AGROTRON TTV: STEPLESS COMFORT AND ECONOMICAL OPERATION.

Tilting glass roof hatch with sunshade, ideal for working with a front loader.

Four integrated working lamps.

Sloping, streamlined cowling for excellent view of front-mounted implements and cultivation area. Safe working and manoeuvring, even in confined spaces.

State-of-the-art DEUTZ Common-Rail (DCR) turbo diesel engines with EMC (Electronic Motor Control) as a standard feature. For low fuel consumption, high torque and ample power reserves. The engines are fully bio-diesel compatible (B100) and the top speed of 50 kph is reached at a low 1,850 rpm.

The integrated front powerlift, with a lifting force of up to 4,500 kg and the electro-hydraulically operated 1,000 rpm front PTO, make the Agrotron TTV a full-system tractor for combined applications. Mounting of front implements is simple.

Driving safety and comfort is considerably enhanced by the integrated suspension design using perfect coordination of hydropneumatic suspension on the front axle and pneumatic suspension on the cab.

Approval for 100% bio-diesel: Saves costs and protects the environment.

Thanks to their innovative engine technology, DEUTZ-FAHR tractors save up to 15% on diesel fuel.

One of the largest and most comfortable tractor cabs for relaxed, fatigue-free work. Air-conditioning as standard, together with ergonomic, intuitive controls with unparalleled features.

High-performance hydraulic system with lifting forces of up to 10,000 kg. Electronic Hitch Regulation (EHR) with integrated diagnostic system as standard. Separate hydraulic circuit for the steering. Four remote valves as standard and convenient operation with PowerComV and joystick control.

Four PTO speeds are standard. The economical ECO PTOs (540E and 1,000E) give real fuel-saving benefits for all applications. In combination with the standard ASM drive control management, the PTOs, 4 wheel-drive and differential locks are controlled automatically.

Infinitely variable, performance-graded powershuttle transmission with four speed ratios and three driving strategies. Modern, practical transmission technology with outstanding efficiency.

Articulated front mudguards are a standard feature. A high degree of manoeuvrability and small turning circles are also guaranteed.

Driving safety and comfort is considerably enhanced by the integrated suspension design using perfect coordination of hydropneumatic suspension on the front axle and pneumatic suspension on the cab.

There are four remote valves as standard and convenient operation with PowerComV and joystick control.

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Infinitely variable, performance-graded powershuttle transmission with four speed ratios and three driving strategies. Modern, practical transmission technology with outstanding efficiency.
DEUTZ ENGINES: POWERFUL AND ECONOMICAL.

Powerful, economic and environmentally friendly

Many can construct engines. But the real task is to build strong and efficient engines which comply with the effective emission standards and still set their own trend. The DEUTZ engine philosophy comes down to power, economy and environmentally friendliness.

We develop for agriculture

DEUTZ-FAHR focuses on technologies which contribute to increase power and lower fuel consumption and minimise harmful emissions. Our bio diesel initiative is only one of several forward-looking projects.

The ever changing applications in agriculture require extraordinary know-how and longtime experience in engine construction. But there is one thing all those applications have in common: power must be available when it’s needed. And the fuel consumption has to be reduced at the same time.

What sounds paradoxical has been achieved by the DEUTZ-FAHR engineers with the innovative DPC (DEUTZ-FAHR Power Control). By combining the electronic engine control (EMC) and the DEUTZ Common-Rail-Technology, a complex but very efficient engine control system has been developed.

Powerful, strong, efficient

The 6 cylinder high-tech DEUTZ turbo diesel engines in the Agrotron TTV come with innovative DEUTZ Common-Rail-Technology (DCR) as standard. And thanks to the DPC the engines deliver constant power, high over-power and maximum torque. The driver can therefore relax while working because the engine offers sufficient reserves of power; excellent flexibility and reduced fuel consumption at all times. A special feature for transport work at 50 km/h: thanks to the reduced engine speed of 1,850 rpm the Agrotron TT works very economically in this sector.

Quiet for both the driver and the environment

Possible noise sources were already excluded at the engine design stage, as noises that do not occur do not require insulation. Noise generation is already prevented at the source by a rigid, ribbed crankcase, soft combustion, exhaust turbocharger, liquid cooling and double-shell silencing below the engine cowling and a flexible intake and exhaust pipe mounting.

