift and PTO from both sides.

The hydraulic pump delivers an output of 120 L/min as standard or 160 L/min on request. The load sensing system is included as standard. A separate pump supplies the steering so that the working hydraulic system is not compromised. The rear lifting capacity is 10000 kg.

With three PTO speeds (540ECO/1000/1000ECO) at the rear and 1000 or 1000ECO at the front, all work can be done very efficiently. Thanks to the down speed engine characteristics, the inserts of the ECO power take-off shafts can be extended and fuel consumption significantly reduced.

All hydraulic and PTO functions can be easily set and controlled from the armrest in the cab.

IT WAS A LONG JOURNEY. FROM
TILLING THE LAND TO SOWING THE
SEED, FROM TENDING THE CROPS TO
HARVEST – ISN'T IT A GOOD FEELING
AT THE END OF THE SEASON WHEN
YOU CAN SAY: 'WITH THE NEW 7 SERIES,
I WAS AS PRODUCTIVE AS POSSIBLE.
MY WORK HAS PAID OFF.'



Technical data		7 SERIES TTV Agrottron	
		7230 TTV	7250 TTV
ENGINE			
Manufacturer		Deutz	Deutz
Model		TCD 6.1 L06	TCD 6.1 L06
Emissions		Stage 4 (Tier4 Final)	Stage 4 (Tier4 Final)
Cylinders/Displacement	n°/cm³	6/6057	6/6057
Turbo intercooler		●	●
Viscostatic fan		●	●
Deutz Common Rail (DCR)	bar	1600	1600
Max. power (ECE R120)	kW/HP	166/226	181/246
Power at rated engine speed (ECE R 120)	kW/HP	157/214	169/230
Max. homologated power at rated speed (2000/25/EC)	kW/HP	166/226	174/237
Engine speed at maximum power	rpm	1900	1900
Max. engine speed (rated)	rpm	2100	2100
Engine speed at maximum torque	rpm	1600	1600
Electronic engine governor		●	●
Air filter with dust ejector		●	●
Exhaust on cab A-pillar		●	●
Fuel tank capacity	litres	400	400
AdBlue® tank capacity	litres	50	50
TTV TRANSMISSION			
Model		ZF S-Matic S240 / S240HD	ZF S-Matic S240 / S240HD
Number of speed ranges	n°	4	4
Max. speed	Km/h	40/50/60	40/50/60
Overspeed 60 Km/h ECO		●	●
Overspeed 50 Km/h ECO		●	●
Overspeed 40 Km/h SuperECO		●	●
PowerZero		●	●
CruiseSpeed	n°	2+2	2+2
Driving Strategies (Auto/Manual/PTO)		●	●
ECO/Power control		●	●
Hydraulic reverse PowerShuttle		●	●
SenseClutch		●	●
PTO			
PTO 540ECO/1000/1000ECO		●	●
Front PTO 1000		○	○
PTO 1000ECO		○	○
AXLES AND BRAKES			
Suspended front axle		●	●
DT Front wheel drive electrohydraulically engaged		●	●
Electrohydraulically operated differential lock		●	●
ASM system		●	●
Rear braking action with DT engagement		●	●
External disc brakes in the front		○	○
PowerBrake		●	●
Pneumatic trailer brake		○	○
Hydraulic trailer brake		○	○
Bar axle (plug on)		○	○
Automatic Electronic Parking Brake (EPB)		●	●
HYDRAULIC SYSTEM AND HITCH			
Pump output (std)	L/min	120	120
Closed centre hydraulic system (Load Sensing)		●	●
Pump output (opt)	L/min	160	160
Max. usable oil volume	litres	45	45
Separate oil tank		●	●
Auxiliary hydraulic distributors (std)	n° of ways	8	8
Auxiliary hydraulic distributors (opt)	n° of ways	10/12/14	10/12/14
Rear hitch electronic		●	●
Rear electronic lift capacity	kg	10000	10000
Front hitch		○	○
Front lifting capacity	kg	5480	5480

Technical data and pictures are indicative. Committed to delivering a product more and more in line with your needs, DEUTZ-FAHR reserves the right to update the specifications of its machines at any time without notice.

Technical data		7 SERIES TTV Agrottron	
		7230 TTV	7250 TTV
ELECTRICAL SYSTEM			
Voltage	V	12	12
Standard battery	V/Ah/A	12/180/700	12/180/700
Alternator	V/Ah/A	12/200	12/200
Starter motor	V/kW	12/3,1	12/3,1
External power socket		●	●
Implement interface 11786 (7pole)		○	○
Power socket for higher current applications		●	●
CAB			
MaxiVision 2 cab		●	●
Air suspension		○	○
Adjustable rear view mirrors		○	○
Heated and adjustable rear view mirrors		○	○
Air conditioning		●	●
Automatic A/C system		○	○
Openable roof		●	●
Multifunction joystick		●	●
Work Monitor		●	●
Light control panel		●	●
iMonitor2		○	○
Camera system		○	○
Agrosky Ready		○	○
ISOBUS (Class 3) compatible		○	○
Comfortip Professional		○	○
Max Comfort Dynamic Seat XL ++		●	●
(dynamic low frequency suspension)			
Max Comfort Dynamic Seat XXL ++ (dynamic suspension, low frequency horizontal suspension)		○	○
Max Comfort Dynamic Seat EVO Active + (active dynamic suspension, wide structure, active A/C system)		○	○
Padded passenger seat		●	●
Radio		○	○
Halogen work lights		●	●
LED work lights (Generation 4)		○	○
HOOKS			
Automatic tow hook		○	○
Height adjustable ball head joint		○	○
Fixed ball head joint		○	○
Oscillating arm		○	○
Pickup hitch		○	○
Piton Fix		○	○
DIMENSIONS AND WEIGHTS			
front tyres		600/70R30	600/70R30
rear tyres		710/70R38	710/70R38
Front tyres		540/65R34	540/65R34
Rear tyres		650/65R42	650/65R42
Wheelbase	mm	2868	2868
Length	mm	4817-4972	4817-4972
Height	mm	3153	3153
Width	mm	2500-2736	2500-2736
Ground clearance	mm	555	555
Front unladen weight	kg	3100-3915	3100-3915
Rear unladen weight	kg	5100-5185	5100-5185
Total unladen weight	kg	8200-9100	8200-9100
rear ballast	kg	○	○
Max. permissible front weight	kg	6000	6000
Max. permissible rear weight	kg	10000	10000
Max. permissible total weight (40 Km/h)	kg	14500	14500


●: standard ○: optional -: not available

Dealer

ciagreen

Marketing-Communication Service - Code 308.8514.3.4-6 - 07/2016.

To discover more please contact your dealer
or visit deutz-fahr.com.

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