

Agroplus 60 70 80



75 YEARS OF
DEUTZ-FAHR
TRACTORS



DRIVEN BY INTELLIGENCE.

The AGROPLUS concept: C



Of course farm managers and service providers want to earn money, as earning money also means work enjoyment.

As today's farm managers you are more than just good agriculturists - you are purchasers of machines, seeds, fertilisers and pesticides, as well as business, personnel and logi-

stics administrators. You have to make far-reaching decisions that directly affect the operating results of your agricultural businesses.

Decision-making is often a long process of data and information collection and consultation. Ultimately decisions are, however, always made for sound reasons, as all aspects

that safeguard the success of your business, must be taken into account. It is therefore advantageous if a decision can be made for a strong brand with a sound tractor concept that concentrates on one thing - the success of you its customers - by providing technology that, if anything exceeds your requirements.

onsistently rational.



Advantages

- ▶ *Compact, manoeuvrable all-round tractor for small/medium-sized farms*
- ▶ *Optimum weight distribution, favourable unladen weight yet capable of a high payload*
- ▶ *Air-cooled, powerful, economical and reliable 3- and 4-cylinder DEUTZ 913 series engines from 44 to 56.5 kW (60 to 77 hp)*
- ▶ *Easy-to-use SYNCHROSPLIT transmission with 20/10 or 30/15 speeds; a 3-stage POWERSHIFT transmission with 45/45 speeds is available on request*
- ▶ *Two cab variants*
- ▶ *Low cab with max. height of only 2.25 m (on 14.9 R28 tyres)*
- ▶ *Powerful hydraulic system with parallel operation, flow rate control and maximum lift capacity of 3,600 kg*
- ▶ *3-speed PTO (540/540E/1,000) with the option of synchronised ground-speed PTO*
- ▶ *Long life, oil-immersed, genuine four-wheel braking system*

The Agropius is an example of such technology, drawing upon the rich experience of 75 years of technological leadership in the agricultural machinery industry.

This is an all-purpose tractor equipped to suit diverse requirements. With economical, reliable DEUTZ engines: a wide range of cab fea-

tures including a low-roof version for restricted building entrances and a transmission range geared to all practical needs. A tractor series combining all the plus points of the compact class with the comfort of larger machines.



Keep sight of every situation



Cabs for all eventualities.

The Agropius proves that even compact tractors can be comfortable. You will probably spend many hours operating it, so our deluxe flat floor cab offers lots of space for you and your co-driver. Even getting in and out is easy through the wide opening doors.

The package is enhanced further with

powerful heating and ventilation, good all-round visibility of all implements and hitching points, wide opening rear window and a generously-sized roof hatch.

As on larger tractors this deluxe cab can also be equipped with full air-conditioning.

A tilting glass roof hatch is available,

this gives a perfect view of a raised front loader.

Low height.

The Agropius is available with a low profile cab for use in low buildings.

When this cab is combined with 14.9 R28 tyres, (Agropius 60), the tractor's height is only 2.25 m and

on.



Advantages

- *High level of cab comfort*
- *Fatigue-free working environment*
- *Reduced driver stress*
- *Flexible choice of equipment*
- *Low height*



that's even with a flat cab floor. However, if a cab is not needed, the Agroplus can be supplied with a stylish 2 post Rops.

A workplace that makes doing the job a pleasure.

Adjust the rake and reach of the steering wheel to suit your individual needs. The standard seat is both comfortable and fully adjusta-

ble, but for even greater comfort, why not opt for the air-suspension seat. All the main controls are ergonomically arranged on your right in easy-to-reach operational groups.



An engine you can rely on



Proven, frugal engines.

The modern, air-cooled 913 series DEUTZ diesel engines in the Agropius tractors are reliable, economical and long-lasting. Thanks to air cooling, these compact engines quickly reach their operating temperature, whilst having fewer components means they require less intensive maintenance.

With their direct injection, four-hole injection nozzles, specially designed spiral intake ducts and combustion chambers, the engines are characterised by low fuel consumption and high fuel efficiency.