Optimum fuel combustion thanks to four valves and 7-hole injection nozzles.
The demands made of a modern, infinitely variable transmission are clear – high tractive force with a low hydrostatic involvement, maximum economy and, most importantly, user convenience. The transmission of the Agrotron TTV, which DEUTZ-FAHR developed in collaboration with ZF, has entered new dimensions in stepless transmission technology: Practical operating convenience, maximum efficiency and exemplary economy are the main characteristics.

High mechanical efficiency
The unsurpassed efficiency of a stepless transmission is possible due to the use of state-of-the-art technology. In each of the four working ranges the maximum driving power is mechanically transferred. The hydrostatic share is reduced to a minimum, ensuring maximum efficiency, without hydraulic losses at low speeds during fieldwork.

Intelligent transmission design
The stepless, performance-graded transmission of the Agrotron TTV comprises four main components – planetary transmission, the hydrostatic unit, the shuttle clutches and the electronic control unit. The high degree of efficiency is ensured due to the direct power flow from engine to the, planetary transmission, shuttle transmission, PTO and axle.

Infinitely variable from 0 to 50 km/h
The transmission comprises four planetary trains. The entire speed range is practically divided into the four working ranges by the planetary trains. The speed is steplessly varied within each working range by a hydrostatic unit. This gives you the possibility of infinitely variable travel speeds from 0 - 50 km/h, using the combination of the planetary trains and the hydrostatic unit. The planetary trains are inter-connected by maintenance-free long life multi-plate clutches.

FUEL-EFFICIENCY EVEN AT 50 KM/H THANKS TO THE REDUCED ENGINE SPEED.

The hydrostatic variable displacement pump is driven directly, via the main shaft, from the engine. The variable displacement pump determines the oil flow rate and therefore, the speed of the fixed output motor. The less oil pumped, the lower the speed of the fixed output motor and therefore the lower the hydrostatic power share.

ADVANTAGES
- Excellent economy due to maximum drive capacity
- Long service life with wet clutches with low transmission losses
- High efficiency in all four working ranges
- Maximum efficiency due to high-mechanical transmission element
- Simple operation and fast familiarization
Automatic working
Nothing is simpler – start up, pull away and off to work! In automatic mode the Agrotron TTV offers maximum convenience for all jobs and applications without complex programming. Transport and field work are mastered with ease. The selection of the required speed is performed precisely with the PowerComV or fast adjustment feature. The engine speed is adapted by the engine electronics which ensures the right speed for all load conditions. The driver therefore always works in the economical range.

Advantages of automatic mode: Simple manoeuvring and convenience during driving and working with the same standard of comfort as a car. The Tempomat cruise control function is an effective supplement for many jobs and relieves the strain on the driver.

Auto, ECO or Power: The driver decides! The driver can programme the basic settings of automatic mode and determine the range within which the engine speed is varied depending on the job.

PTO mode
This mode is automatically activated when the PTO is switched on, and permits economical operation of the Agrotron TTV at constant engine speeds. The required engine speed can be set or adjusted with the EMC button or the electronic manual throttle. The Tempomat cruise control function is also available. Advantage: The Agrotron TTV adjusts directly and conveniently to working and operating conditions at every engine speed.

Manual mode
The driving pedal is solely an accelerator pedal controlling the engine speed. The speed can be infinitely varied from 0-50 km/h with the PowerComV. The lowest speed is a super-slow 47 m/h.

Active parking control
This function allows you to reliably keep the transmission and tractor stationary irrespective of the slope, hill or respective load simply by removing your foot off the drive pedal, without actuating the service or trailer brake. You are therefore able to safely and conveniently stop, hold and drive off again in any condition and direction.

Automatic parking brake
For additional safety over and above the handbrake, the Agrotron TTV 630 also has a parking brake as standard which is operated either manually or by timer. This activates automatically whenever the driver leaves the driver’s seat or the tractor is at a standstill for more than 30 seconds.

THE RIGHT OPERATING MODE FOR EVERY JOB.
COMFORTIP: INDIVIDUALITY 
A STANDARD FEATURE

COMFORTIP: WORKING AND PROGRAMMING IS VIRTUALLY AUTOMATIC. NOTHING COULD BE SIMPLER.

