

SERIES 4E



4070E // 4080E // 4090E // 4100E
STAGE V



**DEUTZ
FAHR**

// SERIES 4E

ENGINE

The extremely compact 3-cylinder FARMotion 35 engines (emission Stage V) have been specially developed for agricultural applications. Fuel consumption, emissions, vibrations and noise levels are extremely low. The FARMotion 35 engines are not only modest in terms of fuel consumption but also in terms of maintenance, requiring an oil change interval only after 600 h. They can even run with alternative fuels, being officially certified to run with HVO (Hydrotreated Vegetable Oil). Therefore, all DEUTZ-FAHR 4E models are ready to tackle the challenges of the agriculture of tomorrow, reducing CO₂ emissions and consequently increasing environmental sustainability.

AXLES AND BRAKES

DEUTZ-FAHR has developed special front axles for the compact class of vehicle, which enables a steering angle of up to 55°. For the models 4070E and 4080E are both, 2WD and 4WD versions are available, while the models 4090E and 4100E are always equipped with 4WD. The differential lock and four-wheel drive are activated electro-hydraulically and as standard is provided with 4 wheel braking (40 km/h models). Optionally the 4E can be also equipped with a hydraulic Dual Mode trailer brake system.



Series 4E.

COMPACT FORMAT MEETS
GREAT INNOVATION.





DRIVER PLATFORM

Everyone can feel completely at ease on the driver's platform. The steering wheel and comfort seat are individually adjustable. There is plenty of space to allow freedom of movement, especially in the footwell. The controls are organised logically according to how often they are used and clearly identified with colour coding. Also for work during the night, up to 5 work lights are available.

REAR LIFT

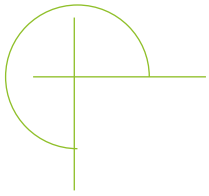
When it comes to rear lift, DEUTZ-FAHR proves once again just how versatile a compact utility model can be. The mechanical rear linkage is extremely accurate and offers sensitive control. It can lift up to 3500 kg. The category II rear linkage is available also with automatic couplers on the upper and lower links and mechanical side stabilisers. It is also available with the new EasyLift system, which allows the driver to lift and lower the rear linkage by a simple push of a switch.

TRANSMISSION

Fully mechanically or with PowerShuttle and Powershift - the choice is yours. The manual transmission options offer configurations of 12+3 or 30+15 gears (with splitter), while the PowerShuttle variants offer 15+15 or 30+30 gears (with two-stage Hi-Lo Powershift). The PowerShuttle transmissions come standard with SenseClutch, ComfortClutch and Stop&Go functions. Every type of transmission allows a maximum speed of 40 km/h at only 1800 rpm, promoting fuel savings and significantly reducing noise during road travel.



Farmyard, barn and light field work – the new Series 4E is the ideal tractor for smaller farms and private operations as well as local authorities and horticulture companies. There are four models to choose from available in both 2 and 4 wheel drive. The new 3-cylinder FARMotion 35 engines are powerful, reliable and ensuring a low fuel consumption, ranging from 66 HP (48.9 kW) to 102 HP (75 kW). Every customer can be certain to find the perfect utility tractor for their work profile here. The robust one-piece bonnet with its modern design made from high-quality steel makes it clear at first glance that this utility tractor is offering innovative technology in a compact format. The new Series 4E is both comfortable and stable in any situation. The driver's platform meets the highest standard of comfort. The dashboard provides clear information about all the operating conditions. The steering wheel and driver's seat are adjustable. The controls have been laid out using the latest findings from ergonomic research. The rear lift and hydraulics offer outstanding versatility. Options include hydraulic pumps with 48 l/min or 56 l/min and up to three spool valves at the rear as well as different PTO configurations. Also available are the fully integrated front loader Light and Ready kit from factory, ideal in combination with the hydraulic PowerShuttle.



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Series 4E: you are certain to find the perfect compact tractor for your work profile.

E TO ORKING NMENT



// FARMOTION 35 ENGINE

Compact format meets great power.

