SAME DEUTZ-FAHR



EXPLORER^3

85 | 100 | 110

SAME

Rely on us


SAME



Explorer³ three tractors in one

The Explorer³ represents the evolution of a project that has its roots in the long experience acquired by SAME as a maker of mid-horsepower tractors, and is now reflected in a range of machines achieving the epitome of balance between technological content, functionality and comfort.

The idea: to create an ideal match between the latest generation electronic devices (deployed where perfection is obtainable only with the precision of digital instruments); conventional mechanical and hydraulic systems (reliability guaranteed by simplicity of operation, user-friendly maintenance and long service life) and care for the well being of the operator (ergonomically engineered controls combined with attractive design).

The outcome: a brilliant mix of performance, productivity and comfort that enhances the features of the range, making the Explorer³ a tractor worth its weight three times over.

Multifunctional and versatile

The potential of a tractor is dictated not merely by how much is built into it or by the quality of its components; equally important is its capacity to adapt to different working conditions.
The wide selection of models, the different engineering features and the numerous equipment levels of the Explorer^3 range have been delineated precisely to meet the different needs of the market and provide an ideal configuration for every kind of activity.
The new Explorer^3 range is offered with 2 or 4 wheel drive, platform or cab, and a variety of equipment packages.
Adopting this approach, SAME gives you the freedom to choose the features you prefer, and exploit the advantages to the full.
Ideal for all aspects of arable cultivation - ploughing and secondary tillage alike - as well as haymaking and single-pass work with implements mounted front and rear, Explorer^3 models are no less effective as general utility tractors, given their attributes of manoeuvrability, easy handling, and a top road speed of 40 km/h.



EXPLORER^3

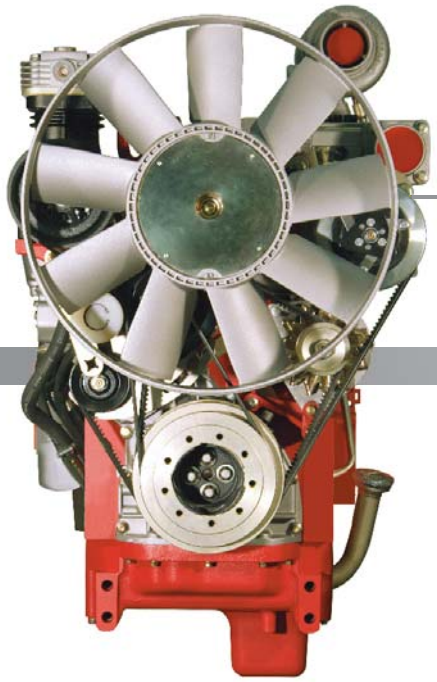

CONTRACT AC85
CONTINENTAL
CONTRACT AC85
CONTINENTAL


SAME









Explorer³ models are equipped with 4 cylinder Deutz 2012 TIER III Series engines, developed especially for agricultural use and offering consistently high levels of efficiency combined with low specific fuel consumption.

Thanks to their generous 4038 cc displacement, innovative high pressure injection system and turbocharger (all models), these are engines guaranteed to deliver significantly high power and torque over a wide range of crankshaft speeds.

In effect, maximum torque is developed by any Explorer³ model at just 1200 rpm and maintained steady up to 1800 rpm, providing constant efficiency across a band of no less than 600 rpm.

In practice, as long as the crankshaft speed remains above 1200 rpm there is no need to select a lower gear ratio; this means that the Explorer³ can continue operating steadily, and with the same high flexibility, which in turn means lower fuel consumption, less engine noise and fewer vibrations.

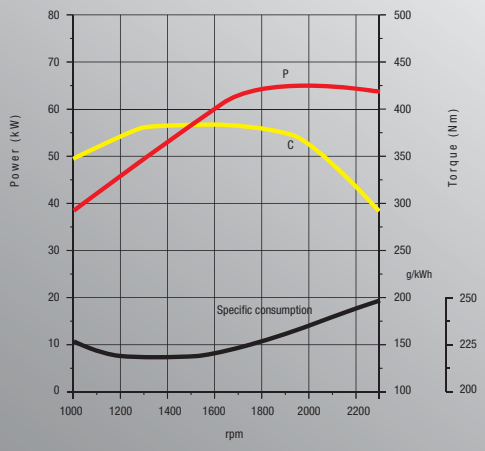
Another important feature of DEUTZ engines is their high torque rise: this ensures exceptional lugging power and allows the machine to overcome even the most difficult operating conditions with ease.

