

# AGROTRON X



EVOLVING AGRICULTURE.

# A GREAT CONCEPT: THE AGROTRON X.

One of the largest, best designed tractor cabs for relaxed, fatigue-free work. Ergonomically designed, color-coded controls facilitate operation. All Agrotron X tractors come standard with air conditioning.

Integrated rear 3-point hitch with a lift capacity of up to 23,100 lbs. (10,500 kg). EHR with integrated diagnostic system. Separate hydraulic circuit for steering. Up to four remote valves. Easy operation using the PowerComS or joystick control.

Four standard PTO speeds: 540, 540E, 1000 and 1000E. ASM drive control management controls the PTO, 4-wheel drive and differential locks automatically.

Four-speed Powershift transmission, Powershuttle and APS (Automatic Powershift) ensure the right working speeds in all ranges.

For a high degree of maneuverability, the Agrotron X Series comes standard with articulating front fenders. Turning radius with a 38-inch (965.2 mm) tire is a tight 52 degrees (4.95 m).

The hydropneumatic front axle suspension and cab suspension work in tandem for operator safety and comfort.

Integrated work lights and tilting, glass sun roof with retractable sunshade improve all around visibility for working with a front loader.

Sloping, streamlined cowling for excellent views of front-mounted implements and cultivation areas. Engine cowling design improves maneuvering, even in confined spaces.

State-of-the-art, Deutz Common-Rail (DCR) turbo diesel engines (Tier III) have EMC (Electronic Motor Control). Top speed of 31 mph (50 km/h) is reached at a low 1850 rpm. These engines are biodiesel compatible (B100).

Integrated front 3-point hitch with a lift capacity of up to 11,000 lbs. (5000 kg). Electrohydraulic, 1000-rpm front PTO features easy mounting for a variety of attachments.



Exclusive 24-month warranty on all Agrotron tractor models 132 hp and higher.



This engine series is approved for 100% biodiesel fuel.

## Agrotron X: The superior choice for large-scale farming operations.

The new Agrotron X Series of tractors represent the culmination of more than 75 years of Deutz-Fahr's experience as a technological leader in the agricultural machinery industry.

With over 50,000 units within a large variety of versions and equipment options, the Agrotron series is our most popular tractor series. Since its introduction, more than 80 million hours have been logged.

The new Agrotron X Series is everything you've ever heard about German engineering — solid, dependable, powerful, cost-efficient to operate and maintain, and highly intelligent — all the qualities you want in a tractor that has to deliver on demand every day of the week, every day of the year.

Panoramic cab design and streamlined configuration make the Agrotron X truly unique in the industry. Coupled with ease of operation, superb comfort features and truly remarkable power, this tractor series sets a new benchmark in its class. Long on toughness and adaptability, they're the perfect choice for opera-

tions where productivity and profitability are measured in minutes, not hours.

# BUILT FOR A WIDE RANGE OF APPLICATIONS

**THE AGROTRON X WITH THE NEW DEUTZ DCR ENGINE FEATURES HIGH TORQUE RANGES AND EXCELLENT FUEL EFFICIENCY.**



## **Big, But Versatile**

Large-scale operations put special demands on their tractors. Agtron features optimum weight distribution for maximizing in-field performance. With top transport speeds of 31 mph (50 km/h), row time is significantly reduced compared to the competition.

They're especially adept at handling several implements at once. Agtron's robust drive train, front and rear PTOs, 3-point hitch, excellent gear ratios and

powerful hydraulics provide the foundation for a machine that can multitask day after day, year after year.

## **Top-Performing Engines**

This series of tractors is equipped with the new Deutz Common-Rail (DCR) turbo diesel engines that provide constant power and torque ranges. Overpower of up to 31 hp compensates for load peaks during working operations.

There's an 11-hp (8.2 kW) torque rise for load peaks. With electronic fuel injection control, both working and transport engine speeds can be programmed and activated when needed. In addition, both traveling and PTO speeds can be programmed with the Tempomat function.

## **Intelligent Transmission Design**

Agtron X's transmission ratios make use of the engine's constant power characteristics and saves unnecessary gear shifting. The 4-speed Powershift trans-

mission, Powershuttle and APS (Automatic Powershift) ensure the right working speeds in all six ranges. APS also provides extra operator convenience by automatically shifting Powershift stages.

## **Powershuttle**

The 4-speed Powershift transmission with Powershuttle ensures smooth, "clutchless" takeoff and direction changes, resulting in more operator comfort and less fatigue.

## **Comfort for Long Days**

Large fields often mean long working days. The generously sized panoramic configuration of Agtron's cab ensures unobstructed views and offers comfort features that minimize stress, fatigue and pain, including an orthopedically designed, low-vibration seat with pneumatic suspension, pneumatic cab suspension and the ergonomic arrangement of all operating elements. Together with the PowerComS operating lever and Agtron's many automatic functions,

these tractors provide a complete comfort package.

## **Front Hitch**

The front 3-point hitch is integrated into the front axle support. It has an 11,000-pound (5000 kg) capacity to handle the largest of front-pusher implements, and a direct-drive 1000-rpm PTO to deliver plenty of power to PTO-driven front implements.

# THIS ROOMY, COMFORTABLE CAB MINIMIZES FATIGUE

## FEATURES

- ▶ Ergonomically designed cab
- ▶ Cab design features views over 320° for nearly unobstructed views
- ▶ Optimum location of air intake and exhaust on the front cab struts
- ▶ Up to 15 integrated working lights at the front and rear
- ▶ Pressurized cab with twin air filters for dust and contaminants
- ▶ Easily accessible Powershuttle lever
- ▶ Operations placed in clustered, color-coded arrangements
- ▶ Adjustable steering wheel and driver's seat, optional multifunction armrest
- ▶ AFS links operator to implements



The Infocenter provides continuous information.



Additional storage in the armrest.



The roof hatch has a retractable screen for shade.



A powerful, 4-stage heating and air conditioning system is easy to operate and control.



The spacious cab design is well-illuminated for safe entry and exit, regardless of lighting conditions.

One of the finest features of the Agrottron X Series is the cab, which has set a new standard of operator comfort in the industry. Roomy and spacious, it has wide, unobstructed views in every direction. There's no crawling or contorting your body to get in: full-size handrails flank generously sized non-skid steps that lead to a wide door.

Levers and switches are located in logical clusters on the console according to frequency of use, and they're shape- and color-coded.

### The Infocenter

The Infocenter allows you to continuously monitor your tractor's operating status. This helps avoid undetected maintenance problems, low fluid levels and non-performing functions. The Infocenter provides

information on PTO and travel speeds, maintenance and error messages, engine speed, temperature, fuel and others.

### Lighting

The cab and entrance area automatically illuminate when the door is opened so you can safely enter and exit in the dark. For night work, a variety of lighting configurations are available; up to 15 optionally available main and working headlights

(front and rear) can light an area of 5,382 square feet (500 m<sup>2</sup>) — nearly two football fields.

### Quiet Cabs

With its low interior noise level of just 72.8 dBA, the Agrottron X is one of the quietest tractors in its class. In addition to such features as a quieter engine design, the single-cell, full-body cab also has an insulating wall between the engine

compartment and the cab — you can really hear the difference.

### Impressive Air Conditioning

A powerful, 4-stage heating and air conditioning system ensures comfort and protection, regardless of weather conditions.

