Farm managers and service providers want to earn money. After all, work is only fun if it earns money. In pursuit of this aim, today’s managers have to make far-reaching decisions which always directly affect the operating results of their agricultural businesses.

The process of deciding on a new machine is often a long one of collecting data and information and consulting friends, advisors and associations. Ultimately decisions are, however, always made for rational reasons, as all aspects which safeguard the success of the business must be taken into account. It is therefore advantageous if a decision can be made for a strong brand with a rational tractor concept which concentrates on one thing – the success of its customers – by providing cost-effective technology which does justice to practical requirements. With a wealth of experience gained from more than 80 years of major technological leadership in the agricultural machinery industry, the Agrofarm is an example of such rational technology.

The universal tractor class
The new Agrofarm series has been specially designed for grassland, field maintenance and farmyard use and offers particular advantages in the compact medium class: Great flexibility, a low center of gravity and high maneuverability, clear sight lines, easy handling as well as maximum economic efficiency and productivity, offering great value for money.

The Agrofarm is a universal tractor which comes with practical equipment. With economic, reliable DEUTZ engines fitted in the two available equipment variants, it is a match for the requirements of any farm, whether full-time or part-time operations. The various cab roof options and the resulting low height make this series suitable for small building entrances. With a practical range of transmission, a professional hydraulic system and unbeatably low operating and maintenance costs, the Agrofarm is a genuine all-round talent.
Today’s farmers can rely on DEUTZ-FAHR to give them a comfortable workplace in every tractor class. The Agrofarm also boasts a generously configured compact cab and ergonomic operation – suitably designed in friendly colors and high-quality materials.

An exemplary workplace: Safe cab access with a large door opening angle, anti-slip, solid steps. Excellent freedom of movement and clear view of all important operating and control elements. Additional comfort with optional air-sprung driver’s seat for relaxed and concentrated work. This ergonomic driver’s workplace also naturally includes the softly padded driving wheel, located within easy reach. Adjustable in tilt and reach (not in all versions), it can be optimally adjusted to the height of any driver.

Well informed
The clear, non-glare information display provides constant information on all relevant values and operating statuses of the tractor in both analog and digital form. Speed, PTO speed, operating hours and mileage are shown on an easy-to-read digital display.

Everything in sight
The tractors are characterized by their compact, low design and excellent maneuverability. Good lines of sight in all directions due to the shaped, sloping bonnet and narrow cab uprights as well as large glazed areas.

Everything at hand
All operator elements are conveniently located on the right next to the driver’s seat. They are arranged in functional groups and can be operated almost intuitively after even just a short time. All the levers of a functional group are the same color, eliminating the possibility of confusion and enhancing operational reliability. It doesn’t take long to get a grip on the Agrofarm.

First-class air conditioning
The best air conditioning in all weather conditions. The outside air is effectively filtered over a large surface. In addition to the three-stage fresh air blower and the efficient heating system, the Agrofarm tractor is fitted with a high output air conditioning system.

ADVANTAGES
- Ergonomic and spacious 4 post cab with excellent panoramic view
- Operating levers within easy reach
- Efficient heating and ventilation
- High flow air conditioning system
- Low height to suit low building entrances
- Excellent view of front-mounted implements with shaped, sloping bonnet
- Open view roof simplifies front loader work
- Armrest control
Work hard and save fuel. DEUTZ engines live up to their economic reputation. After all, modern farmers expect fuel-efficient, high-power engines even in the compact Agrofarm.

The water-cooled 4-cylinder turbo diesel engines of the TCD 2012 series boast a compact design, uniform power development and low fuel consumption. Fitted with electronic engine control with programmable speeds and a modern high-pressure injection system with injection pressures of up to 1,400 bar, they deliver efficient fuel utilization, enormous efficiency and excellent emissions values. And, thanks to the 160 litre fuel tank, they are more than a match for long working days.

