

# Agroplus

75 85 95 100



**DEUTZ  
FAHR**





*Agroplus*  
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## THE UNIVERSAL TRACTOR CLASS.

With the new AGROPLUS series, DEUTZ-FAHR are introducing the typical tractors for grassland-, maintenance-, domestic- and yard applications.

The plusses of the compact class: high flexibility, universality, manoeuvrability, simplicity, manageableness as well as utmost economy and productivity.

### **DEUTZ ENGINES - POWERFUL WITH TURBO CHARGER:**

Water-cooled turbo-charged engines of high reliability (85 and 95 HP models with intercooler). High efficiency thanks to a new injection system with individual injection pumps. The four- or six-cylinder engines are particularly flexible and powerful.

### **TRANSMISSION WITH SYNCHROSPLIT, POWERSHIFT AND POWERSHUTTLE:**

Best possible adaptation to all working requirements. Simple SYNCHROSPLIT transmission. High productivity with POWERSHIFT transmission for rapid shifting. POWERSHUTTLE for reversing without clutch. 15

gears can be shifted via electro-hydraulic long life clutches. PTO for all equipment requirements.

### **SAFETY WITH ASM AND TRUE FOUR-WHEEL BRAKE:**

Automatic engagement and disengagement of front drive and differential locks. All tractors have oil-immersed long life brakes and are braked at all of the four wheels. Single-wheel or lateral brakes reduce the turning radius.

### **HYDRAULIC SYSTEM WITH MECHANICAL OR ELECTRONICAL CONTROL:**

Controlled power lifts with modern AGROTRONIC hD meet all application requirements. For grassland farms, the economic mechanical control of the linkage.

### **CAB WITH GOOD VISION AND COMFORT:**

Stress-free working thanks to a free allround view. Powerful air-conditioning system, ergonomic driver's seat and comfortable driving position maintain the fitness for work and health of the driver.

# GOOD VISION WITH BEST COMFORT AND PERFECT OPERATION.

## ENTERING THE NEW COMPACT CLASS.

An exemplary working place: Safe cab access and exit thanks to large door opening angles and anti-slip steps. Ample room to move with clear vision of all important operating and control elements. Additional comfort by air-cushioned driver's seat for fatigue-free and concentrated working. The productivity will increase.

Safe access and exit thanks to anti-slip steps and secure hand grip.



## REALLY WELL INFORMED.

The clear, antidazzle instrument panel continuously informs on all driving data. Speeds, PTO speeds, operating hours and

Simple symbols indicate operating conditions and pre-selected operational changes.

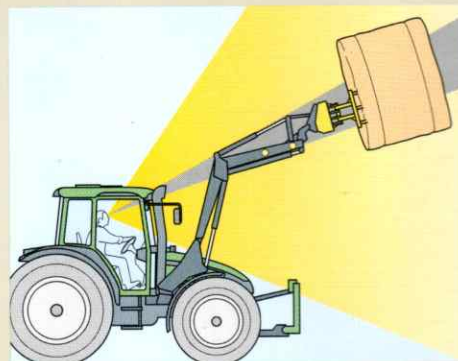


distance are digitally indicated, easy to read.



## BEST VISION DURING WORKING.

The tractors are proving themselves by compact, low design and high manoeuvrability. Good sight to any direction thanks to the narrow, descending engine cowlings and narrow cab posts as well as large glass areas.



A new glass roof ensures excellent sight of a raised front loader. The roof can be put raised and easily shaded.

### **THE DRIVER – FOCUS OF INTEREST.**

The large-size, ample driver's cab gives a clear view both inside and outside.

### **EVERYTHING UNDER CONTROL.**

To improve the working quality, all operating elements are ergonomically arranged besides the driver's seat. They are clearly combined to functional groups.

The levers are colour coded by function.



This control center ensures at any time a quick adaptation to different working sequences. Smoothly and exactly.



Concept as in a car. Steering wheel easily adaptable to every individual.