Operation made easy
Standardised programmes really cannot do justice to all the varying applications found in agricultural enterprises. Wouldn't you prefer it if you could automate the repetitive functions required for each job?

This is exactly the concept of DEUTZ-FAHR with the PowerComV joystick and the Comfortip function. Individual operating sequences can be programmed by the driver and reactivated simply by pushing the operating lever. The operating sequences are centrally and consecutively displayed in the Infocenter. The next programmed function is highlighted on the display, so that the driver can see at all times which function he will activate next.

Programming during work
To set up the system for programming operating sequences – this is possible when the tractor is stationary or moving – the PowerComV joystick only has to be moved to the left whilst simultaneously pressing the enable button. An acoustic signal is then sounded and the digital display on the instrument panel is activated to accept the command function.

To programme your preferred sequence it is only necessary to press the respective buttons on the PowerComV joystick or on the multi-function armrest. The programmed functions are then stored in the memory even when the tractor is switched off. This is the ultimate in hassle-free headland management.

Increased productivity included
Increases in productivity and a reduction in fatigue are ensured. In this manner different operating sequences with up to 16 functions can be saved and recalled. You can simply “individualise” the Agrotron TTV for each job and considerably increases productivity with stress-free, one-hand operation. Operating sequences also enhance your operating safety. Manual operating faults are not possible and you don’t have to reach for different switches on the multi-function armrest.

ADVANTAGES
- Maximum operative safety – no complex handling and searching for function switches
- Enhancement of driver productivity, relaxed working conditions
- Simple and logical programming of the individual functions and parameters and their selection by the driver, and also customisation for specific jobs
- Individual selection by the driver
- Prevention of operating errors
- Manual intervention possible at all times

Increased safety included
Enhancement of driver productivity, relaxed working conditions
Simple and logical programming of the individual functions and parameters and their selection by the driver, and also customisation for specific jobs
Individual selection by the driver
Prevention of operating errors
Manual intervention possible at all times

Every function of the Comfortip is right.

Increased safety included
Enhancement of driver productivity, relaxed working conditions
Simple and logical programming of the individual functions and parameters and their selection by the driver, and also customisation for specific jobs
Individual selection by the driver
Prevention of operating errors
Manual intervention possible at all times
Load-Sensing as standard
With the Agrotron TTV you get a pressure and volume-controlled hydraulic system (Load-Sensing) with a pump flow capacity of up to 160 l/min and a system pressure of 200 bar. The closed centre system uses an axial piston, variable displacement pump controlled by hydraulic demand. The system pressure drops as oil flow is called for; only then does the variable displacement pump automatically provide more oil so that the pressure demanded is maintained. The consumer with the highest pressure requirements determines the current system pressure.

Excellent damping
During fast road travel vibrations can occur in the hydraulic system caused by the implement bouncing. These can have a considerable detrimental effect on driving safety and comfort. When vibration damping is activated (automatically from 8 km/h onwards), vibrations are detected by the electronic Load-Sensing pins and compensated with selective and fast counteraction by the powerlift.

High lifting force
Large-dimension lifting cylinders give a tremendous lifting force of 10,000 kg. Fast and safe implement coupling and uncoupling using external lift buttons on the rear mudguard.

Electronic powerlift control
The TTV is equipped with an electronic hitch regulation (EHR). Its functions and sensors are continuously monitored by an integrated diagnosis system (ECU). Each time the powerlift is activated, the system automatically runs a self-diagnostics check. Initial setting of the EHR is done using the colour-coded knobs on the easy to reach panel. The “power beyond” connections for the Agrotron TTV.

Remote valves
The Agrotron TTV can be equipped with four double-acting remote valves, each with four functions. All remote valves can be locked in either the lifting or floating position and also used as single or double acting. Each valve has a separate oil flow control. As a result each consumer receives the exact oil volume it requires. The control levers are colour-coded and specifically assigned to the hydraulic connections. Confusion is not possible. All remote connections at the rear are coupled under pressure and are equipped with rapid break-away couplings and an oil collecting pan. With the easy-reach cross-gate lever you have total command of two remote valves. You can, for example, raise the front loader and operate the push-off fork at the same time.

Power beyond
With the power beyond connection the required oil flow can be prioritised from the axial piston pump directly to constant flow demand. Implements can be connected that have a third, pressure sensing line. As a result units such as a potato harvester elevator, self-loading forage box, or air-seeder can be directly supplied with an uninterrupted oil flow from the axial piston pump.

