6W PROFI SERIES

DEUTZ-FAHR
6130W PROFI - 6145W PROFI
6165W PROFI - 6180W PROFI

DEUTZ-FAHR IS PROUD TO PRESENT THE NEW 6W PROFI

Four models with 6 cylinders, ranging from 130 to 180 HP with synchronised transmission, these new tractors represent a significant development from what was previously just a simple working vehicle. These machines are efficient, productive and versatile as well as being environmentally aware thanks to the use of low impact materials in the production cycle.
Available in the cab-version and with a four-post safety frame with a practical sunroof, the new 6W Profi Series from DEUTZ-FAHR includes modern machinery, which is characterised not only by power levels that allow normal work to be carried out easily, but are also top of the range in terms of production levels and containment of management costs.

ENGINE

The new 6W Profi Series is equipped with the extremely reliable Deutz TCD 2012 L6 engine, with electronically controlled 1600 bar DCR Common Rail injection, turbocharger with intercooler and wastegate valve. The engines stand out for the excellent features of flexibility, low consumption and long service life, with high yields and extremely high torque at low engine speeds.

The DCR Common Rail has two injection pumps, lubricated with engine oil and "immersed" in the crankcase which, together with the electronic adjustment of the engine speed produces excellent torque values even at low engine speeds, reduced noise and fewer vibrations.

To comply with the limits set by Stage III A, the internal recirculation of the exhaust gas is a simple reliable and maintenance-free solution.

Thanks to the innovative electronically controlled engine, consumption is always optimised according to the instantaneous power required; Furthermore, the power supply is practically constant over a wide range of engine speeds while the drive torque increases significantly as the engine speed falls, all for improved smoothness of operation, especially in working processes that require frequent and sudden changes in the resistive load.

To prevent any complication in extremely dusty environments, all the models are fitted with a cyclone prefilter as standard. This not only increases the service life of the main filter but also keeps engine efficiency at maximum levels. The position of the prefilter with the snorkel fitted on the cab post provides optimum visibility.

Lastly, to ensure long lasting working days, models 6130W Profi, 6145W Profi and 6165W Profi are fitted with a 270-litre diesel tank to which an additional 150-litre tank can be added. The 6180W Profi is fitted with a 420 litre single tank as standard.

TRANSMISSION

The transmission of the 6W Profi, fully developed and designed by SDF, is best described as robust, reliable and high performance. There are ample configuration possibilities to provide the right gear for any situation, based on the ideal forward speed for work.

The simplest combination has four synchronised gears in three ranges with reverse (this is also synchronised) resulting in 12 speeds for each direction of travel. As an option, it is possible to have a creeper or super-creeper (in this case, it is possible to work at just 200 m/h with the engine at maximum speed) in order in both cases to increase to 16 the speeds available in forward gear. It is also possible to add a splitter for a total of 24 speeds in forward gear. Traction is also optimised thanks to the new electro-hydraulic control for engaging front wheel drive and full locking of the rear differential. The front differential has an automatic 45% slippage limitation device, but a electro-hydraulically controlled 100% locking device for the front axle comes as an option. To ensure maximum manoeuvrability and visibility, the new front support is tapered to ensure a maximum permitted load of 4200 kg.

PTO

The versatility of the new 6W Profi series is increased even further by the availability, as standard, of 2 PTO combinations: operators can choose from the classic coupled version of 540 and 1000 rpm or the alternative versions of 540ECO + 1000 rpm. In any case, electro-hydraulic engagement is present as standard, which ensures gradual and progressive start up of the equipment connected. To facilitate maintenance operations, the new PTO dedicated clutch has been positioned in an easily accessible area, close to the splined stub shaft.

HYDRAULICS

To ensure maximum versatility of the new 6W Profi series, the hydraulic system is modular and there are various configurations available to meet any specific requirement. Made with premium components, it includes a 43 l/min pump dedicated to the power steering and the auxiliary circuits, to which a second 94 l/min fixed flow rate pump is coupled, serving the main hydraulic circuit. This last pump can be combined with an additional 37 l/min tandem pump, making a total of 131 l/min available.

The 94 l/min pump has 2 of dual effect control valves as standard (for a total of 4 ways), mechanically controlled, which can be increased to 3 (6-ways) as an option. If there is a tandem pump, 6 channels represent the standard version with a possible increase to 8 ways.

The rear lift in the basic version ensures significant lifting capacity, equal to 6850 kg close to the quick hitch coupler. However there is the possibility of adding external hydraulic cylinders as an option, to achieve a lifting capacity of 8600 kg. In any case, the lift operates with extreme precision in the force control mode, thanks to the proverbial reliability of the SDF group's specially designed mechanical controls.

DRIVING POSITION

In the versions with a closed cab and those with the four-post frame and sunroof, the driver area is very spacious, while the ergonomic and comfort levels are extremely high and in line with the most modern standards. The use of new materials, the excellent external visibility and the effective and rational positioning of all the controls make the control station an ideal work place for all applications. Also as standard, the steering column can be adjusted in terms of height and angle, with the dashboard following the movements to ensure maximum visibility of all the information on the digital instruments in all situations.