Fresh air is drawn in through filtered intake openings in the B-struts, which is then distributed through 14 adjustable

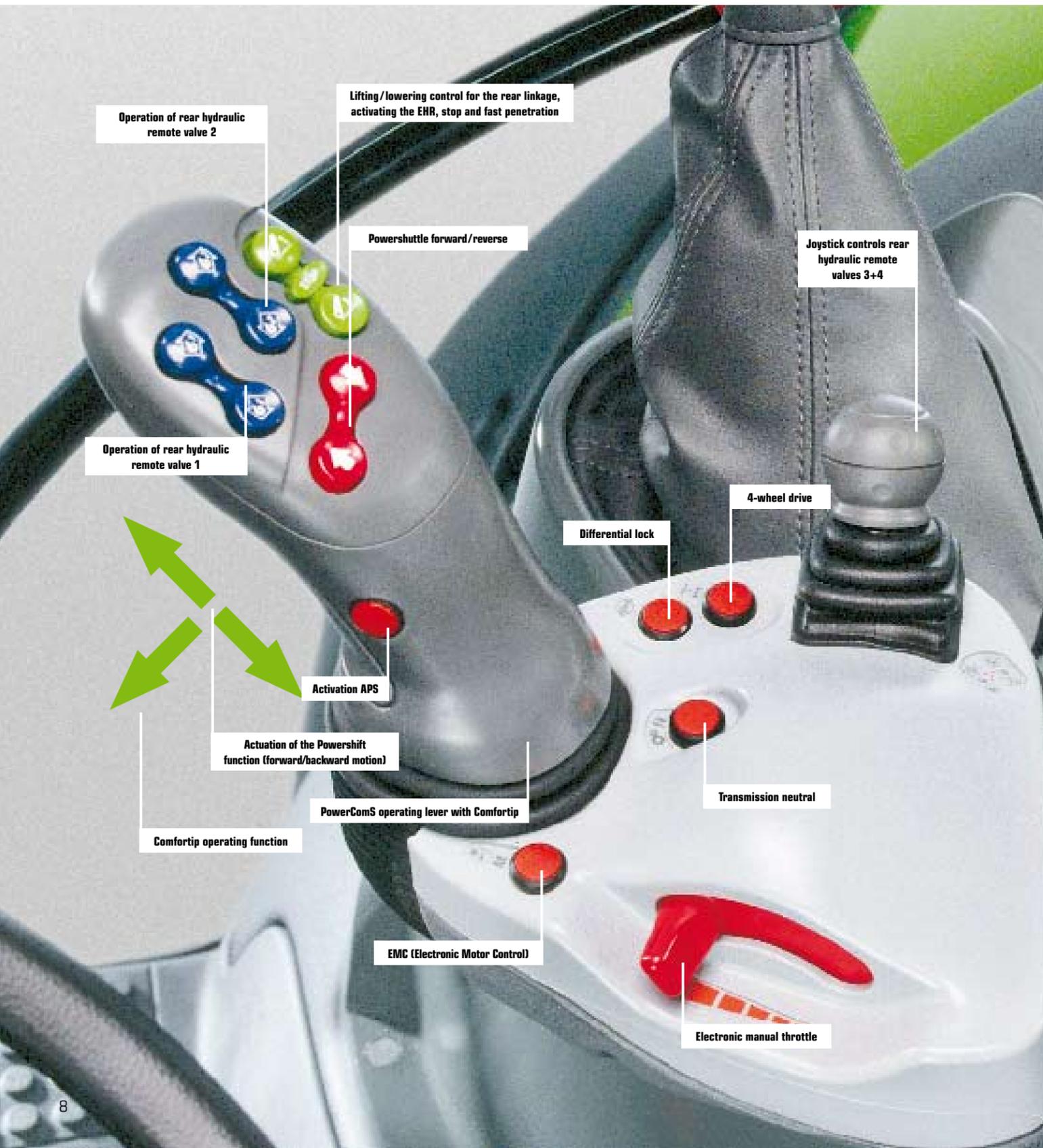
nozzles. A slight positive pressure cab prevents the ingress of dust or contaminants. The Agrottron X Series is equipped with an environmentally friendly air conditioning system that reacts quickly to adjustments. Fresh, circulating and defrosting functions are also part of the system.

Tinted windows and roller blinds on the front and rear windscreens protect you from the sun's harmful rays.

# OPERATING INTELLIGENCE FOR THE LONG HAUL

## FEATURES

- ▶ Management control for maximum operator efficiency
- ▶ One-hand control for ease of operation
- ▶ Ergonomically designed, color-coded controls for intuitive use
- ▶ No reaching or stretching to use controls



### Centralized Operation

The PowerComS lever combines all important functions — powershifting, rear PTO operation, hydraulic remote valves and shuttle transmission — into one station. There's no reaching for controls, no compromises in safe operation.

### The Multi-Function Armrest

Important operating features for actuating the electronic remote valve time, axle control management (ASM), electronic engine control (EMC), manual throttle and volume controls are all integrated into the armrest. Simply lift the padded cover to access these switches and controls, which are differentiated by shape, color and position. For comfort, you can adjust the length of the armrest.

### Easy-to-Use Remote Valves

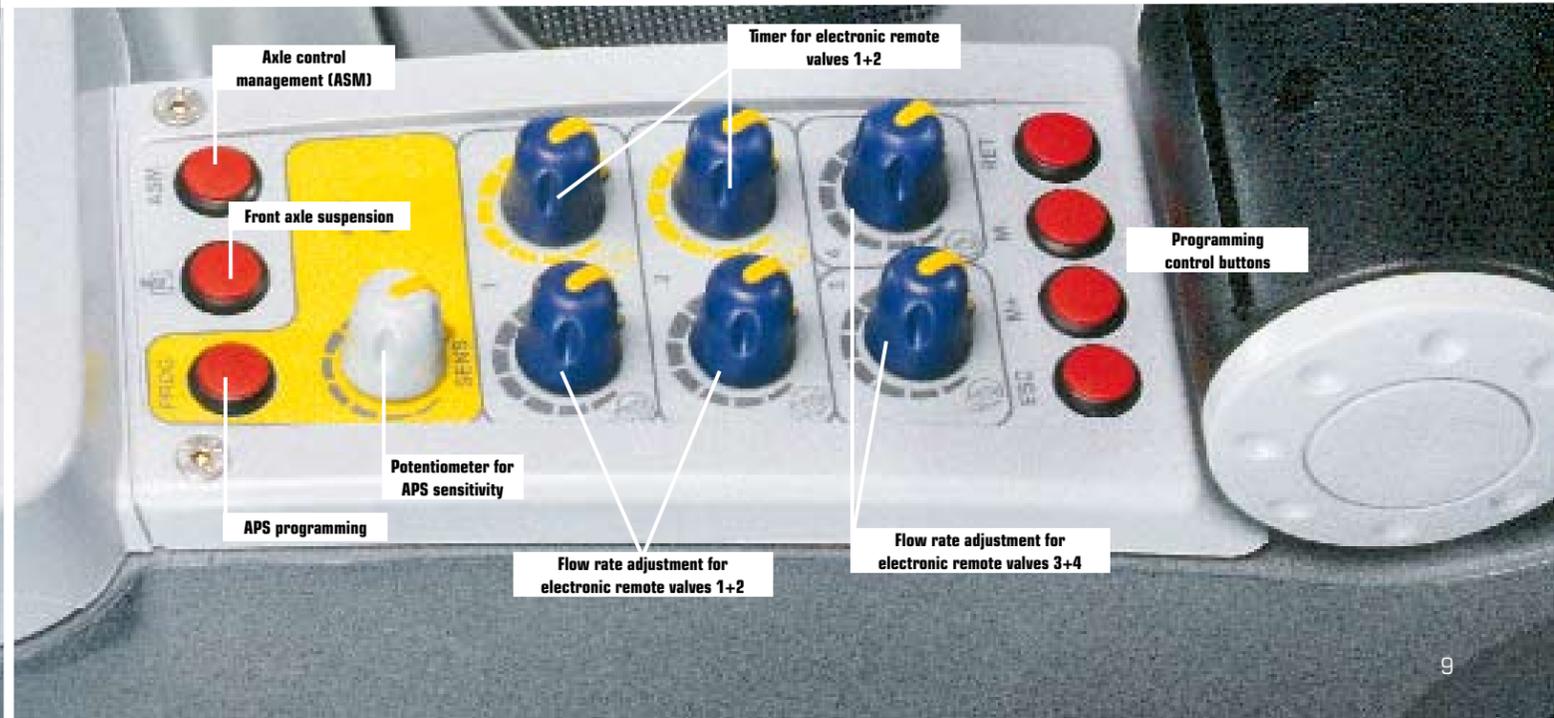
The Agrottron X Series comes standard with four double-action rear hydraulic remote valves, each with four functions and controllable flow rate.