The engine is cooled by a highly efficient system incorporating a “dual flow” radiator, in other words with two distinct passages through which the coolant is circulated: besides guaranteeing a swift and efficient dissipation of heat, even at high ambient temperatures, this system ensures that engine performance stays constant even after extended periods of operation, not least as a specific diesel fuel cooler is installed.

Finally, with a fuel tank of generous 160 litre capacity, the machine can keep going for long hours or distances with very few refuelling stops.

EXPLORER³ 100

Torque, power and specific consumption curves



Thanks to a number of unique design features, the use of first-rate materials in construction, and a special conversion kit, the engines of Explorer³ machines are able to ensure unqualified functional efficiency and total compatibility with biodiesel fuel, allowing blend ratios of up to 100%.
In practice, biodiesel typically has a higher viscosity than other engine fuels and is chemically more aggressive, but when equipped with a special fuel injection system utilizing wet pumps - one to each single injector - and a fuel feed circuit with components manufactured from special materials, Deutz engines are able to run on these new fuels without difficulty.





Record-setting ENGINES

100% reliable, 100% ecological, 100% biodiesel





"Dual flow" aluminium radiator with fly screen, removable for quick cleaning.

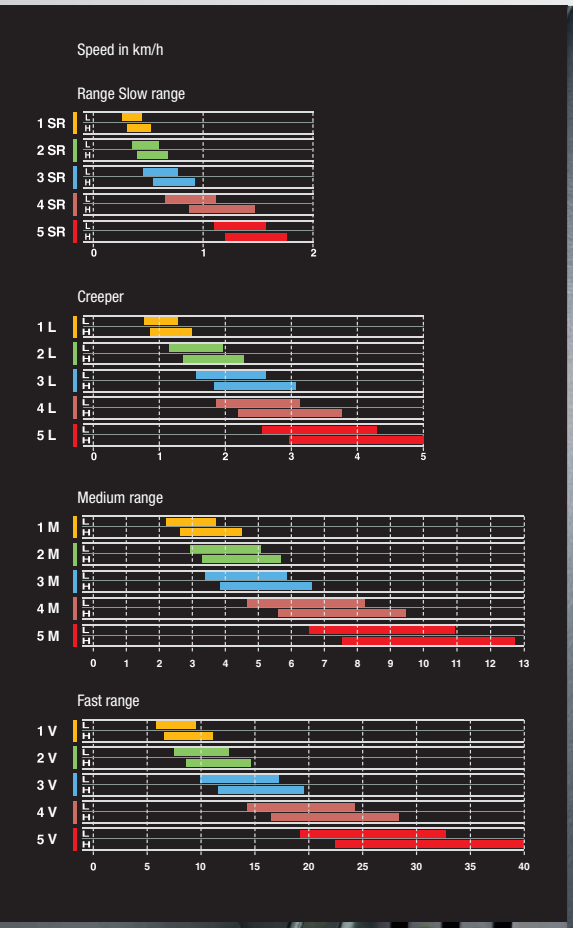
All-purpose TRANSMISSION with fast-acting, precision clutches

With the performance of Deutz engines, and the trademark versatility and reliability of the transmission (forced lubrication with dedicated oil cooler), the Explorer^3 range is a genuine all round range able to take on a wide variety of agricultural tasks: soil preparation and harvesting, transplanting and haymaking, general yard and transport duties… an Explorer^3 will adapt without fuss to all kinds of applications involved in the smooth running of a modern farming business.
Two configurations are possible for the transmission: the practical mechanical shift with 5 speed box and four ranges (plus creeper), offering 20 forward ratios and 20 reverse. Or, the exclusive HI-LO shift gearbox, which doubles the number of nominal compound ratios, at the simple touch of a button: there are two buttons mounted on the shift lever, which you can use to change swiftly and intuitively from any normal speed to a slower and back, under power without using the clutch pedal, so that the 20 nominal speeds are doubled to 40 (in both forward and reverse drive).