ADVANTAGES
• Load-Sensing hydraulic system as standard
• Very high operating efficiency
• Very high capacity oil delivery
• On demand oil supply
• Easy and efficient connection and control of external implements
• Lower system heat and lower power demand

MAXIMUM HYDRAULIC CAPACITY. FOR EVERY APPLICATION.
Powerful and modulated operations

The versatile rear PTO with four standard speeds (540 / 540E; 1,000 / 1,000E rpm) increases the versatility of the tractor. The bolted PTO stub can be fitted with a number of different profiles. The PTO can be operated both from the cab and also with pushbuttons on the left-hand rear mudguard. The electrohydraulic control ensures modulated, low-wear PTO start-up. In auto-mode the PTO automatically switches off during lifting and is reactivated when the powerlift is lowered. Operating errors are prevented and mounted implements protected against damage.

Standard-feature economy PTO

With the economy PTO, fuel consumption, engine load, noise, driver stress and the environmental burden are all reduced considerably as the result of low engine speeds. The speed of the economy PTO is within the lowest fuel consumption range and – due to the engine power curve – still at a very high performance and torque level. You still get a lot of power, even in economy PTO.

Powerful front PTO

The optional front PTO runs at 1,000 rpm (for Agrotron TTV 630, 1000E as an option) and is driven directly by the engine. It runs independently of the rear PTO and is electrohydraulically activated at the touch of a button. Due to the modulation of the wet, multi-plate clutch, implement start-up is always smooth and independent of the load.

Economy PTOS at the front and rear save up to 12% in fuel.
PREMIUM CHASSIS AND DRIVE MANAGEMENT.

Sturdy front axle, robust front wheel drive and large steering angle for maximum maneuverability and smooth steering are important prerequisites for a tractor which has to meet practical needs. The Agrotron TTV offers front wheel drive, with 100 % wheel drive and large steering angle, which can be activated and deactivated additionally displayed in the Infocenter. All non-wearing clutches and locks are oil-immersed, electrohydraulically operated at a touch of an illuminated button. The respective operating conditions are additionally displayed in the Infocenter. The finest traveling comfort – superb pneumatic cab suspension.

SUSPENSION SYSTEM.

The finest traveling comfort – superb pneumatic cab suspension.

Even at 50 km/h the Agrotron TTV offers maximum driving comfort thanks to its integrated suspension system.

ADVANTAGES

- Sturdy front axle with very high load capacity and ground clearance
- Reliable actuation and deactuation of a wheel drive and differential locks in all situations
- Automatic activation and enforcement of driving comfort
- 4WD prevents operating errors, critical driver stress and excessive connected traction
- Suspension reduces harmful vibrations
- Automatic activation of the suspension to the load
- Closed cooling, low maintenance suspension system
- High reaction speed
- Anti-swaying suspension system
- Pneumatic cab suspension systems

Enhance your cab comfort

The standard pneumatic cab suspension with load-dependent level control is supplied from either the tractor’s compressed air system or a separate compressed air source. Irrespective of the cab load, the suspension travel is always ± 40 mm and the vibration is considerably reduced even at low speeds. The suspension is progressive, i.e. its effect is heightened with an increase in speed. In addition to the pneumatic cab suspension, a semi-active hydraulic cab suspension is also available as an option, which allows the hardness to be adjusted to individual requirements. A cab with suspension provides exceptional driving comfort comparable to that of a modern truck. With the perfect suspension coordination of front axle, cab and pneumatic driver’s seat, the Agrotron TTV provides unprecedented total suspension and driving comfort.

Drive train management

The automatic drive train management system (ASM) controls the front wheel drive and both differential locks fully automatically. ASM automatically engages and disengages the front and rear differential lock 100 % lock value and the front wheel drive under load as required. Depending on the steering angle and ground speed.

Safe entry

Entry and exit from the spacious Agrotron TTV cab is easy and practical. Galvanized, anti-slip steps, two full-length handrails on each side, wide-angle door opening and easy-reach door handles ensure safe mounting and dismounting.

Well illuminated

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Safe and spacious

The standard, folding co-driver seat is perfectly integrated into the cab. With handle bar for highest safety requirements. An integrated compartment in its backrest provides room for documents.

