

# AGROTRON M



**GERMAN ENGINEERING**

# AGROTRON M - IN FULL COMMAND.



Tilting glass roof hatch with sunshade, ideal for working with a front loader.

Four integrated working lamps.

Sloping, streamlined cowling for excellent view of the front-mounted implements and cultivation area. Safe working and manoeuvring, even in confined spaces.

The very latest DEUTZ turbo diesel engines with DEUTZ common-rail technology (DCR). Depending on model with two and four-valve technology and externally cooled exhaust gas recirculation for reduced fuel consumption, plenty of torque and fast acceleration.

Pivot-mounted front mudguards as standard. A high degree of manoeuvrability and small turning circles are also guaranteed with a maximum front tyre size of 34".

The integrated front powerlift, with a lifting force of up to 4,500 kg and the electro-hydraulically operated 1,000 rpm front PTO, make the Agtron a full-system tractor for combined applications. Mounting of front implements is simple.

One of the largest, best designed tractor cabs for relaxed, fatigue-free work. Air-conditioning as standard, together with ergonomic, intuitive controls with unparalleled features.

High-performance hydraulic system with a lift capacity of up to 9,200 kg. Electronic Hitch Regulation (EHR) with integrated diagnostic system as standard. Separate hydraulic circuit for the steering. Up to six electrical remote valves and convenient operation with buttons on the PowerComS, scroll wheel or joystick.

Four PTO speeds are standard. The economical ECO PTOs (540E and 1,000 E) give real fuel-saving benefits for all applications. In combination with the standard ASM drive control management, the PTOs, 4 wheel drive and differential locks are controlled automatically.

Powershuttle, Powershift transmission with 4 Powershift stages. APS with two program memories (ProfiLine). Modern, practical transmission technology with excellent ratios and shifting characteristics.

Driving safety and comfort is considerably enhanced by the integrated suspension design with perfect coordination of hydropneumatic suspension on the front axle and mechanical or pneumatic suspension on the cab.



Exclusively at DEUTZ-FAHR: 24 months warranty for all Agtron tractors from 132 hp.



DEUTZ Common-Rail: The exclusive technology for minimal fuel consumption and the quickest possible response characteristics.



External exhaust gas recirculation reduces consumption.



Approval for 100% bio-diesel: Saves costs and protects the environment.



Fuel-efficiency even at 40 km/h thanks to the reduced engine speed.



One transmission, two optional top speeds: 40 or 50 kph.



With 4 PTO speeds as standard: 540/540 E/1,000/1,000 E

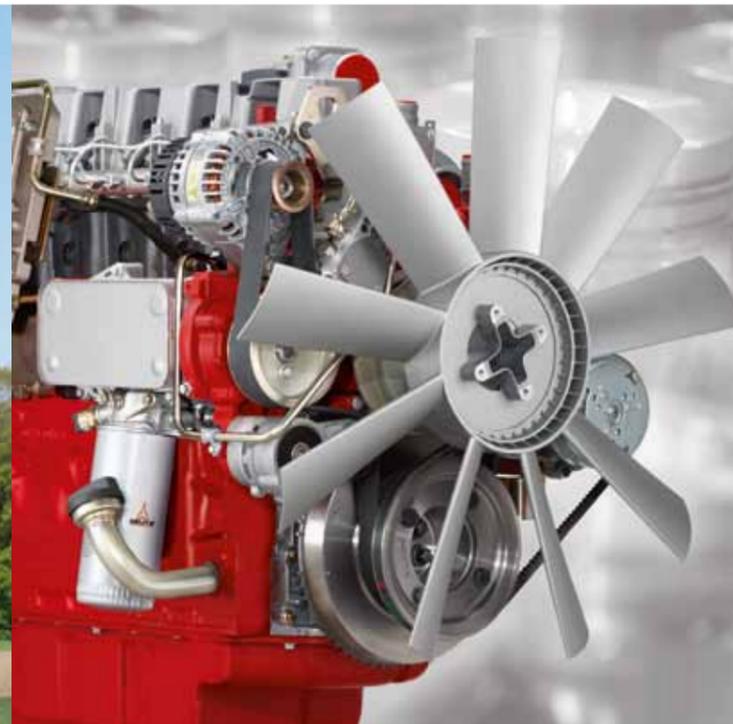


Thanks to their innovative engine technology, DEUTZ-FAHR tractors save up to 15% on diesel fuel.

# SUPERB POWER AND ECONOMY.

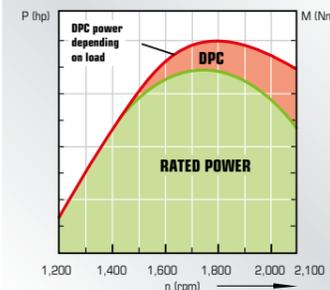
## ADVANTAGES

- ▶ Modern, high-propulsion and fuel-efficient DEUTZ 4-valve turbo diesel engines with electronic engine control (EMC) for low consumption and compliance with TIER III exhaust gas emissions regulations
- ▶ The correct power and economy for any situation using the innovative DPC system (DEUTZ-FAHR Power Control)
- ▶ DEUTZ Common-Rail (DCR) high-pressure injection, up to 1,600 bar via two injection pumps
- ▶ Air filter with ejector dust separation and long maintenance intervals
- ▶ DEUTZ-FAHR is the first manufacturer granting approval for bio-diesel fuel (B100) incl. warranty for 24 months. Expensive after sales solutions or additional assurances are not necessary. Savings from the first moment on.

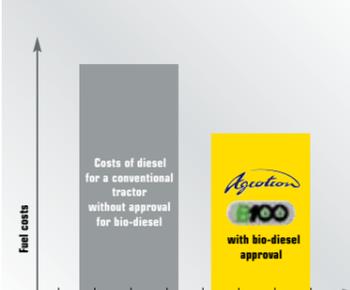


Optimum fuel combustion thanks to four valves and 7-hole injection nozzles.

### DEUTZ-FAHR Power Control (DPC)

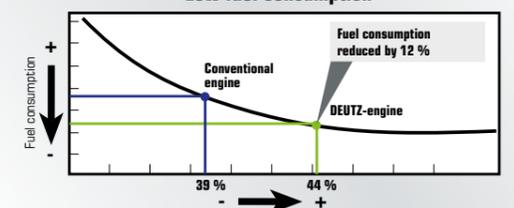


DEUTZ-FAHR Power Control (DPC). The innovative DPC technology delivers the highest and most economically efficient power at all times depending on the load situation. Strong torque, quick response characteristics and sufficient traction are therefore guaranteed even under the most difficult operating conditions.



Every litre of bio-diesel saves hard cash. At a fuel consumption rate of 30,000l/year and an average price saving of 15 ct/l, the overall saving over five years would be 22,000 Euro.

### Low fuel consumption



### Powerful, economic and environmentally friendly

Many can construct engines. But the real task is to build strong and efficient engines which comply with the effective emission standards and still set their own trend. The DEUTZ engine philosophy comes down to power, economy and environmentally friendliness.

### We develop for agriculture

DEUTZ-FAHR uses a whole host of intelligent technologies for this, aimed at increasing performance, lowering fuel consumption and reducing harmful emissions. This bio diesel initiative is only one of several forward-looking projects.

Particularly, the changing applications in agriculture require extraordinary know-how and longtime experience in engine construction. But there is one thing all those applications have in common: power has to be available when it's needed.

And the consumption has to be reduced at the same time. Although this sounds paradoxical, the engineers at DEUTZ-FAHR have managed to achieve it with the innovative DPC (DEUTZ-FAHR Power Control). By combining the electronic engine control (EMC) and the DEUTZ Common-Rail-Technology, a complex but very efficient engine control system has been developed.

### Powerful, strong, efficient

The 6 cylinder high-tech DEUTZ turbo diesel engines in the Agrotion M come with innovative DEUTZ Common-Rail Technology (DCR) as standard. And thanks to the DPC the engines deliver constant power, high overpower and maximum torque. The driver can therefore relax while working with minimal gearshift changes because the engine offers sufficient reserves of power, good elasticity values and reduced fuel consumption at all times.

At the top speed of 50 km/h the engine only reaches a speed of 2,100 rpm and at 40 km/h it is just 1,680rpm. That saves fuel and protects the driver's ears.

### Reducing emissions and the consumption = Protecting the environment

The four-valve models are equipped with an external exhaust gas recirculation as standard. This reduces consumption and exhaust emissions. Possible noise sources were already excluded at the design stage of the engines, because noises that don't occur don't require insulation. For example, a rigid, ribbed crank housing, soft combustion thanks to 7-hole injection nozzles, reliable waste gate turbochargers, double casing silencers and a flexible intake and exhaust pipe mounting system reduce noise where it arises.



# TAKING THE BURDEN OUT OF SHIFTING.

## ADVANTAGES

- ZF 7200 series transmission: Simple and reliable transmission design
- Easy shifting
- Pulling off, stopping and changing direction without the clutch pedal
- Comfort clutch fitted as standard

- Speed matching for automatic adjustment of the powershift settings on all models
- APS (Automatic Powershift) standard feature on the ProfiLine version
- Transmission ratios perfectly matched with the engine performance therefore no unnecessary additional Powershift stages

- Fast, clear information for the driver with integrated diagnostics
- No momentary loss of drive as you change through the Powershift range.

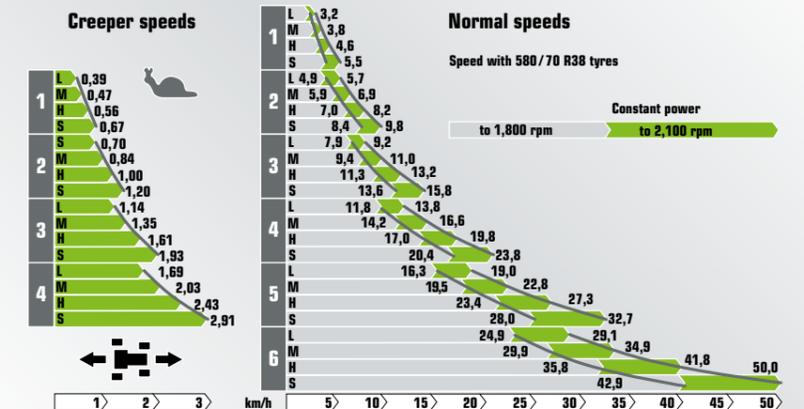
THE ENGINE AND GEARBOX ARE PERFECTLY TAILORED TO EACH OTHER SO THAT THE DRIVER CAN ALWAYS FIND THE SUITABLE SPEED FOR THE TASK IN HAND.



Changing the direction of travel without actuating the clutch: the standard Powershuttle .



Everything in view: The central display of the Powershift stages in the A-strut.



Economical in each speed: Additional Powershift stages are unnecessary due to the perfect coordination of engine and transmission. The driver can drive without constant shifting and still save fuel.

In the Agrotron we use the reliable and track-proven ZF 7200 series transmission. The fully synchronised transmission comprises three main components: 4-stage Powershift, 6-stage main transmission with wet multi-plate clutch and 4-speed creeper gear group.

Due to the position of the large-dimensioned wet multi-plate clutch, between the main and Powershift transmission, wear on the clutch and the effort needed for gear shifting are both considerably reduced. This results in smooth and fluid shifting with maximum clutch reliability. The clutch can either be controlled using

the pedal or a knob on the gearshift lever. Voith hydrodamp vibration absorbers enhance smooth starting and reduce the load peaks when the Powershift stages are actuated.

### Graduation and speeds

With 40 forward/reverse speeds the transmission has very close ratios to suit all practical requirements. The possible speed range – depending on the type and tyres – is from 390m/h to 50km/h. In the working range alone from 4-15km/h the transmission has 10 speeds. The top standard speed is 50km/h and can be reduced if required with the electronic

engine control EMC to a top speed of 40km/h. The engine speed reduction at 40km/h reduces fuel consumption and engine noise considerably. The driver can make full use of the tractor for ploughing, in second gear for example, solely by utilising the 4 Powershift stages, together with the full engine performance and constant power characteristics enabling speeds of 4.5 to 10km/h to be achieved without having to change gear. With the Powershift the respective working speeds are increased by approximately 20 percent or lowered by approximately 17 percent. Third gear, for example, covers a range of 9 to 16km/h for fast tilling, again without interrupting

the power flow.

### Powershift

The Powershift allows all four gears to be selected electro-hydraulically at the touch of a button on the armrest or on the PowerCom S control lever without pressing the clutch. The Powershift settings automatically adjust to the speed when the gear is changed (SpeedMatching).

### Shuttle transmission

With the shuttle transmission it is possible to pull off from a stationary position or change the direction of travel (reverse/ forwards) without actuating the clutch.

The Powershuttle lever, with the positions forwards, neutral and reverse is located on the left within easy reach below the steering wheel. The engaged speed and Powershift stage are retained when the direction is changed. The Powershuttle is of particular advantage when working on the headland or with the front loader, as the driver's right hand is free to operate other function controls.

### More than just a Powershift: Automatic Powershift (APS)

As an exclusive feature of the ProfiLine version the four Powershift stages are automatically shifted, depending on the

load conditions of the tractor, with the newly-developed APS feature. The load on and the rpm of the engine are used as a control impulse. The driver can infinitely vary the sensitivity of the system with a rotary switch. The driver can shift 24 speeds without using the clutch pedal. APS automatically adjusts the Powershift stages to the traveling and engine speed when the six gears are selected. Two memories permit the respective Powershift stages to be programmed to achieve practical speed matching.

# WORK MORE PRODUCTIVELY – WITH EASE.

**INTUITIVE CONTROL OF ALL FUNCTIONS: COMFORTIP IS A REAL HELP FOR THE DRIVER.**



## ADVANTAGES

- ▶ Maximum operative safety – no need to move hands and search for function switches
- ▶ Increases the productivity of the driver by enabling him to concentrate and relax
- ▶ Simple intuitive control management with individual programming and up to 16 functions per control sequence
- ▶ Functions can be initiated using the PowerComS control lever
- ▶ Prevents incorrect operation
- ▶ Manual intervention possible at any time
- ▶ Drive train control management takes care of the automatic activation and deactivation of four-wheel drive and the two differential locks
- ▶ Radar sensor standard on Proline

### Operation made easy

Standardised programmes really cannot do justice to all the varying applications found in agricultural enterprises. Wouldn't you prefer it if you could automate the repetitive functions required for each job? Ideally, a simple movement of one lever should enable you to retrieve each function.

### Easy programming

With the PowerComS lever and the Comfortip function the driver can easily program individual operation sequences and retrieve them by simply moving the lever. All operation sequences are displayed centrally and consecutively in the Info-Center. The next function is highlighted in the display so that the driver always

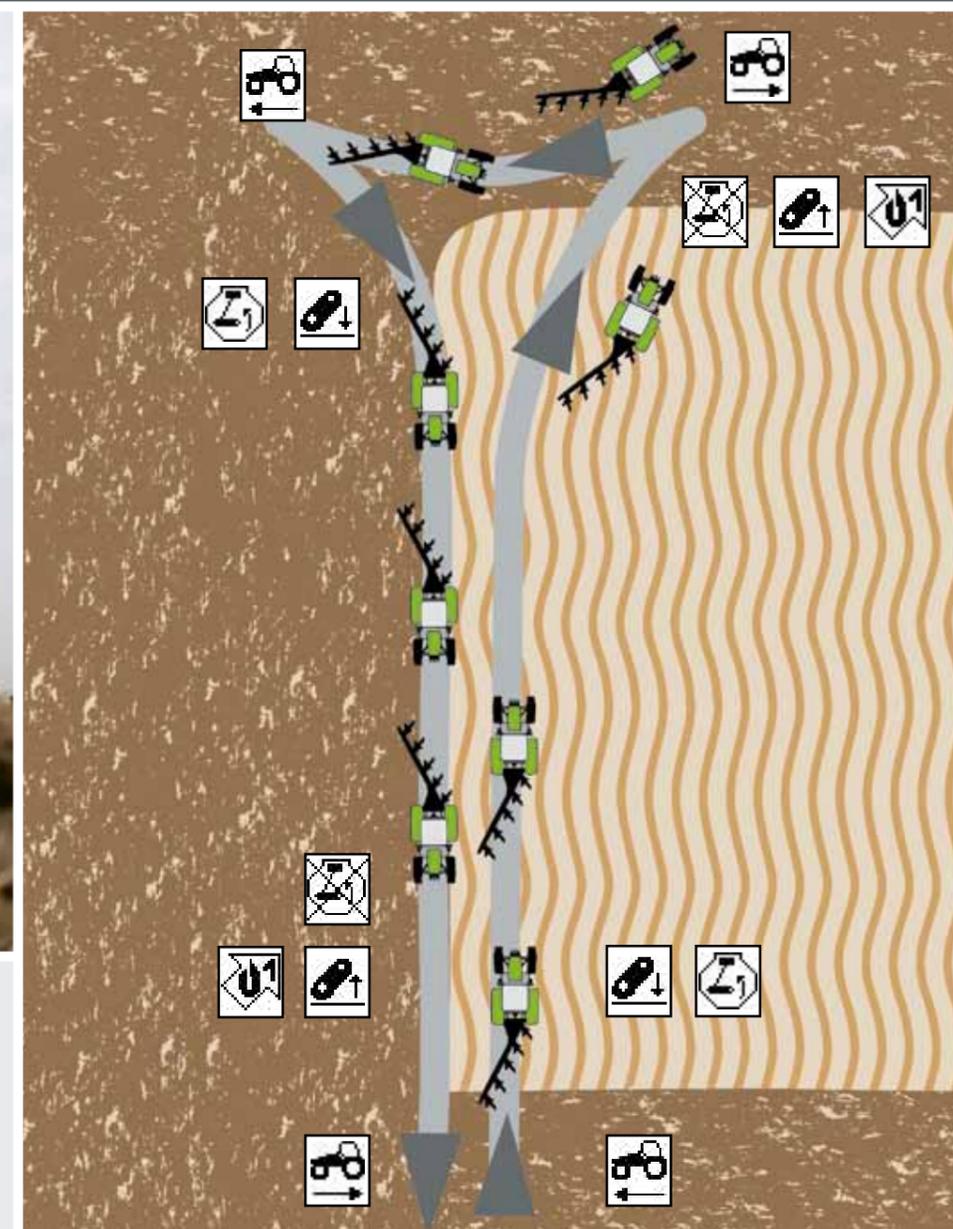
knows which function he can retrieve next. To set up the system for programming operating sequences – this is possible when the tractor is stationary or moving – the PowerComS joystick only has to be moved to the left whilst simultaneously pressing the enable button. An acoustic signal is then sounded and the digital display on the instrument panel is activated to accept the command function. To programme your preferred sequence it is only necessary to press the respective buttons on the PowerComS joystick or on the multi-function armrest. The programmed functions are then stored in the memory even when the tractor is switched off. This is the ultimate in hassle-free headland management.

### Increased productivity included

Increases in productivity and a reduction in fatigue are ensured. In this manner different operating sequences with up to 16 functions can be saved and recalled. You can simply "individualise" the Agrottron M for each job and considerably increase productivity with stress-free, one-hand operation. Operating sequences also enhance your operating safety. Manual operating faults are not possible and you don't have to reach for different switches on the multi-function armrest.

### Drive train management

ASM, the automatic drive train management, does away with the need for your repetitive diff lock and four-wheel drive actuation: ASM automatically controls these actions under load as required, depending on the steering angle and ground speed. As you turn at the headland the diff locks automatically disengage allowing a tight turn, re-engaging as the wheels straighten ensuring maximum traction, reduced soil structure damage and allowing a high degree of operator convenience and safety even under the toughest conditions. Automatic 4 wheel-drive control is speed related. If the radar sensor is fitted wheel slip is also taken into account.



- |               |   |                                   |                     |
|---------------|---|-----------------------------------|---------------------|
| Forward speed | Recall the memorized engine working speed | Lift the plough                   | Engage reverse gear |
| Lower plough  | Recall the manoeuvring speed              | Turn the plough (Control valve 1) |                     |



All Comfortip functions in full view.

# FULL HYDRAULIC POWER.

## ADVANTAGES

- ▶ Very high efficiency
- ▶ On-demand oil supply
- ▶ Load sensing system reduces heat and load on the transmission and hydraulic components
- ▶ Very high flow rate of 120 l/min – removable oil volume of 40 l
- ▶ Four mechanical or electrical (ProfiLine) remote valves as standard
- ▶ The remote valves are integrated into the control management system
- ▶ Vibration damping and non-pressurized return as standard
- ▶ Direct connection of third-party devices (Power-Beyond) as an option
- ▶ Very high lifting force of 9,2 t
- ▶ Mechanical lower link stabilization in work; automatic lateral stabilization when raised

THE HYDRAULIC POWER AND LIFTING POWER SATISFY THE HIGHEST DEMANDS.



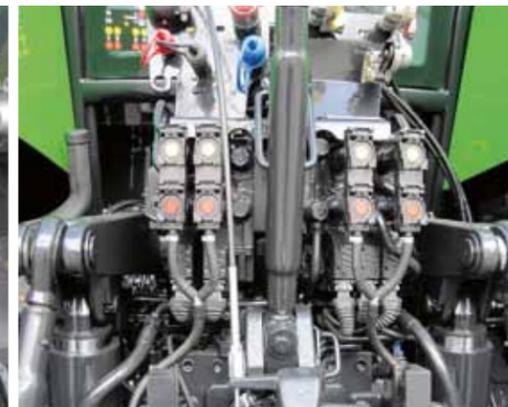
Up to six remote valves can be operated.



The rear controls on the ProfiLine versions can include controls for an additional remote valve to order.



To order the Agrotor M can be fitted with Power-Beyond connectors for the direct connection of third-party devices.



Clear layout: the hydraulic connections at the rear.

**You can never have enough hydraulic power. With this in mind the Agrotor M is fitted as standard with closed center loading sensing hydraulic system which satisfies the very highest demands with a delivery rate of 120 l/min and a system pressure of 200 bar.**

### Load-Sensing hydraulic system

A pressure and volume-controlled load-sensing and hydraulic system is supplied as standard. The system runs with an axial piston variable displacement pump that is controlled by the respective implement. When the consumer draws off oil, the system pressure drops and

only then does the variable displacement pump instantly provide more oil so that the pressure required by the consumers is maintained. The consumer with the highest pressure requirements determines the current system pressure. The delivery rate may be up to 120 l/min; the removable oil volume is 40 litres.

### Smooth road travel

During fast road travel, vibrations and oscillations can occur in the hydraulic system caused by bouncing of the implement. These can have a considerable detrimental effect on driving safety and comfort. The Agrotor has, as standard

a vibration absorber, which automatically registers all vibration at speeds of more than 8 km/h, and compensates and reduces these by selective and fast counteraction by the powerlift.

### Tremendous lifting power

Large-dimension lift cylinders provide a tremendous lifting force of up to 9.2 t. Fast, sure and safe implement coupling and uncoupling is also possible by additionally actuating the powerlift buttons on the rear mudguard. The coupling of heavy implements is easier with Cat. II/II fast couplers.

### Electronic control

All Agrotor M tractors are equipped with an electronic powerlift control (EHR) as a standard feature. Its functions and sensors are continuously monitored by an integrated diagnostic system. When the powerlift is activated, the system automatically runs a self-check with this diagnostic programme. The actuator of the EHR is integrated within easy reach in the armrest or the PowerComS control lever. The following functions are automatically monitored: draft and position control, mix control, free floating, fast penetration, slip control (with fitted radar sensor), vibration damping, transport locking, external

control switches, lifting height limitation, lowering speed control.

### Six additional remote valves to order

The Agrotor M is equipped as standard with four mechanical single and double-acting remote valves, each with four functions. They are controlled using cross levers (1+2) and single levers (3+4) and have four functions (lift, lower, neutral and float setting). The ProfiLine versions are fitted with up to six electrical remote valves. These are controlled either using the PowerComS control lever, the joystick or the scroll wheels in the side console.

### Power-Beyond

With the power beyond connection an uninterrupted flow of oil can be routed from the axial piston pump directly to a consumer. Implements, which have a separate load-sensing capable control unit, can be connected at this point. As a result devices such as a potato harvester, air-seeder or self-loading forage wagon can be directly supplied with oil from the axial piston pump, uninterrupted by other remote flow requirements.

# ECONOMICAL: THE 4-STAGE PTO.

## ADVANTAGES

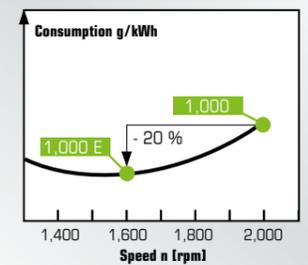
- ▶ Automatic deactivation when the rear powerlift is raised and automatic activation when it is lowered; switching points can be adjusted by the driver
- ▶ Standard rear PTO with four speeds, two of which are ECO PTO's with reduced engine speed
- ▶ Economy PTO's with lower engine speed
- ▶ Simple adaptation to different cardan shaft profiles
- ▶ Modulated start-up

**THE CONSISTENT USE OF ECO PTO'S SAVES UP TO 12% FUEL CONSUMPTION AND REDUCES WEAR AND NOISE.**



## Specifications of the rear PTO – Agrottron M

Clutch	Multi-plate clutch, oil-immersed
Actuation	electrohydraulic
Speed selection	In the cab from driver's seat
Output shaft	6 or 21 section profile 1 3/8"
Speeds	Corresponding engine speed (rpm)
540	2,005
540 E	1,608
1,000	1,995
1,000 E	1,600



With the economy PTO the Agrottron runs in the optimum consumption range of 1,600 rpm. The speed is lowered by 20% and the consumption by around 12%.



Safe operation: Speeds are selected from the cab.

**The Agrottron is one of the few tractors in its class to have a four speed rear PTO as a standard feature: (540/540 E/ 1,000/1,000 E rpm) effectively covering a wide range of applications.**

The PTO can be operated from the cab and also with pushbuttons on the rear mudguard. The electrohydraulic control

ensures modulated, low-wear PTO start-up. When the rear powerlift is raised the PTO is automatically switched off. In the ProfiLine version the PTO is also automatically switched on when the hydraulic system is lowered. This prevents operation faults and reduces wear on the implements.

### Savings are standard – for all jobs

With the lower engine speeds the economy PTOs (540 E and 1,000 E) not only lower fuel consumption but also the strain on the engine and noise emission. This also has a positive effect on the driver and the environment. Perfectly matched to the transmission, the working range of the economy PTO is always

within the lowest fuel consumption range and is – due to the DEUTZ engine characteristic curve – still at a very high power and torque level. The economy PTO therefore provides sufficient power for all but the heaviest assignments.

### Front PTO

The optional front 1,000 rpm PTO is driven directly by the engine and electrohydraulically activated at the touch of a button, working independently of the rear PTO. Due to the modulation of the wet multi-plate clutch, implement start-up is always smooth and independent of the load.



Fast replacement: The screw-connection PTO stub.

# COMFORT FOR LONG WORKING DAYS.

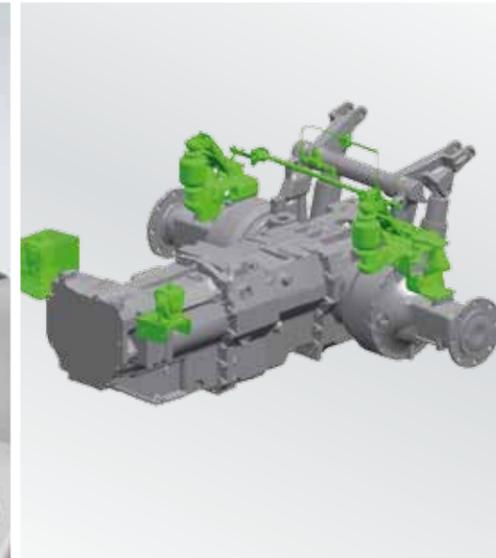
## ADVANTAGES

- ▶ Improvement in driving safety and enhancement of driving comfort
- ▶ Reduces unhealthy vibration for the driver
- ▶ Reduction of the torsion and rolling motion and therefore less strain on the cab and drive train
- ▶ Automatic rapid reaction, high speed suspension adaptation to all the road, field or load conditions
- ▶ Shift of the tractor's centre of gravity towards the front
- ▶ Closed-circuit low-maintenance suspension system
- ▶ Non-wearing damping system

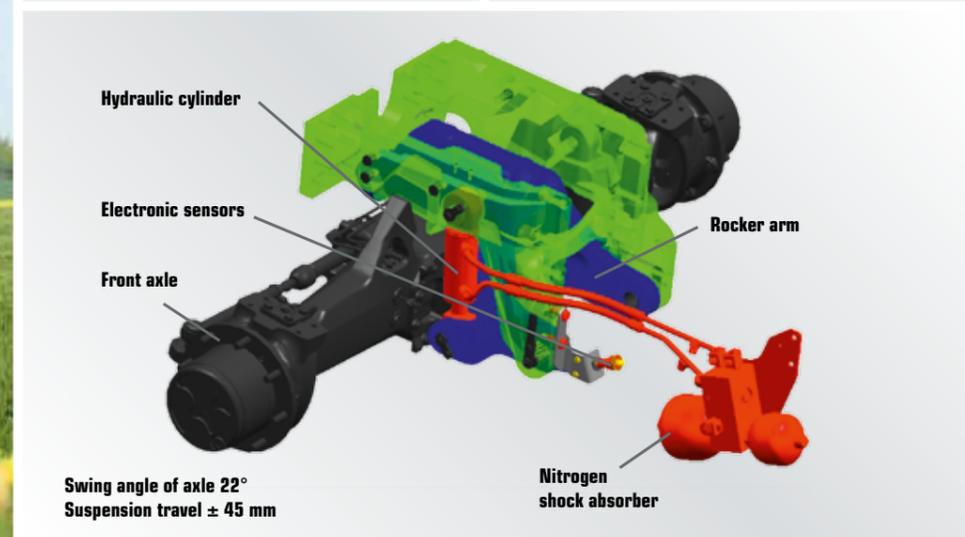
## THE CAB AND SUSPENSION CONCEPT MAKE THE AGROTRON M UNIQUE.



The air-suspended comfort seat offers more than 11 different functions to make it easy for the driver to find his individual, comfortable seating position.



The finest travelling comfort – superb pneumatic cab suspension.



Swing angle of axle 22°  
Suspension travel ± 45 mm

Comfortable and safe: The Agrottron M has hydro-pneumatic front axle suspension.

### Front axle suspension

In the 50 km/h version the Agrottron has front axle suspension as a standard feature (40 km/h on request). Driving safety and comfort are considerably enhanced by the suspension. The front axle is a swing axle supported in a rocker arm and uses two hydraulic cylinders to give

the suspension movement. Suspension is hydro-pneumatic. Two pressure shock-absorbing reservoirs are provided in the closed circuit. The swing and steering angles of the front axle are not affected by the suspension. Suspension and swing angle are independent of one another. Importantly the suspension is

progressive, i. e. its effect is heightened with an increase in speed.

### Mechanical cab suspension (std)

With the mechanical cab suspension the vibration stress for the driver is reduced by one third and the vibration and jolting which negatively affects the driver's health is also reduced.

### Pneumatic cab suspension (Profiline)

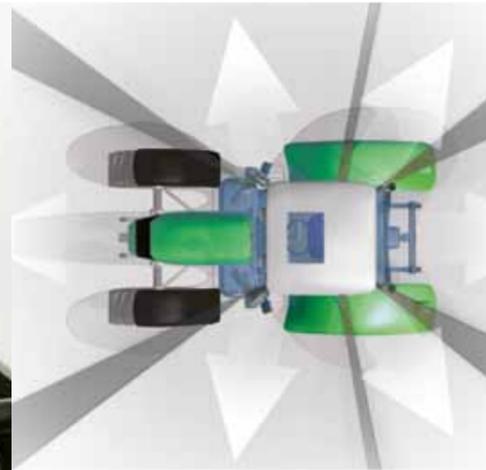
The cab suspension with load-sensing level control is supplied from the tractor's compressed air system and permits optimum driving comfort. Irrespective of the cab load, the full suspension travel of 80 mm is always available, reducing vibration considerably even at

low speeds. The pneumatic cab suspension provides a very high degree of comfort, comparable to that of a modern truck. With the perfect coordination of front axle and cab suspension plus the driver's pneumatic seat the Agrottron provides unprecedented suspension and driving comfort.

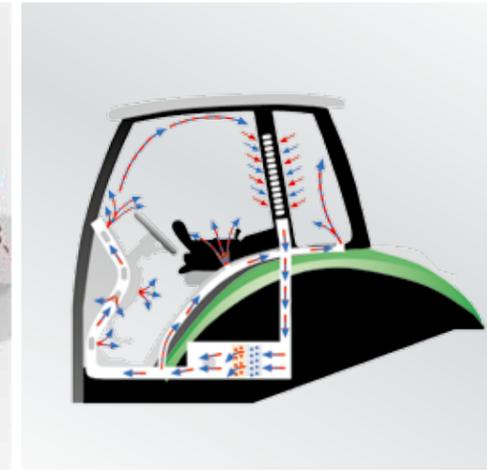
# INVITING IN ALL RESPECTS.

## ADVANTAGES

- ▶ Extensive cabin glazing of 6,5m<sup>2</sup>; unique panoramic view of 320°
- ▶ The glass roof hatch permits an unobstructed view when working with front loaders
- ▶ Up to 13 working headlights at the front and rear for safe illumination of working areas
- ▶ Xenon headlights to order
- ▶ Overhanging cab roof for improved shade, effective drip protection when doors and windows are opened and less screen soiling
- ▶ Cable lead-in when rear windscreen is closed
- ▶ Air conditioning as standard feature
- ▶ Pressurised cab with two filters for dust and contaminants



A cab design that still sets standards: With a panoramic view of 320° and cab glazing of 6,5 m<sup>2</sup> the spacious panoramic cab of the Agrottron is one of the largest available.



A total of 14 adjustable air nozzles ensure quick demisting and a pleasant atmosphere in the cab.

**Relaxed and productive work requires room for movement and a clear arrangement of all operating elements. With the spacious panorama cab DEUTZ-FAHR has created a real trendsetter that, in addition to the unique all-round view, provides all creature-comforts, making work a real pleasure.**

Simple and safe anti-slip, galvanised steps and wide-angle door opening range ensure safe mounting and dismounting. The interior exudes an atmosphere of comfort and a feeling of spaciousness that once more sets standards in tractor design. The orthopaedic, low-frequency seat and the optional pneumatic cab suspension are only two of the important design features of the modern cab.

### Lighting

The cab and entrance area are illuminated automatically when the door is opened so that the driver can enter and exit safely in the dark. The effective Agrottron lighting also enhances safety and confidence, increasing productivity with improved illumination for night work. A maximum of 15 main and work-

ing headlights on the front and rear illuminate an area of up to 500 m<sup>2</sup> around the tractor.

### Instructor's seat

The standard, folding instructor's seat is perfectly integrated into the cab entrance, a safety bar, handle and child lock in the door make this seat also extremely safe. An integrated compartment in the seat backrest provides room for documents.

### Noise silencing

With its low interior noise level the Agrottron is one of the quietest tractors in its class. This is achieved with basic design features such as engines with low noise emission and consistent exclusion of noise-emitting and noise-transferring components from the cab. An additional insulating wall between the engine compartment and the single-cell, full-body cab considerably improves noise insulation.

### Impressive air conditioning

The powerful 4-stage heating and ventilation fan of the Agrottron cab has a capacity of up to 580 m<sup>3</sup>/h and ensures a constant and pleasant working atmosphere in next to no time. Fresh air

is drawn in through filtered intake openings in the left and right-hand B-struts. Short, insulated air ducts distribute the air selectively through 14 adjustable nozzles. The Agrottron is equipped with an environmentally-friendly compact air conditioning system that guarantees fast temperature adjustment; you can switch over from fresh to circulating air and defrost the windows with dehumidified air. A slight overpressure in the cab also prevents the ingress of dust or contaminants. Tinted windows and roller blinds on the front and rear windscreens protect the driver from excessive exposure to the sun's rays. Additional shading is provided with an overhanging roof.

# EVERYTHING UNDER CONTROL AND IN FULL VIEW.

## ADVANTAGES

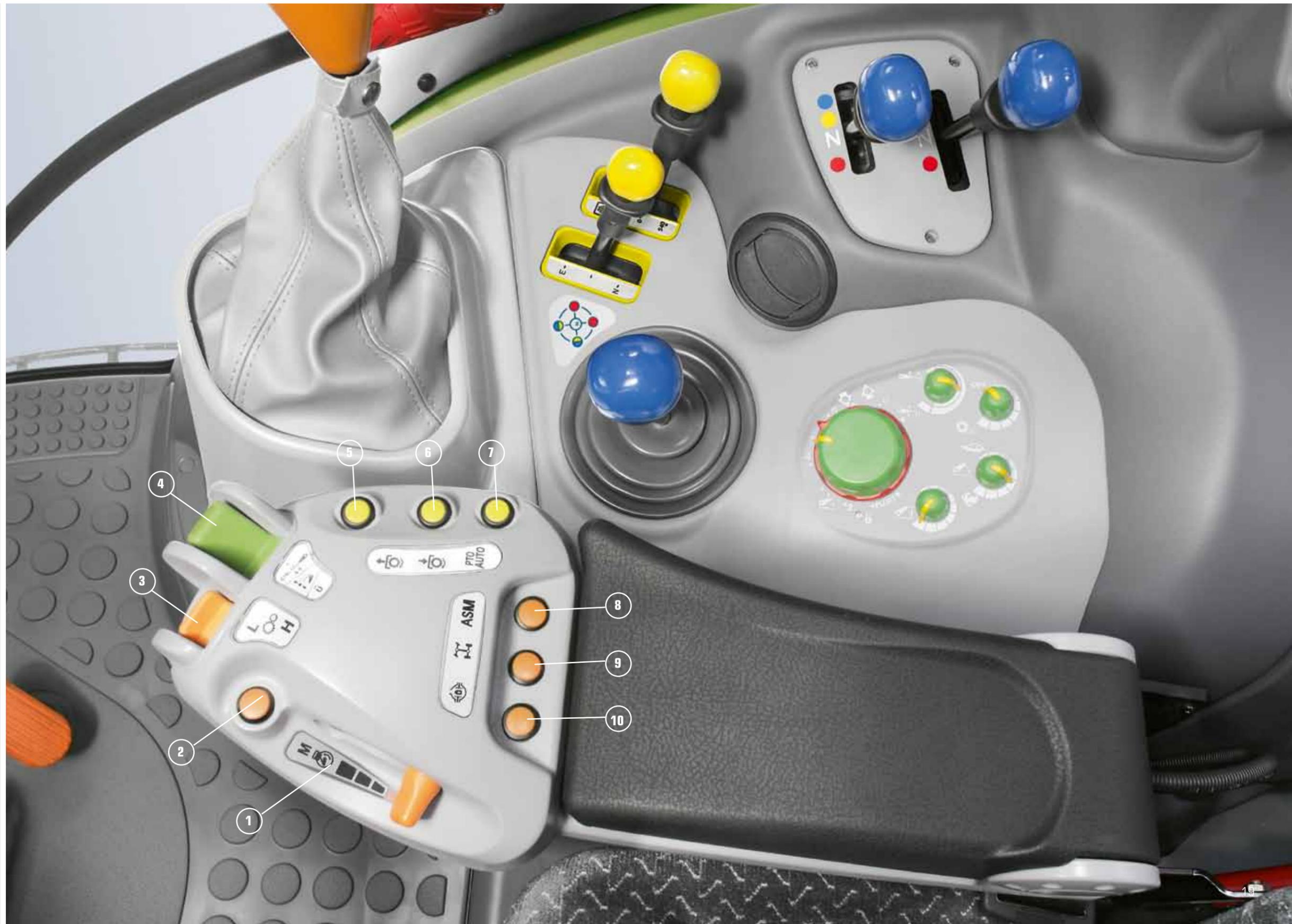
- ▶ Ergonomically designed workplace for safe operation using perfectly clear control elements
- ▶ Control elements clustered to form function groups
- ▶ Powershuttle in easy reach to the left of the steering wheel
- ▶ Fast, individual adjustment to the driver's needs with adjustable steering wheel, driver's seat and multi-function armrest
- ▶ Fast identification of all operating functions due to the easily read display and a clear view of the instrument panel
- ▶ Air-conditioning system has switchover from fresh air to recirculated air as standard
- ▶ Low noise levels due to consistent sound insulation
- ▶ Low frequency seat air suspension with over 11 different functions and individual settings

Operating the Agrottron could hardly be more straightforward. All the levers and switches have different designs in terms of form and color, their layout is logical and clearly categorized into function groups and frequency of use in a single operating console on the right-hand side.

### The multi-function armrest

All the main control elements for actuating the EHR, Powershift, saving the engine speed and the manual throttle are integrated in the right-hand armrest. The layout of the switches and controllers is based on their priority and they are easy to distinguish by means of their form and color. The armrest can be adjusted longitudinally to suit the individual needs of each driver and enhances the ease of use. A soft red downlight illuminates the control elements whilst the tractor is in use at night.

- 1 Electronic manual throttle
- 2 Engine speed is saved
- 3 Actuation of the powershift stages (forwards / backwards)
- 4 Lifting / lowering the rear lift, activating the EHR, stop and fast penetration
- 5 Front PTO shaft On / Off
- 6 Rear PTO shaft On / Off
- 7 Automatic PTO On / Off
- 8 Drive train management (ASM)
- 9 Front drive
- 10 Differential lock



# PROFILINE FOR PROFESSIONALS.

- ADVANTAGES**
- ▶ All operating groups are colour-coded
  - ▶ The self-explanatory symbols ensure fast, intuitive operation
  - ▶ Practical operating management



- 1 Rev counter
- 2 Fuel gauge
- 3 Engine temperature
- 4 Warning and control lamps
- 5 Digital display
- 6 Warning and control lamps
- 7 Service hour counter
- 8 Speed
- 9 Speed of front PTO
- 10 Speed of rear PTO
- 11 Slip

**The info center**

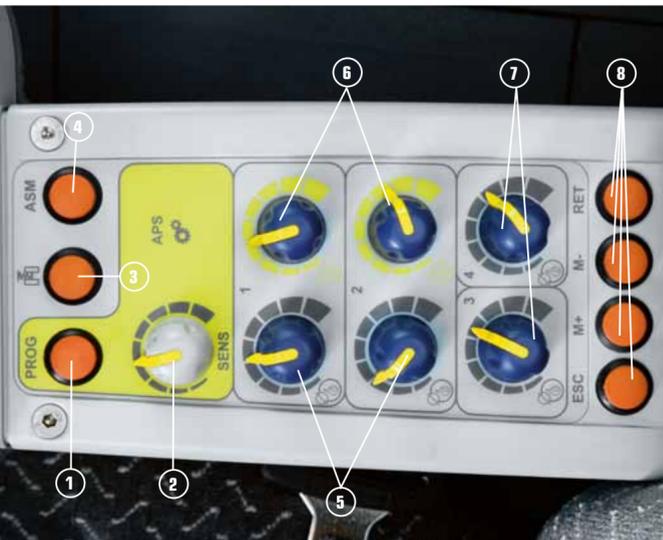
The info centre shows the driver the tractor operating status at all times. Function indicators, for example for PTO speeds and tractor speeds, are displayed in digital form and in addition servicing and error messages are displayed in both digital and text form. The engine speed and temperature and the fuel content are

shown in analog form. The non-reflective, backlit and anti-static glass guarantees that all the instruments can be read without any dazzle.

**The performance monitor (Profiline version)**

The performance monitor enables the driver to monitor the major data relating

to a job (PTO shaft on/off; powerlift adjustment; manual) in two separate memories: Working time, total area and area completed per hour, distance traveled, average speed and the average tractor load. This gives the driver an up to date summary of his productivity at all times.



- 1 APS programming
- 2 Potentiometer for APS sensitivity
- 3 Front axle suspension
- 4 Drive train management (ASM)
- 5 Flow rate adjuster for electronic control valves 1 + 2
- 6 Time adjustment for electronic control valves 3 + 4
- 7 Flow rate adjuster for electronic control valves 3 + 4
- 8 Menu keys for programming



**PowerComS-operating lever with Comfortip**

- 1 Actuation of the electrohydraulic remote valve 1
- 2 Actuation of the electrohydraulic remote valve 2
- 3 Lifting/lowering the rear lift, activating the EHR, stop and fast penetration
- 4 Direction forwards/reverse
- 5 Actuation of the Powershift stages (forwards/backwards)
- 6 Comfortip operating management
- 7 EMC (Electronic Motor Control)
- 8 Electronic manual throttle
- 9 Transmission neutral
- 10 Differential lock
- 11 Front axle drive
- 12 Joystick electronic remote valves 3+4
- 13 Activation APS
- 14 Electric remote valves 5 + 6

**There are many operating concepts on the market. However, in practice few are simple, self-explanatory and easy to learn. For this reason the DEUTZ-FAHR development engineers focused all their attention on functionality and operating simplicity.**

Every driver should, in practice, be able to use the tractor reliably and productively without extra training and after only a short period of familiarisation. For this reason the innovative PowerComS operating lever is used in the Profiline version of the Agrotron.

**Everything in one**

The new, ergonomically designed PowerComS operating lever (standard feature on the Profiline version) combines all important functions of the tractor – actuation of the Powershift stages, operation of the rear powerlift and the

hydraulic remote valves, the Comfortip operating management feature and also the reversing transmission. This means that all operating and control operations can be performed without having to take your hand from the PowerComS. The advantages are obvious – timesaving

and also, because operation is already intuitive even after a short time, you have safe and a fast reaction speed during work. Irritating grasping for controls for different operations is a thing of the past – you are able to concentrate fully on your work.

# FULLY INFORMED.



**Perfectly informed**

Clearly arranged, easy to operate and understood by intuition: the new iMonitor from DEUTZ-FAHR not only makes it easier to operate the tractor, it also offers an impressive range of new functions.

**Operation just like in a car**

The iMonitor is operated from a multi-controller which enables driver to move the individual tractor menus into position for setting and operation by pressing and turning. This operating system is similar to that now used as standard by manufacturers of premium class cars for the operation of navigation systems and similar menu-prompted components.

Clearly arranged and easy to understand. The attractive graphic displays in the black display screen are clear and logical in design, with the use of familiar symbols, to enable the driver to settle in quickly. For greater comfort the driver can operate the controls with his arm on the armrest.

**For the first time in a tractor**

With an integrated Bluetooth hands-free kit, MP3 player, integrated radio and an automatic reversing camera, it brings operating systems to tractors for the first time which are familiar and service-proven in cars. The iMonitor can also be used for ISOBUS-controlled devices as well, so that the driver would only have to keep an eye on a single terminal.



The individual Comfortip functions are quickly put together in a personal menu.

With the integrated Bluetooth hands-free kit the driver can comfortably make telephone calls while steering with both hands.

# MAY WE OFFER YOU ANYTHING ELSE?



Even though the standard equipment of the Agrottron M is already very comprehensive, it can be further supplemented. DEUTZ-FAHR supplies a coordinated range of additional and special equipment for all ranges and assemblies. Contact your DEUTZ-FAHR dealer. They will be pleased to be of assistance.

**1 Front axle with suspension: (std Profiline)** The 40km/h version can be equipped with integrated front axle suspension upon request. Driving safety and comfort is considerably enhanced by the suspension.

**2 Pneumatic braking system: (opt)** Combined 1 and 2-line system. Indispensable for road transport with trailers.

**3 I monitor (opt)**

**4 Piton-Fix: (opt)** The Piton-Fix has a pin diameter of 45 mm and has a maximum drawbar load of 3,000 kg.

**5 Swinging drawbar: (std)** This drawbar can be used in either fixed or swinging positions. Its length can be simply adjusted as required.

**6 Front hydraulics and front PTO: (opt)** The Agrottron really reveals its true versatility when equipped with front mounted implements. The integral front powerlift has a lifting capacity of up to 4.5 t and a POT shaft speed of 1,000 rpm.

**7 Up to six additional remote valves (opt)** can be operated.

**8 Power-Beyond connectors (std)** for the direct connection of third-party devices.

**9 ISOBUS preparation for mounted implement control pursuant to DIN 11786. (opt)**

# QUICK AND SIMPLE SERVICING.

## ADVANTAGES

- ▶ Long maintenance intervals
- ▶ Engine oil change every 500 hours
- ▶ Tool-free access to all important maintenance points
- ▶ Simple cooler cleaning
- ▶ Standard diagnosis feature
- ▶ Very low maintenance and operating costs, as tests in independent trade magazines have shown
- ▶ Tappet clearance check every 1,500 hours



### Fast daily maintenance

Daily maintenance is simple and completed in next to no time with the rearward opening angle of the engine cowl. Pneumatic springs keep the cowl in the open position. All important components and assemblies are easily accessible, without tools, for simple maintenance work. The engine oil level can be checked without opening the cowl. At the rear axle a large, easily visible sight glass indicates the transmission and hydraulic oil levels.

### Long maintenance intervals

The regular engine maintenance intervals are long – in fact uniquely long. The

engine oil only requires changing every 500 hours and the valve adjustment only needs checking every 1,500 hours of operation.

**1 The engine air filter** is easily accessible. The air intake, situated in a low-dust area and the ejector dust separation feature, ensure that the maintenance intervals of the filter are very long.

**2 The transmission and hydraulic oil levels** are visible in a large sight glass. The indicator is easily visible.

**3 All fuses and switching relays** are

well protected in the cab and are easily accessible in the right-hand rear fender panel.

**4 The compact cooler system** is simply and easily opened up in three steps for cleaning.

**5 Both cab air filters** are located at easily accessible positions in the B struts. The filters can be cleaned and replaced without tools. Active carbon, aerosol filters are available upon request.

**6 The oil filler** and dipstick are easily accessible. Long maintenance intervals lower operating costs.

# SURE AND SAFE WITH ORIGINAL DEUTZ-FAHR SERVICE AND PARTS.



## **Original service is wise.**

Only your DEUTZ-FAHR specialist dealer knows your tractor inside and out. Only your dealer has regularly trained mechanics and experts on call. Only dealers have the special tools and diagnostic equipment required for competent diagnosis and inspection. All this gives you peace of mind – without doubt.

## **Original parts make good sense.**

As you placed your trust in the original tractor, we recommend you use original 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.

## **DEUTZ-FAHR lubricants**

We recommend genuine DEUTZ-FAHR lubricants. The outstanding quality of this product range, which is made exclusively for DEUTZ-FAHR, ensures that your tractor always receives exactly what it needs.



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

This printed material is designed for international use. The illustrations it contains show both special equipment and incomplete standard equipment. The availability of some illustrated models, standard and special equipment can vary from country to country. Only the dealer's price list stipulates whether such illustrated equipment is included as a standard feature or whether it is a special accessory. In addition the illustrated mounted implements and special accessories may not always comply with the respective statutory regulations. It is the responsibility of the customer – after consultation with the dealer – to verify this, taking the operating instructions into account. All information and illustrations in this brochure are subject to correction; errors excepted. Furthermore all information contained in this brochure is not binding and is subject to modifications of a technical and commercial nature or those resulting from statutory regulations. No claims whatsoever can be derived from these. SAME DEUTZ-FAHR DEUTSCHLAND GmbH reserves the right to make any changes to the design and technical construction and also the scope of standard equipment at any time and without prior notice.

Version 001

 **PFG AUSTRALIA**  
PFG Australia Pty Ltd

**P** +61 (03) 9368 8888 **F** +61 (03) 9368 8899

**W** [www.deutztractors.com.au](http://www.deutztractors.com.au)

1/539 Mt Derrimut Road, Derrimut Victoria 3030



**GERMAN ENGINEERING**