Agrotron M SERIES

DEUTZ-FAHR
Agrotron M 600 - 620

AGROTRON M – IN

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 Agrotron a full-system tractor for combined applications. Mounting of front implements is simple.

24 MONTHS WARRANTY

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

DCR®

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

AGRex®

External exhaust gas recirculation reduces consumption.

B100

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

FULL COMMAND.

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.

40 km/h with lowered engine speed

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

50

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

4PTO

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

SAVE DIESEL · DRIVE DEUTZ

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

SUPERB POWER AND ECONOMY.

40 km/h with lowered engine speed

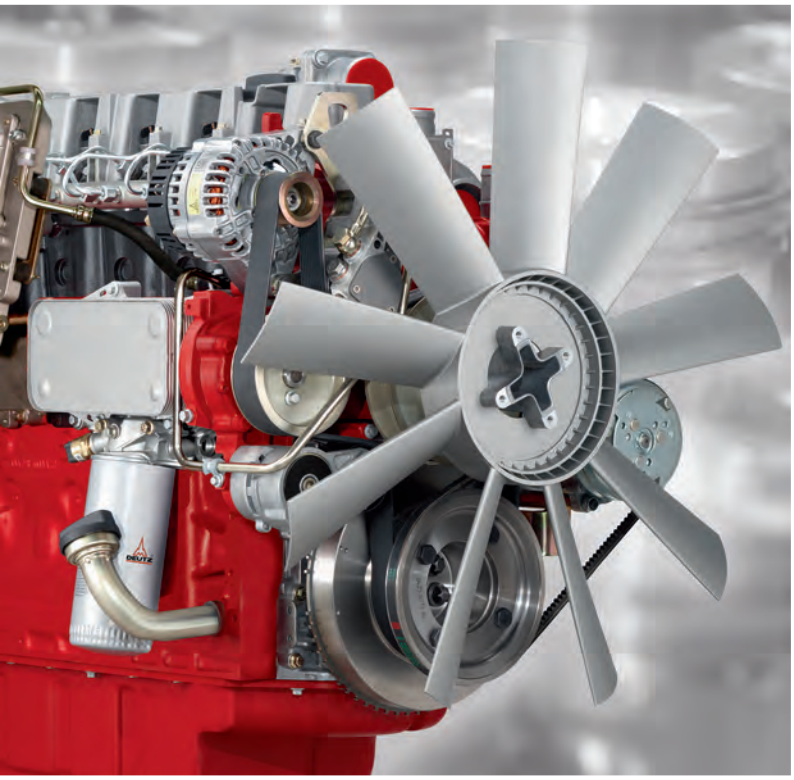
AGRex®

DCR®

B100

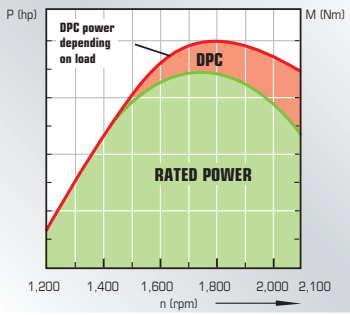
ADVANTAGES

- **Modern, high-propulsion and fuel-efficient DEUTZ 2-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 manufactorer 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.

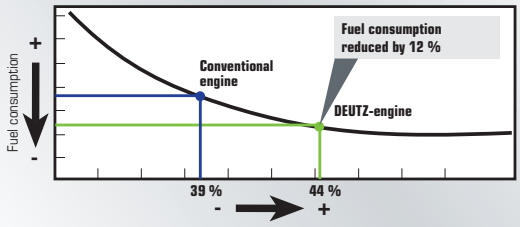
DEUTZ-FAHR Power Control (DPC)



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 30,000 l/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 Agrotron 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 1,680 rpm. That saves fuel and protects the driver's ears.

TAKING THE BURDEN OUT OF SHIFTING.

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.

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

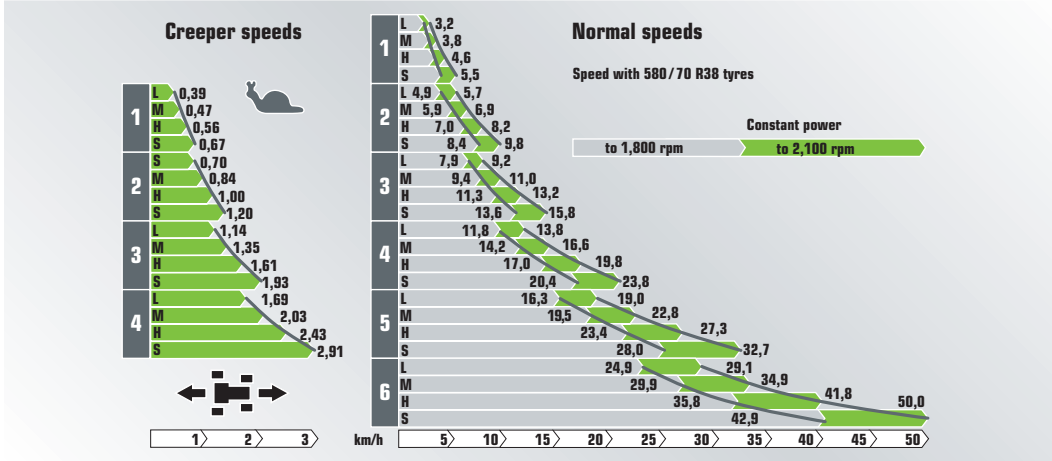
With 40 forward/reverse speeds the transmission has very close ratios to suit all practical requirements. The possible speed range – depending on the type and tyres – is from 390m/h to 50km/h. In the working range alone from 4-15km/h the transmission has 10 speeds. The top standard speed is 50km/h and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

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**
- **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.**

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.

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.

FULL HYDRAULIC POWER.

THE HYDRAULIC POWER AND LIFTING POWER SATISFY THE HIGHEST DEMANDS.

You can never have enough hydraulic power. With this in mind the Agrotron 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 120l/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 Agrotron has, as standard a vibration absorber, which automatically registers all vibration at speeds of more than 8km/h, and compensates and reduces these by selective and fast counteraction by the powerlift.

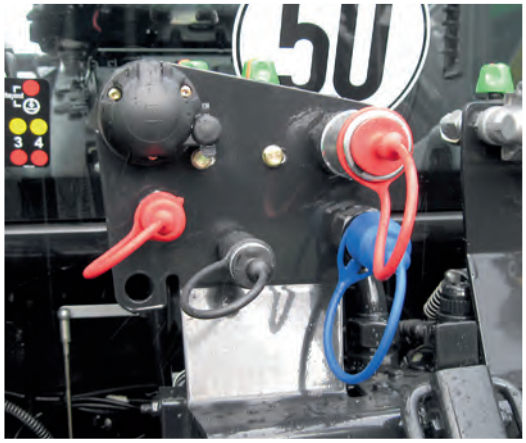
Tremendous lifting power
Large-dimension lift cylinders provide a tremendous lifting force of up to 9.2 t. Fast, sure and safe implement coupling and uncoupling is also possible by additionally actuating the powerlift buttons on the rear mudguard. The coupling of heavy implements is easier with Cat.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

ADVANTAGES

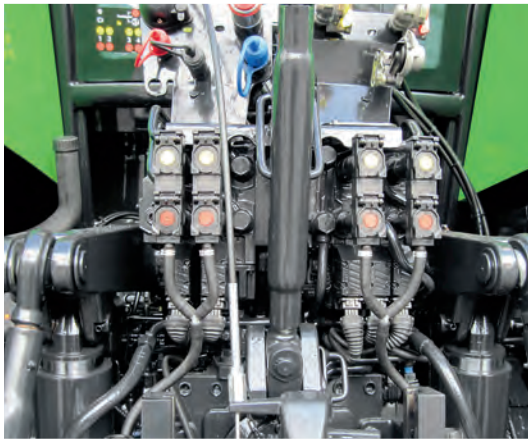
- Very high efficiency
- On-demand oil supply
- Load sensing system reduces heat and load on the transmission and hydraulic components
- Very high flow rate of 120 l/min – removable oil volume of 40 l
- Four mechanical or electrical (ProfiLine) remote valves as standard
- The remote valves are integrated 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

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



Clear layout: the hydraulic connections at the rear.

Electronic control

All Agrotron 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 Agrotron 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.

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

The Agrotron is one of the few tractors in its class to have a four speed rear PTO as a standard feature: (540/540E/1,000/1,000E 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

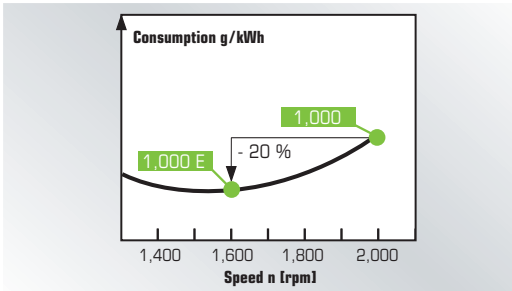
With the lower engine speeds the economy PTOs (540E and 1,000E) not only lower fuel consumption but also the strain on the engine and noise emission. This also has a positive effect on the driver and the environment. Perfectly matched to the transmission, the working range of the economy PTO is always

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**

Specifications of the rear PTO – Agrotron 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 Agrotron 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.

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.

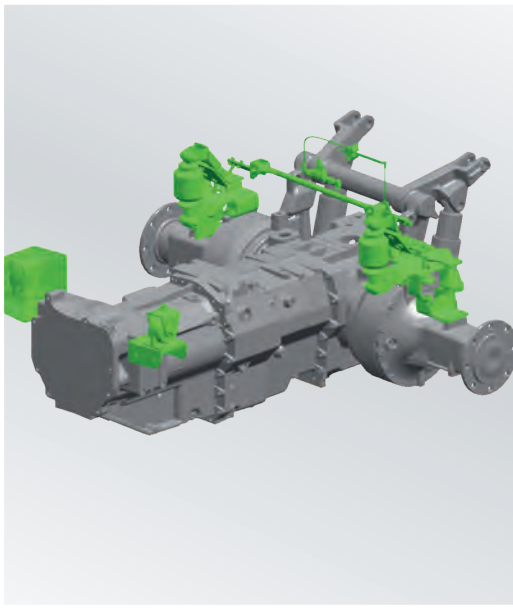
THE CAB AND SUSPENSION CONCEPT MAKE THE AGROTRON M UNIQUE.

Front axle suspension
In the 50 km/h version the Agrotron 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.

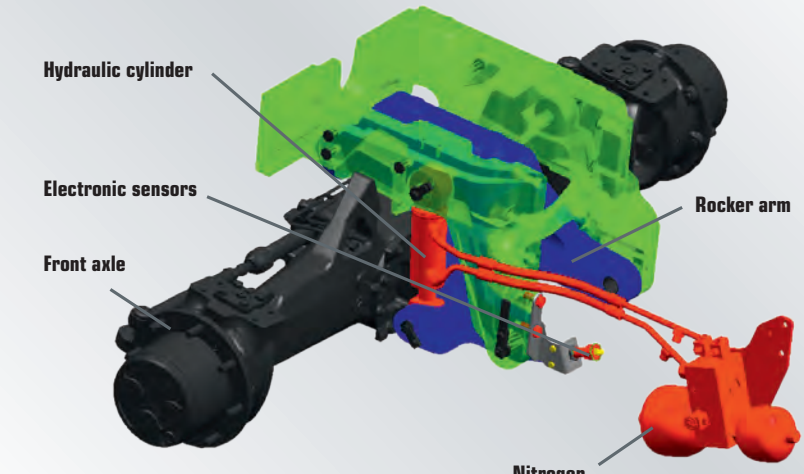
ADVANTAGES

- 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 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 cab suspension.