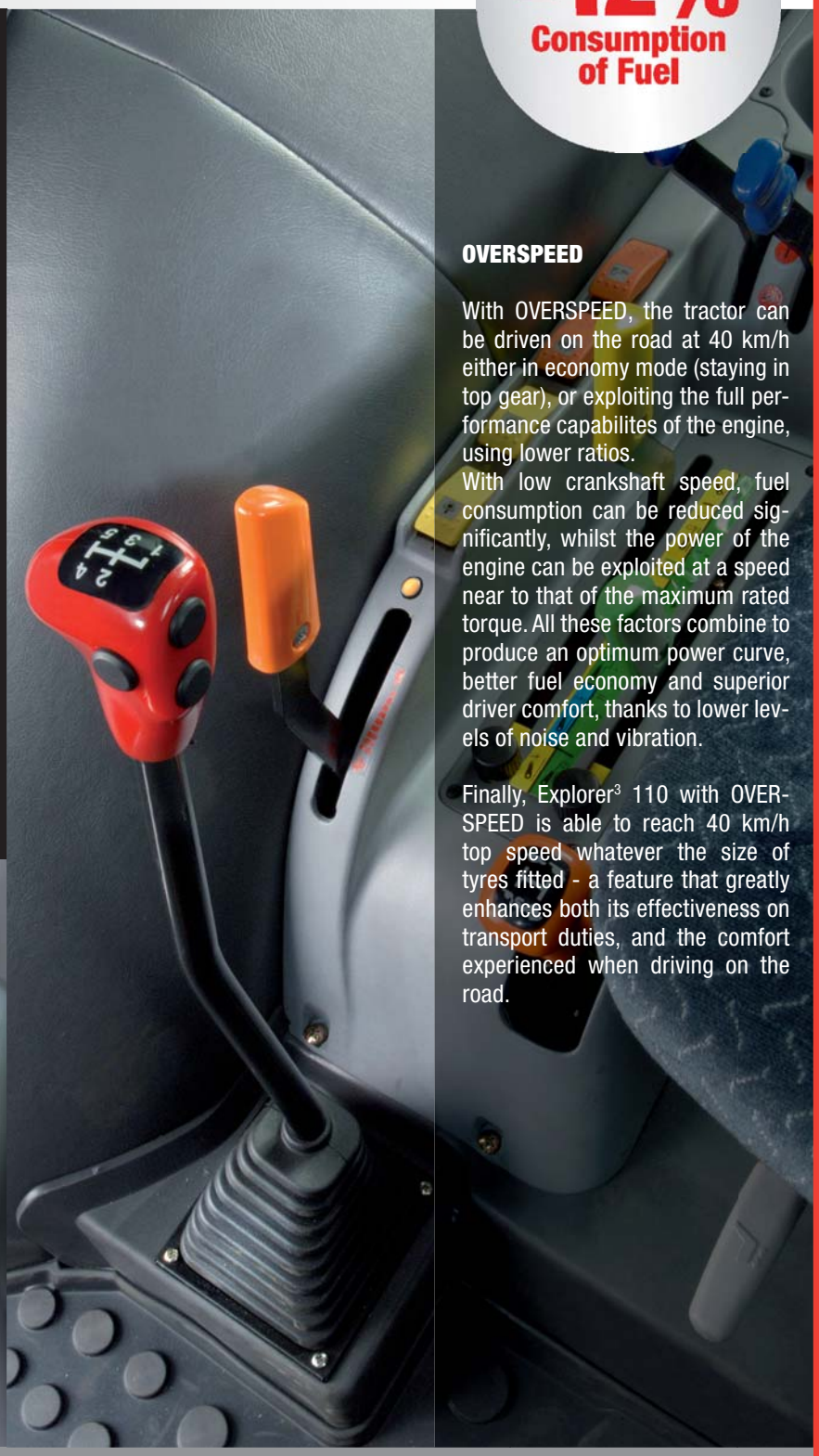
For ultimate comfort, pressing an electronic clutch button on the 5-speed shift lever allows you to change gear smoothly and effortlessly, without depressing the clutch pedal.