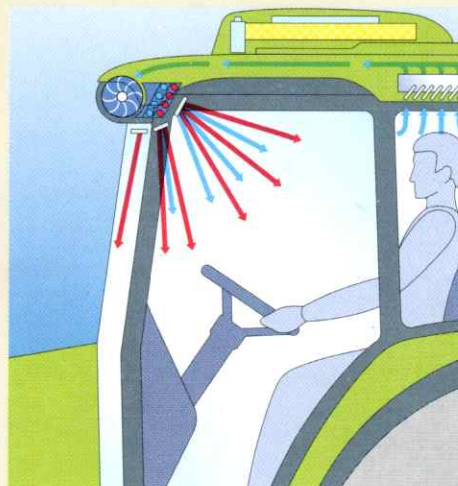
### **PREPARED FOR COMFORT.**

The ergonomic driver's position of course comprises the softly lined steering wheel which is easy to handle. Turnable and telescopic, it can be optimally matched to the driver.

### **CLIMATE REALLY GREAT.**

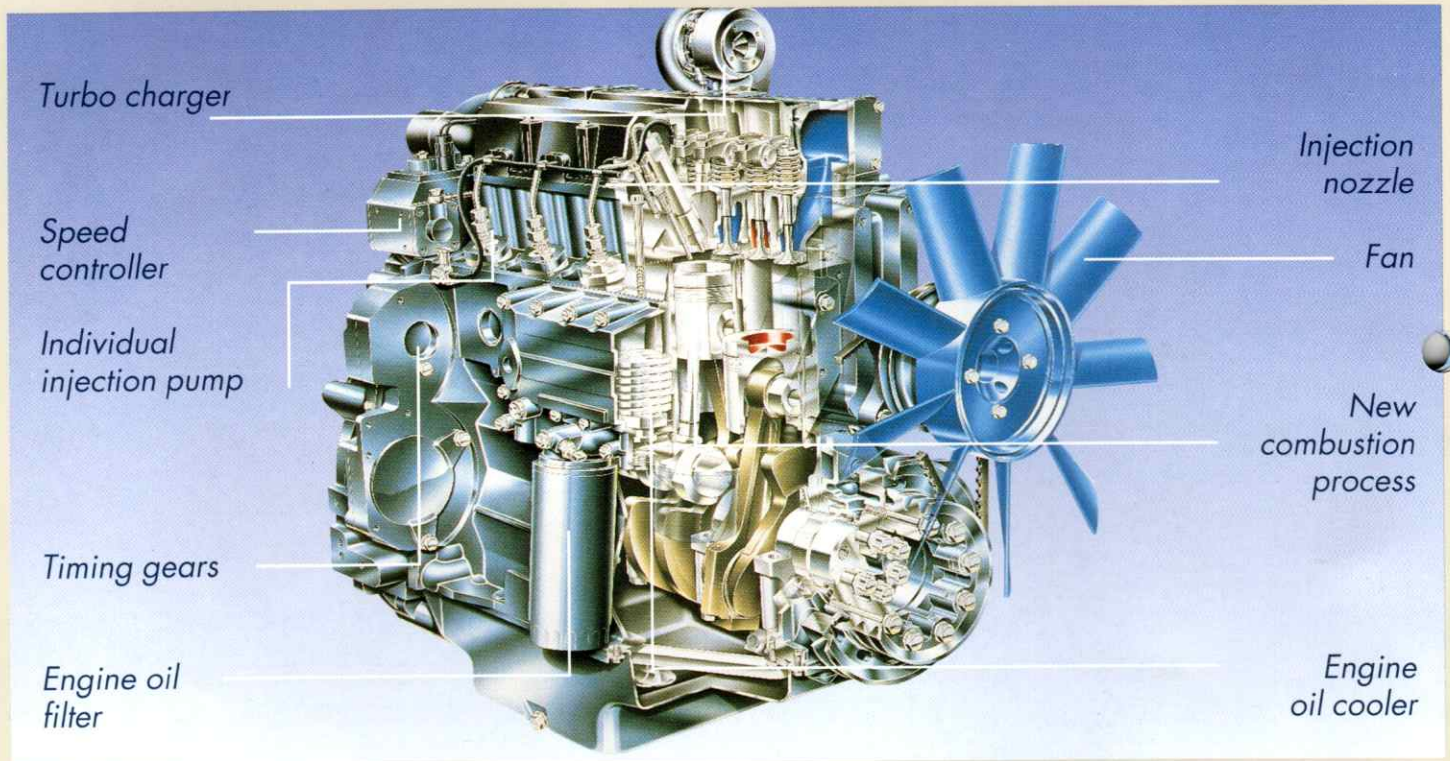
Best air-conditioning in all weathers. The external air is efficiently filtered on a large surface.

In addition to the three-stage fresh-air blower with an air capacity of 450 m<sup>3</sup>/h and the powerful heating, all AGROPLUS tractors can be equipped with an CFC-free air-conditioning system.



Comfortable and stress-free working thanks to a well air-conditioned driver's cab.

# HIGH-TECH UNDER THE COWLING – WITH TURBO-POWERED DEUTZ ENGINES



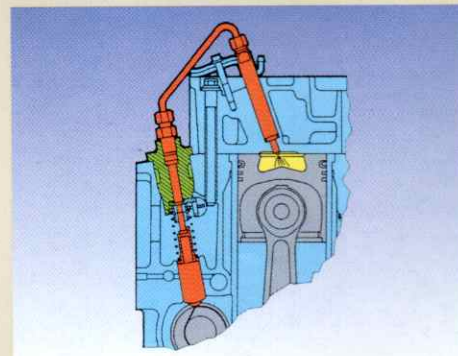
## DEUTZ ENGINES FOR INCREASED PRODUCTIVITY

The liquid-cooled four- and six-cylinder DEUTZ engines of the proven 1012 series are characterized by technical advantages such as compactness (high manoeuvrability, good vision), high power density, fuel cooler and on some models intercooling.

## STRONG INJECTION SYSTEM FOR IMPROVED COMBUSTION.

Thanks to the new high-pressure injection system with individual Bosch injection pumps directly driven by the cam shaft and the improved combustion process with injection pressures of up to 1400 bar, the DEUTZ engines achieve excellent power and emission values (also with biologic fuel).

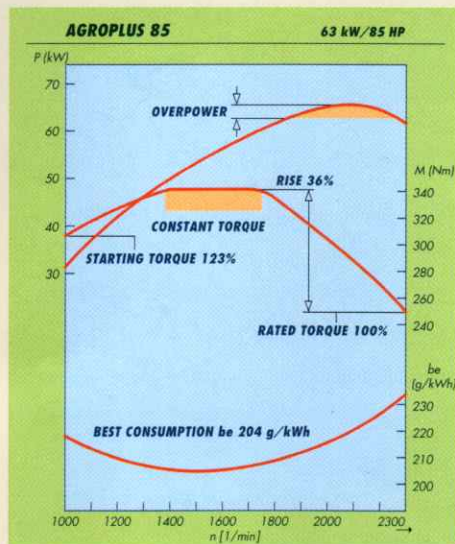
The combustion air is taken from in a dust-free zone at the cab post independent of the cooling air.



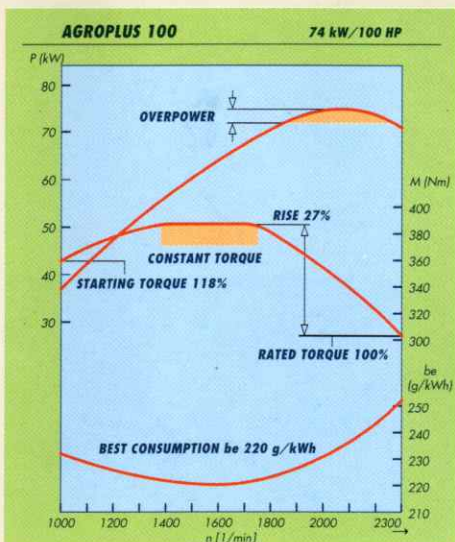
Most modern engine technology with extremely short injection line for high peak pressures.