Perfect noise insulation

The Agrotron TTV is number one for quietness. With a cab noise level down to only 70 dB (A) the Agrotron TTV is one of the quietest tractors in its class. The extraordinarily low value is reached with basic design features such as the more flexible cab, engines with low noise emission and consistent exclusion of noise-emitting and noise-transferring components in the cab. An additional insulating wall behind the engine further improves noise insulation.

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ANd EvERyTHiNG RUNS ALmOSt UNAIdED.

Get in and get to work
Relaxed and productive work requires room for movement and a clear arrangement of all operating elements. The cab of the Agrotron TTV continues to set standards, and proves its worth with outstanding results in comparison tests. Operation is clear-cut and simple. You will find your way around quickly without involved instruction. Each group of levers and switches varies in shape and colour, they are logically and clearly arranged and combined in functional groups according to frequency of use, all in an operating console to the right of the seat.

At a glance the driver can view the clear instrumentation. This results in a safer workplace and confusion-free, easy operation, enhancing productivity.

Well-informed
Simple logical design, comprehensive information – this is the TTV Info Centre. The indicators are divided into analogue and digital instruments with a specially developed display that keeps you informed with text messages about necessary maintenance work, faults and programmed operating sequences. Function displays such as PTO and travelling speeds are digital; in addition maintenance and error messages are given in digital and plain text form. All instruments are protected by non-reflecting and antistatic glass so that optimum viewing is ensured at all times under all working conditions. The indicator lamps are linked with an acoustic warning signal. Transmission information is displayed legibly on a display on the right-hand A-strut.

Impressive air conditioning
Powerful 4-stage heating and ventilation fans in the TTV cab have a capacity of 580 m³/h and ensure in no time a constant and pleasant working atmosphere. Fresh air is drawn in through large filtered intake openings in the left and right-hand B-struts, forward, where air ducts distribute the air selectively through 14 adjustable nozzles. The Agrotron TTV is equipped with an environmentally friendly compact air-conditioning system that guarantees fast temperature adjustment; you can instantly switch from direct fresh air to recirculated and also de-mist the windows with de-humidified air. A slight pressurisation in the cab prevents the ingress of dust or contaminants. A separate beverage compartment uses the air-conditioning to cool its contents. Tinted windows and roller blinds on the front and rear windscreen protect the driver from excessive exposure to the sun’s rays.

Large-area cab glazing with 6.5 m²; for a panoramic view of 320°.

Extended cab roof for improved stalling, all-weather dry storage for tools and utensils are opened and rear screens folding. The glass roof can be safely used while working with front loaders. Provisional lock with new filters for dust and emissions.

Switch-over from fresh air to recirculating air.

Low noise levels due to consistent noise silencing on the drive train and cab. Cable lead-in when rear windscreen is closed.

Switch-over from fresh air to recirculating air.

1 Rev counter (tachometer)
2 Fuel level
3 Engine temperature
4 Warning and indicator lamps
5 Digital display
6 Warning and indicator lamps
7 Operating hours counter
8 Travelling speed
9 Speed of front PTO
10 Speed of rear PTO
11 Wheel Slip
12 Pre-selected speed
13 Direction of travel forwards/reverse
14 Progression of the transmission ratio
15 “Cruise control” indication
16 Driving mode
17 Travelling speed

Perfect, ergonomically designed workplace
High degree of work safety due to logical and colour-operating controls
Fast custom adjustment of the seat and steering wheel
Clear view of the digital and analog indicators on the dashboard
Easily readable panels make it easy to keep an eye on all operating conditions.

ADVANTAGES

- Large-area cab glazing with 6.5 m²; for a panoramic view of 320°.
- Optimised location of air intake and exhaust pipes on the front cab pillars
- Integrated working lights for optimally illuminated field work

- Extended cab roof for improved stalling, all-weather dry storage for tools and utensils are opened and rear screens folding. The glass roof can be safely used while working with front loaders. Provisional lock with new filters for dust and emissions.
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EVERYTHING AT HAND.
EVERYTHING IN SIGHT.

Clearly arranged, easy to operate and understood by intuition. The new iMonitor from DEUTZ-FAHR not only makes it easier to operate the tractor, it also offers an impressive range of new functions.

Operation just like in a car
The iMonitor is operated from a multi-controller which enables driver to move the individual tractor menus into position for setting and operation by pressing and turning. This operating system is similar to that now used as standard by manufacturers of premium class cars for the operation of navigation systems and similar menu-prompted components. Clearly arranged and easy to understand. The attractive graphic displays in the black display screen are clear and logical in design, with the use of familiar symbols, to enable the driver to settle in quickly. For greater comfort the driver can operate the controls with his arm on the armrest.

ADVANTAGES
- Clearly arranged and easy-to-operate display monitor
- Non-glare, easily readable graphics
- Clear symbols and indicators for tractor functions
- Easily updated software
- Operating system similar to a premium brand car
- Multitude of practical operating and display menus
- Almost all key settings and indicators are summarized in the main display
- MP3 player
- Integrated stereo radio
- Automatic reversing camera for extra overview and safety at the rear of the tractor

For the first time in a tractor
With an integrated Bluetooth hands-free kit, MP3 player, integrated radio and an automatic reversing camera, it brings operating systems to tractors for the first time which are familiar and service-proven in cars. The iMonitor can also be used for ISOBUS-controlled devices as well, so that the driver would only have to keep an eye on a single terminal.
Even though the standard equipment of the Agrotрон TTV is extremely comprehensive, you can still customise it to suit special requirements and tractor applications. At DEUTZ-FAHR we offer a coordinated range of additional special equipment and assemblies for you to consider. Contact your DEUTZ-FAHR dealer. They will be pleased to be of assistance.

1 Choose the front loader you require from the wide range of DEUTZ-FAHR front loaders and turn your Agrotрон TTV into a genuine multipurpose tractor.

2 The Agrosky satellite-aided track guidance system keeps you on track with incredible accuracy. You save operating resources, fuel and valuable working time.

3 Piton-Fix (opt) The Piton Fix has a bolt diameter of 45 mm and a maximum carrying capacity of 3,000 kg.

4 An automatic trailer hitch (opt) is available as an option.

5 Various versions of ball-type hitches (opt) are available (height-adjustable or permanently welded). Your DEUTZ-FAHR dealer will be pleased to advise you.

6 Ballast carrier: Optimum weight distribution is achieved using different ballast carriers and front weights which are adapted to suit various applications.

7 The automatic reversing camera (std) provides additional safety.

8 Wide, solid mudguards.

9 The 130 l auxiliary tank and integrated toolbox.
QUICK AND SIMPLE SERVICING.

Fast, daily maintenance
Daily maintenance is simple and completed in next to no time thanks to the wide angle, front opening engine hood. Gas struts safely keep the hood in the open position. The engine oil level can be checked without opening the hood. All important components and assemblies are easily accessible for simple maintenance work without tools. A large, easily visible sight glass indicates the transmission and hydraulic oil levels.

Long maintenance intervals
The regular engine maintenance intervals are long – in fact uniquely long. The engine oil only requires changing every 500 hours and the valve adjustment only needs checking every 1,500 hours of operation.

1 The compact cooler system is simply opened up in three steps for cleaning.
2 The engine air filter is easily accessible. The high air intake, in low-dust area, and the dust ejector separation feature, ensures that the maintenance intervals of the filter are very long.
3 Fuses and relays of the entire electrical system are accommodated in a separate protected box to the right of the driver.
4 The large cab air filters are easily accessible in the B-strut. The filters can be cleaned and replaced externally without tools. Active carbon filters are available upon request.
5 The toolbox is integrated in the main fuel tank. This provides storage space for servicing tools.
6 Air compressor drives directly from the engine. No V-belt means reliable operation.
7 The oil filler inlet and dipstick are easily accessible. The maintenance intervals are uniquely long.
8 A sight glass makes it easy to check the level of the hydraulic/transmission oil.

ADVANTAGES
- Long maintenance intervals
- Tool-free access to all important maintenance points
- Compact cooling system for simple maintenance and support
- Very low maintenance and operating costs
- Engine oil change every 500 hours
- Valve adjustment check every 1,500 hours
- Simple cooler cleaning
- Standard diagnostic feature
# TECHNICAL DATA.

<table>
<thead>
<tr>
<th>Type designation</th>
<th>610</th>
<th>630</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>TCD 2012 LS 4V</td>
<td></td>
</tr>
<tr>
<td>Cylinders/cubic capacity</td>
<td>No. / cm³</td>
<td>6 / 6,057</td>
</tr>
<tr>
<td>Bore/stroke</td>
<td>mm</td>
<td>101/126</td>
</tr>
<tr>
<td>Injection system</td>
<td>DCR (DEUTZ Common-Rail) with 1,600 bar injection pressure and 7-hole injectors</td>
<td></td>
</tr>
<tr>
<td>Homologated power</td>
<td>hp</td>
<td>165 222</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 21</td>
</tr>
<tr>
<td>Speed rated power</td>
<td>rpm</td>
<td>2,100</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>Nm</td>
<td>951 at 1,600 rpm</td>
</tr>
<tr>
<td>Constant power range</td>
<td>rpm</td>
<td>1,400 - 1,900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,300 - 1,600</td>
</tr>
<tr>
<td>Air intake</td>
<td></td>
<td>On top left A strut Under the cowling</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>l</td>
<td>305 435</td>
</tr>
<tr>
<td>Engine oil change interval</td>
<td></td>
<td>500 h or annually</td>
</tr>
</tbody>
</table>

### Cab

- **Construction**: Integrated, sound-proofed safety cab
- **Noise level**: 70 dB (A)
- **Air conditioning**: Standard
- **Control management**: Comfortip as standard feature with up to 16 programmed operating sequences
- **Cab suspension**: Pneumatic

### Electrical system

- **Voltage**: V 12
- **Alternator**: W/A 2,500/200
- **Starter**: V/HV 12/4.0
- **Battery**: V/Ah 12/180
- **External socket**: 7 pole signal
- **High-voltage socket**: 3-pin, 25 A
- **AGROTRONIC-HD connections**: External signal transmitter, 4-pin
- **Front drive**: Central drive
- **Front axle suspension**: Hydro-pneumatic suspension on request
- **Differential locks front/rear**: ASM Fully-automatic control through speed, steering angle, individual wheel brake and slip 100% locking value; can be deactivated
- **Service brake**: front/rear Automatic engagement front drive/oil-immersed disk brake system
- **Parking brake**: Acts on disk brake in rear axle
- **Steering angle**: 52°
- **Turning radius**: m 5.13 5.90
- **Steering**: Open Centre with separate pump
- **Pump flow rate / pressure**: l/min (bar) 44 (185)

### Hydraulic system

<table>
<thead>
<tr>
<th>System</th>
<th>Load-Sensing</th>
<th>Separate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil reservoir</td>
<td>Shared with transmission</td>
<td>Separate</td>
</tr>
<tr>
<td>Pump flow rate</td>
<td>l/min (bar)</td>
<td>30</td>
</tr>
</tbody>
</table>

### Front PTO on request

- **Clutch**: Multi-plate clutch, oil-immersed
- **Actuation**: Electrohydraulic
- **PTO speed**: 1,000 rpm
- **PTO profile**: 6-spline shaft 1 3/8”
- **Engine speed at PTO speed 1,000 rpm**: 1,960 1,930 / 1,600

### Rear PTO

- **Clutch**: Oil-immersed, modulating start-up
- **Actuation**: Electrohydraulic circuit
- **PTO stub**: Bolted, can be exchanged
- **Profiles**: 6-spline shaft 1 3/8”
- **Engine speed 540/1,000 and 540E/1,000 rpm**: 1,946 / 1,645 1,880 / 1,600
- **Remote control**: On left rear mudguard (and right on wide mudguard)

### Transmission

- **Transmission type**: Infinitely variable TTV transmission up to 50 km/h
- **Reversing transmission**: Hydraulic, oil-immersed multi-plate clutches
- **Oil cooler**: Standard
- **Maximum speed**: Set by means of engine speed regulator; max. speed 40 or 50 km/h – 50 km/h with lowered engine speed of only 1,830 rpm

### Powerlift

- **AGROTRONIC-hD**: Draft/positional/mixed control/free floating/diagnosis/vibration damping/slip control
- **Category of 3-point hitch, rear**: II/III; fast action couplings
- **Rear powerlift lifting force**: kg 9,200 10,000
- **Rear powerlift remote control mudguards**: on left mudguard as standard, left and right optional
- **Front powerlift lifting force (on request)**: kg 4,000 4,500
- **Category of 3-point hitch, front**: II/III; fast action couplings

### Additional hydraulic remote valves

- **Number electronic**: 4 sets 4 sets, on request max. 7
- **Parallel operation**: Standard
- **Non-pressurized recirculation**: Standard
- **Functions pressure**: In neutral position or raise/lower
- **Actuation**: Double-acting with float position, can be coupled under pressure
- **Flow rate adjustment**: 4 remote valves electrically adjustable 4 remote valves electrically adjustable, max. 7 on request
- **Flow time adjustment**: 2 remote valves electrically adjustable 2 remote valves electrically adjustable, max. 7 on request

* If allowed by law
** More PTO profiles on request
## Dimensions in mm

<table>
<thead>
<tr>
<th>Type designation</th>
<th>610</th>
<th>630</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>2,767</td>
<td>2,817</td>
</tr>
<tr>
<td>b</td>
<td>4,757</td>
<td>4,807</td>
</tr>
<tr>
<td>c</td>
<td>2,102</td>
<td>2,202</td>
</tr>
<tr>
<td>d</td>
<td>2,997</td>
<td>3,157</td>
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<tr>
<td>Width across tires (max.)</td>
<td>2,500</td>
<td>2,720</td>
</tr>
<tr>
<td>Turning radius for track</td>
<td>5,125</td>
<td>5,800</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>570</td>
<td>605</td>
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</tbody>
</table>

## Weights in kg

<table>
<thead>
<tr>
<th>Type designation</th>
<th>610</th>
<th>630</th>
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<tbody>
<tr>
<td>Unladen weight</td>
<td>6,525</td>
<td>7,225</td>
</tr>
<tr>
<td>Permissible laden weight</td>
<td>4,700</td>
<td>5,200</td>
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<tr>
<td>front</td>
<td>9,000</td>
<td>9,000</td>
</tr>
<tr>
<td>rear</td>
<td>9,000</td>
<td>9,000</td>
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<tr>
<td>With front axle suspension: +200 kg; cab suspension +25 kg; front powerlift +300 kg; hydraulic brake system +80 kg; front ballast carrier +330 kg</td>
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</table>

## Permitted row crop tire combinations with disk wheels

<table>
<thead>
<tr>
<th>Type designation</th>
<th>230/95 R 36</th>
<th>270/95 R 48</th>
<th>270/95 R 32</th>
<th>300/95 R 50</th>
<th>320/95 R 34</th>
<th>340/95 R 48</th>
<th>340/95 R 46</th>
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<tbody>
<tr>
<td></td>
<td>X</td>
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## Flange dimensions

<table>
<thead>
<tr>
<th>Type designation</th>
<th>Flange dimension at front (mm)</th>
<th>Wheel connection at front (mm)</th>
<th>Flange dimension at rear (mm)</th>
<th>Wheel connection at rear (mm)</th>
<th>Transmission i (rear/f)</th>
</tr>
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<tr>
<td></td>
<td>1,710</td>
<td>275 x 6 x 20</td>
<td>1,876</td>
<td>275 x 8 x 22</td>
<td>1.3156</td>
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</table>

Lead calculation as %: (rolling circumference at front ÷ rolling circumference at rear x i) – 1 = lead as %. The lead should be at least +0.5% and no more than +4.5%.

* Can be obtained from commercial outlets.

Available standard tyre combinations are given on the current valid price lists. Operation with twin wheels at front and rear is permitted; road traffic regulations and road traffic licensing regulations must be observed.
SURE AND SAFE WITH ORIGINAL
DEUTZ-FAHR SERVICE AND PARTS.

Original service is wise.
Only your DEUTZ-FAHR specialist dealer knows your tractor inside and out. Only your dealer has regularly trained mechanics and experts on call. Only dealers have the special tools and diagnostic equipment required for competent diagnosis and inspection. All this gives you peace of mind – without doubt.

Original parts make good sense.
As you placed your trust in the original tractor, we recommend you use original parts when required. Only these comply with the high quality and safety standards of DEUTZ-FAHR and ensure correct function and operation without problems – guaranteed.

DEUTZ-FAHR lubricants
We recommend genuine DEUTZ-FAHR lubricants. The outstanding quality of this product range, which is made exclusively for DEUTZ-FAHR, ensures that your tractor always receives exactly what it needs.

Your DEUTZ-FAHR dealer will be pleased to answer your questions: