

6 SERIES



DEUTZ-FAHR

Agrotron 6120.4 - 6130.4 - 6140.4 - 6150.4
6160.4 - 6140 - 6150 - 6160 - 6180 - 6190





THE RIGHT POWER REQUIREMENT FOR YOUR NEEDS

As well as offering outstanding performance and comfort, the 6 Series also offers you the possibility of choosing the ideal tractor for the specific application and ensuring a specification that is tailored for you. Every detail of the new 6 Series is developed and manufactured specifically to cater for the needs of farming businesses and agricultural contractors, and built to deliver impressive performance matched

with low fuel consumption. Performance is not the only factor when choosing the right tractor to maximise productivity and minimise operating costs, a number of other fundamental characteristics must also be taken into account. To meet the widely varied needs of today's farmer, the 6 Series is offered with a generous choice of models and specification options. Both 4 and 6 cylinder engines are fitted with SCR and DCR (Deutz Common Rail) technology. Short wheelbase 4

UP TO ANY CHALLENGE: THE 4 AND 6 CYLINDER MODELS OF THE 6 SERIES



cylinder models, for instance, are perfect for multi-task and transport applications, while the longer wheelbase, sturdy 6 cylinder versions are created with heavy duty tillage applications in mind. The 6 Series represents a major evolutionary step forward in the mid to high power tractor segment. A 4 cylinder model is the ideal choice for applications where versatility and agility are needed, while 6 cylinder models are the right answer for jobs where performance is crucial. A

wide choice of configurations cover a vast spectrum of applications: from tillage, seeding, crop treatment and harvesting to efficient trailer work. The extraordinary versatility of the 6 Series makes it perfect for the both medium sized farm using the tractor as an all-rounder and farming contractors offering a variety of farm contract work and transport services.



6 SERIES - A COST-
EFFECTIVE ANSWER FOR YOUR
BUSINESS

FEATURE SUMMARY

The S-Class² cab – quiet, comfortable and ergonomic

New Powershift Sense Shift transmission – for effortless shifting

Modulated 4-speed PTO with progressive implement engagement

Integrated front hitch and front PTO with Comfort control

Factory ready for integration of Isobus and Agrosky steering system which is available as an option

Hydraulic front axle suspension and pneumatic cab suspension working in perfect unison

Powerful and environmentally friendly 4 or 6 cylinder DEUTZ engines with SCR emission technology

A comprehensive hydraulic system with up to seven auxiliary valves available and a pump output of up to 120 l/min

All-round lighting with up to 26 work lights and optional Xenon technology

Transmission, hydraulic and engine function controls located on the armrest console as standard

Rear wheels up to 42" for superb traction and minimal soil compaction

Lift capacity up to 9.2 tonnes – no implement is too big a challenge

The new 6 Series is the right answer for operators looking to utilise the benefits of modern transmission technology. Simplicity of use and outstanding tractive performance are matched by the unrivalled economy which has always been at the heart of the Agrottron concept. Boasting innovative SCR technology, the new DEUTZ engines offer incredible fuel efficiency with power, performance and economical running costs. These engines are matched to the new Powershift Sense Shift transmission, for levels of driver comfort unlike anything you've ever experienced before.



QUALITY
ASSURED...
THOUSANDS OF TIMES



With over 60,000 units produced to date, the DEUTZ-FAHR Agrottron is one of the best selling German tractors in the world. This is a tractor whose extraordinary productivity and versatility have been proven by over 100 million working hours in the field.

YOU'LL BE CONVINCED

The new 6 Series was also developed to the demanding standards of German engineering, and is built at Lauingen by a highly qualified workforce. We'll be happy to organise a visit to a plant for you, so you can see the superlative quality of our production process for yourself.

TARGET CUSTOMER GROUPS

To create its products, DEUTZ-FAHR draws from its close relationship with farmers and farming contractors, involving them in every stage of the development process. Work teams made up of experts in each specific field contribute to every stage in the development of a product to ensure that all requirements are met.

A STATE OF THE ART DEVELOPMENT CENTRE

DEUTZ-FAHR boasts one of the world's most advanced technological development centres for agricultural machinery. Our testing centres analyse the durability and function of every component in a tractor in high hour tests. The results of this testing play a crucial role in the development of our machines.