## HIGH CONSTANT POWER.

The engines achieve a constant power over a wide speed range of 450 1/min. The maximum capacity is already reached at 1850 1/min and maintained up to the rated speed. High starting torques, up to 123% of the torque at rated capacity, ensure safe starting with heaviest loads, also on the hill.



High torque rises and the constant torque guarantee the engine's high flexibility and power.



The new position of the air filter permits the direct access without tool.

## BEST MAINTENANCE AND OPERATION.

The filter is cleaned without any tool. The rapid access to the two-stage, large-volume dry air filter is simple and unique.

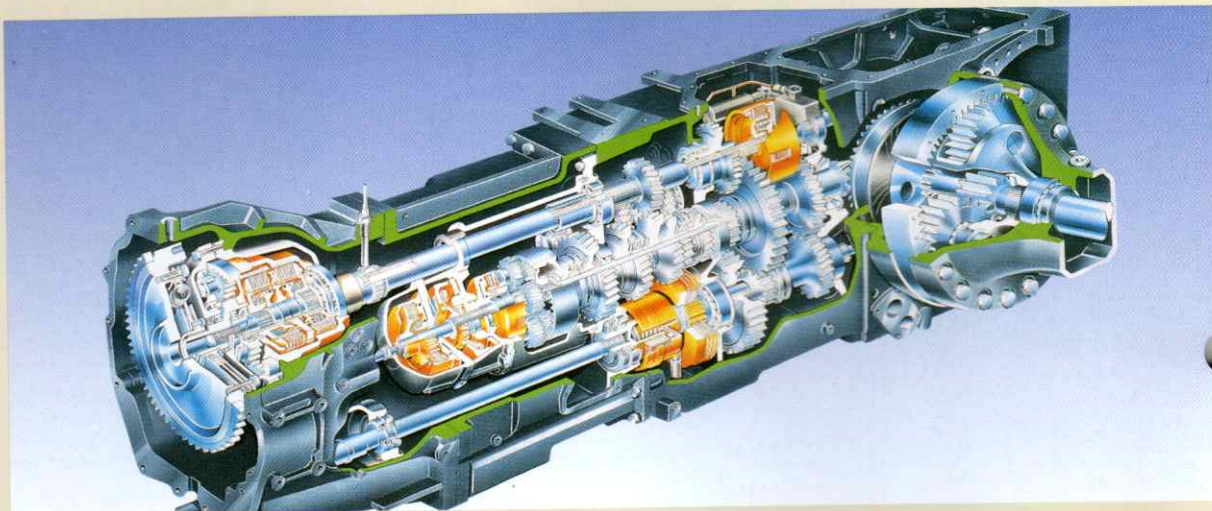
The compact cooling unit is accommodated easily accessible in an area separate from the engine – easy to maintain.

Cold cooling air and hot engine waste air are clearly separated. Engine cowling and lateral elements are made of light plastic material and can be quickly dismantled without tools.



The easy to maintain cooling unit is accommodated in an area separate from the engine.

# SHIFTING MADE EASY. TRANSMISSION WITH POWER AND CONCEPT.

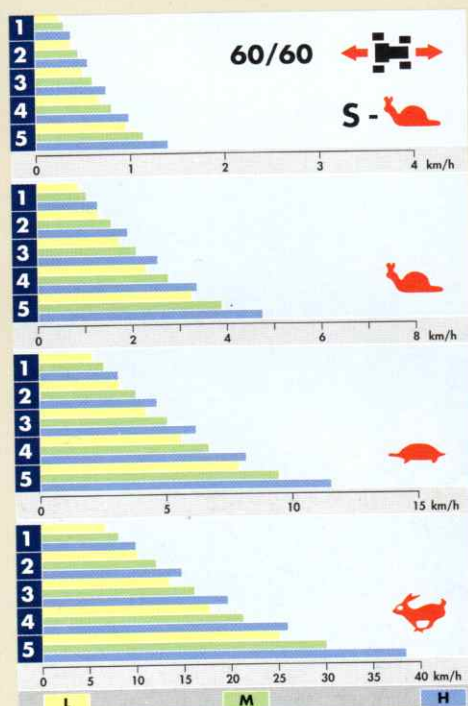


## TRANSMISSIONS FOR EVERY REQUIREMENT.

DEUTZ-FAHR supplies the transmissions tailor-made for every application and every customer.

## SYNCHROSPLIT – WELL GRADUATED.

The SYNCHROSPLIT transmission can be equipped with creeper range-, splitter- and reverse range



as well as with mechanical or hydraulic F/R shifting. It can be supplied with 15/15 up to 40/40 gears and has an accordingly narrow and good gear graduation.

## 3-RANGE POWERSHIFT TRANSMISSION.

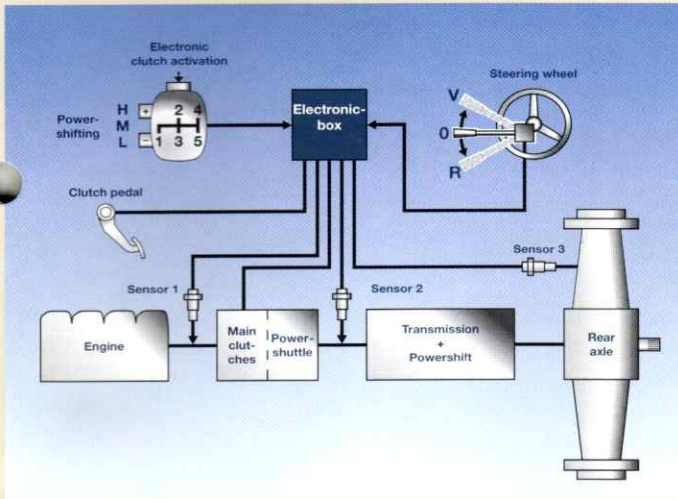
The POWERSHIFT transmission has 3 powershift ranges. It can be extended to up to 60 forward and reverse gears. The selected powershift range is indicated on the instrument panel. The speed range covers 0.25 to 40 km/h. In the main working range between 4 to 15 km/h, 19 speeds are available.



With a shifting lever, 15 different gears can be shifted without activating the clutch.

## ELECTRONIC BOX SENSORY SYSTEM.

Sensitive sensors in the transmission continuously transmit the transmission speeds to the electronic box which smoothly and precisely controls the hydraulic changing operations: comfortable shifting. An example for comfort and productivity gain.



## POWERSHUTTLE SHIFTING WITHOUT CLUTCH.

POWERSHIFT and SYNCHRO-SPLIT can be equipped with a POWERSHUTTLE: With the POWERSHUTTLE, you can select forward or reverse without clutching and even start. Moreover, there is the advantage of shifting 15 gears (depending on the transmission design) without operating the clutch.

Via a pushbutton in the shifting lever, the long life clutches are electro-hydraulically operated so

that the gears can be changed comfortably, safely and quickly.



## PTOs - OPERATED ELECTRO-HYDRAULICALLY FROM THE CAB:

All AGROPLUS tractors are series-equipped with an extensive PTO system. The desired speeds are pre-selected in the cab and, if required, electro-hydraulically activated via pushbutton.

To secure the implements and the drive train, starting of the PTO is smoothly modulated. For trailers with driven axles, DEUTZ-FAHR are offering a ground-speed PTO with second PTO stub.

Changing of the driving direction forward or reverse without clutch.



The PTO speed is pre-selected from the cab on the left of the driver's seat.

# DRIVING SAFELY: WITH LONG LIFE 4-WHEEL BRAKING AND ASM.



## HIGH GROUND CLEARANCE.

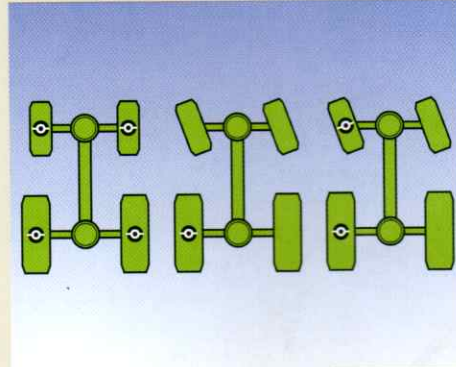
Trouble-free driving over swaths is achieved by a high ground clearance, a continuous drive shaft protection and a smooth underbody.

Thanks to its compact design, the AGROPLUS is best prepared for low building entrances.

## BRAKING AS REQUIRED.

All tractors are provided, both front and rear axles, with independent oil-immersed disc brakes. These true 4-wheel brakes guarantee the full braking efficiency at low pedal force.

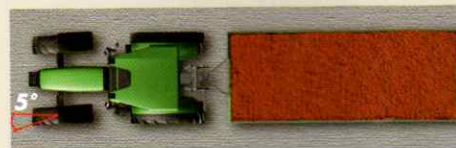
Unique: wet disc brakes also in the front axle.



The durable maintenance-free long life brakes will provide you with the necessary safety also at high speeds. The single-wheel steering brake or the lateral braking system serve for reducing the turning radius.

## ASM FOR YOUR SAFETY.

Connection and Disconnection of differential locks and 4-wheel drive are realized by the Drive Control Management (ASM).



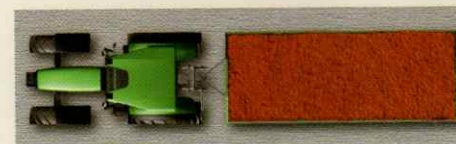
Diff. lock off.  
At angles larger  
than 5° + F over  
10 km/h.



Diff. lock off.  
At angles larger  
than 15°.



Diff. lock off. For  
single-wheel brake.



4-wheel off.  
At F over 15 km/h.

# **STRONG HYDRAULIC SYSTEM. FOR THE MOST DEMANDING TASKS.**



*A strong, versatile three-point hitch for different implement applications with high lifting forces. Remote control from the tractor rear.*

## **HYDRAULIC SYSTEM AS DESIRED.**

The tractors of the AGROPLUS series can be supplied with mechanical or electronical lower link control. The mechanical control is particularly economic. Most suitable for grassland farms.

## **ELECTRONICALLY CONTROLLED POWER LIFT – AGROTRONIC hD.**

With the electronic power lift control AGROTRONIC hD, you can precisely and rapidly control the power lift.

*Clear hydraulic operating panel. Two cross-shifting levers for totally four remote valves.*



The automatically connectable vibration insulation is standard equipment of DEUTZ-FAHR. As option, a radar sensor and, hence, an adjustable slip control is available.

## **REMOTE VALVES FOR EVERY REQUIREMENT.**

The hydraulic system permits the use of the implements as required for the application. Four precision-controlled, double-acting remote valves are standard equipment for the AGROTRONIC hD. They are operated via two cross-shifting levers. The oil flows are then directed to easily accessible hydraulic connections which can be coupled under pressure.



*Clean tractor rear thanks to a leaked oil collector for the hydraulic connections.*

Via a flow volume control, a remote valve can be steplessly set from the cab between 3 and 42 l/min oil flow. As required, the oil flow volume can be exactly matched to the need of the individual oil consumers.