Valves 1 and 2 are on the PowerComS lever; flow-through time and rate are adjusted at the armrest. Valves 3 and 4 are operated with a joystick; they can be used individually or simultaneously.

### Electronic Hitch Control (EHR)

All Agrottron tractors are equipped with an electronic, 3-point hitch control (EHR). Its functions and sensors are continuously monitored by an integrated diagnostic system that provides information on draft and position control, mix control, free floating, slip control, transport locking, external control switches, lifting height limitation and lowering speed control.

1. Wheel slip percentage adjustment
2. Implement lowering speed and fine tuning of oscillation absorption
3. Maximum lift height
4. PTO stop indicator
5. Depth/position adjusting potentiometer
6. Hitch lifting/lowering indicator
7. Operating mode: Position, draft or mix control



# THE ULTIMATE IN MANAGEMENT AND CONTROL

## FEATURES

- ▶ The PowerComS system features customizable operating functions
- ▶ The PowerComS system stores up to 16 different functions
- ▶ System eliminates reaching for buttons, levers and switches during complex maneuvers or jobs.
- ▶ System helps prevent operating errors
- ▶ PowerComS improves productivity
- ▶ Manual override



Move the Comfortip lever to the left to change functions.



Fully visible Comfortip functions.

One of Agrotion X's most valuable features is the PowerComS system, which has the ability to set memory for various functions, where all you have to do is move a lever for instant recall and execution.

### The Tractor with a Memory

With the PowerComS operating lever and the Comfortip function, you can program individual field management operating sequences and activate them by simply pressing or moving the operating lever.

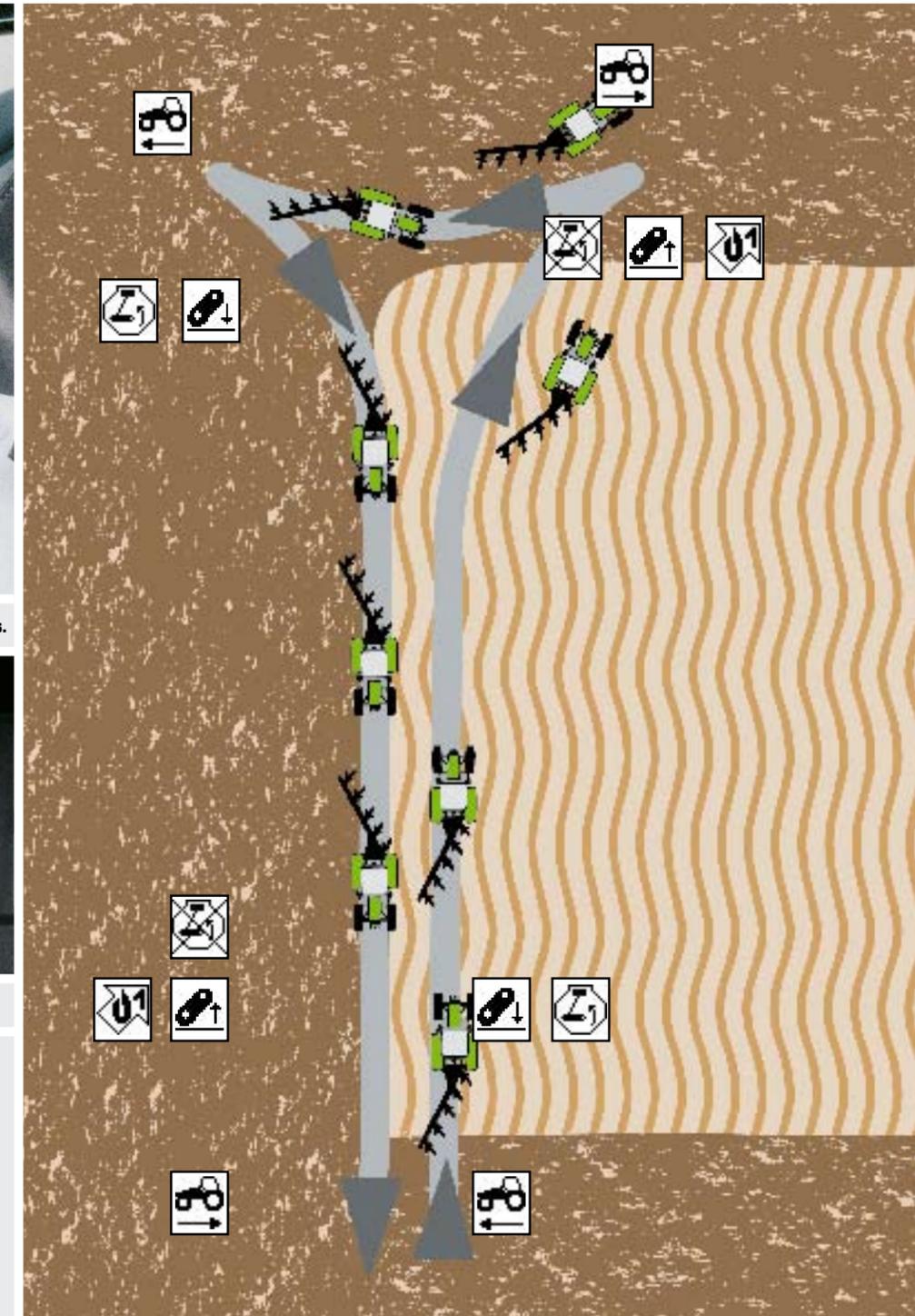
The operating sequences are displayed in the Infocenter. As one function is being executed the Infocenter indicates the next programmed function, so you always know which function to activate next. The sequences can be programmed when the tractor is stationary or moving, simply by using the PowerComS lever.

Once you've done the procedure correctly, an audible signal goes off and the digital display on the instrument panel is activated to accept the command. For pro-

gramming, you can either use the PowerComS lever or the multi-function armrest. The programmed functions are stored in memory until you change them.

### Multitasking Made Simple

Operating sequences with up to 16 functions can be saved and recalled. PowerComS allows you to customize your tractor's operating functions to the job. So, instead of reaching for levers, buttons and switches, you're working without interruption.

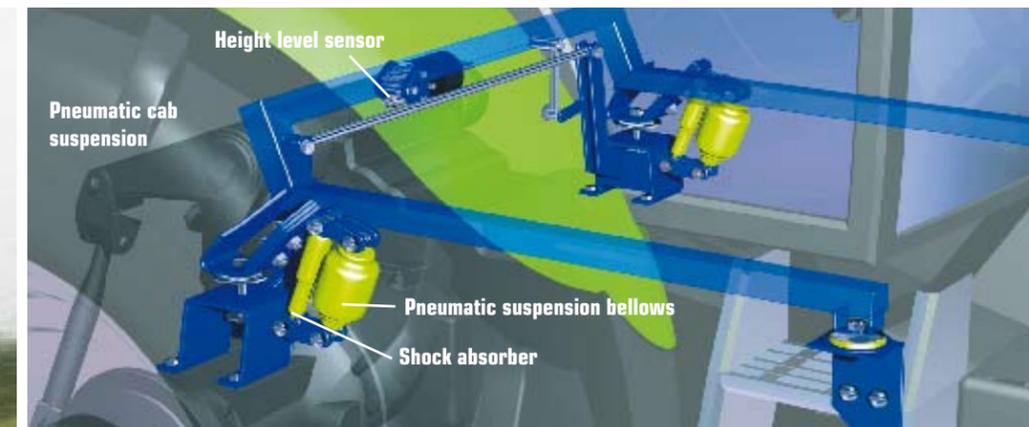


- |                        |                             |   |   |
|------------------------|-----------------------------|---|---|
| Forward speed control  | Resume engine speed control | Hitch raise control                     | Reverser direction control (shuttle transmission) |
| Hitch lowering control | Reduce engine speed control | Rollover plow control (Control valve 1) |   |

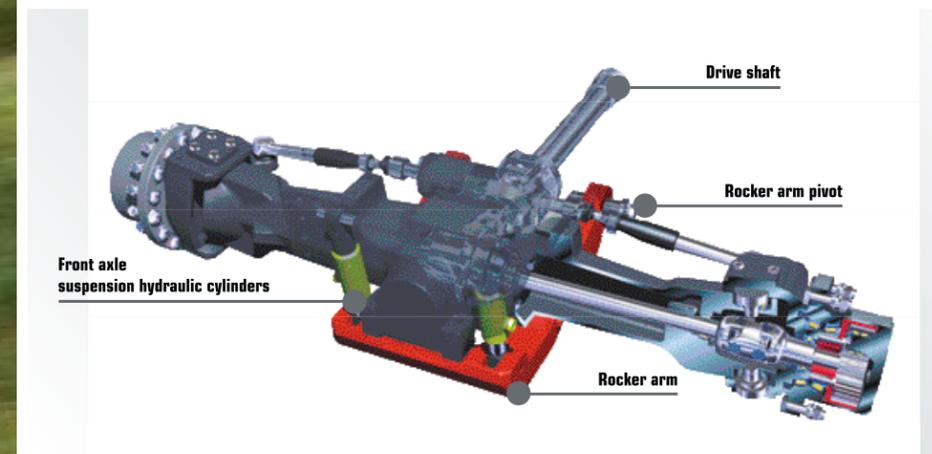
# A SUSPENSION SYSTEM THAT NEVER STOPS WORKING

## FEATURES

- ▶ Improved driving and operating comfort; less strain and fatigue
- ▶ Unhealthy vibration reduced
- ▶ The tractor's center of gravity has been shifted toward the front
- ▶ Reduction of the torsion and rolling motion, so there's less strain on the cab and drive train
- ▶ Closed, low-maintenance system
- ▶ Automatic suspension adapts to road, field or load conditions at high speeds
- ▶ Non-wearing dampening system



Pneumatic cab suspension provides excellent travel and operating comfort.



Hydropneumatic suspension system enhances the ride and stability.

True driving comfort starts when the human aspect is taken into account at the start of the design phase of a new tractor series. The Agrottron X Series is an excellent example of how Deutz-Fahr engineering succeeded in designing a tractor that offers unparalleled operator comfort.

### Cutting Edge Operating Conditions

Robust front axles, strong front-wheel drive, a long wheelbase of 10 feet (3 m) and a tight turning radius are important qualities for driving comfort. This Agrottron series is equipped with a front-wheel drive that can be engaged/disengaged simply by pushing buttons.

Differential locks have a locking value of 100 percent on both axles. The self-locking differential in the front axle automatically engages in the event of front-wheel slip with a locking value of 45 percent. All clutches and locks are wet, and can be activated and deactivated under load or in the event of slip, electrohydraulically. Operating conditions are displayed on the Infocenter.

### Front Axle Suspension

Driving safety and comfort is considerably enhanced by front axle suspension, which is standard on the 31 mph (50 km/h) version and optionally available on the 25 mph (40 km/h) version. The oscillat-

ing front axle is supported in the rocker arm. Front axle suspension is hydraulic and progressive with increasing ballast.

### Pneumatic Cab Suspension

Agrottron's standard pneumatic, load-compensated cab suspension is supplied by its compressed air system, which provides optimum driving comfort. Regardless of cab load, spring travel is  $\pm 1.6$  inches (40 mm), reducing harmful vibration considerably even at low speeds.

This type of suspension provides the highest level of comfort — comparable to an over-the-road truck. Between the

front axle and cab suspension and the pneumatic seat, you get unprecedented suspension and comfort.

### Steering

Agrottron's steering system is what you would expect it to be: precise, smooth and reliable. That's due to the use of an independent steering pump and large, 38-inch front tires (dual wheels optional). A 52-degree turning angle, 22-foot (6.7 m) turning radius and swiveling front fenders improve maneuverability.

### Axle Control Management (ASM)

This drive train management feature automatically controls the front drive and both differential locks so 4-wheel drive can be engaged or disengaged under load (depending on steering angle and speed).

An optional radar sensor detects wheel slippage. Both features are especially useful for applications such as heavy tillage, road transport with heavy loads and work on slippery terrain.

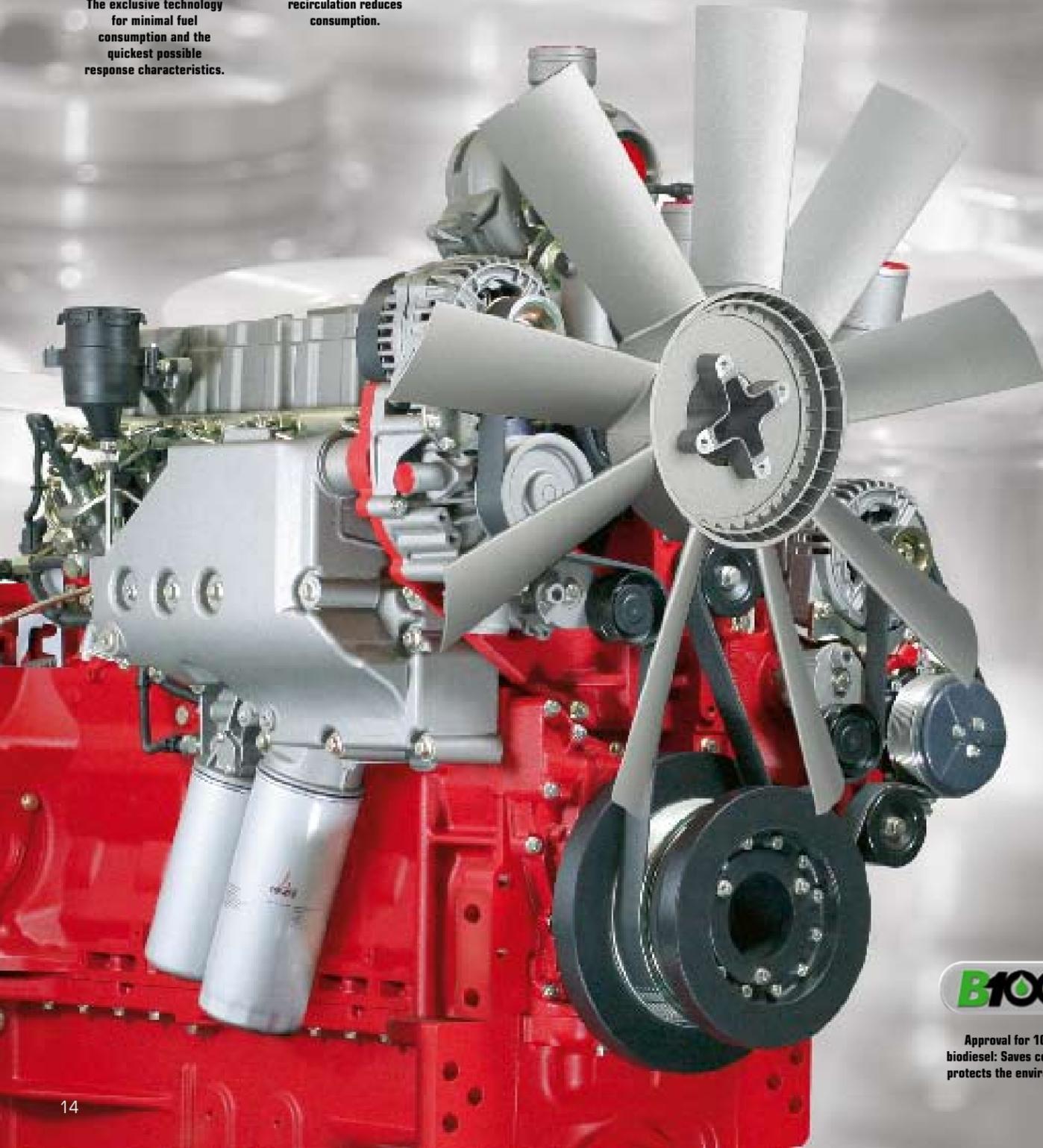
# TOUGH, RELIABLE, FUEL-EFFICIENT DEUTZ ENGINES



**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%  
biodiesel: Saves costs and  
protects the environment.

## FEATURES

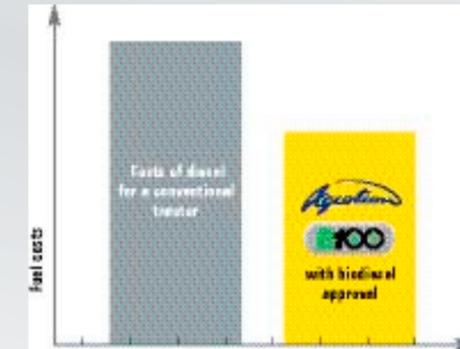
- ▶ High-propulsion and fuel-efficient Deutz 2- or 4-valve, turbo-diesel engines with electronic engine control (EMC)
- ▶ Tier III emissions compliance
- ▶ High torque at low speed ranges
- ▶ Deutz Common Rail (DCR) high-pressure injection, up to 23,206 psi (1,600 bar) via two injection pumps

- ▶ Deutz-Fahr is the first manufacturer to have been approved for biodiesel fuel (B100), and is guaranteed for 24 months.



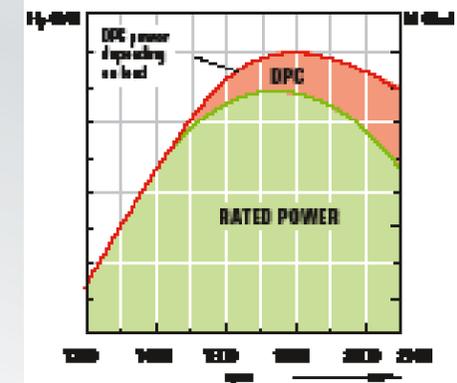
Four-valve, 6-hole injection nozzles optimize fuel consumption.

## Fuel Costs



At a fuel consumption rate of 7,925 gal./year (30,000 L), savings over five years would be \$31,449.

## Deutz Power Control (DPC)



Innovative DPC technology delivers high, economically efficient power, regardless of load. High torque, responsiveness and good traction are available even under difficult operating conditions.

## Forward-Looking Engineering

At Deutz-Fahr, we've been focusing on technologies that will simultaneously provide sufficient power while minimizing fuel consumption and emissions. Our biodiesel initiative is only one of several forward-looking projects.

Another example is our innovative DPC (Deutz Power Control). By combining the electronic engine control (EMC) and Deutz Common-Rail-Technology, a complex but very efficient engine control system has been developed.

## Powerful, Strong and Efficient

Featured in the Agrotron X Series is the state-of-the-art 6-cylinder, 6-liter Deutz diesel-powered engine with DCR. These highly efficient engines are distinguished by their constant output, torque, fuel economy and environmental sensitivity.

Gear shift changes are minimized because the engines provides sufficient power reserves and good elasticity values.

## External Exhaust Gas Recirculation

Both Agrotron X tractors come standard with an external exhaust gas recirculation, which reduces consumption and exhaust emissions.

## Quiet Operation

Agrotron's design minimizes noise output with a rigid, ribbed crankcase, soft combustion, exhaust turbocharger and liquid cooling, as well as double-shell insulation inside the engine cowling, a flexible intake and exhaust pipe mounting.

# RESPONSIVE, INTUITIVE, FINGERTIP-CONTROL SHIFTING

## FEATURES

- ▶ ZF 7300 series transmission has a simple and reliable design
- ▶ Easy, positive shifting
- ▶ Turboclutch (X720) for smooth startups

- ▶ Startup, stop and change direction without the clutch
- ▶ Hydrotorsion dampers protect all components and improve driving comfort (Agrotron X710)

- ▶ Freely selectable F/R speeds
- ▶ Transmission ratios optimally coordinated with engine power
- ▶ One speed with four Powershift stages

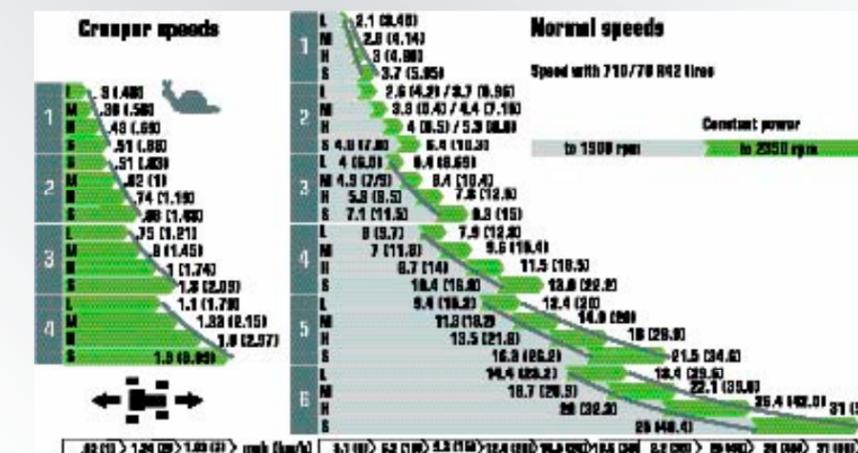
**40 CLOSE SPEED RATIOS, 13 OF WHICH ARE IN THE MAIN WORKING RANGE, PLUS APS AND TURBO-CLUTCH**



Six-speed main transmission and the four Powershift stages are operated on the gearshift lever.



Use the PowerComS operating lever to shift to Powershift stages with just a touch.



Ten (10) speeds, and the variations within speed, provide a huge range of working speeds for any application.

The greatest test of a tractor's abilities is how its transmission holds up over many hours of work. Deutz-Fahr's Agrotron X Series transmissions are built to withstand demanding conditions and deliver consistent, reliable power. Combined with such standard equipment as Powershift, Powershuttle and a wide range of PTO speeds, there's nothing you won't be able to do.

### Smooth Startup

The Agrotron X720 has a non-wearing turboclutch, so startups are smooth and quick. Regardless of topography and load, the clutch doesn't slip, engine vi-

bration is dampened and driving comfort is improved.