High torque and constant power
The engines are characterized by high torque at low engine speeds. That means the Agrofarm 420 reaches its maximum torque of 380 Nm at just 1,800 rpm and keeps it constant up to a speed of 1,400 rpm. Maximum power is reached at just 2,100 rpm. High starting torques ensure that the tractor pulls off reliably with heavy loads, even on hills.
THE RIGHT GEAR (OR SPEED) FOR EVERY ACTIVITY. PROFIライン。

One rarely has a choice with compact tractors. DEUTZ-FAHR is one of the few manufacturers which also offers two gear drive types in the compact class: A robust load switch gear drive with 60/60 gears or the new stepless TTV gear drive. No matter which you choose, the maximum speed of 40 km/h is achieved for a reduced engine speed.

Power shuttle can be adjusted individually
The gear drive is equipped with a hydraulic power shuttle which can be adjusted in five steps. With it, the driver changes the driving direction without activating the clutch. This makes front loader work and maneuvering child’s play. The Power shuttle versions also come with a comfort clutch on the shifting lever. They engage at the press of a button and shift up to 15 speeds without the clutch pedal being pressed.

Safe braking as you please
All Agrofarm models have independent oil-immersed disc brakes on the front and rear axles. The durable, maintenance-free long-life brakes also ensure the necessary safety at high speeds. The Agrofarm Profi-Line/TTV comes with a hydraulically actuated parking brake.

Advantages
- Reliable 60/60 gear EcoSpeed transmission with three under-load powershift steps
- Maximum speed of 40 km/h for reduced engine speed
- Hydraulic power shuttle with sensitivity control
- 15 speeds in the main work range
- Maintenance-free lifetime clutches for the Powershuttle
- Comfort clutch activation on the shift lever
- True four-wheel brakes for maximum performance and reliable braking

This means Eco-Speed:
Save fuel at 40 km/h
The Eco-Speed gear drive is equipped with three load switching steps. With 60 forward and 60 reverse speeds, it offers the right speed for every application. The powershift stage currently activated is displayed on the dashboard. The speed ranges from 540 m/h to 40 km/h and in the main working range from 4 to 15 km/h. 15 speeds can be selected. The maximum top speed is achieved with a reduced engine speed, which saves fuel and reduces the amount of noise.

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Hydraulic Powershuttle available on request.

The indication for the group and gears is on the display.

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Working automatically

It doesn’t get any easier: Start, drive off and work. In automatic mode, the Agrofarm TTV offers great comfort for all types of work without tedious programming. All tasks are competently and easily mastered. The selection of the desired speed is achieved using the accelerator pedal. The control of the engine speed is taken over by the engine electronics, which maintain the correct speed ready to suit the respective load conditions.

Advantage of the automatic mode

In automatic, its always easy and efficient, just like driving a car

Auto, ECO or Power: The driver decides. Depending on the type of work, the driver can adjust the basic setting of the automatic mode and specify how far the engine speed is controlled up or down.

Power take-off mode

This mode is automatically activated when the power take-off is switched on and enables efficient work at a constant PTO speed. The desired forward speed can be adjusted and controlled using the foot pedal. Advantage: The Agrofarm TTV directly and comfortably adapts the working speed to suit the operation but keeps a constant PTO speed.

Active brake control

With this function the tractor transmission keeps the tractor stationary independent of the slope or the respective loading condition without activating the operating the brake. No activation of the trailer brake occurs. In this way, the driver can safely and comfortably start and stop at any time.

Advantages

Highly efficient drive system
Long service life thanks to oil bath clutches with low transmission losses
Simple operation and easy to use
High efficiency using the latest CVT concepts and high proportion of mechanical parts
Infinite speed choice and stepless acceleration
Three driving strategies

40 km/h at reduced engine speed

The new DEUTZ-FAHR TTV gearbox.

Stepless adjustment of engine and transmission management.

Clearly laid out and driver friendly: The right hand operator panel.