## **THE MOST IMPORTANT ADVANTAGES OF THE AGROPLUS TRACTORS 75/85/95/100:**

- Universal tractors for grassland, maintenance, domestic and yard applications.
- Versatile, application-oriented variants and equipment options.
- Low construction height for low building entrances.
- High cab comfort with or without air-conditioning system.
- Good vision to front-mounted implements thanks to the narrow, descending engine cowling.
- Glass roof hatch for front loader works.
- Most modern, liquid-cooled DEUTZ turbo engines.
- High-pressure injection with individual Bosch pumps.
- Constant power and constant torque.
- Transmission designs for any application: – SYNCHROSPLIT – 3-range POWERSHIFT.
- Hydraulic POWERSHUTTLE or mechanical shuttle shifting system.
- Shifting without clutch pedal operating via an electro-hydraulic pushbutton.
- 4 PTO speeds.
- Ground-speed PTO.
- 4-wheel oil-immersed Long life brake.
- Electro-hydraulic shifting of 4-wheel, PTOs and differential locks.
- Automatic shifting system for 4-wheel and differential locks (ASM).
- Mechanical or electronic hydraulic lower link control system.
- 1 or 2 cross-shifting levers for remote valves.
- Operation of hydraulic system and PTO on the rear mudguard.
- Integrated front power lift, single- or double effect.
- Short wheel base, large steering angle and turnable mudguards = high manoeuvrability.
- Simplest maintenance with long service intervals = low costs.

The illustrations in this brochure show equipment suitable for the respective application. Only the dealer's price list determines whether such equipment (e.g. ballast weights, cab equipment, tyre size) shall be included in the standard version or is a special accessory. Furthermore, the technical data is given only subject to modifications resulting from technical or commercial reasons and statutory regulations. No claims of whatever nature can be derived from them.

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FAHR**

**DEUTZ-FAHR AGRARTECHNIK GMBH**  
D-89415 Lauingen





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## 75 85 95 100

					
<b>TECHNICAL DATA</b>		<b>AGROPLUS 75</b>	<b>AGROPLUS 85</b>	<b>AGROPLUS 95</b>	<b>AGROPLUS 100</b>
<b>Water-cooled DEUTZ diesel engine</b>	typ	BF4M1012E	BF4M1012EC	BF4M1012EC	BF6M1012E
Rated power	kW/HP	55/75	62/84	68/94	73/99
Max. power	kW/HP	56/76	63/86	69/95	74/101
Constant power	l/min	1850-2300			
Cylinders/stroke	No./cm <sup>3</sup>	4/3192	4/3192	4/3192	6/4788
Rated speed	l/min	2300			
Torque rise	%	31	36	33	26
Speed at max. torque	l/min	1380-1700			
Injection pump		individual Bosch pumps			
Fuel consumption/tank capacity	g/HPh/l	228/140	204/140	202/140	221/140
Air intake		top			
Exhaust		top			
<b>Transmission</b>					
SYNCHROSPLIT		Standard			
No. of gears with creeper speeds 40 km/h	f/r	20/20			
POWERSHIFT		3 range			
No. of gears with creeper speeds 40 km/h	f/r	60/60			
POWERSHUTTLE		powershiftable forward/reverse shifting			
Brakes, front/rear		Standard, wet disc brakes			
Rear PTO, engageable under load	l/min	540 - 540 ECO - 1000 - 1000 ECO			
Front PTO, engageable under load	l/min	1000			
<b>Hydraulic system</b>		mech. lower link control/AGROTRONIC hD			
Lifting capacity, max	KN/kp	48/4900			
Category	n <sup>o</sup>	II			
Pump rating, max.	l/min	52			
Remote valves		4			
Two-phase quick couplers		Standard			
Front power lift/lifting capacity max.	kN/kp	20/2000			
Category		II			
<b>Tyres, series</b>	front	14,9R24	16,9R24	13,6R28	16,9R24
	rear	16,9R34	18,4R34	16,9R38	520/70R34
<b>Main dimensions and weights</b>	for tyres	13,6R28/14,9R38			
Empty weight/adm. total weight	kg	3800/6200			
Wheel base	mm	2340			
Length/max. width (mudguard measure)	mm	3714/1940			
Height above cab	mm	2677			
Ground clearance	mm	472			
Wheel bases	front mm	1600			
	rear mm	1600			

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