During startup the pump wheel is driven at the engine speed. The turbine wheel is accelerated slowly and smoothly, moving the tractor in the same manner. When in use, the pump wheel and turbine wheel are non-positively locked and turn at the same speed.

### Close Speed Ratios

With 40 forward and reverse gears (including the standard creeper speed group) the transmission is closely graduated. Speeds range from 1,476 feet per

hour (450 m/h) to 31 mph (50 km/h), depending on tires. There are 13 speeds in the main working range from 2.5 to 9.3 mph (4–15 km/h). To maximize fuel efficiency, the top overall speed can be reduced to 25 mph (40 km/h) with the EMC (electronic engine control).

### More Than Just a Powershift: Automatic Powershift (APS)

Agrotron's APS feature automatically shifts to one of four Powershift speeds, depending on the tractor's engine load and rpm. APS allows you to infinitely vary the sensitivity of the system with a rotary switch. The clutch is actuated with

either by the foot pedal or with a button on the shifting lever, so 24 speeds can be shifted without using the clutch pedal.

### Reversing / Shifting

The shuttle transmission makes it possible to pull off from a stationary position or change direction of travel (reverse/forward) without actuating the clutch. Operation is easy using switches on the PowerComS lever.

The direction of travel can be changed (F/R) at a speed of up to 7.8 mph (12.5 km/h) without pressing the clutch pedal. The tractor decelerates slowly and switches

to the other direction at a very low speed, while the engaged speed and Powershift stage are maintained.

The optional Powershuttle with left-hand reverser is especially convenient when working in tight areas, as it frees up your right hand for other tasks.

### Two PTO Speeds

The rear PTO has two standard speeds (540 and 1000 rpm) for a wide range of applications. The f-ange-mounted PTO stub can be fitted with a number of different profiles. It can be operated from the cab or controls on the rear fender.

Electrohydraulic control ensures modulated, low-wear PTO startup. When the rear 3-point hitch is actuated the PTO automatically switches on and off, which helps prevent mounted implements from damage and other operating errors.

### Front PTO

The 1000-rpm front PTO is driven directly by the engine, and electrohydraulically actuated with a button.

# POWERFUL, DEPENDABLE HYDRAULICS

## FEATURES

- ▶ Big lifting force of 23,100 lbs. (10,500 kg)
- ▶ High flow rate of 32 gpm (120 L/min.)
- ▶ Very high efficiency
- ▶ Unrestricted use of biological oils due to separate oil circuits for transmission and hydraulics
- ▶ Oil is only supplied when required by the implement
- ▶ Direct connection of third-party equipment (PowerBeyond) is standard
- ▶ Lower links with mechanical stabilizers, and automatic lateral stabilization when raised



Color-coded connections.



Control flow rate and time from the armrest.



Control implements and the rear PTO from the fender.

Agrotion's powerful load-sensing hydraulic system, with a huge lifting ability of 23,100 pounds (10,500 kg) and a maximum pump flow of 32 gpm (120 L/min.), ensures superior hydraulic power for all applications and environments.

To meet the demands load and working conditions place on oil quality, there are separate oil circuits for the hydraulic systems and transmission. This eliminates the possibility of cross-contamination.

### Load Sensing

The system has an axial piston variable displacement pump controlled by the load-sense feedback line. The variable displacement pump instantly provides more oil to handle the pressure required by the hydraulic load. This function, with the highest pressure requirements, determines the system pressure at the moment it's required.

### Vibration Dampening

During fast road travel, implement movement, vibrations and oscillations occur in the hydraulic system, which can have a detrimental effect on driving safety and comfort. When vibration dampening is engaged (automatically from 5 mph (8 km/h), implement movement is detected by electronic load sensing pins, and adjusted accordingly by the 3-point hitch to minimize movement.

### Efficient Implement Changing

Implements for the Agrotion X Series are remarkably easy to switch. Controls located on the rear fender assure fast, sure and safe implement coupling and uncoupling.

The lower links have Category 3 quick couplings with standard heavy-duty stabilizers, which also have a mechanical swing compensation feature.

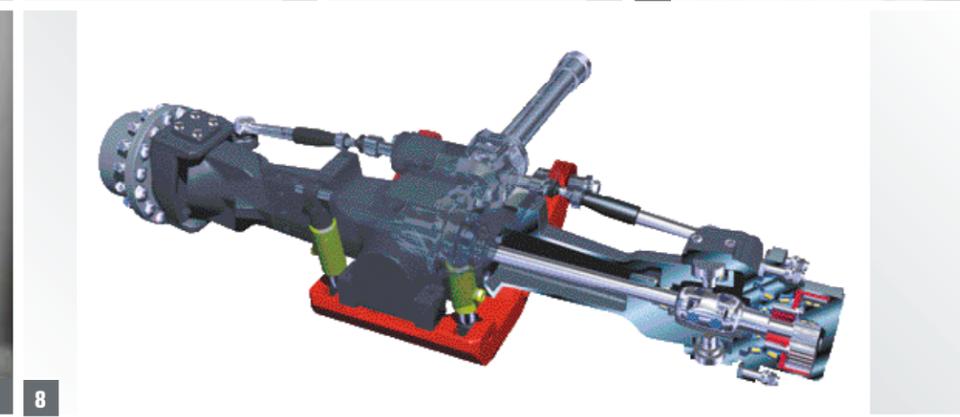
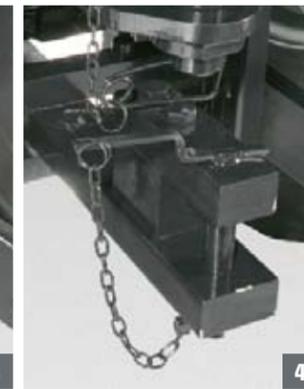
### External Control

Three-point mounted implements that must work at specific depths or heights can be monitored by an external control.

### Power Beyond

The Power Beyond connection provides continuous oil flow from the axial piston pump directly through the load sensing circuit. Implements that have a separate load-sensing capability can be connected at this point.

# OPTIONS IMPROVE COMFORT AND PERFORMANCE



Agrotron X's options offer additional comfort, control and performance.

**1. Front 3-point hitch linkage and PTO**—Agrotron reveals its true versatility when equipped with front-mounted implements. The integrated front powerlift has a lifting force of up to 11,000 pounds (5000 kg), and a PTO speed of 1000 rpm.

**2. Agrosky track guidance system**—Accuracy of  $\pm 2$  cm.

**3. Ballhead hitch** with a diameter of 3.15 inches (80 mm) and a drawbar load of 6,600 pounds (3000 kg).

**4. Swinging drawbar**—This drawbar can be used in either fixed or swinging positions, and is easily adjusted for length.

Maximum drawbar load is 6,600 pounds (3000 kg).

**5. The welded, ball-type hitch** has a capacity of 8,800 pounds (4000 kg).

**6. Piton Fix**—Pin diameter of 1.8 in. (45mm), and a maximum drawbar load of 6,600 pounds (3000 kg).

**7. AFIS operating terminal**—This state-of-the-art technology complies with ASAE ISO-BUS Protocol Standard 11783 and Connector Standard 11786. It allows you to control all mounted implements from one terminal.

**8. Front axle with suspension**—The 25 mph (40 km/h) version of the X710 can be optionally equipped with integrated hydraulic

front axle suspension, which enhances driving safety and comfort.

**9. Optimum weight distribution**—A variety of ballast carriers and front weights are available to suit every application.

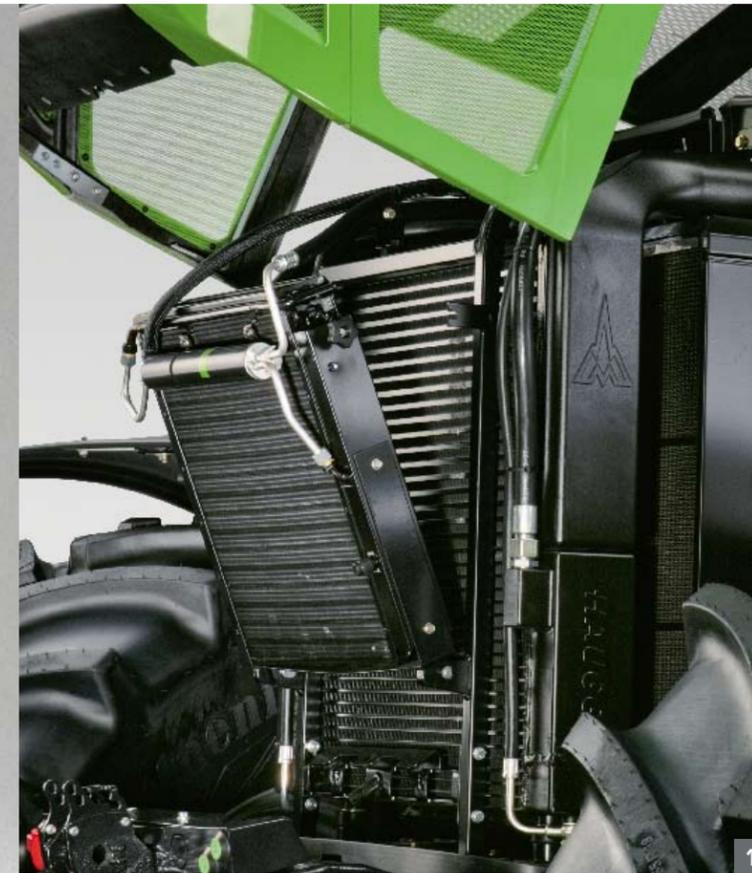
**Not Shown:**

- Automatic lateral stabilization
- Radar sensor

# SERVICING THE AGROTRON X IS FAST AND EASY

## FEATURES

- ▶ Long maintenance intervals
- ▶ Tool-free access to all important maintenance points
- ▶ Very low maintenance and operating costs
- ▶ Engine oil changes every 500 hours
- ▶ Tappet clearance check every 1,500 hours



### Fast Daily Maintenance

These tractors are designed for quick and easy accessibility to important components and assemblies.

### Long Maintenance Intervals

Agrottron's regular engine maintenance intervals are among the longest in its class at 500-hour oil change intervals.

### Real-Time Diagnosis

Deutz-Fahr service centers provide fast electronic system diagnostic checks on the tractor via a single plug connection.

**1. The cooling system** folds out and/or pulls out to one side.

**2. Dual cab air filters** are located at easily accessible positions in the B struts at ground level. The filters can be cleaned and replaced without tools. Charcoal filters are optionally available.

**3. Fuses and relays**, which are mounted in the cab on the right rear fender, are easily accessible and well protected against moisture and vibration.

**4. The battery** is easily accessible on the right-hand side of the tractor.

**5. The engine air intake**, positioned at the top left A-post, is in a low-dust area. The exhaust aspiration dust ejector ensures long maintenance intervals of the engine

air filter. The air filter has a safety element, and is easily accessible at ground level in a recess of the fuel tank.

**6. Oil-filler and dipstick** are easily accessible on the left side of the tractor.

**7. The hydraulic oil level** is easily visible in a large sight glass.



# AGROTRON X710 • X720

# SPECIFICATIONS

ENGINE	X710	X720
Manufacturer / type	TCD 2013 L06 4V	
Cylinders / displacement	6 / 436 (6)	
Bore / stroke	4.25 / 5.1 (108 / 130)	
Injection system	DCR (Deutz Common-Rail) with 1,600 bar injection pressure and 6-hole-injectors	
Max. power (2000/25 EC)*	242 / 178	270 / 198
Max. power with DPC	250 / 184	275 / 202
Electronic engine control (EMC)	standard	
Maximum torque	709 (961)	776 (1052)
Constant torque range	1100–1600	1300–1650
Torque rise	35	36
Constant power range	1800–2300	1750–2350
Air intake	On the A-strut, left hand top	
Fuel tank capacity	55.7 (211)	55.2 (209)
Engine oil capacity	7.4 (28)	
<b>POWERTRAIN</b>		
<b>Transmission</b>		
Transmission type	ZF 7300	
No. of speeds with creeper speed	40 / 40	
Powershift	4-range Powershift with APS	
Powershuttle reversing transmission	Standard	
Max. speed	Adjustment with engine speed controller, max. speed 25- or 31 mph (40- or 50 km/h)	
Clutch	Wet, multi-disc	
Vibration absorber / turboclutch	Hydrodamp	Turboclutch
<b>Rear PTO</b>		
Clutch	Wet, engagement modulated	
Actuation	Electrohydraulic	
PTO stub	Flange-mounted	
Profiles	1-3/8", 6-spline shaft / 1-3/8" 21-spline or 1-3/4", 6-spline / 1-3/4", 20-spline	
Speed	540E / 1000	
Remote control	Rear fenders, left and right	
<b>Front PTO (optional)</b>		
Clutch	Wet, multi-disc	
Actuation	Electrohydraulic	
Speed / direction of rotation	1000 (with engine speed at 2100 rpm) / clockwise	
PTO profile	1-3/8", 6-spline	
Max. transferable power	150 (110), continuous	

\* without cooling fan

HYDRAULICS	X710	X720						
<b>System specs</b>								
System	Load-sensing							
Oil reservoir	Separate							
Pump flow rate	gpm / psi (L/min. (bar)) 32 / 2,900 (120) / 200							
Oil reservoir capacity	U.S. gal. (L) 11.9 (45)							
<b>3-point hitch</b>								
Agrotronic-hD	Draft control / position control / mix control / float / diagnosis / vibration dampening/slip control							
Rear 3-point hitch	Cat. 3, WKS fast-action couplings with automatic lateral stabilization							
Rear lift capacity	lbs. (kg) 23,100 (10,500)							
Rear 3-point hitch remote control	Standard, on left and right rear fenders							
Front 3-point hitch	Optional							
Front 3-point hitch	Cat. 2 (Cat. 3 opt. quick-connect)							
Front lift capacity	lbs. (kg) 11,000 (5000)							
<b>Rear hydraulic outlets</b>								
Number	4 electrohydraulic							
Parallel operation	Standard							
Functions	Double-acting with float position (can be coupled under pressure)							
Actuation	With PowerComS for 1 & 2; joystick for 3 & 4							
Flow rate / flow time	gpm (L/min.) Adjustable 0–22 sec. (83) / Adjustable 0–45 sec. or continuous flow							
Power Beyond direct connection	Standard							
<b>Steering, brakes and chassis</b>								
Steering system	Hydrostatic with balanced steering cylinder							
Steering load sensing	Separate circuit with separate pump							
Pump flow rate / pressure	gpm (L/min.) / psi (bar) 15 (57) / 2,683 (185)							
Steering angle / turning radius	ft. (m) 52° / 22 (6.7)							
Front axle suspension	25 / 31 mph (40/50 km/h)	Optional / Standard   Standard						
Differential locks	front / rear	ASM; fully automatic control by speed, steering angle, individual wheel braking and slip (100% locking); can be deactivated						
Service brake	front / rear	Automatic activation of the front drive / disc brake system, wet						
<b>ELECTRICAL SYSTEM</b>								
Voltage	V 12							
Three-phase alternator	W / A 1,800 / 200							
Starter	v / kW 12 / 4							
Battery	V (Ahr) 12 (180)							
Agrotronic-hD connections	External signal transmitter, 7-pin							
<b>SPEEDS mph (km/h)</b> (with rear tires 710/70 R42)								
	<b>Creeper speed</b>				<b>Normal</b>			
Group	L	M	H	S	L	M	H	S
1	.3 (.48)	.36 (.58)	.43 (.69)	.51 (.83)	2.1 (3.45)	2.6 (4.14)	3 (4.96)	3.7 (5.95)
2	.51 (.83)	.62 (1)	.74 (1.19)	.88 (1.43)	3.7 (5.96)	4.4 (7.14)	5.3 (8.57)	6.4 (10.3)
3	.75 (1.21)	.9 (1.45)	1 (1.74)	1.3 (2.09)	5.4 (8.69)	6.46 (10.4)	7.8 (12.5)	9.3 (15)
4	1.1 (1.79)	1.33 (2.15)	1.6 (2.57)	1.9 (3.09)	7.9 (12.8)	9.6 (15.4)	11.5 (18.5)	13.8 (22.2)
5	–	–	–	–	12.4 (20)	14.9 (24)	18 (28.9)	21.5 (34.6)
6	–	–	–	–	18.4 (29.6)	22.1 (35.6)	26.4 (42.5)	31 (50)