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

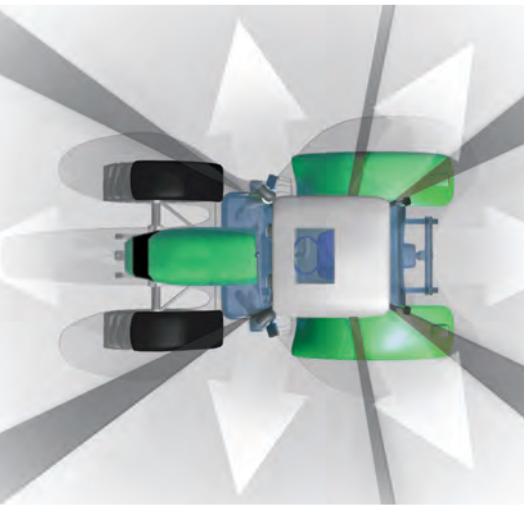
Mechanical cab suspension (std)

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.

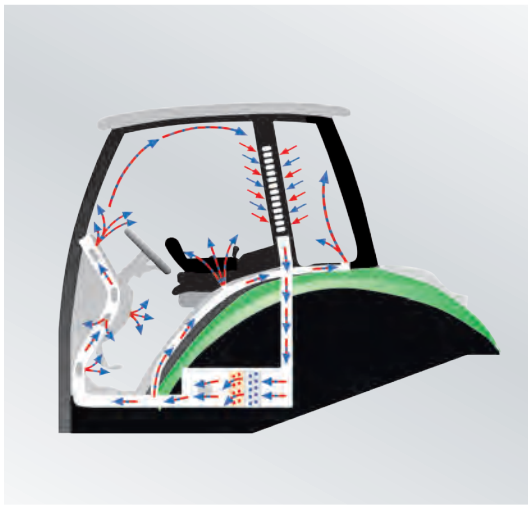
INVITING IN ALL RESPECTS.

ADVANTAGES

- **Extensive cabin glazing of 6,5m²; 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 m2 the spacious panoramic cab of the Agrotron 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 Agrotron lighting also enhances safety and confidence, increasing productivity with improved illumination for night work. A maximum of 15 main and working headlights on the front and rear illuminate an area of up to 500 m² 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 Agrotron 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 Agrotron cab has a capacity of up to 580 m³/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 Agrotron 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.

Operating the Agrotron 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. An 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**

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

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**


1

2


3


4


5


6

Fast daily maintenance
Daily maintenance is simple and completed in next to no time with the rearward opening angle of the engine cowling. Pneumatic springs keep the cowling 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 cowling. 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 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.

TECHNICAL DATA
AGROTRON M
600 • 620

Type designation		600	620
Engine			
Liquid-cooled DEUTZ diesel engine	Type	TCD 2012 L06 2V	TCD 2012 L06 2V
Cylinders/cubic capacity	No./cm³	6/6,057	6/6,057
Bore/stroke	mm	101/126	101/126
Injection system		DCR (DEUTZ Common-Rail) with 1,600 bar injection pressure and 7-hole-injectors	
Homologated power (2000/25 EC)	hp	132	163
Power Boost	hp	9	3
Rated engine speed	rpm	2,100	
Maximum torque	Nm	599	659
Constant torque range	rpm	1600-1100	1,700-1,100
Power at maximum torque	kW/PS	88/120	110/149
Constant power range	rpm	1,700-2100	1,800-2,100
Air intake		on the A-strut, left hand	
Tank capacity	l	270	
Engine oil fill data/changing intervals*		14/500 h or annually	
Cab			
Cab		Integrated, sound-proofed safety cab	
Noise level	dB (A)	70	
Multifunktionsarmlehne		standard	
Air conditioning		standard	
PowerComS armrest		Standard ProfiLine version	
iMonitor operating terminal		Option with ProfiLine version	
Automatic steering guidance		on request Agrosky with an accuracy of ±2 cm	
Cab suspension mechanical or pneumatic		Mechanical (standard) / pneumatic (Profiline)	
Electrical system			
Voltage	V	12	
Three-phase alternator	W/A	14/150	14/200
Starter	V/kW	12/4	
Battery	V/A	12/180	
ISOBUS implements operation (DIN 11783)		on request preliminary setup for terminal or via iMonitor	
Chassis, brakes, steering			
Front axle drive system		Central drive	
Front axle suspension	50 km/h	standard	
Front axle suspension	40 km/h	on request	
Front axle control front/rear	ASM	Fully automatic control with speed, steering angle, individual wheel braking and slip (100% locking); can be deactivated	
Service brake	front/rear	Automatic activation of front drive 4-wheel braking	
Power brake unit		standard	
Steering angle		52°	
Steering		Load Sensing with separate pump (42l/180bar)	
Hydraulic system			
System		Open centre and Closed centre load sensing	
Oil reservoir		Shared with transmission	
Pump flow rate	l/min (bar)	Open centre 83 (refer to spec). Load Sensing 120 (200)	
Available oil quantity	l	max. 40	
Front PTO - OPT			
Operation/Sense of rotation		electro-hydraulical/right	
Speed at 1,960 rpm engine speed	rpm	1,000	
Rear PTO			
Clutch		Oil-immersed, modulating start-up	
Actuation		electro-hydraulic shifting, Automatic function	
PTO stub		bolted	
Profiles		1⅜" PTO 6-spline shaft or 1⅜" 21-spline	
Engine speed 540/1,000 u. 540E/1,000E		1,995 and 1,610 rpm	
Remote control		on rear mudguard left (and right with wide mudguards)	

* 250 h with bio-diesel

Type designation		600	620
Transmission			
Type		ZF - 7,200; 6-speed range transmission; synchronized	
Powershift		4-speed powershift	
Automatic Powershift		with ProfiLine version - Standard	
Powershuttle reversing transmission		standard	
Max. speed	40/50 km/h	Adjustment with engine speed controller max. Speed 40 km standard. 50 km/h Profiline version	
No. of gears (with creeper gear)	F/R	24/24 standard (40/40 Profiline version)	
Vibration absorbers		Hydrodamp torsion damper	
Clutch		Multi-plate clutch, oil-immersed	
Powerlift			
AGROTRONIC-hD		Draft control/position control/mix control/float/diagnosis/vibration damping/slip control	
Category of 3-point hitch, rear		II/III; fast action couplings	
Lifting force rear	kg	9,200	
Remote control of rear powerlift		standard on mudguard, left and right	
Front powerlift (upon request) – lifting force	kg	4,000	
Cat. 3-point hitch, front		II; fast action couplings	
Hydraulic remote valves			
Quantity		4 sets standard; 5 or 6 upon request	
Parallel operation		standard	
Functions		Double-acting with floating position, can be coupled under pressure	
Actuation		cross lever, 2 single lever	
Electr. actuation with ProfiLine		2 using button in PowerComV control lever, 2 using proportional joystick on ProfiLine	
Flow rate		4 control units mechanically adjustable/4 control units electrically adjustable on ProfiLine	
Throughflow time		2 control units electrically adjustable on ProfiLine	

*Speeds Agrotron M 600/615	Creeper speed				Normal			
	L	M	H	S	L	M	H	S
1	0.40	0.48	0.57	0.68	3.24	3.89	4.65	5.58
2	0.71	0.86	1.02	1.23	5.84	7.00	8.38	10.04
3	1.15	1.37	1.64	1.97	9.36	11.22	13.43	16.11
4	1.73	2.07	2.48	2.97	14.11	16.91	20.24	24.27
5	–	–	–	–	19.40	23.26	27.84	33.38
6	–	–	–	–	29.68	35.59	42.60	50.00

**Speeds Agrotron M 650								
	L	M	H	S	L	M	H	S
1	0.39	0.47	0.56	0.67	3.18	3.82	4.57	5.48
2	0.70	0.84	1.01	1.21	5.73	6.87	8.22	9.86
3	1.12	1.35	1.61	1.94	9.19	11.02	13.19	15.82
4	1.69	2.03	2.43	2.92	13.85	16.61	19.88	23.83
5	–	–	–	–	19.05	22.84	27.33	32.77
6	–	–	–	–	29.15	34.95	41.83	50.00

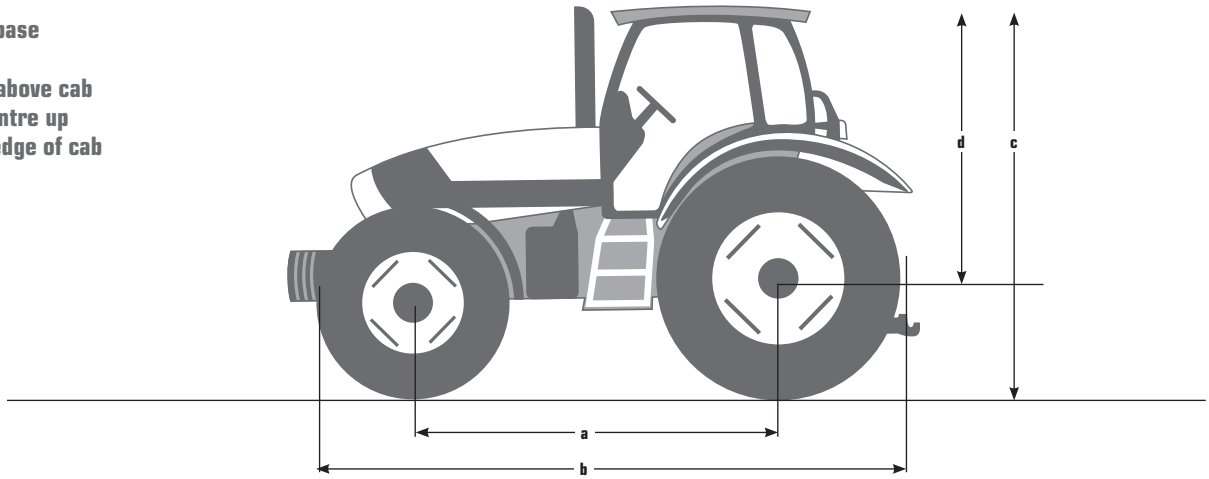
*Tyres 18.4 R 38; ** Tyres: 20.8-42. All speeds are identical both forwards and reverse.

TECHNICAL DATA

AGROTRON M

600 • 620

a Wheel base
b Length
c Height above cab
d Axle centre up to top edge of cab



Type designation	600	620
Dimensions in mm		
a Wheel base	2,647	2,647
b Length with lower link	4,587	4,587
c Height above cab	3,054	3,054
d Axle centre up to top edge of cab	2,149	2,149
Width across tyres (max.)	2,540	2,540
Ground clearance	520	520
Weights in kg		
Total unladen weight	5,530	5,810
Total perm. weight front axle	4,200	4,700
Total perm. weight rear axle	6,500	7,100
Total perm. weight 40 km/h	9,500	10,300
Total perm. weight 50 km/h	8,500	9,000
With front axle suspension: +200 kg; cab suspension +25 kg; front powerlift: +300 kg; front PTO +80 kg; hydraulic brake system +50 kg; front ballast carrier +330 kg		
Tyres, wheels, track widths		
Normal wheel (ex works)	**Track widths (mm)**	
14,9R24 16,9R38	1,700 f 1,600/1,700 r	1,700 f 1,600/1,700 r
480/70R24 520/70R38	1,800 f 1,800 r	1,800 f 1,800 r
16,9R24 18,4R38	1,800 f 1,800 r	1,800 f 1,800 r
540/65R24 600/65R38	1,900 f 1,850 r	1,900 f 1,850 r

Type designation	600	620
Tyres, wheels, track widths		
Normal wheel (ex works)	**Track widths (mm)**	
480/70R34 580/70R42		
540/65 R 28 650/65 R 38		1,900 f 1,850 r
540/65 R 30 650/65 R 38		
540/65 R 34 650/65 R 42		
600/70 R 30 620/70 R 42		
600/70 R 30 650/65 R 42		
600/70 R 30 710/75 R 34		
600/70 R 30 710/70 R 38		
Permissible tyre combinations with plate wheels*		
230/95 R 32 230/95 R 48	X	X
270/95 R 32 270/95 R 48	X	X
230/95 R 36 270/95 R 48	X	X
270/95 R 32 300/95 R 46	X	X
270/95 R 38 300/90 R 50	-	-
270/95 R 42 270/95 R 54	-	-

* Available standard tyre combinations are given on the current valid price lists. For exact specifications please consult your local Deutz-Fahr dealer.

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