Finally, for maximum convenience when shifting between jobs and driving on the highway, Explorer^3 machines have a top speed of 40 km/h: a real help in the constant effort to save time and reduce fuel consumption. Naturally enough, performance of this kind is complemented by a true 4-wheel braking system with oil-immersed disc assemblies operating on all four wheels.









OVERSPEED
-12%
Consumption of Fuel

OVERSPEED

With OVERSPEED, the tractor can be driven on the road at 40 km/h either in economy mode (staying in top gear), or exploiting the full performance capabilites of the engine, using lower ratios.
With low crankshaft speed, fuel consumption can be reduced significantly, whilst the power of the engine can be exploited at a speed near to that of the maximum rated torque. All these factors combine to produce an optimum power curve, better fuel economy and superior driver comfort, thanks to lower levels of noise and vibration.

Finally, Explorer[3] 110 with OVERSPEED is able to reach 40 km/h top speed whatever the size of tyres fitted - a feature that greatly enhances both its effectiveness on transport duties, and the comfort experienced when driving on the road.

Convenient and functional HYDRAULIC SHUTTLE



HYDRAULIC SHUTTLE

Enhancing the Explorer^3 transmission system still further is the option of a hydraulic shuttle allowing the drive direction to be reversed under power swiftly, at speeds up to 12,5 km/h: an invaluable aid, for example, when making headland turns and return passes.
The shuttle lever is located beneath the steering wheel. Ergonomically designed and easy to operate, it has a “neutral” position and guarantees total safety in operation, functioning only when enabled by a sensor in the driver seat activated by the body weight of the occupant.

The electrohydraulic shuttle lever incorporates a thumbwheel control (potentiometer) with which the operator can select a sharper or softer response from the shuttle, according to the needs of the moment.

Sense Clutch

PARK BRAKE

The Explorer^3 110 transmission incorporates a parking brake - the Park-Brake - designed to immobilize the tractor safely and efficiently.

The system is equipped with a device by which the brakes are locked under a high mechanical load, and a hydraulic system by which they are released automatically when starting the tractor.



Multi-capable, versatile P.T.O.



The versatility of Explorer^3 models is magnified still further when considering the quality built into the power take-off, which is engaged electro-hydraulically by an oil-immersed multidisc clutch with pushbutton controls located both in the cab and on each fender, and delivers the full power of the engine with maximum reliability.

Thanks to the range of P.T.O. shaft speeds provided (540/540ECON/1000/1000ECON), Explorer^3 machines are able to take on a multitude of tasks, both around the yard and in the fields: soil preparation, haymaking, irrigation, spraying, and much more.

The inclusion of an economy P.T.O. speed is especially advantageous. Delivering just as much power as is needed, and no more, the engine can run at a significantly lower crankshaft speed, saving fuel and producing fewer emissions.

In addition, the Explorer^3 is specified with independent synchronised P.T.O. on a separate shaft, which broadens and enhances the transport capability of the tractor, typically when towing drive axle trailers used in harvesting or spreading operations.



The concept of multi-capability in the Explorer^3 range extends similarly to operations for which the hydraulic lift and spool valves are used: the main hydraulic system, served by an independent pump rated 54 l/min, guarantees high performance and unfailingly efficient operation of implements actuated by fluid power.

Three double-acting (6-way) auxiliary spool valves widen the potential usefulness of Explorer^3 machines still further, optimising flow control and operational efficiency in the field.