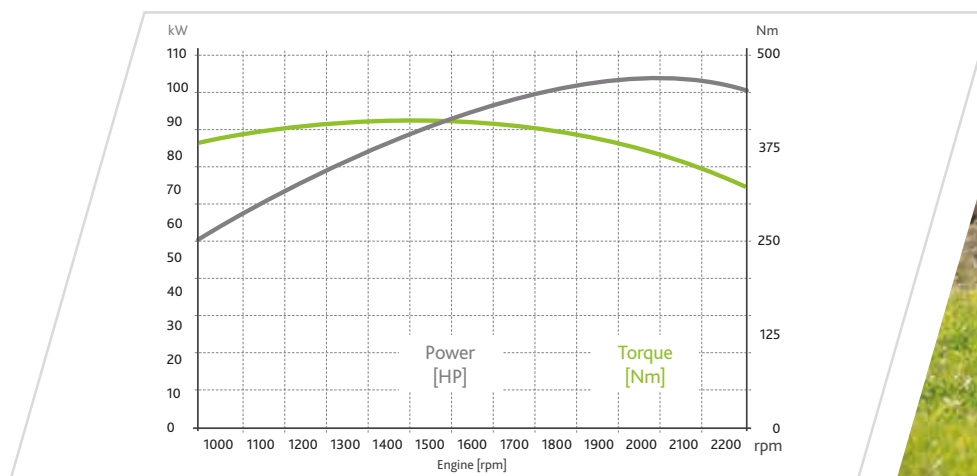
Under the modern designed bonnet are the extremely compact FARMotion 35 engines. The models 4070E and 4080E feature a simplified exhaust after treatment system which avoids the use of AdBlue, allowing operating these models with Diesel only. Instead, the models 4090E and 4100E are due to the higher power equipped with a full exhaust after treatment system including DOC+DPF and SCR. All versions are ready for the future, allowing even to run with alternative fuels, being officially certified to run with HVO (Hydrotreated Vegetable Oil). Thanks to it, CO₂ emissions are reduced and consequently environmental sustainability increased.

FARMotion 35 engines are not only extremely efficient with extreme low fuel consumption, but also comfortable. Minimal vibrations and noise levels are ensured thanks to the hydraulic valve tappets in combination with the 2000 bar Common Rail injection system. And not only during stationary work the operator will benefit of the two electronic engine memories, which allow to store and recall a specific engine speed with just a fingertip.

Other features include the compact cooling system with an enlarged cooling surface, Intercooler, a fuel cooling system, optimised air flow with viscous fan, and the two-stage PowerCore air filter with dust ejector. Thanks to the robust design, the FARMotion 35 engines feature long 600 h maintenance intervals. Long uptime is also ensured due to the straightforward service layout.



> Clean underbonnet layout.



> 4100E power curve.

HIGHLIGHTS

- > FARMotion 35 engines with 2000 bar Common Rail injection
- > 2 engine speed memories
- > New extremely compact cooling system
- > Two-stage PowerCore air filter



// TRANSMISSION AND PTO

Compact format meets great precision.

The right transmission for any operating profile and the right speed for any work – you can meet any challenge with the transmission of the Series 4E. Highly efficient with maximum precision - the choice is yours.

A 15+15 shuttle transmission with creeper gear for speeds of 298 m/h to 40 km/h or 40 km/h ECO (achieving full road speed at just 1800 rpm) are available for the 4-wheel drive versions. In addition, these models can also be equipped with a hydraulic PowerShuttle, which feature the SenseClutch (for adjusting the shuttle speed), ComfortClutch (for gear shift without using the clutch pedal) and Stop&Go (for stopping and restarting the tractor by using the brake pedals only)

function. The latter is ideal for the work with the round baler or the front loader. Additional comfort is offered by the optional two-stage Powershift unit, which is doubling the gears to 30+30.

