



THE BEST

ADVANCED

The New Deutz-Fahr Series 6

Agrotron 6150.4-6160.4-6150-6160-6180-6190





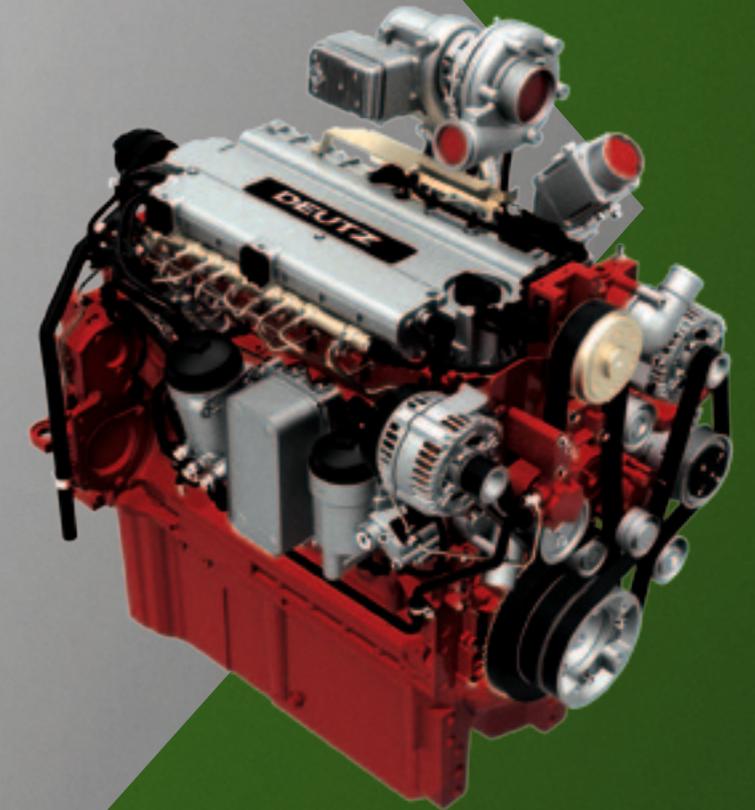
# PERFORMANCE

# ADVANCED

## *INTELLIGENCE TAKES CONTROL.*

The intelligent use of technology finds its ultimate expression in the new Series 6: minimal fuel consumption, emissions in line with the most rigorous standards and maximum efficiency to boost productivity. A winning combination for those looking for performance of the highest level.

The new Series 6 models represent a major step forward in the evolution of medium-high power tractors with Powershift transmissions: no longer just simple workhorses, but efficient, productive, versatile machines that respect the environment. From ploughing to road transport, from farmyard duties to field work with front and rear implement combinations, the innovative Deutz TIER 4i engines with Selective Catalytic Reduction (SCR) technology are ready to meet the challenges of modern farming: high performance for low environmental impact.





# DRIVING

# ADVANCED

## *INTUITIVE DRIVING IN ALL CONDITIONS.*

On the new Series 6, all operations are carried out simply and intuitively using accurate, reliable control systems that are able fully optimise the tractor's capabilities, thereby guaranteeing maximum performance and simplicity of operation.

Just a few simple movements are all that is required to control all the functions of the Agrotron Series 6, making it easy for any operator to take full control right from the word go. The optimal power-to-weight ratio, the ideal weight distribution plus superior manoeuvrability ensure productivity is maintained at the highest level in all operating conditions.

The ergonomic control layout completes the quality of a design where man and machine work in perfect harmony, where daily work duties are transformed into an exciting driving experience.





# DESIGN

# ADVANCED

**GIUGIARO**  
DESIGN

*STYLE AND COMFORT FOR A NEW LEVEL OF EFFICIENCY.*

The smooth flowing lines applied to the new compact frame create a dynamic design that achieves a perfect balance between dimensions and functionality. The new Series 6 represents a new approach to tractor design, combining sleek, modern lines with comfort of the highest level. The eye-catching styling was developed in partnership with Giugiaro Design, a design studio that has worked with Deutz-Fahr on the development of its products for many years. The superb design features introduced for the new S-Class 2 cab ensure an unprecedented level of comfort, creating the ideal working environment for long hours behind the wheel. The new fenders with their integral LED light clusters provide that extra touch of refinement, confirming the Agrotion Series 6 as a tractor range designed for the future.





# TECHNOLOGY

# ADVANCED



## *THE HIGHEST CONCENTRATION OF TECHNOLOGY.*

Highly advanced Deutz engines are coupled to efficient Powershift transmissions, which are in turn complemented by top class hydraulic systems: a technological synergy in which the integrated efficiency of all the systems optimises the performance of the machine and creates added value for the user.

The ideal tractor is not simply the one with the most power for farm work, it must also guarantee maximum efficiency and low running costs, both fixed and variable, of which fuel is today certainly the most important. For this very reason, Deutz-Fahr has for some time embraced the concept of "Power Efficiency"; in other words the application of the best technological designs to achieve maximum operating economy combined with the most advanced performance. The new Series 6 represents the latest expression of this philosophy.

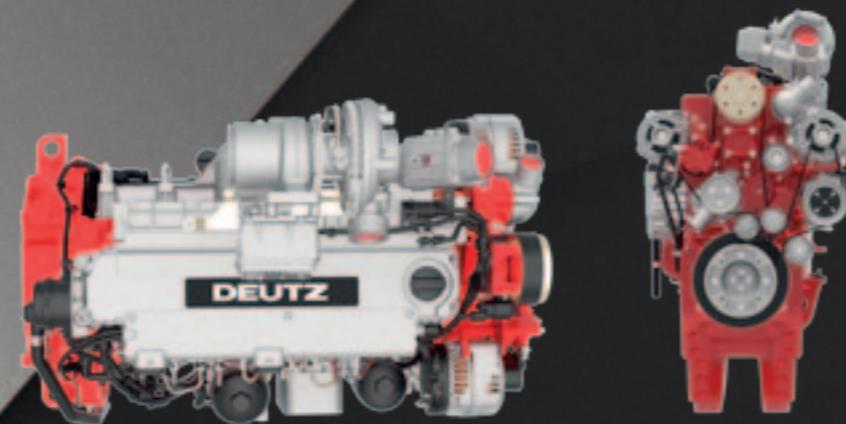


# NEW SERIES 6



**THE ONLY  
WAY TO BE  
FIRST IS TO  
ALWAYS GO  
FORWARD.**

# POWERFUL ENGINES OFFER GREATER POSSIBILITIES.



## EFFICIENT, ECOLOGICAL ENGINES.

The new Series 6 tractors are flexible and adaptable, with engine power ratings ranging from 140 to 190 hp. The agricultural operating excellence is achieved as a result of a maximum torque at 1600 rpm, while maximum power is achieved at 1900 rpm, and this remains constant between 1600 and 2100 rpm, this being the most popular engine speed band most used in farming applications.

4 valves per cylinder, wastegate turbochargers and intercooler, integrated electronic control of the Deutz Common rail (DCR) injection with pressures up to 1600 bar and after engine treatment of emissions with the SCR catalyzer represents a formidable package which allows the engine to express its full potential, while keeping specific fuel consumption low and reducing harmful emissions to a minimum.

## BETTER PERFORMANCE, INCREASED PRODUCTIVITY.

Together with the new combustion chambers formed directly in the piston crowns, the Deutz Common Rail (DCR) system enables the engine to reach a consistently high level of performance even in the toughest jobs, with a generous amount of torque available right down to the lowest engine speeds. This makes for a higher tractive capacity for ploughing and heavy transport duty, which, combined with a high level of engine reaction to the conditions, translates into higher productivity, reduced fuel consumption and minimal vibration, at both idle and operating speeds. Thanks to the introduction of the SCR catalyzer, which enables these engines to run cleaner without the need to resort to exhaust gas recirculation, fuel consumption can be reduced by as much as 10% for the same power output compared to previous versions.



## LOW FUEL CONSUMPTION AND REDUCED RUNNING COSTS EVEN WITH ADBLUE.

The fuel savings easily compensate for the cost of AdBlue (a 32.5% solution of high purity urea in demineralised water, required with Selective Catalytic Reduction or SCR technology) optimising the operating costs while at the same time helping to protect the environment.

The 35 litre AdBlue tank in no way compromises the 300 litre capacity of the main fuel tank. The AdBlue tank capacity ensures that one full tank of AdBlue is required for up to two tank fills of fuel. (depending on the operation). Extra long working days are therefore no longer a problem. The engine in the new Series 6 is also ready to accept the usage of the new biofuels, happy to run on biodiesel, both when mixed with conventional diesel or used undiluted at 100% (B100).



# READY TO CHANGE FOR THE BETTER.



## THE RIGHT GEAR FOR EVERY TASK.

As standard, the transmission of the new Series 6 comprises 6 ranges and 4 Powershift speeds, giving a total of 24 gears, plus a creeper (available in the four lowest ranges) and electrohydraulic power shuttle, making headland manoeuvres effortless and providing greater manoeuvrability when working with a front loader in tight spaces.

This makes a total of 40 forward gears and the same number in reverse, with the speeds intelligently spread to prevent unnecessary overlap. When travelling on the road, the engine speed is just 1550 rpm<sup>(\*)</sup>, thereby reducing consumption, as well as noise and vibration.

The response of the electrohydraulic shuttle is adjustable, making it possible to change travel direction on the move, even on slopes, at speeds of up to 12 km/h, simply by using the lever on the left of the steering column and with no need to press the clutch pedal.

*(\*) = 1550 rpm for the 6160 model; 1640 rpm on the 6150, 6180 and 6190 models, all equipped with standard tyres.*

## WORKING IN AUTOMATIC.

The Automatic Powershift on the high specification "P" models is a fully automatic shift, which automatically selects from 4 Powershift speeds in each range the most suitable speed according to the load and engine speed. Rapid response times are essential when frequent gearshifts are required. This leaves the operator free to concentrate on the job in hand and optimises engine performance while reducing fuel consumption. Automatic management of four-wheel drive engagement and the front and rear differential locks ensures that the Series 6 can easily handle the trickiest situations and conditions. Responding to tractor speed and steering angle, the electronic control unit controls engagement of the four-wheel drive as well the differential locks to ensure maximum traction when ploughing and easy manoeuvrability on the road.



## THE FULL RANGE OF PTO SPEEDS.

The possibility to have a selection of PTO speeds further enhances the versatility of this tractor, allowing the operator to work at maximum efficiency also when full engine power is not required. The Agrotion Series 6 offers four PTO speeds as standard: 540 rpm, 1000 rpm and their ECO mode equivalents. All 4 speeds benefit from electrohydraulically assisted engagement and disengagement and automatic load sensing, to guarantee the smooth, gradual drive startup of attached implements. Also standard are the PTO controls on the rear fenders, while the front hitch option comes complete with a 1000 rpm front PTO, also available in ECO mode.



# THE PERFECT BLEND OF STRENGTH AND PRECISION.



## A TOP CLASS HYDRAULIC SYSTEM.

The hydraulic system is comprised of a dedicated 42 l/min capacity pump for the power steering system and auxiliary circuits and a 83 l/min fixed displacement pump supplying the remote valves and hydraulic hitch. The hydraulic system can be increased with an optional 120 l/min capacity load sensing system, which matches hydraulic power output to the actual demand from the implements, thus reducing power wastage, fuel consumption and extending the service life of the hydraulic system components.

Standard model specification (Market dependent) includes two mechanically controlled double-acting remote valves (which can be increased to 4) and which can be supplemented by an optional electronically-controlled remote valve. On the "P" version, 4 electronically-controlled double-acting remote valves are fitted as standard with option of increasing the number to 7.

When increasing the total number of valves to 7, 2 will be front remote valves. All remote valves can be locked and can also be used as single or double-acting valves, also when the hitch is in operation. The valves on the PowerCom lever also have a timer with all standard valves equipped with adjustable flow controls.

## MAXIMUM PRACTICALITY AND EASE-OF-USE.

The Power-Beyond hydraulic coupler allows full oil flow from the pump to be distributed to one or more hydraulic motors on an attached implement. This is an extremely useful feature when using implements that have their own hydraulic power drive. The high capacity improves hydraulic system performance and helps keep down fuel consumption.

All of the Series 6 models are equipped with "push-pull" hydraulic couplers, for easier connection even from lines under pressure. The couplers have spill collectors to recover any oil spillage during coupling and uncoupling.



## A HIGH-CAPACITY HITCH.

The new Series 6 Agrotions are all equipped with electronic 3-point hitch control (EHR), which, in addition to providing draft, position, intermix and float control, also has a wheel slip control function. The maximum lifting capacity of the rear 3-point hitch is 6000 kg, which can be increased to 9200 kg with the optional auxiliary lift rams. The optional front hitch has a lifting capacity of 3800 kg.

Rapid soil entry, ride control dampening system to reduce oscillation of mounted implements, locking at any height, lift height limitation, rate of drop control - all are included as standard.

The operating parameters of the 3-point hitch are controlled from the dials within the right-hand console, with the selected values displayed on the digital display on the instrument panel or the optional i-Monitor. The maximum level of wheel slip can be set on a dedicated control knob.

This advanced instrumentation makes it possible to monitor in real time all the information relative to tractor operation and productivity.



# FUNCTIONALITY BORN FROM ATTENTION TO DETAIL.



## 5 STAR COMFORT.

The steel access steps with non-slip treads are illuminated automatically when the cab door is opened, making entry and exit safe and easy.

Once inside the cab, the operator feels in total control over his surroundings, thanks to the large windows giving visibility over 320°, and the openable glass roof hatch with roller sunblind. Night visibility is ensured by a total of up to 15 work lights - 6 at the front and 9 at the rear.

The new S-Class 2 cab is characterised by the warm grey tones used for the trim and upholstery, the three-spoke steering wheel with aluminium-effect inserts, the multifunction armrest that groups together all the main controls in one position, and the radio housing and 4 speakers - all fitted as standard.

There is also the option of mechanical or pneumatic suspension, automatic climate control with electronic control and electrically heated rear-view mirrors; the perfect package to ensure the cab is even more comfortable and a welcoming environment during those long working days.

## A HIGH QUALITY WORKING ENVIRONMENT.

Even in the standard configuration, the driver's seat has pneumatic suspension and automatic positioning. There is also the option of a new active-suspension seat, offering unparalleled isolation from vibration and enhancing ride comfort. The passenger seat has been updated with improved padding for greater comfort.

With a total of 14 adjustable outlet vents positioned intelligently around the cab, the powerful air conditioning system is able to maintain the perfect interior climate in all conditions, whether baking sun or intense cold, as well as allowing fast demisting and deicing of cab windows.

The quality of the air inside the cab is always excellent due to special filters (there is also the option of active carbon filters) installed in the side pillars of the cab, with quick and easy access for cleaning or replacement.



## LEADING EDGE ON-BOARD TECHNOLOGY.

The i-Monitor, a new multimedia user interface for control of all the main functions of the tractor, with an intuitive and easy to use control panel with its convenient selector dial.

From the main menu, the user can access tractor functions (3-point hitch, PTO, remote valves, engine and ASM transmission, cab suspension), performance data (fuel consumption, productivity, area worked), the ISOBUS functions for the control of compatible implements, as well as audio and communication functions (mp3 player and hands free Bluetooth).

# THE HIGHEST SAFETY STANDARDS IN THE FIELD.



## INNOVATIVE, HIGH-EFFICIENCY BRAKING SYSTEMS.

To increase both active and passive safety, Deutz-Fahr has developed a package that, without any compromise, offers the very best technology currently available on the market.

The Power-Brake system has become synonymous with maximum braking capacity and the highest level of operator comfort. Driving safety can further be enhanced by the addition of the optional oil-immersed disc brakes on the front axle, which provide a level of braking efficiency similar to that of a car, without having to resort to engaging four-wheel drive.

In combination with i-Monitor, the Series 6 can be equipped with a video camera that activates automatically when reverse gear is engaged. This enables the operator to effect reversing manoeuvres and to hitch implements in complete safety.

# TO GET THE BEST RESULTS, JUST LEAVE IT TO THE TRACTOR.

## AUTOMATION THAT LEADS TO COST SAVINGS.

The Comfortip function, included as standard, allows you to program and recall a number of operating sequences (typically those used for headland manoeuvres) without requiring any manual intervention from the operator. On request, the tractors in this series can be fitted with the optional Agrosky satellite-guided automated driving system, which, in its most sophisticated version, can achieve an accuracy of  $\pm 2$  cm. The standardised ISOBUS 11783 interface provides genuine “plug and play” capability, eliminating the need to install dedicated auxiliary monitors.

With all compatible implements, a simple connection is all you need to start work immediately. In practice this means no more complicated electrical connections and a single terminal is enough for all implements, saving both time and money.

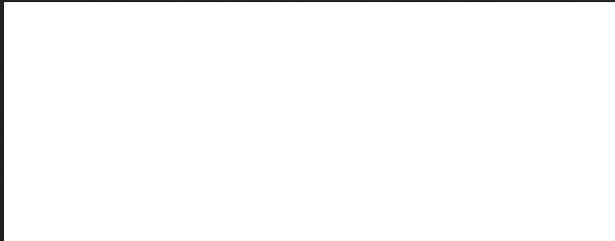


TECHNICAL DATA	SERIES 6						
	6150.4	6160.4	6150	6160	6180	6190	
<b>ENGINE</b>							
Model	DEUTZ - TCD 4.1 L04 4V Tier 4i		DEUTZ - TCD 6.1 L06 4V Tier 4i				
Injection type/Pressure	Deutz Common Rail / 1600 bar		Deutz Common Rail / 1600 bar				
Cylinders / Displacement	n°/cc	4 / 4038		6 / 6057			
Approved fuel (l)	Diesel, B100						
Power at rated engine speed (ECE R-120)	kW/hp	101/137	115/156	101/137	115/156	123/167	135/184
Rated engine speed	rpm	2100	2100	2100	2100	2100	2100
Maximum power (ECE R-120)	kW/hp	110/149	122/166	110/149	122/166	129/175	142/193
Power (homologated to ECE 2000/25/CE)	kW/hp	103/139	113/153	104/141	120/163	128/174	142/193
Constant power range	rpm	1600-2100	1600-2100	1600-2100	1600-2100	1600-2100	1600-2100
Maximum torque	Nm	605	672	605	672	740	820
Max. torque revs	rpm	1600	1600	1600	1600	1600	1600
Fuel tank capacity	l	230		300			
AdBlue tank capacity	l	28		35			
<b>TRANSMISSION</b>							
No. of speeds	24 / 24 and 40 / 40						
No. of Powershift speeds	4						
Top speed	40 / 50						
Speed matching	std						
Power Shuttle	Wet multiplate clutch with modulation control						
Front axle suspension	opt						
ASM	std						
<b>PTO</b>							
Rear PTO speeds	rpm	540/540E/1000/1000E					
PTO control on fenders	std						
Front PTO speeds	rpm	1000					
<b>HYDRAULIC LIFT</b>							
Maximum lifting capacity (front / rear)	kg	3800 / 9240					
Linkage category	II/III						
3-pt hitch control on fenders	std						
Radar	opt						

TECHNICAL DATA	SERIES 6						
	6150.4	6160.4	6150	6160	6180	6190	
<b>HYDRAULIC SYSTEM</b>							
Fixed displacement pump (std)	l/min	83					
Variable displacement load sensing pump (opt)	l/min	120					
Remote valves (std / opt)	4/7						
Control on fenders	std for "P" versions						
Dedicated steering pump	l/min	42					
<b>BRAKES AND STEERING</b>							
Booster brakes	std						
Oil-immersed disc brakes front and rear	opt						
Air / hydraulic trailer braking	opt						
<b>TYRES</b>							
Stands front / rear tyres	18.4R38 / 16.9R24	16.9R28 / 20.8R38	18.4R38 / 16.9R24	16.9R28 / 20.8R38	16.9 R28 / 20.8 R38	16.9 R30 / 650/65 R42	
<b>CAB</b>							
S-Class 2 cab with "warm grey" interior	std						
PowerComS armrest	std for "P" versions						
Operating sequence programming (Comfortip)	std for "P" versions						
Iso-Bus interface and ISO-Bus socket	opt						
i-Monitor	opt						
Padded passenger seat	opt						
<b>DIMENSIONS AND WEIGHTS</b>							
Wheelbase	mm	2419	2647	2767			
Length	mm	4300	4686	4806			
Width	mm	2500	2500	2500	2500	2500	
Weight	kg	5500	5670	5740	5870	6360	6660
Maximum permissible weight	kg	9500	10000	9500	10000	11000	12000

Technical data and pictures are guideline only. 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.

For more information, contact your DEUTZ-FAHR dealer:



The use of SDF original lubricants and coolants is recommended.



DEUTZ-FAHR is a brand of  SAME DEUTZ-FAHR  
[www.deutz-fahr.com/6series](http://www.deutz-fahr.com/6series)