THE S-CLASS² CAB - QUIET,
COMFORTABLE AND
ERGONOMIC



THE DEUTZ-FAHR CLEAR VIEW CONCEPT

Large screens and windows, rounded mudguards and a sloped hood form the principles of the DEUTZ-FAHR clear view concept, which allows the 6 Series to offer a high degree of unobstructed all-round visibility that is normally reserved for higher power categories.



THE PERFECT CLIMATE

The effective air conditioning system of the 6 Series lets you keep your cool in any situation. Combined heating/cooling temperature control and 14 adjustable vents let you select and maintain the ideal climate in your workplace.



A LEGENDARY CAB

The S-Class² cab of the new 6 Series is the next evolution of the legendary Agrottron cab. Generous sized windows and screens combined with narrow posts offer perfect 360° visibility. The all-new interior boasts attractive colours and superior quality materials. Numerous storage areas are located logically around the cab and allows documents to be stored safely, while the drinks cooler is big enough even for large bottles. And with a new padded passenger seat with safety belt, your passenger will also feel right at home in the cab.

POWERCOMS CONTROL LEVER WITH COMFORTIP.

- 1 Auxiliary electro-hydraulic valve 1
- 2 Auxiliary electro-hydraulic valve 2
- 3 Hydraulic Power shuttle: Forward / Reverse
- 4 Lift control: lift and lower / quick soil engagement, activate EHR
- 5 POWERSHIFT: Powershift transmission
- 6 Comfort clutch. (Activation button on the front of gear lever)
- 7 Engine speed programming
- 8 Electronic hand throttle
- 9 Neutral (transmission)
- 10 Differential lock
- 11 4WD
- 12 Control joystick for auxiliary valves 3 and 4
- 13 APS - Automatic Powershift



POWERCOMS ARMREST: EVERYTHING IN ITS PLACE



MAKING YOUR WORK SIMPLER AND MORE COMFORTABLE

The simple and logical control layout of the S-Class² cab will make you feel immediately at home. Whether you choose the standard or P version armrest console, all the important controls for your day to day work are at your fingertips. The P variant includes electro-hydraulic auxiliary valve control and the ComfortTip headland management function.



COMFORT AND SAFETY: MAXIMISE YOUR PRODUCTIVITY

Whether in the field, on the road or working with the front loader on the farm, the new 6 Series offers unparalleled comfort in every situation. The front axle suspension, cab suspension and sprung driver seat work in tandem to smooth out even the most uneven terrain, while the new Sense Shift transmission also compensates for variations in load. Automatic functions offered as standard for engaging/disengaging 4WD, the differential lock and PTO further lighten the workload on the driver, while external duplicate controls for the PTO, hitch and an auxiliary valve make hitching implements or static operations easier.



FRONT AXLE SUSPENSION

The electrically controlled hydraulic front suspension of the new 6 Series consists of a sturdy oscillating axle, two hydraulic rams and an electric control system. This means that the suspension can be locked while still allowing full lateral oscillation of the front axle. This offers an enormous advantage not only for front loading applications, but also, during particularly difficult cultivation jobs in the field, where implement depth must be maintained precisely while also maximising full traction requirements.



CAB SUSPENSION

The optional air cab suspension system uses two generously sized pneumatic rams to sustain the weight of the cab itself. An automatic level control keeps the cab at the correct height at all times regardless of the weight of the driver. This system also maintains constant suspension travel in all conditions. Unlike a hydraulic system, external temperature has no effect on driver comfort.

BRAKES

The new 6 Series generously sized wet disc brakes on the rear axle. The new lubrication system optimizes braking force without unnecessary friction, drag or power loss. The new brake system with power boost brakes delivers impressive stopping power progressively, safely and is controllable in all conditions.





ASTONISHING ECONOMY



ENGINE

Boasting innovative SCR / AdBlue technology, the new engines of the 6 Series combine extraordinary performance with outstanding fuel economy. All these engines are compatible with fuels containing up to 100% biodiesel (B100), giving you the freedom to choose the most cost-effective fuel for your needs.

TRANSMISSION

With its simple construction, the new Sense Shift transmission minimise power losses for extraordinary efficiency. With perfectly spaced ratios and smooth shift action, the transmission keeps the engine working at the optimum speed in all conditions.

PTO

With a choice of four-speed PTO, two are economy PTOs allowing the engine to run at a lower rpm whilst maintaining PTO drive speed. This saves fuel and increases the quality of the end result.

HYDRAULIC SYSTEM

The optional Load Sensing hydraulic system with variable displacement pump means that tractor delivers only the quantity of oil necessary. The oil circuit feeding the hydraulic system (only for T7140 transmission) is independent from the transmission circuit. This reduces oil heating problems and ensures that there is always enough oil available for powering implements.

S-CLASS² CAB

You'll feel right at home in the new cab. The ergonomic control layout and numerous automated functions as standard help you get your job done quicker and safer.

Save fuel – Drive DEUTZ. For decades, this slogan has encapsulated the astonishing fuel economy of DEUTZ-FAHR tractors. Today, however, an efficient engine is only one of many crucial factors at play in the economy of a tractor. Power Efficiency stands for lower operating costs per hectare and kilometre. This has been made possible by a combination of the following factors.





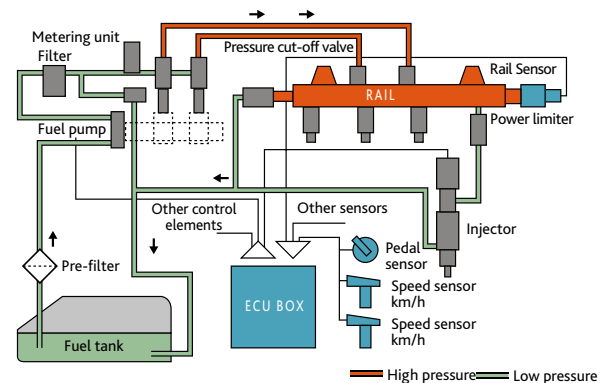
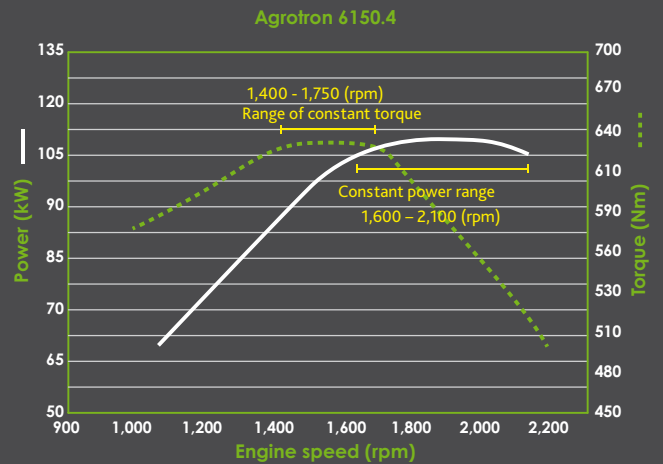
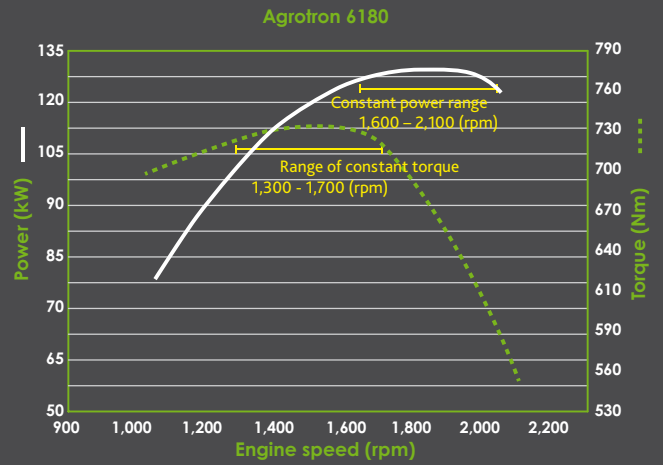
ASTONISHING POWER

DEUTZ engines have been synonymous with pure power and economy for over 140 years. Boasting the latest evolution in fuel injection systems and innovative SCR technology, the engines of the 6 Series deliver extraordinary power and performance while minimising fuel consumption. The highly efficient exhaust gas treatment system using AdBlue additive has made it possible to optimise the fuel consumption of these engines without compromising power.



ENGINE AND TRANSMISSION – A PERFECT MATCH

The constant power engines fitted in the 6 Series ensure that even in the toughest conditions, these engines have the ability not to lose power. Electronically controlled wastegate turbocharger, 4-valve cylinder head and DCR high pressure fuel injection system all have significant impact on the power, performance and efficiency of these engines. The sense shift transmission ensures the power is transferred effectively to the rear wheels.