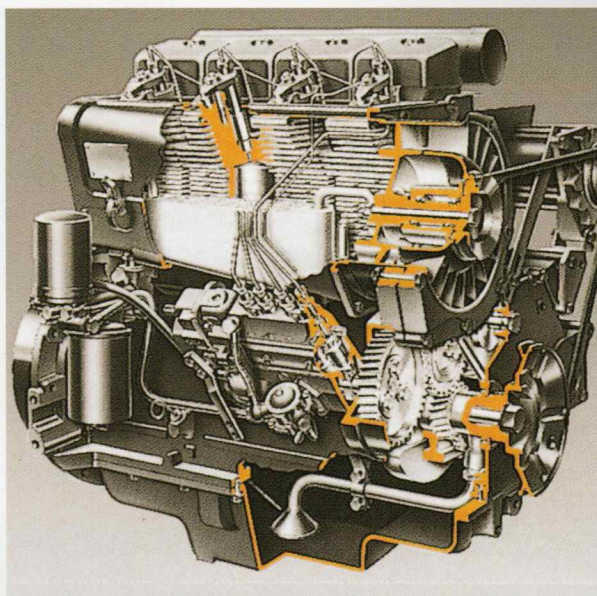
Thanks to a 90 l fuel tank they are also fully equipped for long working days at full-load and maxi-

mum engine power.

On cab tractors, the exhaust is routed vertically along the left A-strut so it does not obstruct the driver's line of vision.

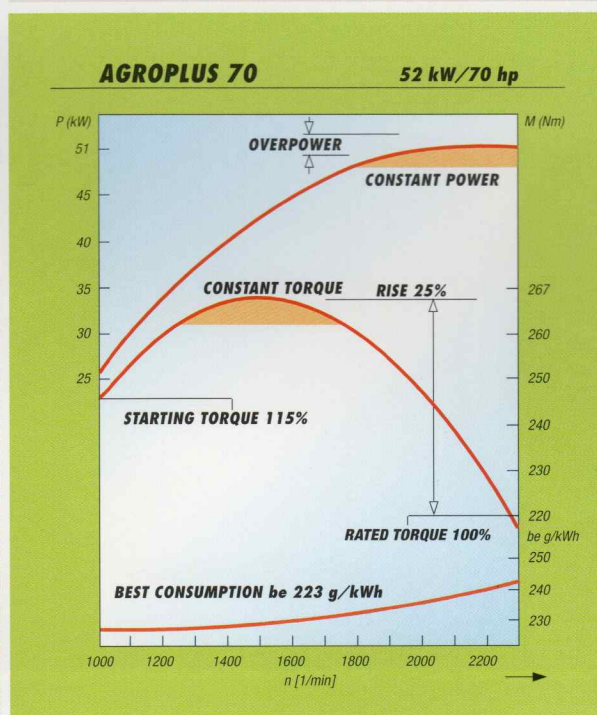
High torque.

DEUTZ engines are not only extremely powerful, they are also very



Advantages

- ▶ **Air-cooled, powerful, economical and reliable 3- and 4-cylinder DEUTZ 913 series engines from 44 to 56.5 kW (60 to 77 hp)**
- ▶ **Very quick warm-up, substantially reducing acid formation**
- ▶ **Low operating costs**
- ▶ **Low maintenance costs**



flexible; 70 % of the rated engine power is available at maximum torque which is achieved at only 1,600 rpm. As a result, there is always sufficient engine power to cope with varying operating conditions at the same time as saving on fuel consumption.

The torque rise is up to 25 %. This

permits high work rate and productivity because fewer gearshifts are required, increasing efficiency and getting the job done at lower cost.



Shifting gear needn't be a



The right transmission for every application with Agroplus.

Extremely slow speeds, rapid cultivation or fast transport driving – the 2-stage SYNCHROSPLIT transmission or the 3-stage POWERSHIFT transmission are optimally suited to every application.