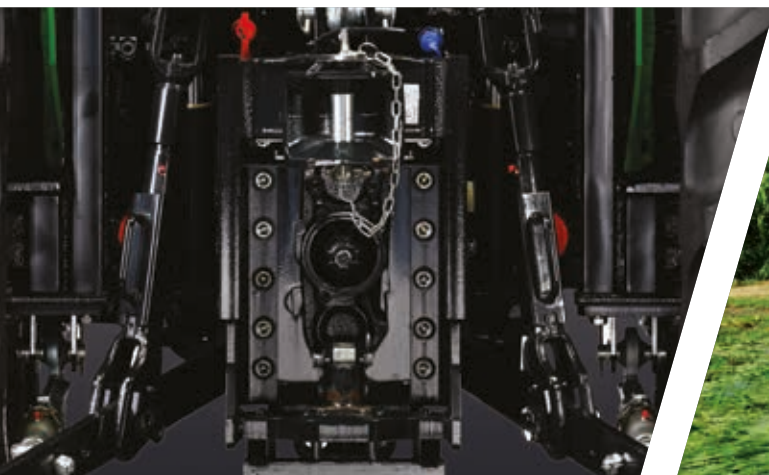
Besides that, a variety of options for the PTO equipment is also offered. There are four configurations to choose from: 540 or 540/540ECO or 540/540ECO/1000 or 540/540ECO plus ground-speed PTO. While on the full mechanical transmissions the PTO is activated mechanically, the version with PowerShuttle offers an electro-hydraulic engagement, which ensures additional comfort and simple operation.



> 4-wheel brakes for highest safety.



> Electro-Hydraulic PTO speed engagement on Models with PowerShuttle.



> Up to 3 PTO speeds.



HIGHLIGHTS

- > PowerShuttle transmission with SenseClutch, ComfortClutch and Stop&Go
- > Up to 30+30 gears with two-stage Hi-Lo Powershift
- > 40 km/h or 40 km/h ECO
- > Up to 3 PTO speeds, electro-hydraulically actuated



// HYDRAULIC SYSTEM AND LIFT

Compact format meets great versatility.

Farmyard and barn work, loader and transport applications, field work and much more – the tasks of a utility tractor are extremely varied. When it comes to the attachment points of the new Series 4E, nothing is impossible. As always with DEUTZ-FAHR, the mechanical rear power lift is extremely accurate and offers sensitive control. Thanks to the EasyLift system it is possible to increase the operating comfort significantly, for example in headlands in the field. With a simple push of a button the rear lift can be lifted or lowered. The category II three-point linkage is available with ball ends or automatic hooks on the upper and lower link arms and mechanical stabilisers. It can lift up to 3500 kg. This means that powerful attachments can also be used. For the hydraulic equipment, there is a choice between 48 l/min or 56 l/min open centre pumps for one to three spool valve control units in the rear. The steering is operated by an independent pump in both versions. This means that the full hydraulic power is always available for the attachments.

HIGHLIGHTS

- > 3500 kg lifting capacity with EasyLift system
- > 48 l/min or 56 l/min hydraulic flow
- > Up to 6 rear outlets with flow regulator



> EasyLift function for comfortable work.



> Up to 3 distributors with flow regulator and free return.



> Practical layout of spool valves control and EasyLift system.

// DRIVING POSITION

Compact format meets great comfort.

DEUTZ-FAHR always puts the focus on the driver, prioritising safety and comfort. The steering wheel and comfort seat are individually adjustable. There is plenty of space to allow the driver to move freely, in particular in the footwell. Steps and handholds on both sides of the tractor make it extremely easy to climb in and through. The controls have been rearranged, organised logically according to how often they are used and clearly identified with colour coding. To highlight is the new layout of hydraulic levers, that are in a super ergonomic and comfortable position. The central information display on the dashboard provides the driver with clear information about the tractor's operating conditions, in digital and analogue form. The new Series 4E naturally offers an unobstructed view over all work areas. The driver can see everything, this not only makes the work more efficient, but also improves safety. The new foot mat made from insulating material enhances comfort, and minimises the amount of noise, vibration and heat to the driver. During night work up to 5 work lights brighten up the area around the tractor. Also available directly from the factory are 2 different front loader predisposition (Light or Ready Kit) which are perfectly integrated in the tractor layout. So is the PowerShuttle lever, which is linked to the steering wheel adjustment, allowing always a short distance to reach.

