

# THE NEW 5D TTV.



5090 D TTV - 5100 D TTV  
5090.4 D TTV - 5100.4 D TTV - 5110.4 D TTV



# THE NEW 5D TTV.

## Performance.

The new 5D TTV features extraordinary performance and efficiency thanks to FARMotion engines, powerful hydraulics with Load Sensing pump and high-capacity rear lift. The new model is also ready for the challenges of modern agriculture thanks to Connected Farming System integration.

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## Flexibility.

The new 5D TTV is perfectly aligned with the requirements of farmers, orchard growers, municipalities and all other customers alike who need a compact and powerful tractor they can use for a wide range of tasks. The new 5D TTV gives users the choice: 3 or 4-cylinder engine, standard or compact rear lift, fixed or suspended front axle, tire-combinations for an overall width from 1.75 to 2.2m, and many possibilities to individualize the hydraulics - just to name a few of the various options the 5D TTV provides.

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# THE NEW 5D TTV.

Reaching new heights.

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## Comfort.

Despite the compact size typical for utility tractors, the new 5D TTV offers the same level of comfort you can find in high-horsepower segment. A 4-post cab suspended on a Hydro Silent-Block, an easy-to-operate MaxCom armrest and bluetooth radio will make hard working days much more comfortable. The combination of the independent front axle suspension with the rear lift vibration damping functionality and TTV transmission ensures smooth driving under all conditions.

## Safety.

From 4-wheel braking and hydraulic parking brake to cab with Cat. 4 filtration – the 5D TTV models offer a unique package of features aimed at increasing the safety of your work. In addition to that, the PowerZero function of the TTV transmission allows to temporarily stop the tractor without pressing the brake pedal, increasing the level of safety, especially when using the tractor in hilly fields or roads.

Whatever your challenge, the new 5D TTV turns it into a great experience. Equipped with the latest technology from DEUTZ-FAHR, it takes performance and comfort to the next level. With TTV transmission, a cab suspended by Hydro Silent-Blocks and an independent suspended front axle, even the longest working days will feel short. Thanks to its quality components, it is a reliable, long-lasting tractor and thus, a great investment in the future of your business.

The new 5D TTV is a true all rounder: no matter if it's time for haymaking, seeding, spraying, fertilizing, weeding or soil tillage, the

new 5D TTV is the perfect tractor for a wide range of tasks, both in the open field as well as in orchards and vineyards. Due to its compact dimensions, its TTV transmission and its powerful 3- or 4-cylinder engines and the top level hydraulics, it is also suitable for municipal applications like snow removal, roadside mulching and road cleaning. From vine or orchard growing to cattle breeding, if you are asking for performance and comfort, the 5D TTV is the right choice for you. Welcome to the top!

# PERFORMAN



# CE.



Powerful FARMotion engines, a high rear and front lift capacity and TTV transmission make the new 5D TTV suitable for a wide range of tasks – even for applications that are normally reserved for bigger tractors.