Available in either 30 or 40 km/h versions, the transmissions feature close-

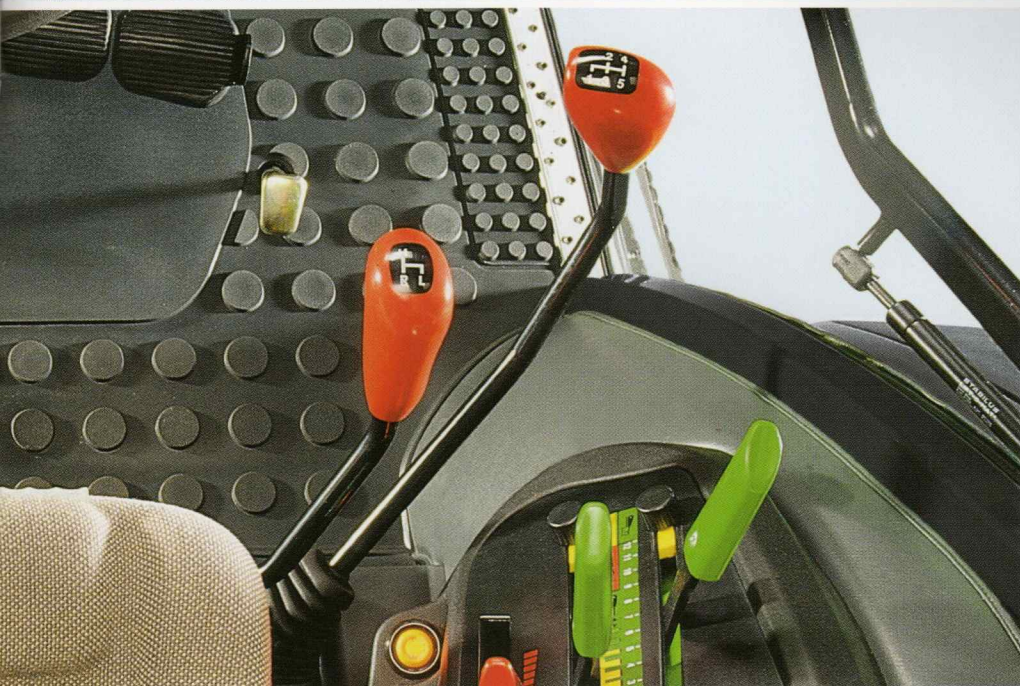
ly-spaced ratios from 0.2 to 40 km/h making them extremely versatile.

Working through a hydraulic, self-adjusting clutch, the basic model is with SYNCHROSPLIT transmission, offering 20 forward and 10 reverse speeds. It's a very practical unit offering easy and effortless gearshifts. There are a total of eight speeds in the main working range.

The synchronised shuttle uses a separate selector lever ergonomically located next to the driver. Additionally this SYNCHROSPLIT shuttle transmission is available with a creep speed group, giving 30 forward and 15 reverse speeds.

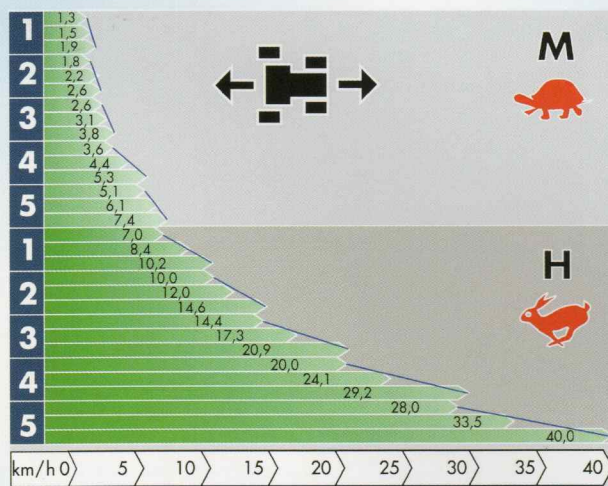
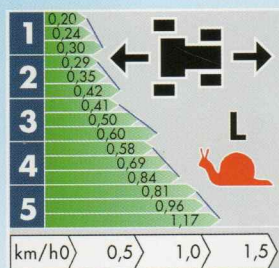
For those special applications, you can easily select from 10 speeds, the appropriate creep speed from

burden.



Advantages

- ▶ **Finely spaced, practical speed graduation**
- ▶ **Rapid shuttle action**
- ▶ **Very slow creeper speeds for those specialist applications**
- ▶ **High level of gearshift comfort, reduces operator fatigue**
- ▶ **Fast reversing and loading times for front loader work**
- ▶ **Power-matching speeds for optimum output**



0.25 to 1.17 km/h.

Shifting at the push of a button.

An outstanding feature for this class of tractor is the synchronised full shuttle transmission with 3-stage POWERSHIFT giving 45 forward and 45 reverse speeds.

The 3 clutchless POWERSHIFT stages are pushbutton controlled from the

5speed synchro selector lever allowing smooth, electro-hydraulic speed shifts on-the-move under load. You can therefore respond quickly to changes in operating conditions.

In the main working range alone this transmission lets you select twelve different ratios in the important 4 to 15 km/h zone. These finely-spaced ratios guarantee that the engine can

always operate in its most economical speed range. As a result, both fuel consumption and noise emissions are reduced.