ADVANTAGES

1 Manual acceleration / control lever
2 Engine speed memory
3 Cruise control
4 Speed ranges
5 EHR operation
6 Front power take-off
7 Rear power take-off
8 Power take-off automatic system
9 Power train management ASM (only Agrofarm TTV)
10 Four-wheel drive
11 Differential lock
**POWERFUL HYDRAULICS FOR TOUGH JOBS.**

Electronic lower linkage control hydraulics (EHR)

Hydraulic connections with covers and leakage tanks

Four electrically operated auxiliary control units

With flow rate and time adjustment

Proportional control of the valves

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**ADVANTAGES**

Hydraulic power you can rely on. That's because these days even a compact tractor has to handle a wide variety of jobs.

With a pump capacity of 93 l/min and a separate hydraulic circuit for the steering, the Agrofarm's hydraulic system is a match for any requirement.

The Agrofarm is supplied with a electrical lower link control as standard. The electrical control is particularly efficient and offers application-specific advantages for all farms.

Remote valves for all demands

The hydraulic system ensures practical implement use. Up to four precision-controlled, double-acting additional remote valves can be supplied for the Agrofarm. They are controlled using a joystick or single levers and, depending on the version, also feature a flow rate control system. The oil then flows to easily accessible hydraulic connections, which can be coupled under pressure and are provided with leakage oil tanks.

Up to four additional remote valves upon request.

The powerful rear linkage with 6,200 kg lift capacity for operating the heaviest implements.
MULTIFUNCTION OPERATION.

Electro-hydraulically operated PTOs
All Agrofarm tractors come with comprehensive PTO equipment as standard. Up to four power take-off shaft speeds are available: 540 / 540E / 1000 / 1000E. The required speeds are preselected in the cab and switched electro-hydraulically. Control is proportional and, thus, ensures modulated, smooth starting of the power take-off shaft. The PTO can also be operated externally at the rear fender.

ADVANTAGES
- Actuation of the PTO on both rear mudguards
- Integrated front powerlift with single or double action upon request
- Independent electro-hydraulically operated PTO
- 4 PTO speeds: 540/540E and 1000/1000E (Profiline)
- 3 PTO speeds: 540/540E/1000 (TTV)

Fully integrated, powerful front hydraulics with 1.8 t lifting force.

Four power take-off shaft speeds easily preselectable from the cab.

Electro-hydraulically operated PTO (push-button control).
Although the standard equipment of the Agrofarm is already extremely comprehensive, it can still be enhanced. 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 powerlift & front PTO: (opt) The Agrofarm unfolds its true versatile potential when equipped with mounted front implements. The integrated front powerlift boasts a lifting force of 1,800 kg, while the front PTO delivers a speed of 1,000 rpm.

2 Compressed air braking system: (opt) Indispensable for road transport with trailers. In addition to compressed air braking systems, hydraulic trailer braking systems complying with a variety of standards are also available.

3 The air conditioning (std) ensures if desired a comfortable cabin climate in all weather.

4 High visibility roof: (std) The comfort cab becomes a true open-view cab giving the best view of the front loader. The elevated front loader is easily visible through the tilting transparent roof.

5 Beacon lamp: (std) The beacon lamp, available as a factory fitting and attached to a hinged arm on the cab roof, makes an active contribution to road safety.

6 Ground-speed PTO: (opt) A ground-speed PTO is available in addition to the standard PTO equipment.

7 Powershuttle: (std) Hydraulically actuated and included as standard depending on equipment. With five adjustable settings to cover every application.

8 Hydraulic trailer (opt) braking available upon request.

9 Working headlamps: (std) Additional working headlamps provide optimal illumination of the working area at the front.

10 Ballast carrier and front weights: (opt) Front weight carriers and ballast weights guarantee optimal weight distribution for every application. A wide range of front weights is also available for use with front powerlifts.

11 Driver’s seat with air suspension: (std) For your comfort and health on long working days.

12 (opt) DEUTZ-FAHR offers a large selection of trailer couplings for different requirements in different countries.
Fast, daily maintenance
Daily maintenance is quick and easy and can be completed in next to no time simply by opening the rear hinged bonnet. Pressure-actuated springs keep the bonnet in the open position. All important components and assemblies can be reached straightforwardly for maintenance without the need for tools. The engine oil level can be checked without opening the bonnet.