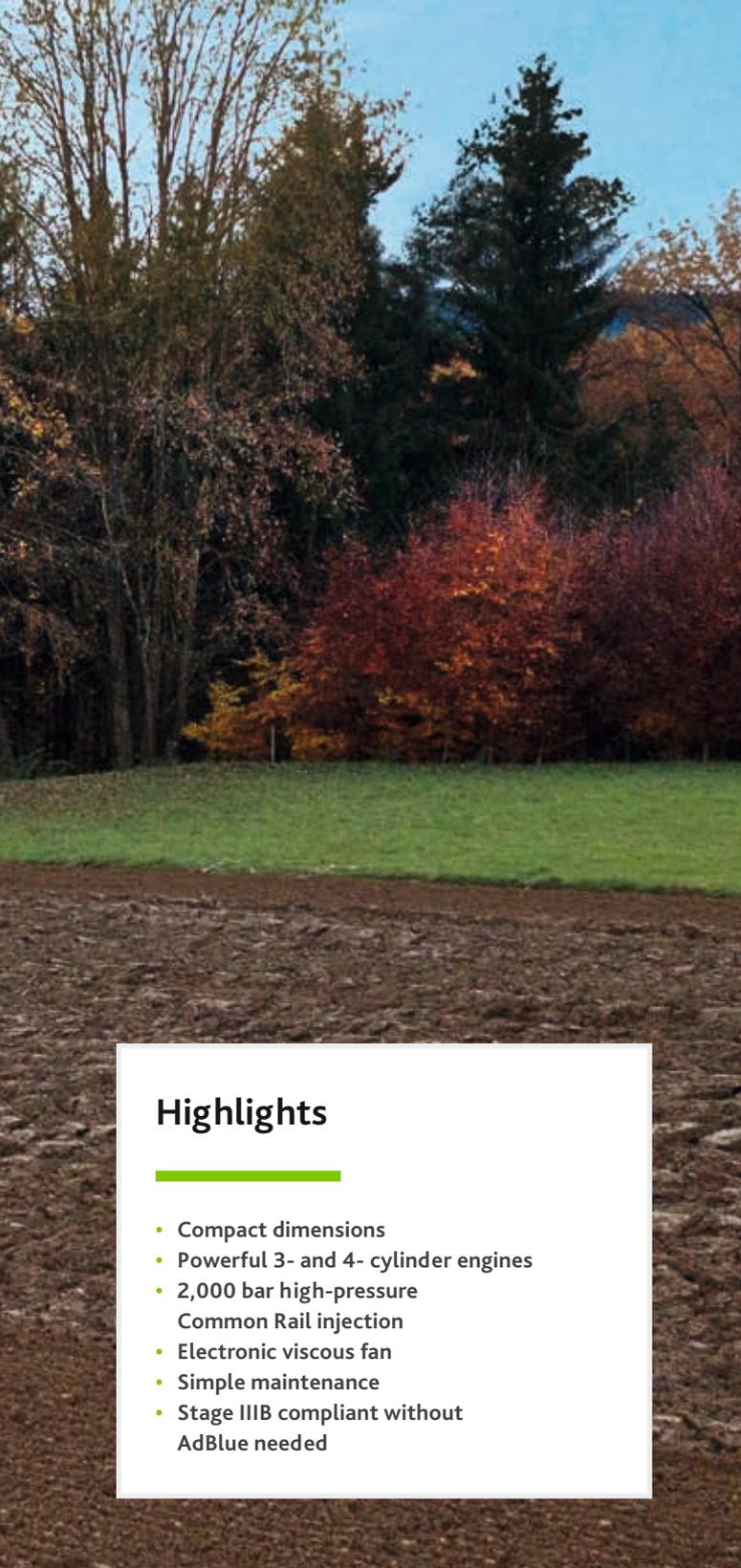
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# A POWERFUL ENGINE.

Increasing your productivity.





## Highlights

- Compact dimensions
- Powerful 3- and 4- cylinder engines
- 2,000 bar high-pressure Common Rail injection
- Electronic viscous fan
- Simple maintenance
- Stage IIIB compliant without AdBlue needed

The new 5D TTV tractors are equipped with powerful FARMotion engines with 3 and 4 cylinders and a power range of 88-113 hp, developed to meet the highest standards of modern agriculture. The engines combine top performance and reliability with compact dimensions and minimal maintenance requirements. Constant power and torque curves even at low crankshaft speeds ensure productive work and low fuel consumption.

While models with 3-cylinder engine come with reduced and shorter wheelbase, models with a 4-cylinder engine have greater power reserves for heavy duties and a longer wheelbase, which creates more stability during transport operations.



↑ FARMotion engines with 88-113hp, available with 3 and 4 cylinders.



↑ Compact and tidy under bonnet.



↑ Easy cleaning and maintenance.