Optimum traction in every



The Agropius has just the sort of running gear you'd expect from an all-round performer. The underside of the tractor is almost flat, giving a ground clearance of up to 425 mm, depending on the tyres. As a result, Agropius 60 to 80 tractors, with two or four-wheel drive whichever is preferred, are built to cope with all jobs. You can choose an exceptionally manoeuvrable 2-wheel drive model, with a fully telescopic front

axle, or a four-wheel drive with a full-power, driven front axle.

High ground clearance.

The driven front axle is powered by a jointless, central drive shaft, totally protected against possible wrapping. The planetary final drives mean that the centrally positioned differential can be kept small and compact to ensure high ground clearance.

Furthermore, the central drive means there is even greater crop clearance to the left and right of the differential housing. This represents a major advantage in many applications such as potato growing, and other rowcrop cultivation. The four-wheel drive can be engaged and disengaged Electro-hydraulically merely at the push of a button.

application.



Advantages

- ▶ *Optimum traction*
- ▶ *Low ground pressure, reduces compaction*
- ▶ *High work rate*
- ▶ *Very good manoeuvrability*
- ▶ *High drive power efficiency, greater power availability, less fuel consumption*

Ultimate manoeuvrability.

The articulated, moulded front mudguards do not restrict the Agropius's wonderful manoeuvrability. With a maximum steering lock of up to 55°, the tractor can be manoeuvred within the narrowest yards and building entrances and then give fast, safe control on headlands.

Favourable weight distribution.

The Agropius has a low unladen

weight and yet a high gross vehicle weight. In practice, this adds up to high payloads and the ability to effectively use implements with greater working widths.

At the same time, the tractor's low unladen weight beneficially reduces soil compaction for drilling, cultivation and working on grassland.

When extra weight is required, the

front of the tractor can be ballasted with up to 480 kg, and the rear wheels can be ballasted with up to 200 kg on each side.



Always on the safe side.



Safety in all situations.

With the Agropius, you have always got safety on your side – whether working on sloping grassland or driving at speed on the road. Thanks to a true, predictable four-wheel braking system, you will be safely in control in every application and all driving situations.

The oil-immersed disc brakes act on all four wheels – even on two-wheel drive – and guarantee a long service life with high levels of braking effort and durability.

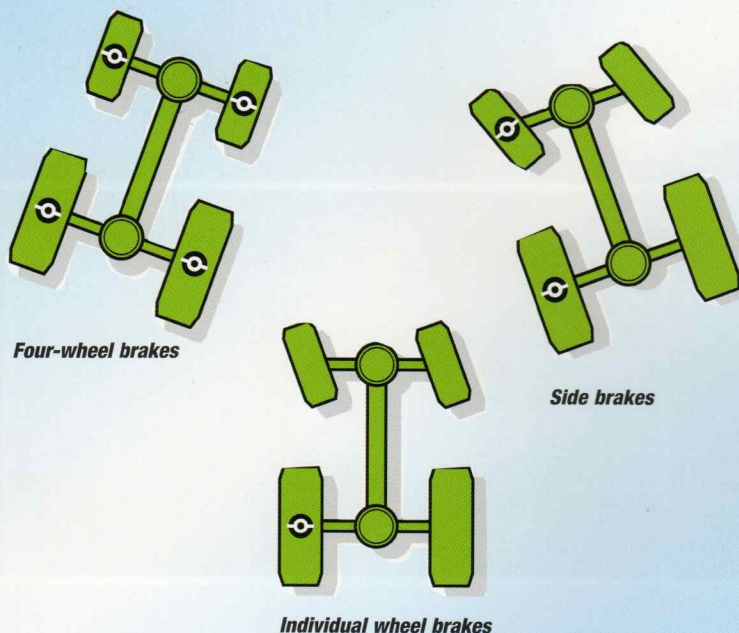
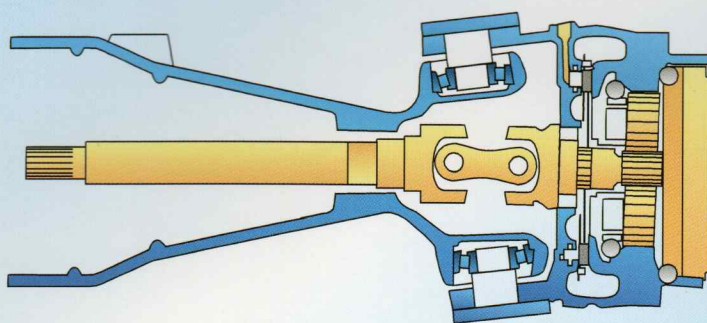
Locking ratio 100 %.

The positive locking differentials, front and rear, are engaged and

disengaged electro-hydraulically at the push of a button. They offer 100 % power transmission for optimum traction.

Front hydraulics.

(4-wheel drive tractors only)
Powerful front linkage with a lifting force of 1,750 kg can be factory



Advantages

- ▶ *High level of safety thanks to four-wheel brake system with long-life durability*
- ▶ *Four-wheel braking with 3 braking modes: all-wheel braking, independent rear wheel braking and left or right side "slew" braking*
- ▶ *Whichever braking mode is selected we always have the safety of full four-wheel braking when both pedals are pressed together*
- ▶ *Oil-immersed disc brakes for guaranteed long service life*
- ▶ *High braking effectiveness*
- ▶ *Reliable performance*

fitted on request, or can be retro-fitted quickly and easily because the front axle support is designed as standard to accommodate the front hydraulics.

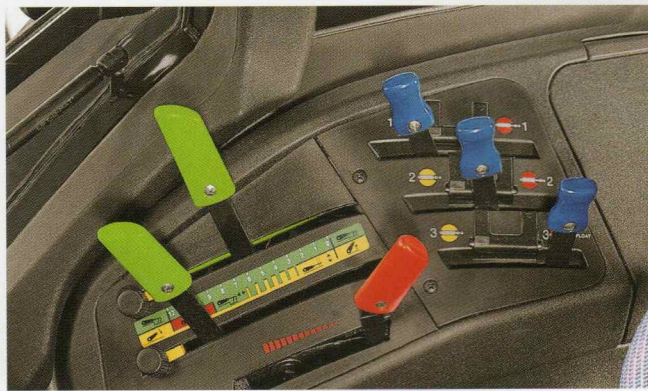
The front POWERLIFT is fully integrated into the tractor's structure and styling and is equipped with

a standard category II three-point linkage. None of this restricts the steering lock of the front wheels.

A very neat front PTO can also be incorporated. It offers 1,000 rpm and is driven directly from the engine. Control is via an oil-immersed clutch, simply at the push of a button.



Hydraulic power for any p



High pressure, high strength.

You can rely on the powerful hydraulics of the Agropius, irrespective of whether you are using the front and/or rear.

Both systems are characterised by their big lifting force of up to 3,600 kg at the rear and 1,750 kg at the front. A sturdy 3-point linkage; external actuation and quick couplers are available for quick and

easy implement mounting.

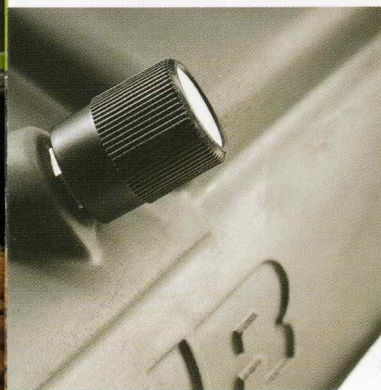
Additional hydraulic remote valves for every application.

The hydraulics of the Agropius, with up to 3 double-acting remote valves, offer maximum flexibility in operation. The flow control system enables the flow rate, via the third additional remote valve, to be infinitely varied from 3 to 42 l/min from inside the cab, the oil flow

not being used remains available for simultaneous use by the other remote valves or the POWERLIFT. This means combined operations are possible even in this 60–80 hp class. The additional lifting rams on the rear POWERLIFT (standard on the Agropius 70 and 80) ensure that the tractor can lift enormous loads.

The full range of PTO speeds, with standard 540/1,000 rpm and

urpose.



Advantages

- ▶ **Powerful lifting forces**
- ▶ **Varied applications thanks to parallel hydraulic operation**
- ▶ **Convenient flow rate control from the cab**
- ▶ **Quick set-up times**
- ▶ **Comprehensive PTO choices**
- ▶ **Economy PTO standard**
- ▶ **Oil-immersed long-life PTO clutch**
- ▶ **Electrohydraulic PTO engagement and disengagement**
- ▶ **Optional, synchronised, ground-speed shaft can be used simultaneously with the 540/1,000 shaft, allowing special work, such as potato harvesting, to continue when others are stopped**