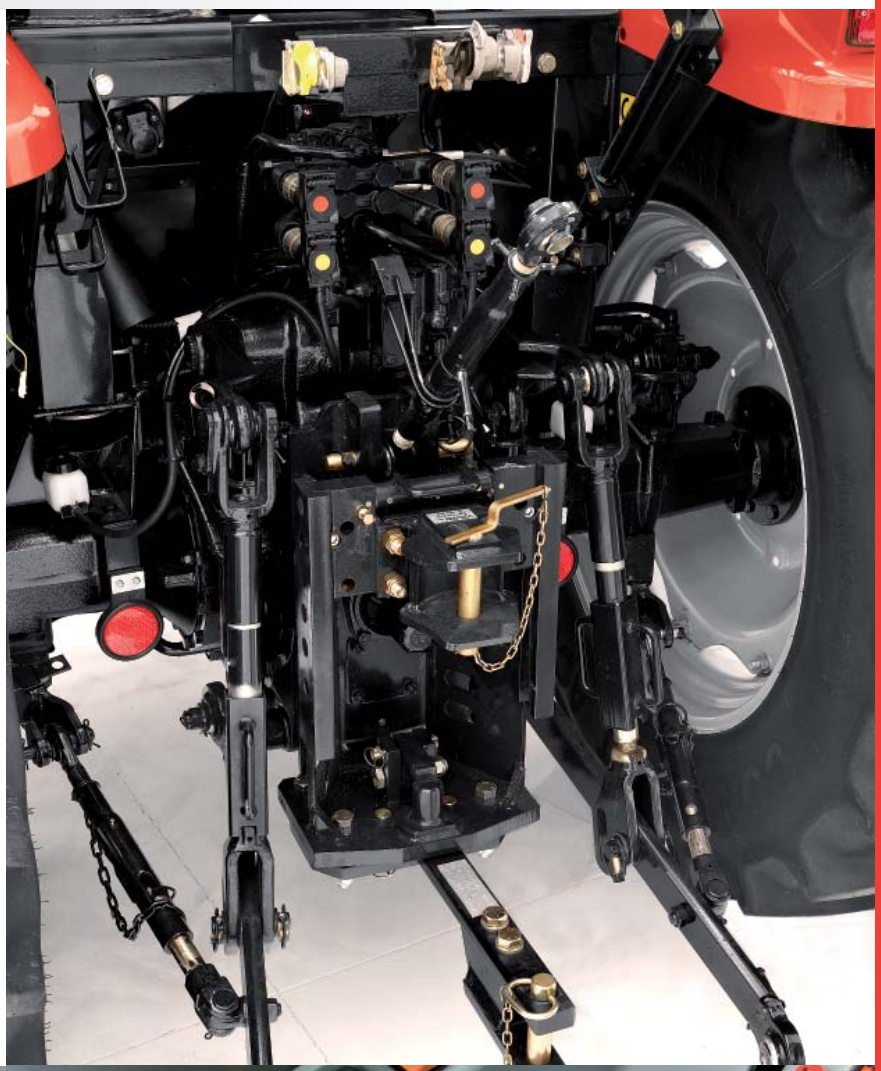
With position, draft and mix control selected from the driving seat, mounted implements can be operated with ease and precision.

Hydraulics and LIFT SYSTEM efficiency in all applications

The sturdy construction of the Explorer^3 and the strength of the three-point linkage combine to give a lifting capacity as high as 5300 kg (with assistor cylinders fitted), ensuring there will be no difficulty operating even the heaviest Cat II implements.

Also helping to maximize the durability and reliability of the main hydraulic system, moreover, is the fact that the hydrostatic power steering utilizes an independent pump, ensuring a light and fluid steering action and complete functionality even at low engine speeds.

Rounding off an already generous equipment package, for users needing to operate front mounted implements, are a front lift with double acting hydraulic circuit, and a front P.T.O. turning at 1000 rpm. Besides allowing the use of implements front and rear, this front linkage also provides a quick and easy method of attaching a front ballast weight.





Design and COMFORT

When driving an Explorer^3 you can experience a feeling not only of rational and ergonomic ease, but also of security and satisfaction too.

With excellent weight distribution, an optimum balance between low centre of gravity and high ground clearance, plus high visibility in all directions, the sensation of safety and stability is palpable. And there's more. A good look at the lines of the hood, the profile of the light clusters or the features of the driving position will reveal an attention to detail and an insistence on style that go well beyond any notion of pure functional efficiency. In effect, the aim was not only to demonstrate the quality of the Explorer^3 in terms of substance, but also to give an aesthetically inspired visual foretaste of its excellence.

Be it a platform or a cab version, every Explorer^3 model is designed to ensure that work will be a comfortable and pleasant experience for the operator.

All monitoring and control devices of the Explorer^3 are easily located by virtue of distinctive shapes and colours, and positioned logically and ergonomically on a console to the right of the driving seat. The more frequently used controls are also grouped together in such way that they can be identified at a glance and operated more swiftly.
The digital instrument panel has an array of indicators and warning lights giving the driver total visual control over the operation of the tractor, with illuminated displays that are easy to see in any ambient light.

Values indicating ground speed, P.T.O. revolutions, lapsed time and distance covered are displayed in real time, providing the operator with an immediate picture of work rate and progress.







The upholstered seat with air suspension and safety belt adapts perfectly to your own weight and height.

In Explorer^3 platform versions, the entire platform structure is suspended on silent-blocks, which with pendant type pedals, adjustable steering wheel and hydrostatic clutch and brake circuits, a fully equipped and ergonomically correct workplace is created. A canopy can be clipped to the rollover protection (ROPS), shielding you from direct sunlight.
Cab versions offer additional comfort, thanks to an enclosure with a high level of sound insulation and effective climate control. Indeed the powerful air-conditioning system ensures that a comfortable working climate and constant temperature are maintained inside the cab, which is fitted with a generous number of interior air vents, adjustable for direction and flow.
The cab equipment is rounded off by athermal window glass and a windscreen sunblind, and where extensive use of a front loader is envisaged, there is also the option of a “high visibility” roof: this will ensure a clear view when operating a front-mounted bale grab or bucket.

Performance + reliability + comfort = Explorer^3
The right formula, whatever your needs.



TECHNICAL DATA

	Version	EXPLORER³ 85		EXPLORER³ 100		EXPLORER³ 110
ENGINE		Deutz 2012 TIER III		Deutz 2012 TIER III		Deutz 2012 TIER III
Cylinders/Displacement	no./cm³	4/4038		4/4038		4/4038
Aspiration		Turbo		Turbo Intercooler		Turbo Intercooler
Homologated power at nominal engine speed (2000/25/CE)	HP/kW	85/62,5		99/73		109/80
Nominal engine speed	rpm	2300		2300		2100
Max engine speed	rpm	2300		2300		2300
Max. torque	Nm	320		380		400
Max. torque engine speed	rpm	1400/1600		1400/1700		1400/1800
Torque backup	%	32		35		35
Cooling		liquid-oil				
Engine control		electronic				
Air cleaner		dry with safety cartridge and dust ejector				
Silencer underhood		with exhaust on cab upright				
Fuel tank capacity	litres	160				
DIMENSIONS AND WEIGHTS: (with rear tyres)		16.9 R 30		16.9 R 34		18.4 R 34
Max. length without link arms	mm	3850		3950		3990
Width min.- max.	mm	2050-2458		2050-2458		2050-2458
Max. height at safety frame	mm	2710		2790		2790
Max height at cab	mm	2545*		2580*		2580*
Ground clearance	mm	450		500		500
Wheelbase	mm	2290	2310	2320	2340	2340
Front track min.- max.	mm	1600-2100		1600-2100		1600-2100
Rear track min.- max	mm	1600-2100		1600-2100		1600-2100
Minimum steering radius without braking	mm	3050**	3500**	3050**	3500**	3500**
Weight with cab	kg	3240	3700	3400	4050	4100
Weight with safety frame	kg	3200	3440	3250	3650	-