B100 – READY FOR TOMORROW'S FUELS

With injection pressures up to 1,600 Bar, the high pressure DEUTZ Common Rail system ensures complete atomisation of the fuel in the combustion chamber. The robust construction and unique engine oil lubrication system of the high pressure pumps mean that our latest generation of engines can also run on 100% Biodiesel. This also means that these engines are compatible with commonly available fuel blends containing up to 20% Biodiesel.



UNRIVALLED SHIFT SIMPLICITY: THE RIGHT RATIO, EVERY TIME

THE RIGHT GEAR FOR EVERY JOB

Two sense shift transmissions are fitted in the 6 Series. 6120.4 - 6140 models have a 32x32 gearbox which consists of four powershift speeds and four gear shifts. A field/road range activated from the same gear lever ensures a good selection of working speeds. Optional creep speed increases the gears to 48x48. 6150.4 - 6190 transmission provide 24x24 standard speeds with optional creep (available in the four lowest ranges) increasing the gear selection to 40x40. The sense shift powershift controller ensures smooth shifting during loaded and non-loaded gear shifts. The comfort clutch gear shift allows manual shifting of the lever without using the clutch pedal and is particularly useful on the road to ensure rapid change through the gears. Speed matching provides smooth progressive speed change during transport operations by automatically selecting the appropriate powershift speed when making a manual gear change. On the road, top speed can be attained at just 1,550 rpm (*), for maximum fuel economy, low road noise and reduced cab vibration. The electro-hydraulic Power shuttle with adjustable modulation control lets the driver change direction on the move, at speeds up to 12 Km/h and even on gradients, by simply using a lever on the left of the steering wheel and without pressing the clutch pedal.

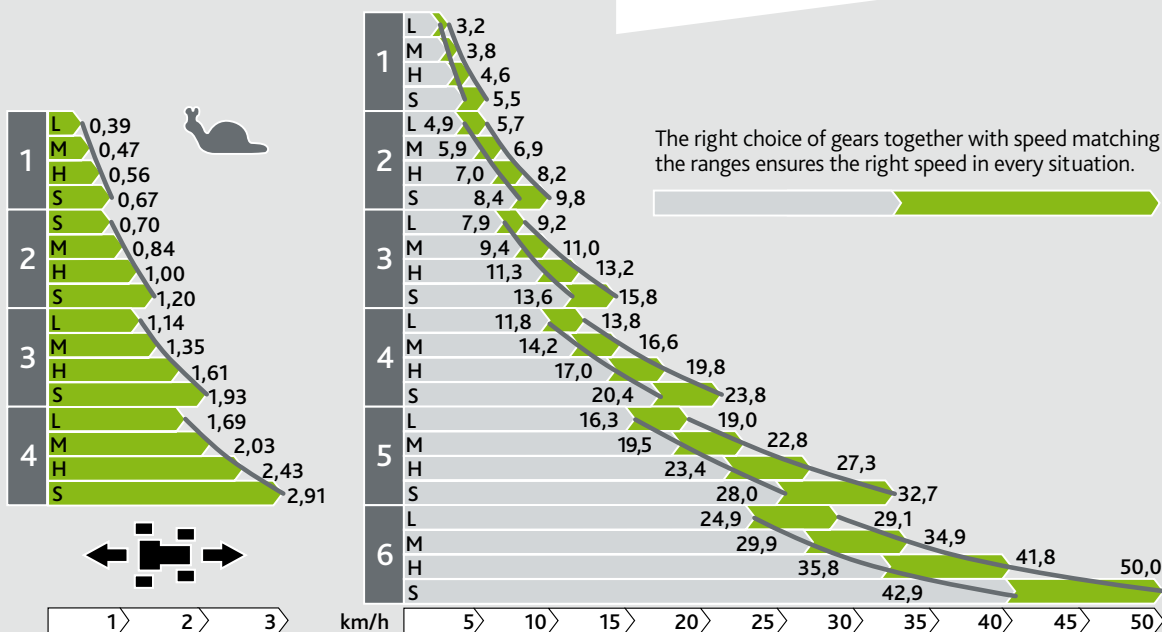


AUTOMATIC SHIFTING, MAKING THE DRIVER'S JOB LESS TIRING

Standard in the P version, the Powershift transmission offers four speeds in each range. The APS (Automatic Powershift) feature automatically selects the ideal powershift speed in relation to load and engine rpm. The rapid response changes of the powershift are effective during operations which require frequent shifting. This lets the driver concentrate fully on the job in hand while the system optimises engine efficiency to reduce fuel consumption. Automatic 4WD and differential lock control gets the machine out of even the trickiest situation. The system automatically engages or disengages 4WD and the differential locks in relation to speed and steering angle. This not only maximises traction for jobs in the field, but also ensures good manoeuvrability.



Above: Powershuttle with adjustable modulation control settings.



The right choice of gears together with speed matching through the ranges ensures the right speed in every situation.

(* where permitted by law)



PRECISION HYDRAULICS



A CLASS-BEATING HYDRAULIC SYSTEM

The hydraulic system consists of a 42 l/min pump dedicated to supplying the steering system and lubrication circuits, with an 83 l/min fixed displacement pump for the auxiliary valves and hitch. A "Load-Sensing" (120 l/min) hydraulic system is optionally available, which automatically adjusts output in relation to the hydraulic demands of the implements, reducing power loss and fuel consumption while maximising the lifespan of hydraulic components. The system comes as standard with four double acting mechanically operated valves. "P" versions are equipped with four, double acting electronically operated valves (or, as an option, up to seven can be fitted). Both configurations are available with up to two front valves. All the auxiliary valves may be activated, even while the hitch is been operated. Timer cut-out control is available on two valves with flow control setting available on the four standard valves.



VERSATILITY AND EASE

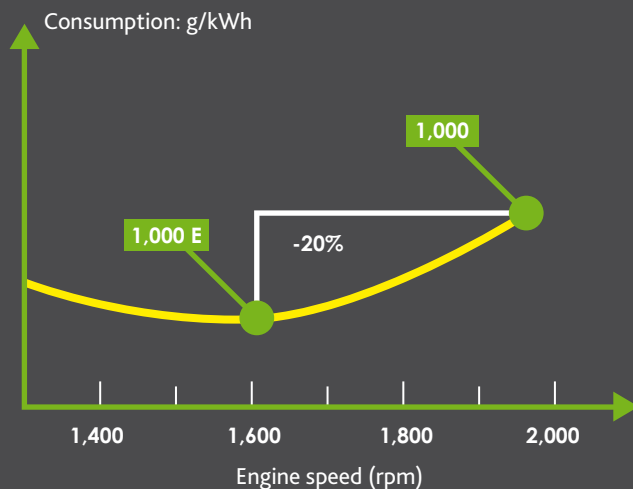
The Power-Beyond connection may be used to direct the entire flow of pressurised oil delivered from the hydraulic pump to one or more hydraulic motors on the implement. This function is required when using implements with their own hydraulic units and control valves. The high output rate satisfies large implement demands and improves hydraulic efficiency, which in turn reduces fuel consumption. All 6 Series models are equipped with "push-pull" hydraulic couplings, for trouble-free connection of hydraulic hoses even when pressurised. The couplings include an oil recovery container to collect any oil which may escape when connecting hoses to implements.



ALL THE POWER
YOU NEED



ECONOMY PTO



The economy PTO not only reduces engine speed, but also reduces wear, noise and fuel consumption.



PTO speed selector lever, with practical electrohydraulic controls for engaging and disengaging.

A COMPREHENSIVE CHOICE OF PTO SELECTION

Having a choice of alternative PTO speeds contributes significantly to increasing the versatility of a tractor and lets you maximize efficiency in applications where not all the power of the engine is needed. Agrotron 6 Series tractors offer all four PTO speed selections as standard, with the two normal speeds 540 and 1,000 rpm available in both standard and ECO form. All speeds are selected mechanically and engaged electrohydraulically with an automatic load sensing function to ensure that the implements connected are always engaged progressively and smoothly. External control of the rear PTO from both rear fenders is also fitted as standard, whilst the optional front hitch comes complete with a 1,000 rpm PTO.





SIMPLIFIED SERVICING AND MAINTENANCE



EVERYTHING IN CLEAR SIGHT

All levels are easy to check while all the main components are monitored electronically from the cab.

EASY TO REACH

All the main maintenance points on the new 6 Series are easily accessible from the ground. The radiator assembly is hinged, making it possible to clean the elements of the tractor's cooling system more quickly. All lubrication points are well protected but easily accessible.



TAKE A DEEP BREATH

The multi-stage air intake filter system means that the engine always has plenty of fresh air. The cyclone pre-filter fitted as standard includes an automatic dust removal system. The new PowerCore main filter with back-up filter cartridge ensures total engine protection even when working in very dusty conditions.

COMFORT IN THE DETAILS

Tractors with a pneumatic system feature an air drier to offer the same levels of safety and comfort as a truck. Water no longer needs to be drained manually from the pneumatic system, and there is no more risk of moisture freezing in the system at low temperatures.

EXTENDED MAINTENANCE INTERVALS

Extended filter and oil change intervals drastically running costs per working hour. With less time spent on maintenance during the busy season, your work will be even more efficient and productive.

DEUTZ-FAHR SERVICE

Your DEUTZ-FAHR dealer and service staff attend training courses every year. This keeps them up to date with the knowledge necessary to always

provide a quality service for even the most innovative products and allows them to recommend the best suited specification for your needs at the time of purchase, and offer you the support you need throughout the lifetime of your tractor. Our partners' professionalism and comprehensive knowledge of our machines will help you make the most out of your tractor and maximise performance. And with the latest diagnostic systems and the right tools for servicing your tractor correctly, our partners are a dependable ally you can always turn to for support.

SAME DEUTZ-FAHR FINANCE

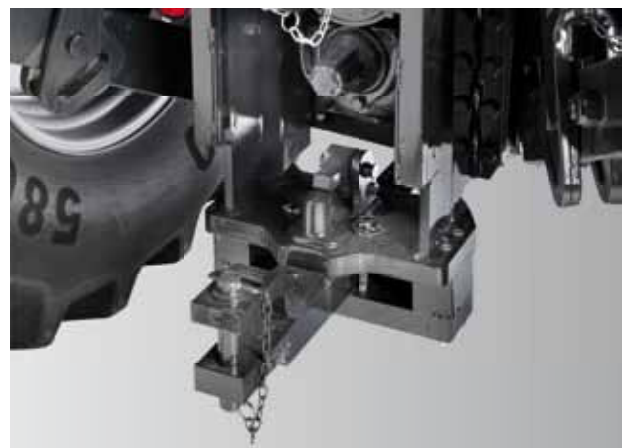
Through our specialised partners, we can offer you a financing solution tailored to your needs. Take advantage of our decades of experience and our close relationship with our dealer network when the time comes to sell your used machines. Visit one of our dealers, where our personnel will be happy to offer expert advice.

ORIGINAL DEUTZ-FAHR SPARE PARTS –

Using original DEUTZ-FAHR spare parts will keep your tractor working with the same reliability and performance as always for years. Choose the DEUTZ-FAHR sales and service network to make sure that you always use the right components for your tractor.



ALL-INCLUSIVE PACKAGE

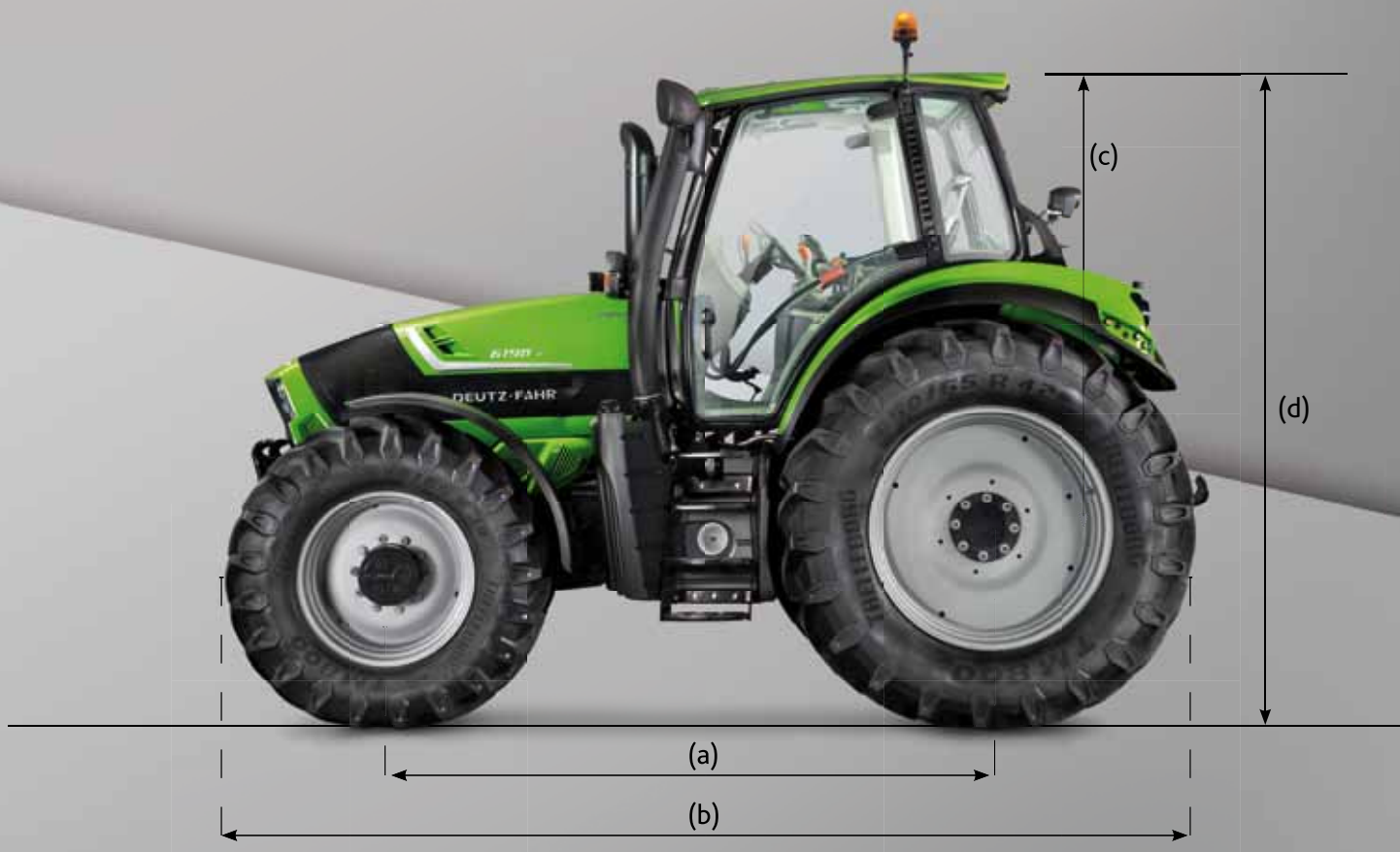


The new 6 Series offers you the choice of a wide selection of specifications and options to let you tailor your tractor precisely to the needs of your work. The generous standard equipment of your tractor may be supplemented with a comprehensive range of options created to let your tractor keep up with the evolving needs of your business. Your DEUTZ-FAHR dealer will be happy to advise you.

TECHNICAL DATA	6 SERIES									
	6120.4	6130.4	6140.4	6140	6150.4	6160.4	6150	6160	6180	6190
ENGINE										
Engine manufacturer	DEUTZ									
Engine model	TCD 4.1 L04 4V			TCD 6.1 L06 4V	TCD 4.1 L04 4V			TCD 6.1 L06 4V		
Emissions standard	4i						4i			
Injection system type / injection pressure	DCR / 1,600 bar						DCR / 1,600 bar			
Number of cylinders	4			6	4			6		
Displacement (cm ³)	4038			6057	4038			6057		
Compatible fuel/s	Diesel, B100									
Power at rated engine speed (ECE R -120)	83.9/114	91/124	95.4/130	95.4/130	104/141	115/156	104/141	115/156	123/167	135 / 184
Rated engine speed	2,200			2,100	2,200			2,100		
Max. power (ECE R-120)	87/118	94.3/128	99.2/135	99.2/135	112.8/153	122/166	112.8/153	122/166	129.5/176	142.3/194
Power at rated engine speed with boost (ECE R -120)	-	-	103.7/141	103.7/141	-	-	-	-	-	-
Max. power with boost (ECE R 120)	-	-	106.1/144	106.1/144	-	-	-	-	-	-
Constant power rpm range	1,600-2,100									
Maximum torque	481	546	628	628	605	672	605	672	740	820
Torque reserve (%)	31	38	40	40	33	32	33	32	31	34
Fuel tank capacity	210						280			
AdBlue tank capacity	28						35			
Oil change interval	500 h									
TRANSMISSION										
ZF										
Transmission: type	Powershift									
Number of gears	32+32 / 48+48				24+24 / 40+40					
Automatic transmission (APS)	°									
Proportional valve control	•									
Speedmatching	•									
Adjustable Powershuttle	•									
Engine speed at 40 Km/h (rpm)	1,510			1,589	1,420	1,589	1,420	1,596	1,540	
Engine speed at 50 Km/h (rpm)	1,887			1,987	1,767	1,987	1,767	1,995	1,923	
Brake booster	•									
4WD engagement	Electrohydraulic									
Differential lock	electrohydraulic, 100% diff lock									
Braked front axle	°									
Compressed air system	°									
Mechanical parking brake	•									
Inter axle ratio (i)	1.3701			1.3657	1.3255	1.3657	1.3255	1.3172	1.3443	
Standard rear PTO speeds	540/540E/1,000/1,000E									
PTO clutch	Multiplate wet clutch with oil lubrication									
External PTO control	•									
Front PTO speed	1,000									
Max. front PTO power delivery	110 kW/150 HP									
Shaft profile	1 3/8", 6 teeth									
Engine speed with normal PTO (rpm)	1,946							1,965		
Engine speed with ECO PTO (rpm)	1,543							1,645		

TECHNICAL DATA	6 SERIES									
	6120.4	6130.4	6140.4	6140	6150.4	6160.4	6150	6160	6180	6190
HYDRAULICS										
Manufacturer	Bosch									
Fixed displacement pump (standard)	70				83 l					
Fixed displacement pump (optional)	90									
Load Sensing hydraulic system with variable displacement pump	°									
Hydraulic pump delivery (standard on P version)	120l									
Hydraulic operating pressure	200									
Mechanical valves (standard)	2									
Electronic valves (standard)	4									
Valves (optional)	5, 6, 7									
Power Beyond	°									
Rear lift: 3-point linkage class	II/III									
Max. rear lift capacity	6,200 Kg				9,200 Kg					
Front lift (optional)	3,800 Kg				4,000 Kg					
Rear remote EHR control	•									
Rear remote valve control	°									
Remote front hitch control	°									
Rear remote EHR control	°									
Radar sensor	°									
CHASSIS										
ASM (Automatic System Management)	°									
Front fenders	•									
Front axle suspension (standard on 50 km/h version)	Hydro-pneumatic, self-levelling									
Wheel slip control	°									
Steering pump	independent, 42 l/min									
Steering	54				55					
Pneumatic system	°									
ELECTRONIC										
Voltage	12 V									
Alternator	12 V, 150A				12 V, 200A					
Starter motor	12 V, 3 kW				12 V, 4 kW					
Electronic battery master switch	•									
7-pin ISO signal socket	°									
TYRES										
front 1	540/65 R28	540/65 R28	540/65 R28	540/65 R28	540/65 R28	480/70R28	540/65 R28	480/70R28	480/70R28	540/65R28
rear 1	600/65R38	600/65R38	600/65R38	600/65R38	600/65R38	580/70R38	600/65R38	580/70R38	580/70R38	650/65R42
front 2	480/70R24	480/70R24	480/70R24	480/70R24	480/70R24	540/65R28	480/70R24	540/65R28	540/65R28	480/70R30
rear 2	520/70R28	520/70R28	520/70R28	520/70R28	520/70R28	650/65R38	520/70R28	650/65R38	650/65R38	580/70R42
front 3	16.9R24	16.9R24	16.9R24	16.9R24	16.9R24	16.9R28	16.9R24	16.9R28	16.9R28	600/60R28
rear 3	18.4R38	18.4R38	18.4R38	18.4R38	18.4R38	20.8R38	18.4R38	20.8R38	20.8R38	710/60R42
WEIGHTS										
Max. permissible gross vehicle weight (Kg)	9,000	9,000	9,000	9,000	9,500	10,000	9,500	10,000	11,000	12,000
Max. permissible front axle load (Kg)	4,000	4,000	4,000	4,000	4,200	4,700	4,200	4,700	4,900	5,200
Max. load on rear axle (kg)	6,600	6,600	6,600	6,600	7,200	8,400	7,200	8,400	9,000	9,200
Weight * (kg)	5,600	5,600	5,600	5,600	5,840	5,960	6,070	6,200	6,560	6,720

* +80 Kg front PTO,+25 Kg cab suspension, +50 Kg pneumatic system




Dealer

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Deutz-Fahr recommends original lubricants and coolants.



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 SAME DEUTZ-FAHR