A comfortable folding passenger seat is available as an optional. Air conditioning is provided as standard in the cab versions: to ensure even ventilation in the cab interior, the air is delivered through 10 adjustable air vents. The two cab air filters are intelligently positioned on the sides of the roof, protected by covers which can be easily removed for cleaning operations. A further two filters are for recirculation and to keep the cooled air clean, ensuring that additional energy is not consumed.

Electro-hydraulic engagement for PTO differential lock and 4WD.

Available also with 4-pillars safety frame with sunroof.

TECHNICAL DATA		6W PROFI SERIES			
		6130W Profi	6145W Profi	6165W Profi	6180W Profi
ENGINE					
Manufacturer		Deutz	Deutz	Deutz	Deutz
Model		TCD 2012 L06 2V	TCD 2012 L06 2V	TCD 2012 L06 2V	TCD 2012 L06 2V
Emissions		Stage III A	Stage III A	Stage III A	Stage III A
Internal EGR		●	●	●	●
Cylinder/Displacement	n°/cc	6/6057	6/6057	6/6057	6/6057
Turbo intercooler		●	●	●	●
Wastegate valve		●	●	●	●
Deutz Common Rail (DCR)	bar	1600	1600	1600	1600
Viscostatic fan		○	○	○	○
Power at rated engine speed (ECE R120)	kW/HP	93/126	107/145	124/169	132/180
Max. power (ECE R120)	kW/HP	95/129	112/153	124/169	132/180
Maximum torque	Nm	491	582	680	688
Engine speed at maximum torque	rpm	1600	1600	1600	1600
Torque rise	%	27	31	33	25
Cyclone pre-cleaner with extension on cab post		●	●	●	●
Fuel tank capacity (std)	litres	280	280	280	420
Additional tank capacity (opt)	litres	140	140	140	-
TRANSMISSION					
Manufacturer		SDF	SDF	SDF	SDF
Syncronized speeds x mechanical ranges	n°	4x3	4x3	4x3	4x3
Number of speeds	n°	12+12	12+12	12+12	12+12
Number of speeds with splitter	n°	24+12	24+12	24+12	24+12
Number of speeds with creeper/super creeper	n°	16+12	16+12	16+12	16+12
Maximum speed	km/h	40	40	40	40
Minimum speed with supercreeper gear	km/h	0.19	0.19	0.20	0.20
Synchronized shuttle		●	●	●	●
Hydrostatically operated clutch		●	●	●	●
PTO					
PTO 540/1000		●	●	●	●
PTO 540ECO/1000		○	○	○	○
Electrohydraulically operated		●	●	●	●
External PTO clutch		●	●	●	●
AXLES AND BRAKES					
Limited slip diff. lock		●	●	●	●
Front axle with 100% diff. Lock		○	○	○	○
Electrohydraulically operated differential lock		●	●	●	●
Four-wheel braking system with automatic 4WD engagement		●	●	●	●
Mechanical parking brake		●	●	●	●
Hydraulic trailer braking valve		○	○	○	○
Hydrostatic steering with independent pump		●	●	●	●
Steering angle	degree	55°	55°	55°	55°
HYDRAULIC SYSTEM					
Fixed displacement pump (standard)	l/min	94	94	94	94
Fixed displacement double pump (optional)	l/min	131	131	131	131
Auxiliary rear mechanical distributors (standard)	n°	2	2	2	2
Auxiliary rear mechanical distributors (optional)	n°	3/4	3/4	3/4	3/4
Flow regulator		○	○	○	○
REAR LIFT					
Mechanically controlled rear lift		●	●	●	●
Three Points Hitch Category		Cat.II - III	Cat.II - III	Cat.II - III	Cat.II - III
Rear lift capacity (standard)	kg	6850	6850	6850	6850
Rear lift capacity, two external cylinders 50 mm (optional)	kg	8600	8600	8600	8600
Transport version - without rear lift		○	○	○	○
DRIVING POSITION					
6-post cab		○	○	○	○
4-post safety frame with sun canopy (open station)		○	○	○	○
Air conditioning (only cab)		●	●	●	●
Ventilation and heating (only cab)		●	●	●	●
Seat (PVC)		●	●	●	●
Seat Max (PVC) mechanical suspension		○	○	○	○
Seat Max (FABRIC) mechanical suspension (only cab)		○	○	○	○
Passenger seat		○	○	○	○
Adjustable steering wheel		●	●	●	●
Digital dashboard		●	●	●	●
Silent-Block suspension		●	●	●	●
Telescopic external mirrors		○	○	○	○
Halogen work lights		●	●	●	●
LED work lights		○	○	○	○
DIMENSIONS AND WEIGHTS					
With front tyres	mm	420/85 R28"	420/85 R28"	420/85 R30"	420/85 R30"
With rear tyres	mm	460/85 R38"	460/85 R38"	520/85 R38"	520/85 R38"
Wheelbase	mm	2820	2820	2820	2820
Length (min.-max.)	mm	4702-5782	4702-5782	4702-5782	4702-5782
Height (min.-max.)	mm	2895-3005	2895-3005	2945-3056	2945-3056
Width (min.-max.)	mm	2238-2402	2238-2402	2314-2438	2314-2438
Ground clearance (min.-max.)	mm	450-490	450-490	493-525	493-525
Total unladen weight (min.-max.)	kg	5188-5800	5188-5800	5613-6335	5613-6335
Maximum permissible total weight	kg	9400	9400	10000	10000

STD ● OPT ○ Not available -

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

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