* = WITH STANDARD ROOF (WITHOUT AIR CONDITIONING
** = WITH MAXIMUM STEERING ANGLE

TRANSMISSION		
Gearbox clutch		hydrostatically operated
Mechanical gearbox, 5 synchronised gears, x 3 gear ranges (min. speed: 1.73 km/h)		15 FWD + 15 REV
Mechanical gearbox, 5 synchronised gears, x 4 gear ranges + creeper (min. speed: 0.51 km/h)		20 FWD + 20 REV
HI-LO gearbox (2 rchange underdrive) 5 synchronised gears x 4 ranges (with creeper) (min. speed: 0.44 km/h)		40 FWD + 40 REV also with Overspeed (110 GS)
Max. speed	km/h	40
Shuttle		mechanical, synchronised
		hydraulic power shuttle
Rear differential lock		electro-hydraulically operated
Lubrication		forced
BRAKES AND STEERING		
Braking system		all wheel braking, with oil-immersed discs on all 4 wheels, hydrostatically operated
Parking brake		independent or electro-hydraulically (110 GS)
Trailer braking		hydraulic braking valve
		pneumatic braking system
Hydrostatic steering		independent pump
Steering angle	2WD/4WD	65°/55°
FRONT AXLE		
Drive engagement		mechanically operated
		electro-hydraulically operated
Front differential lock		electro-hydraulically operated
Front ballast		eight 40 kg case type weights
		quick-fit 400 kg ballast

FRONT P.T.O.		
Clutch		multiple discs in oil-immersed
Speed	rpm	1000
Operation		electro-hydraulically operated, push-button control
REAR P.T.O.		
Clutch		multiple discs in oil-immersed
Speed	rpm	540-1000
		540-540 ECO-1000-1000 ECO
		synchronised P.T.O. with independent output shaft
Operation		electro-hydraulically operated, push-button control
HYDRAULIC LIFT		
Rear power lift		mechanical
Maximum lifting capacity	kg	4300 (Explorer³ 85)
		5100 (Explorer³ 100)
		5300 (Explorer³ 110)
Pump delivery	l/min.	56
Auxiliary hydraulic control valves	N° ways	4/6
3 point linkage with		fixed hitching balls
(link arms and top link)		automatic hitching
RH link arm and top link		mechanical adjustment
Front lift		double acting cylinders
		original built in
		maximum lifting capacity 1800 kg
DRIVING POSITION		
Platform		suspended on silent-block
		safety frame with two uprights with roof hatch sunblind
Cab		original, 4 pillars, sound-proofed and pressurised, Cab opening windscreen, rear windscreen wiper, air filter, 4 work lights
		as above with "high visibility" roof
Cab conditioning		air conditioning, ventilation, dust filter
		heating, forced recirculation
Instruments		analog - digital display
Driver's seat		mechanical adjustment, safety belt
		pneumatic suspension, safety belt

GEARBOX 40 FWD + 40 REV WITH HI-LO - SPEED IN KM/H AT ENGINE SPEED OF 2300 RPM WITH 16.9 R 34 REAR TYRES

1 SR L	1 SR	2 SR L	2 SR	3 SR L	3 SR	4 SR L	1 L L	4 SR	5 SR L	1 L	5 SR	2 L L	2 L	3 L L	3 L	4 L L	4 L	1 N L	5 L L	1 N	5 L	2 N L	2 N	3 N L	3 N	4 N L	1 V L	4 N	5 N L	1 V	5 N	2 V L	2 V	3 V L	3 V	4 V L	4 V	5 V L	5 V
0,44	0,51	0,59	0,68	0,78	0,91	1,11	1,29	1,48	1,50	1,73	1,75	1,99	2,32	2,65	3,09	3,20	3,73	3,77	4,30	4,40	5,02	5,09	5,72	5,93	6,67	8,15	9,50	9,52	10,99	11,10	12,80	12,82	14,94	17,03	19,87	24,26	28,30	32,71	38,16	40,00***

The above specifications refer to tractors with all available equipment. For standard equipment and options, refer to the current price list and ask your local dealer for details.

***= MAX. SPEED EVEN AT ECONOMY ENGINE SPEED (GS 110)
PLEASE NOTE: REVERSE SPEEDS ARE SLIGHTLY HIGHER THAN THE CORRESPONDING FORWARD SPEEDS.

DEALER CONTACT

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We recommend the use of SDF Lubricants and Coolant

Company with Quality System Certified in compliance with ISO 9001:2000

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