HIGHLIGHTS

- > Low-foor driver's platform
- > Ergonomic controls layout
- > FOPS-compliance sunroof availability



> Adjustable steering column and PowerShuttle.



> Sun roof canopy (available also with FOPS).

TECHNICAL DATA	SERIES 4E			
	4070E	4080E	4090E	4100E
ENGINE				
Model		FARMotion 35		
Emission level		Stage V		
Cylinders/Displacement	n°/cc	3/2887		
Visco cooling fan		●		
Bore/Stroke	mm	103/115.5		
Aspiration		Turbo Intercooler		
Injection @ pressure	Type/bar	Common Rail @ 2000 bar		
Max. power	kW/HP	48.9/66	55.8/76	67/91
Rated power	kW/HP	48/65	55.2/75	63.5/86
Max. torque	Nm	297	341	372
Torque rise	%	16	28	35
Fuel tank capacity	l	75		
AdBlue capacity	l	-		
EAT	System	DOC+DPF		DOC+DPF+SCR
TRANSMISSION				
Model		T3300		
2 WD version				
Gearbox	n°	4 gears x 3 ranges		-
Shuttle	Type	Reverse gear		-
N° of speed	n°	12+3 (max speed 30 Km/h)		-
4 WD version				
Gearbox	n°	5 gears x 3 ranges		
Shuttle	Type	Mechanical		
N° of speed	n°	15+15 (max. speed 40 Km/h)		
N° of speed (OPT)	n°	15+15 (max. speed 40 km/h at economy engine speed)		
Hydraulic PowerShuttle with SenseClutch, ComfortClutch and Stop&Go	Type	○		
N° of speed with PowerShuttle	n°	15+15 (max. speed 40 km/h at economy engine speed)		
N° of speed with PowerShuttle (OPT)	n°	30+30 (with two-stage Hi-Lo Powershift, max. speed 40 km/h at economy engine speed)		
HYDRAULICS AND LINKAGE				
Pump flow (STD)	l/min	48		
Pump flow (OPT)	l/min	56		
Rear spool valves	n°	1/2/3		
Mechanical rear lift		●		
Mechanical rear lift with EasyLift		○		
Rear linkage lifting capacity (STD)	kg	2500		
Rear linkage lifting capacity (OPT)	kg	3500		
PTO				
Mechanical PTO engagement		●		
Electrohydraulic PTO engagement		● (in combination with PowerShuttle)		
540		○		
540/540ECO		●		
540/540ECO/1000		○		
540/540ECO + Groundspeed PTO		○		
AXLES AND BRAKES				
Electrohydraulic 4WD engagement		●		
Steering angle	degrees	55		
4 wheel braking (4WD models only)		●		
Mechanical Parking Brake		●		
Hydraulic trailer brake		○		
Electrohydraulic Diff. Lock engagement		●		
PLATFORM				
Mechanical suspended seat		●		
Working lights		○		
Telescopic steering column		○		
Lateral controls layout		●		
Sun roof		○		
FOPS protection		○		
FRONT LOADER				
Pre-arrangement Light Kit		○		
Pre-arrangement Ready Kit with mechanical joystick		○		
Front loader model		Solid 35-18P		
Overloading height	mm	3250		
Breakout force 900 mm before the pivot point	daN	2310		

● = standard ○ = option - = not available




TECHNICAL DATA		SERIES 4E			
		4070E	4080E	4090E	4100E
DIMENSIONS AND WEIGHTS					
With rear tyre	Size	16.9 R30"			
Wheelbase (4WD) (A)	mm	2100			
Wheelbase (2WD)	mm	2166			-
Centre rear axle – safety frame	mm	1798			
Height (C)	mm	2498			
Max. width (D)	mm	1839			
Max. length (B)	mm	3860			
Weight (4WD)	kg	2950			3050
Weight (2WD)	kg	2750			-
Total admissible load (4WD)	kg	5200			
Total admissible load (2WD)	kg	4000			-

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.



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