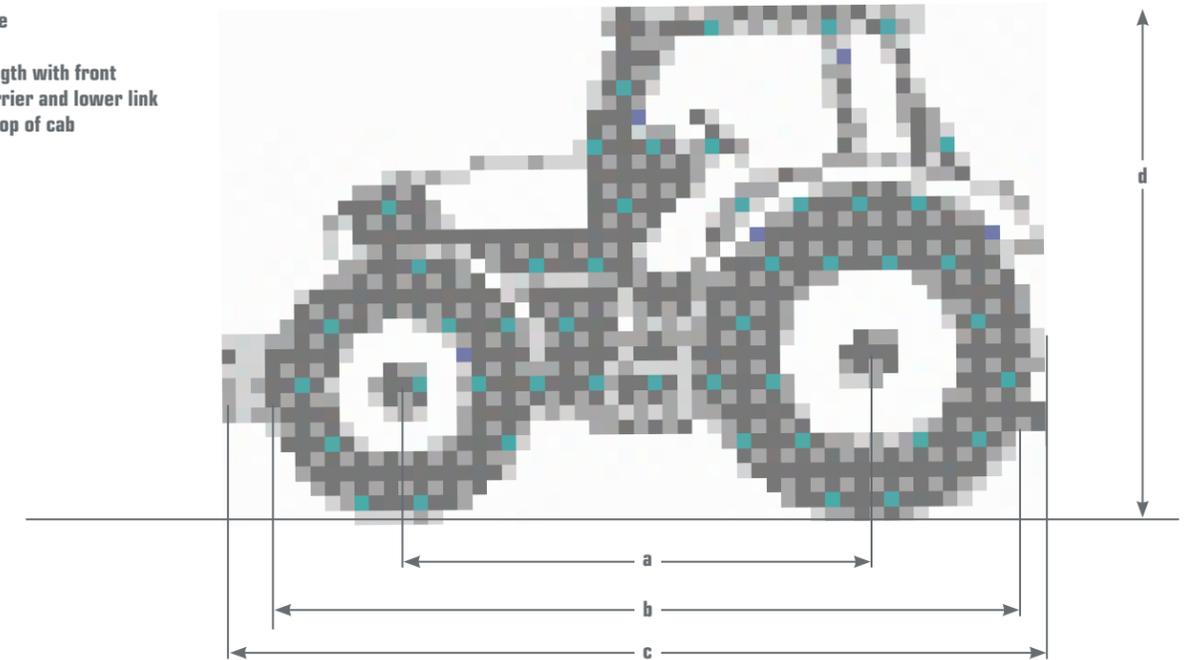
# AGROTRON X710 • X720

# SPECIFICATIONS

TRACK WIDTHS AND TIRES in. (mm)		X 710	X720
18.4 R30	F		73.8 (1874)
20.8 R42	R		74 (1879)
18.4 R34	F		73.8 (1874)
20.8 R42 SR	R		74 (1879)
480 / 70 R34	F		78.5 (1994)
650 / 85 R38 SR	R		78.6 (1997)
520 / 70 R30	F		75.6 (1894)
580 / 70 R42 SR	R		74 (1879)
520 / 70 R30	F		75.6 (1894)
620 / 70 R42 SR	R		74 (1879)
520 / 70 R30	F		75.6 (1894)
650 / 65 R42 SR	R		74 (1879)
520 / 70 R30	F		75.6 (1894)
710 / 70 R38 SR	R		74 (1879)
520 / 70 R34	F		75.6 (1894)
580 / 70R42 SR	R		74 (1879)
520 / 70 R34	F		73.8 (1874)
620 / 70 R42 SR	R		74 (1879)
520 / 70 R34	F		78.5 (1994)
710 / 70 R42 SR	R		78.6 (1997)
520 / 70 R38	F		78.5 (1994)
650 / 85 R38 SR	R		78.6 (1997)
520 / 70 R38	F		77.7 (1974)
710 / 70 R42 SR	R		78.6 (1997)
600 / 65 R34	F		73.8 (1874)
650 / 65 R42 SR	R		74 (1879)
600 / 70 R30	F		73.8 (1874)
710 / 70 R38 SR	R		74 (1879)
600 / 65 R38	F		73.8 (1874)
650 / 85 R38 SR	R		74 (1879)
600 / 65 R38	F		73.8 (1874)
710 / 70 R42 SR	R		74 (1879)
<b>CAB</b>			
Manufacturer	Deutz-Fahr / Integrated / Soundproofed		
Pneumatic suspension with level adjustment	Standard		
Noise level	dB(A)	72.8	
Equipment	Sun shade, tinted windows, wiper/washer unit at front and rear, opening for implement actuation, front and rear working lights, interior lighting, Grammer mechanical comfort seat (opt. air suspension)		
Heating system	Hot water heating with fan with 4 settings		
Air conditioning	Optional		
PowerCom S armrest	Standard		
Display	Non-glare information display with digital display showing vehicle speed, speed of front / rear PTO, powershift stages, operating hours, time, etc.		

Available tire combinations are given on current, valid price lists. Tractors can be equipped with dual wheels, front and rear. Please observe motor vehicle construction and use regulations. SR = Solid, non-adjustable wheels. Adjustable wheels optionally available.

- a. Wheel base
- b. Length
- c. Overall length with front weight carrier and lower link
- d. Height to top of cab



DIMENSIONS		X710	X720
a. Wheel base	in. (mm)		121.9 (3095)
b. Length	in. (mm)		207.4 (5268)
c. Overall length with front weights	in. (mm)		212.6 (5399)
d. Height to top of cab	in. (mm)		128.7 (3270)
Outside-to-outside dimensions	in. (mm)		108.3 (2750)
Ground clearance front / middle / rear	in. (mm)		19.4 / 24.6 / 21.5 (494 / 625 / 548)
<b>WEIGHTS (25 mph (40 km/h) version with cab)</b>			
Total base weight	lbs. (kg)		20,746–22,957 (9,430–10,435)
Front payload	lbs. (kg)		14,300 (6500)
Rear payload	lbs. (kg)		22,000 (10,000)
Max. gross weight	lbs. (kg)		30,864 (14,000)

With front tires 600 / 65 R38, rear tires 650 / 85 R38

Specifications and design subject to change without notice.

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