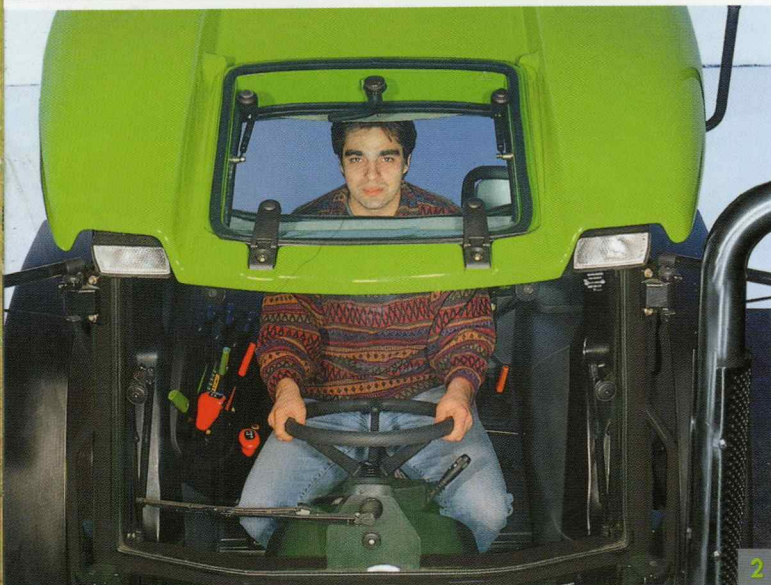
economy 540E at the rear, combined with the front PTO shaft (1,000 rpm), make the tractor extraordinarily flexible enabling it to be used in a wide range of applications. Speeds are selected from the cab. Wet multi-disc clutches ensure trouble-free PTO operation, and engage with shock-free modulated control, thus reducing stress on the implements. The PTO shaft is automatically braked when it is switched off.

Ground-speed PTO. (optional)

A ground-speed PTO is available and operates independently of the front or rear PTO shaft, using a separate shaft stub. The speed is synchronised to the transmission maintaining a fixed ratio to the speed of the rear wheels. When the tractor is travelling forwards, the shaft turns clockwise (as viewed from the rear) and when the tractor is moving backwards, the shaft turns anticlockwise.



May we offer you anything



Even though the standard equipment of the Agropius is very comprehensive, You can still customise it to suit special requirements and tractor application.

At DEUTZ-FAHR we offer a coordinated range of additional special equipment for you to consider. Contact your DEUTZ-FAHR dealer for details. They will be pleased to be of assistance.

1 Comfort cab: Designed to offer an

extra-comfortable workplace. With roof hatch and a powerful heating and ventilation system.

2 Transparent, glass roof hatch: The comfort cab becomes a luxury cab with an excellent view for front loader work. A raised front loader is easily visible through the tilting transparent roof. An additional feature of this version is that the heating is routed to the foot area through air channels in the B-strut.

3 Air-conditioning system: Fitted on request, the air-conditioning system ensures optimum temperature control.

4 Two post ROPs: If no cab is required a simple, inexpensive protection frame is available as an alternative.

5 Air-sprung seat: For maximum comfort and correct posture on long workingdays.

6 Front POWERLIFT & front PTO: The

g else?



Agroplus reveals its true versatility when equipped with mounted front implements. The integrated front POWERLIFT has a lifting force of up to 1,750 kg and a PTO speed of 1,000 rpm.

7 Ballast carriers and front weights:

Optimum weight distribution for all applications and requirements.

8 Additional lift rams: The additional lift rams on the rear POWERLIFT

provide enormous lifting forces. Additional lift rams are fitted as standard on the Agroplus 70 and 80.



No need for time-consuming



Fast, daily servicing.

Daily servicing is quick and easy requiring little effort. Simply by raising the engine hood, which hinges from the rear and lifting off the side panels, all important components and assemblies can be reached straightforwardly for servicing without the need for tools. The engine oil can be checked without opening the engine hood. A sight glass shows the level of the oil in the transmission/hydraulics.

Economical and trouble-free.

The Agropius is extremely economical thanks to its low maintenance costs and long service intervals.

The engine oil requires replacement only every 500 hours or once a year, for example. All service points such as the air filter or battery can be accessed without the need for tools.

In conjunction with the large 90 l fuel tank, the tractor's low fuel con-

sumption means it can go for long periods without refuelling, and this operation in itself is easy to perform from ground level.

ng servicing.



Advantages

- ▶ *Quick and easy daily maintenance*
- ▶ *Engine oil change interval of 500 hours or once a year (Whichever comes the soonest)*
- ▶ *All important service points can be accessed without the need for tools*
- ▶ *Convenient refuelling from ground level*
- ▶ *Long operating periods between refuelling*

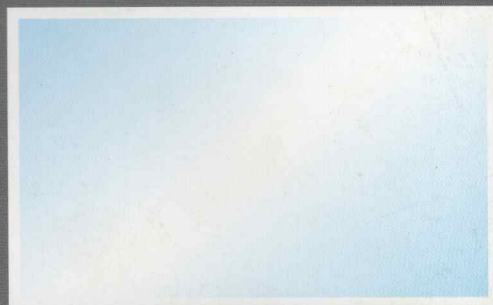
Sure and safe with original DEUTZ-FAHR.



Original service parts make good sense.

As you placed your trust in the original tractor, you should also only use original spare parts when required. Only these comply with the high quality and safety standards of DEUTZ-FAHR and ensure correct function and operation without problems – guaranteed.

Your DEUTZ-FAHR dealer will be pleased to answer your questions:



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SAME DEUTZ-FAHR DEUTSCHLAND GmbH, D-89415 Lauingen, www.deutz-fahr.de



DRIVEN BY INTELLIGENCE.

TECHNICAL DATA

Agroplus 60 70 80

Engine		Agroplus 60	Agroplus 70	Agroplus 80
Air-cooled DEUTZ diesel engine	Type	F3L 913	F4L 913	
Rated power	kW/hp	44/60	51,5/70	56,5/77
Speed at rated power	rpm	2,400	2,300	
Cylinders / cubic capacity	No./cm³	3 / 3,064	4 / 4,086	
Bore / Stroke	mm	102 / 125		
Starting torque	%	105	115	112
Maximum torque	Nm	201	267	278
Constant torque range	rpm	1,400-1,500		
Power at maximum torque	kW/hp	34/46	42/57	
Torque rise	%	15	25	
Specific fuel consumption	g/kWh	220	223	
Oil quantity/tank capacity	l	9/90	11/90	

Chassis, brakes, steering		Agroplus 60	Agroplus 70	Agroplus 80
Front axle drive			Central drive	
Differential locks front/rear			Positive lock	
Service brake	front		Wet disc brakes	
Service brake	rear		Wet disc brakes	
Parking brake			Independent, on the intermediate shaft	
Steering system			Hydrostatic	
Steering lock			55°	
Turning radius	m		3.6	

Steering hydraulics		Agroplus 60	Agroplus 70	Agroplus 80
Steering			Open centre	
Pump flow rate/pressure	l/min (bar)		27 (150)	

Working hydraulics		Agroplus 60	Agroplus 70	Agroplus 80
System			Open centre	
Oil circuit			Shared with transmission	
Pump flow rate	l/min (bar)		48 (150)	
Oil available	l		15	

TECHNICAL DATA

Agroplus 60 70 80

Powerlift		Agroplus 60	Agroplus 70	Agroplus 80
Category of 3-point linkage, rear		II; WKS-fast action couplings		
Lifting capacity, rear	kg	2,900	3,600	
Front powerlift, cat. II		On request		
Lifting capacity	kg	1,750		

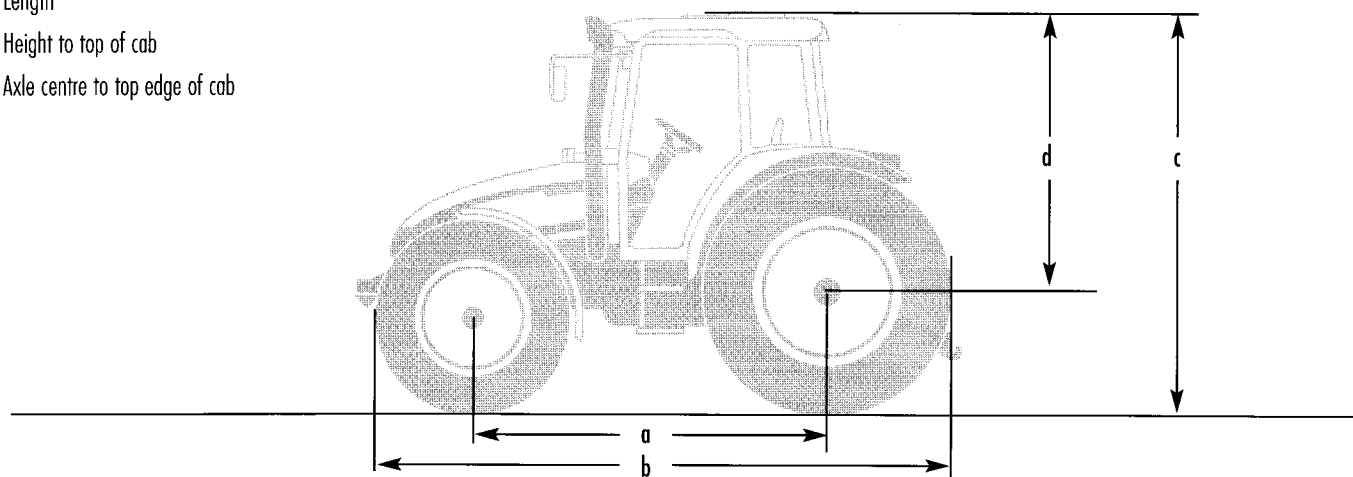
Hydraulic remote valves		Agroplus 60	Agroplus 70	Agroplus 80
Number		3		
Non-pressurised recirculation		Standard		
Locking Mechanical		In floating position or lifting position		
Actuation		Individual		

Transmission		Agroplus 60	Agroplus 70	Agroplus 80
SYNCHROSPLIT		Synchronised shifting transmission		
No. of speeds (with creeper)	F/R	20/10 (30/15)		
F/R shift		On right of driver POWERSHIFT		
POWERSHIFT		3-stage		
No. of speeds	F/R	45/45		
Synchronisation		Fully synchronised		

Front PTO (optional)		Agroplus 60	Agroplus 70	Agroplus 80
Clutch		Oil-immersed multi-plate clutch		
Actuation		Electro-hydraulic		
Speed at 2,130 rpm engine speed	rpm	1,000		
PTO profile		Splined shaft 1 5/8"		

Rear PTO		Agroplus 60	Agroplus 70	Agroplus 80
Clutch		Multi-disc, oil-immersed, modulated start-up		
Actuation		Electrohydraulic engagement / disengagement		
Profiles		1 3/8" 6 spline or 1 5/8" 21 spline		

- a Wheelbase
- b Length
- c Height to top of cab
- d Axle centre to top edge of cab



Dimensions in mm		Agroplus 60	Agroplus 70	Agroplus 80
a		2,112	2,242	2,242
b		3,835	3,965	3,965
c		2,450	2,480	2,480
d		1,765	1,765	1,765
Width across tyres		1,985	1,985	1,985

Weights in kg		Agroplus 60	Agroplus 70	Agroplus 80
Unladen weight	front	1,250	1,305	1,305
	rear	1,650	1,795	1,795
	total	2,900	3,100	3,100
Payload	front	1,050	995	995
	rear	1,550	1,405	1,405
	total	2,100	1,900	1,900
Permissible laden weight	front	2,300	2,300	2,300
	rear	3,200	3,200	3,200
	total	5,000	5,000	5,000

Flange dimensions		Agroplus 60	Agroplus 70	Agroplus 80
Flange dimension, front	(mm)	1,500	1,500	1,500
Flange dimension, rear	(mm)	1,540	1,540	1,540

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Tyres		Agroplus 60	Agroplus 70	Agroplus 80
11.2 R24	VR		1,166 - 1,850	
12.4 R36	VR		1,292 - 1,908	
11.2 R20	VR	1,266 - 1,754		
14.9 R28	VR	1,400 - 1,904		
12.4 R20	VR		1,266 - 1,754	
14.9 R30	VR		1,400 - 1,902	
11.2 R24	VR			1,166 - 1,850
16.9 R30	VR			1,400 - 1,900
320/70 R20	VR	1,266 - 1,754		
420/70 R28	VR	1,400 - 1,904		
380/70 R20	VR			1,266 - 1,754
480/70 R30	VR			1,400 - 1,900
14.9L R20	VR			1,266 - 1,754*
16.9 R30	VR			1,400 - 1,900*
320/70 R24	VR		1,166 - 1,850	
13.6 R36	VR		1,294 - 1,910	
360/70 R20	VR			1,266 - 1,754
420/70 R30	VR			1,400 - 1,900
320/70 R24	VR			1,166 - 1,850
480/70 R30	VR			1,400 - 1,900
250/85 R28	VR		1,158 - 1,864*	
230/95 R40	VR		1,256 - 1,844*	

* Not currently included in the type approval.

VR = Adjustable wheels

Available standard tyre combinations are given on the current valid price lists.

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