Both engines are turbocharged and employ electronically controlled Common Rail fuel injection and intercooled forced air induction systems. With injection pressures of 2,000 bar, they ensure fantastic power development in all load conditions and efficiency at the same time. Using a compact maintenance-free Diesel Oxidation Catalyst (DOC) with EGR emission control system, they are Stage IIIB emissions compliant, without the need of adding AdBlue.

With electronically controlled eVisco cooling fans, all models reach improved fuel efficiency and an extended engine and components life. The reduced bonnet height and width of the new 5D TTV improve front visibility, increase steering angles and thus, provide more agility and manoeuvrability.

## Highlights

- Stepless driving from 0 to 40 km/h
- Max. speed at economy engine revs: 40 km/h at 1,730 rpm
- Stepless and clutch-less starting, accelerating and stopping under all conditions
- 3 driving strategies: Auto, PTO and Manual
- PowerZero function
- 2 cruise memories (2 forward + 2 reverse)
- 2 speed ranges with automatic shifting



↑ SenseClutch: customizable response of transmission reactivity and efficiency.



↑ Easy engagement of front and rear PTO through buttons on MaxCom armrest.



↑ PTO speed selector.



# ITS MISSION? TTV TRANSMISSION.

Taking comfort to a new level.

The new 5D TTV with continuously variable transmission combines performance, comfort and efficiency. With an infinite number of speeds and 3 different driving strategies (AUTO/MANUAL/PTO), the tractor is always in the right gear and turns every task into a great driving experience increasing the productivity of your work.

The new 5D TTV is extremely easy to operate. Every task can be performed by simply setting the desired speed with the joystick and attaining the required speed with the throttle. Or, in a simpler way, by pressing the buttons of cruise-speed. The engine speed and transmission ratio are matched automatically to ensure maximum efficiency in relation to the load. The changeover from one range to the next is transferred fully automatically in order to guarantee no frictional losses. Thanks to the PowerShuttle, the driver can change the direction while being on the move and under load with no interruption in torque transmission for precise maneuvers in every situation. Furthermore, the SenseClutch feature allows the setting of PowerShuttle responsiveness in 5 levels, for fast or soft direction changes.

The safety and comfort of the 5D TTV Series are further improved by the PowerZero feature which allows to stop the tractor temporarily simply by releasing the accelerator pedals without having to activate the brakes, the PowerShuttle lever or clutch pedal.

The new 5D TTV is not only able to increase your productivity in field, but it can also increase the performance of your farm on the road: thanks to the possibility to reach 40 km/h at economy engine speed it allows low fuel consumption during road transfers. In addition to that, a complete package of PTO speeds is available. 540-540E and 1000 rpm are included in standard configuration, but if you are working with drive-axle trailers a ground speed PTO is also available.



↑ MaxCom joystick for simple management of TTV transmission.



↑ High comfort TTV transmission.

# THE RIGHT HYDRAULICS FOR EVERY APPLICATION.

What we call a multi-talent.

No matter if orchard, vineyard or open field, the new 5D TTV models offer outstanding hydraulic performance and flexibility. Electronic sensing allows precise and effective draft, position and mix control of the rear lift. The electronic control of the rear lift furthermore enables vibration damping during high-speed transfers. The vibration damping system reduces shock load, ensures a smooth ride even on bumpy roads and increases comfort when driving on the road with mounted equipment. In order to meet the needs of both orchard and open-field applications, the rear hitch is available in two configurations: "Standard" with a lifting capacity of 4,310 kg or "Compact" with a lifting capacity of 3,660 kg, giving the possibility to reach a minimum width of 1,75m (depending on the tires). A front lift is optionally available with double acting function and a lifting capacity of 2,880 kg. The front lift is operated by an independent distributor with an independent control. In order to keep the tractor compact, lower links can be folded when the front linkage is not used. As an option, a front 1,000 rpm PTO is also available. Hydraulics layout can be customized according to your needs: from 2 up to 5 rear hydraulic valves that can be further enriched with additional 2,4 or 6 ways valves fitted in the mid-mounted position. These hydraulic valves are supplied by a 84 l/min gear pump or a Load Sensing pump with 100 l/min flow rate. In any case all distributors are electronically controlled with the possibility to adjust oil flow and activation time. In addition to the powerful 100 or 84 l/min pumps, the new 5D TTV is equipped with a 42 l/min pump, feeding the hydraulic steering unit only. This ensures smooth and progressive steering action without reducing the hydraulic power.

## Highlights

- High front lift capacity (2,880 kg)
- High rear lift capacity (up to 4,310 kg)
- Up to 5 rear distributors with electronic control
- 100 l/min Load Sensing pump or 84 l/min open center
- Two three-point hitch options: standard or compact (for narrow track)
- Vibration damping as standard



↑ Rear lift and PTO have external controls on rear mudguards.



↑ 5D TTV models can be equipped with a front lift with 2,880 kg capacity and optional comfort package.



↑ Up to 5 rear spool valves.



↑ Spool valve easily controlled by joystick and fingertip.



↑ Mid-mounted hydraulics ways for front implements.

With independent front axle suspension, 4-wheel braking system and cab suspension with Hydro Silent-Blocks the new 5D TTV masters any terrain with ease. It provides a great level of comfort and safety on and off the street.

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# COMFORT AND SAFETY.





# SUSPENDED FRONT AXLE AND INNOVATIVE BRAKES.

Feel safe and comfortable in any terrain.

The new 5D TTV stands out for its agility and maneuverability. Equipped with robust front and rear axles and fitted with front axle brakes as standard, it allows you to drive and stop safely both on plane roads and under hilly conditions. Optionally, the 5D TTV models can be equipped with an independent front axle suspension. Thanks to its damping management, self-levelling system and traction control, the suspended front axle improves stability, adherence, traction, comfort and safety in any terrain. In addition, electronic management of the front differential lock (DTC) ensures always high pulling capability. Together with the compactness of its design, the 5D TTV enables you to work with the highest level of comfort and productivity in the open field and in orchards and vineyards alike. High manoeuvrability is also ensured by the innovative SDD (Steering Double Displacement) system, for fast steering manoeuvres by halving the number of steering wheel turns needed for a complete turn.

ASM engages and disengages 4WD and differential locks in the new 5D TTV, depending on ground speed and steering angle. The proven system has been appreciated by DEUTZ-FAHR drivers for many years. If active and working in straight direction, ASM engages both 4WD and the differential lock. When the driver moves the steering wheel in headland, the ASM disengages them in order to ensure safe and precise turning manoeuvres. All new 5D TTV models are fitted with the Hydraulic Parking Brake system (HPB). This combined mechanical-hydraulic system ensures constant pressure on the rear brake discs and thus, safety in all gradients. This innovative system additionally reduces transmission power losses by eliminating the conventional hand brake. It thus reduces power losses, making your work more effective, efficient and safe.



↑ ASM and front axle suspension activation.



↑ Suspended front axle with front brakes.



↑ Safe parking even in hilly conditions thanks to powerful HPB parking brake.



# HIGHEST COMFORT IN THE CAB.

Work comfortably, work safe, work better.

Farm work can be tough, but with the right workmate it becomes much easier. The new 5D TTV offers all the comfort and features you need for spending long working days pleasantly: a 4-pillar cab with a flat floor, air conditioning, Hydro Silent-Block suspension, MaxCom armrest, a wide driver seat with pneumatic suspension and a Bluetooth radio.

All the information you need is conveniently shown by the dashboard of the InfoCentre<sup>Pro</sup>. The central console is linked to the steering wheel to be constantly visible, regardless of the position. All controls are conveniently located on the MaxCom armrest so central tractor functions can be activated and deactivated by just pressing a button or moving a joystick.

As standard equipment, the new 5D TTV offers a unique roof with position-adjustable rear panel. With this system, the rear roof can be lifted to increase rear upward visibility. If this together with the big, adjustable rear mirrors is not enough, rear visibility can be further improved by rear cameras. For optimal vision in the dark, all new 5D TTV models are equipped with slimline LED position lights and LED front indicators as standard.

The cab can be equipped with Cat.4 filtration system. This system offers a high level of protection to the driver when spraying of pesticide. It makes spraying safe and comfortable, since the driver is no more obliged to fit protective overall and masks.



☒ Cat. 4 filtration available.



☒ Rear liftable roof panel for the highest rear upward visibility.



☒ MaxCom armrest with intuitive color-coding for easy handling.



☒ Analogue-digital dashboard with main tractor functions at a glance.

## Highlights

- Air Conditioning and liftable rear top for high visibility
- Cab roof with Cat.4 filtration system
- MaxCom armrest for easy operations
- Multimedia audio
- InfoCentre<sup>pro</sup> with 5" colors display
- Pneumatic suspended driver seat
- Top rounded wind screen for high front visibility
- Slim LED Position lights and LED front indicators lights
- 4 USB smartphone charger
- Smartphone holder



☒ Comfortip further increases the level of comfort. It allows recording of repetitive tasks and their recalling by pressing a single button.

# FLEXIBILITY.





Thanks to its compact size, its great performance and various options for individualization, the new 5D TTV is extremely versatile. Not only for applications in the field or in the vineyards, it is also the perfect tractor for municipal operations.

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# MAKE IT YOURS.

The individual special options from DEUTZ-FAHR provide even more comfort and higher productivity.

To optimize your tractor for special tasks or to maximize its comfort, you can choose from a wide range of additional factory fitted DEUTZ-FAHR options: iMonitor and cameras, mirrors with electric adjustment and defrosting, front bracket for hydraulic pipe support and so much more.

Our original equipment ensures that everything is a perfect fit and quality and performance are optimally aligned. Please ask your DEUTZ-FAHR sales partner. They will be happy to advise you.

## Highlights

- Standard or compact three-point hitch
- Front lift
- LED working lights
- Telescopic rear mirrors with heating and electric adjustment
- Bluetooth radio
- Rear cameras
- Cat.4 filtration system
- Municipal tyres
- Municipal Orange body



↑ Cameras.



↑ Left console with foldable flat plan.



↑ Mirrors with electric adjustment and defrosting.



↑ Standard three-point hitch for higher lifting capacity.



↑ Compact three-point hitch for narrow track.





# CONNECTED FARMING SYSTEMS.

The next level of smart farming.

Connected Farming Systems combine a large number of digital solutions for efficient and comfortable operation of your 5D TTV. This includes a wide range of products and services, such as guidance systems, ISOBUS applications, Data Management and Fleet Management. The optional manual guidance system provides the operator with great comfort and less stress during long working days in the field. In addition it saves fuel, wearing parts, seed and fertilizer. Thanks to the new connectivity solutions offered by DEUTZ-FAHR the

interaction between office and machines get even more comfortable. With the new SDF Fleet Management application customers have the new 5D TTV always under control. The application provides machine relevant data independent from location. As result, the owner can access important information like position of machine, fuel consumption, speed or oil temperature. An overview of service intervalls and any possibly upcoming alerts helps to better plan maintenance and decrease downtime. .

## Highlights

- Increase productivity
- Added convenience
- Clearly structured menus simplify the usage of iMonitor
- Best comfort thanks to guidance system Connectivity solutions to improve daily work
- Working with standards ensures compatibility and reliability for ISOBUS and Data Management
- SDF Fleet Management provides all-time overview of relevant machine specific data

# iMonitor 3.

The new 5DTTV can optionally be equipped with components and functionalities for Smart Farming. A wide range of applications is available – all integrated in one terminal. The central control element for all different applications is the iMonitor 3. Its state-of-the-art touch screen makes the operation very comfortable. Available features are:

- Tractor settings
- Comfortip headland management
- ISOBUS
- SDF Guidance
- SDF Data Management
- Cameras
- Remote Access

The support functions such as quick guides, symbol explanations and a clear menu structure ensure very simple operation. If any questions should still remain open, the driver can also start the remote service.

# ISOBUS.

Electronics make agricultural machinery safer, more powerful, more precise and more efficient. The perfectly integrated iMonitor 3 in 5D TTV is the central control element for all ISOBUS applications and manages various tasks. The driver can individually control all implements with one single monitor (UT). A great number of functions are even available without activation:

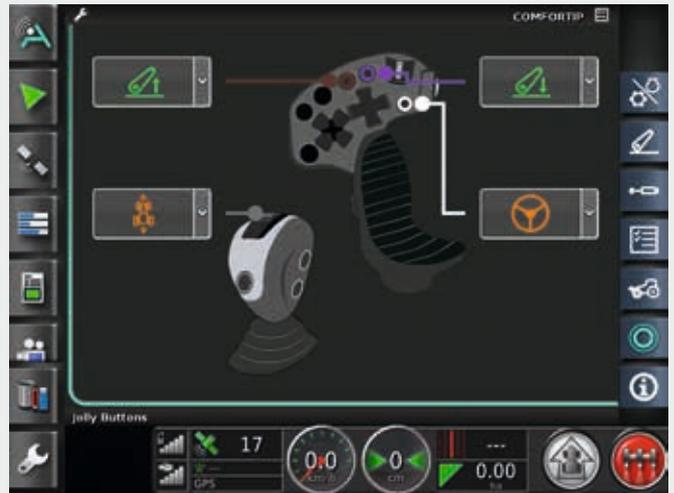
- Universal Terminal (UT)
- Automatic Section Control (TC-SC) with up to 200 sections
- AUX-N assignments: functions of the ISOBUS implement can be assigned to different buttons. Depending on the configuration of machine with the installed options, 5 buttons on armrest and 5 buttons on MaxCom joystick are available. In addition, the iMonitor offers 9 softkeys in a MiniView which can be used for AUX-N. Really convenient: Many functions of steering system can also be assigned to any buttons.

You can even benefit from additional ISOBUS features which the iMonitor provides after a activation:

- XTEND: This application easily connects external devices such as tablets to the iMonitor using a WLAN connection. The XTend app can be used to fully control all ISOBUS-UT functions. This makes XTend a very cost efficient alternative to a second terminal. Another benefit: the WLAN connection allows the tablet to be taken outside of the cab.
- Documentation in ISO-XML taskdata format (TC-BAS): This ensures convenient and compatible documentation of farm and field data.
- In combination with the SC10 GNSS- receiver you can work with site specific data. Variable Rate Control (TC-GEO) llows you to work e.g. with prescription maps what helps you to save resources and also increase yield.



The iMonitor enables various functions.



3 jolly buttons and 1 programmable thumbwheel.



Universal Terminal to control any ISOBUS implement.



5D TTV is AEF Certified for maximum compatibility.



## SDF Guidance

The optional SDF Guidance system in 5DTTV supports the operator under all conditions. The Visual Guidance 50 consists of the iMonitor3 and the SC10 GNSS- receiver what allows customers to use manual steering in addition to the functions for ISOBUS. The SDF Guidance application is included in iMonitor already as standard. The benefit is an improved work quality thanks to higher accuracy of different applications in field. This saves fuel and increases comfort and productivity. The SC10 GNSS- receiver is designed to receive any free available correction services such as Autonomous or Egnos.

## SC10.

The SC10 is the receiver for the manual steering system. The Visual Guidance 50 is designed for machines with integrated iMonitor. The VG 50 expands the monitor with the SC10 receiver. This allows all standard functions included in the iMonitor to be used, in addition to manual track guidance.

- Easy to install on machines with iMonitor
- Access to many functions of the iMonitor, e.g. Section Control, Variable Rate Control
- Correction services: Autonomous/Egnos

## Highlights

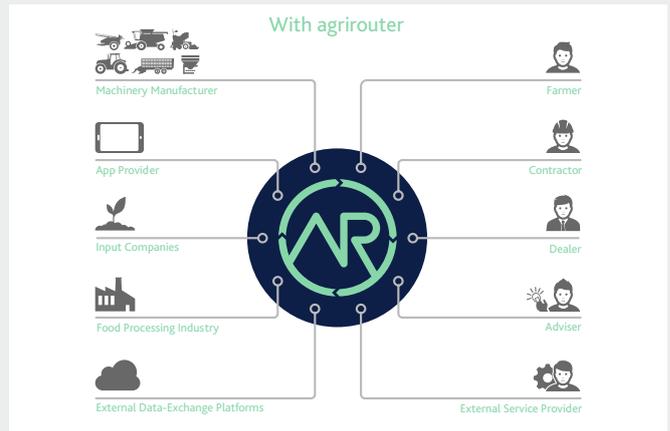
- Manual steering system, easy to install on machines with iMonitor
- Access to many functions of the iMonitor
- Visual Guidance 50 assists the driver for higher accuracy in field. This saves fuel and increases comfort and efficiency
- Reception of GPS and GLONASS satellites for reliable positioning
- Correction services: Autonomous/Egnos



 SC10 is designed for manual guidance.



📌 SDF Fleet Management – have your fleet under control!



📌 The agrirouter ensures reliable data transfer between different endpoints.

## SDF Fleet Management

The new SDF Fleet Management application is a customized solution to manage relevant machine data at a glance. Our customers like farmers, contractors or any other users benefit from real time data transfer through mobile internet connection to the browser-based SDF Fleet Management application. It is the central interface to insight telemetry data in the application where users can analyse, monitor and even optimise the usage of their machinery.

### Highlights

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- **Map view to show position and status of machines or an entire fleet including historical data**
- **Virtual fences to receive warnings if a machine leaves the area**
- **Maintenance plans to manage service intervals**
- **Transfer of error messages, optionally to dealer's service manager to pretend possible upcoming issues. By this, machine downtime can be decreased**

## SDF Data Management

Efficient data management is becoming increasingly important to optimize work processes for farm and field management. The iMonitor offers convenient documentation of all jobs in field including various types of data like field boundaries, application maps or complete taskdata. Working with the standardised file formats, SDF ensures compatibility for a reliable data management. This allows data exchange between different endpoints like machines and office. Thanks to the ISO-XML data format, you as customer have free choice of any software provider (FMIS) that best suits your business.



SDF is shareholder of DKE to provide reliable and independent online data exchange with our machines. The new 5D TTV is equipped with an interface to communicate with the agrirouter. Customers can connect their tractors to a personal agrirouter account and then exchange data with other members, e.g. tractors or any software applications. A list of partners and additional information can be found at [www.my-agrirouter.com](http://www.my-agrirouter.com)

Technical data		5090	5100	5090.4	5100.4	5110.4
<b>ENGINE</b>						
Manufacturer		SDF				
Model		FARMotion				
Emissions		Stage IIIB				
Cylinder/Displacement	n°/cc	3/2,887			4/3,849	
Common Rail injection	bar	2,000				
Turbo Intercooler		●				
Max. power (ECE R120)	kW/hp	65/88	71/97	65/88	75/102	83/113
Power at rated engine speed (ECE R120)	kW/hp	61.5/83	67/91	61.8/84	71.5/97	79/107
Maximum torque	Nm	354	369	354	408	435
Engine speed at maximum torque	rpm	1,600				
Electronic engine control		●				
PowerCore air filter		●				
Fuel tank capacity (std/opt)	litres	95/115				
<b>TTV CONTINUOUSLY VARIABLE TRANSMISSION</b>						
Number of ranges	n°	2				
Max. speed	km/h@rpm	40@1,730				
PowerZero		●				
Cruise speed	n°	2+2				
Driving Strategies (Auto/PTO/Manual)		●				
Eco/Power control		●				
Hydraulic reverse power shuttle		●				
SenseClutch with 5 adjustment levels		●				
<b>REAR PTO</b>						
Electrohydraulically engaged		●				
PTO 540/540ECO/1000		●				
PTO 540/540ECO and Ground speed PTO		○				
Auto PTO function		●				
<b>FRONT PTO</b>						
Electrohydraulically engaged		●				
PTO 1000		○				
<b>AXLES AND BRAKES</b>						
Four wheel drive electrohydraulically engaged		●				
Electro-hydraulically engaged differential lock		●				
Auto 4WD		○				
ASM		○				
Four-wheel braking system		●				
HPB (Hydraulic Parking Brake)		●				
DualMode Hydraulic trailer braking system		○				
Hydrostatic steering with independent pump	l/min	42				
SDD (Steering Double Displacement)		○				
<b>INDEPENDENT FRONT SUSPENDED AXLE</b>						
Adaptive-Damping		●				
Active Self-Leveling		●				
Anti-Dive		●				
Anti-Roll		●				
DTC (Differential Traction Control)		●				
<b>LIFT</b>						
Electronically controlled rear lift		●				
Vibration damping		●				
Standard three-point hitch		●				
Rear lift capacity (standard)	kg	4,310				
Compact three-point hitch		○				
Rear lift capacity (compact)	kg	3,660				
Front lift		○				
Front lift capacity	kg	2,880				

● = standard ○ = 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.

\* Standard or option, depending on variant.

\*\* Max speed of 50/60 km/h where permitted. Max 40/50/60 km/h at low rpm according to tyres size. Standard (X), Optional (O) and "Not available" (-), according to the equipment (based on WLD pricelist).

Technical data		5090	5100	5090.4	5100.4	5110.4
<b>HYDRAULIC SYSTEM</b>						
Closed centre hydraulic system				●		
Load Sensing pump flow	l/min			100		
Open centre hydraulic system				○		
Fixed displacement pump flow	l/min			84		
Mid-mounted outlets, free returns included (opt.)	n° of ways			2+1/4+1		
Front outlets (optional)	n° of ways			2		
Electronic proportional Joystick control				●		
Rear electro-hydraulic distributors (standard)	n° of ways			4		
Rear electro-hydraulic distributors (optional)	n° of ways			6/8/10		
<b>CAB</b>						
4 Pillars cab with rounded design and flat floor				●		
InfoCentre <sup>Pro</sup>				●		
Comfortip (Headland Management)				●		
Comfortip Pro (Headland Management)				○		
Steering column adjustment with pedal switch				●		
Pneumatic suspension seat				●		
MaxCom armrest				●		
Hydro-silent block suspension				●		
Air conditioning				●		
Slim LED position lights and light indicators				●		
Halogen work lights				●		
LED work lights				○		
LED rotary beacon				○		
Left console with foldable flat top and cup holder				○		
Telescopic rear mirrors with manual adjustment				●		
Telescopic rear mirrors with heating and electric adjustment				○		
Cat.4 filtration system				○		
8" iMonitor				○		
Rear cameras				○		
4 USB plugs				●		
TIM ready				○		
CTM models				○		
ISOBUS compatible				○		
<b>DIMENSIONS AND WEIGHTS</b>						
Width (min. / max.) (A)	mm		1,745/2,174			1,745/2,182
Maximum height (B)	mm			2,570		
Wheelbase (C)	mm		2,141			2,271
Length (D)	mm		4,638			4,768
Total unladen weight	kg		3,958			4,058



To discover more please contact your dealer  
or visit [deutz-fahr.com](http://deutz-fahr.com).

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