Long maintenance intervals
The regular maintenance intervals for the engine are so long they are almost unique. The engine oil only has to be changed every 500 hours of operation, while the valve setting only has to be checked every 1,500 hours. The transmission oil and its filters do not need to be replaced until after 1,200 hours. That – and the low cost of wearing and maintenance parts – means that the operating costs for an Agrofarm are satisfyingly low.

1 The engine and transmission oil coolers are fitted with a mesh guard and are therefore easy to clean.
2 The expansion reservoir for the coolant is also easily accessible. The liquid level can be conveniently checked through the transparent tank.
3 The cartridge of the intake air filter is easily pulled out to the side after the clips have been detached. The ejector dust seal keeps the maintenance intervals for the filter very long.
4 The fuel filters with water separator can be accessed from the side after opening the engine bonnet.
5 The battery can also be accessed easily without the use of tools.
6 The oil filler neck and dipstick are very easy to reach. Long maintenance intervals cut the operating costs for servicing and maintenance.

NO NEED FOR LONG MAINTENANCE.
**Engine**

Type designation 420

**Powerlift**

Category of 3-point hitch, rear II/Quick coupling

EHK Standard

Lifting force at rear kg 6.200

External operation Left and right on the rear fender

Front powerlift, cat. II Integrated with folding lower links on request

Front powerlift lifting force kg 1.900

**Hydraulic remote valves**

No. of remote valves 8

Non-pressurized recirculation Standard

Version Double-acting, fuel setting

Operation two separate levers and joystick

**Transmission**

Powershift transmission (profiline) 60/60, 5 gears including creep speed, 3 load switching steps, 40km/h for reduced engine speed of 1,900 rpm

Stepless TTV transmission (TTV) up to 40km/h of 1,800 rpm, cruise control

Clutch actuation (Profiline) Electrohydraulic actuation via foot pedal and switch in gear lever

**Electrical system**

Voltage V 12

Battery V/Ah/A 12/180/800

**Chassis, brakes, steering**

Front differential lock 100% electrohydraulic actuation

Rear differential lock Left and right on the rear fender

4-wheel drive operation Electrohydraulic actuation

Service brake Wet brake system on all 4 wheels

Parking brake Hydraulic spring storage

Steering system Hydrostatic with separate pump

Steering angle/smallest turning circle 55° / 3.50 m

Trailer brake Combined one/two-line compressed air braking system on request

Hydraulic trailer brake on request

**Working hydraulics**

System Energy saving system with electronic control and flow regulators

Pump flow rate l/min bar 93 (180)

* Engine oil change interval halved if run on bio-diesel.

* Max. Speed regulated by law.
**DIMENSIONS, WEIGHTS, TYRES.**

Type designation | 420
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<table>
<thead>
<tr>
<th>Dimensions in mm</th>
<th>ProfiLine</th>
<th>TTV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel base</td>
<td>2,340</td>
<td></td>
</tr>
<tr>
<td>Length with lower link</td>
<td>3,990</td>
<td>4,150</td>
</tr>
<tr>
<td>Overall height without/with A/C*</td>
<td>2,730/2,790</td>
<td></td>
</tr>
<tr>
<td>Track widths</td>
<td>Adjustable rims, tracks according to tyres from 1,600 to 2,100 mm possible</td>
<td></td>
</tr>
<tr>
<td>Minimum width</td>
<td>min. - max.</td>
<td>2,050 - 2,458 mm for tyre combinations 480/70 R 24 (f) and 480/70 R 34 (r)</td>
</tr>
<tr>
<td>Ground clearance max.</td>
<td></td>
<td>500</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight in kg (40 km/h, cab)</th>
<th>Unladen weight</th>
<th>Permissible laden weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>4,050</td>
<td>4,100</td>
</tr>
<tr>
<td>Maximum front axle load</td>
<td>3,000</td>
<td></td>
</tr>
<tr>
<td>Maximum rear axle load</td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>Permissible total weight</td>
<td>7,500</td>
<td></td>
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</tbody>
</table>

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

* For standard roof; depending on rear wheel tires.
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: