Tractors

ARION

660 650 630

CLAAS

The ARION.

Reasons to love this tractor.

One of our most globally popular tractors just got even better thanks to a host of new functions developed by our engineers in consultation with ARION operators. Spending countless hours behind the wheel every day, they know exactly what they want. So we give them:

More of everything.

- More help: the self-learning CEMOS operator assistance system does the work for you.
- More flexibility: with CEBIS you can view two cameras and control tractor functions and ISOBUS implements
- More efficiency: go from 0 to 31 mph seamlessly with a continuously variable CMATIC transmission and reduce fuel consumption
- More accuracy: a press of the button is all it takes to switch on the rear PTO and activate the engine speed memory
- More comfort: a leather steering wheel, hands-free system and a four-point cab suspension design that comes standard guarantees maximum comfort during work time or overtime

Cathrina Claas-Mühlhäuser
Chair of the Shareholders' Committee

How do we innovate at CLAAS?

It's simple. By working continuously to make harvesting technology better, faster and more efficient. And, a little different, too.

ARION 600 Series
claas.com

Meet the ARION.

up to 205 hp
max output

40 gpm
hydraulic flow

17,600 lbs
lift capacity

31 mph
maximum transport speed

500 hr
engine oil change interval

4 -point
suspended cab


ARION
CLAAS
660
ARION
CMATIC

More than just power.

Does the work for you.

For dairymen, livestock producers and ranchers alike who can't settle for power over versatility, the CLAAS ARION 600 is the comprehensive companion with up to 205 hp while providing superior performance and conveniences that do the work for you.

- Reach peak torque with a low engine speed concept for better fuel economy
- Efficient power transfer to PTO equates to higher PTO power than the competition at similar engine hp
- Powered Zero Mode makes it easy to stop and start on slopes without using a service brake
- Continuously variable CMATIC transmission designed in-house
- Reach a max 31 mph speed at lower engine rpm than the competition
- Four-point cab and axle suspension comes standard
- Hydraulic self-leveling FL 150 loader has a 7,500 lbs. lift capacity and reaches up to 15 feet in the air
- Automatic stretch brake braking system adds convenience to trailer hauling applications
- Intuitive in-cab workspace and controls that fuel productivity with increased levels of customization using CMOTION and F-Keys
- Optimized field work with the CEMOS assistance system that analyzes and suggests optimal settings for your tractor for specific implements and field condition

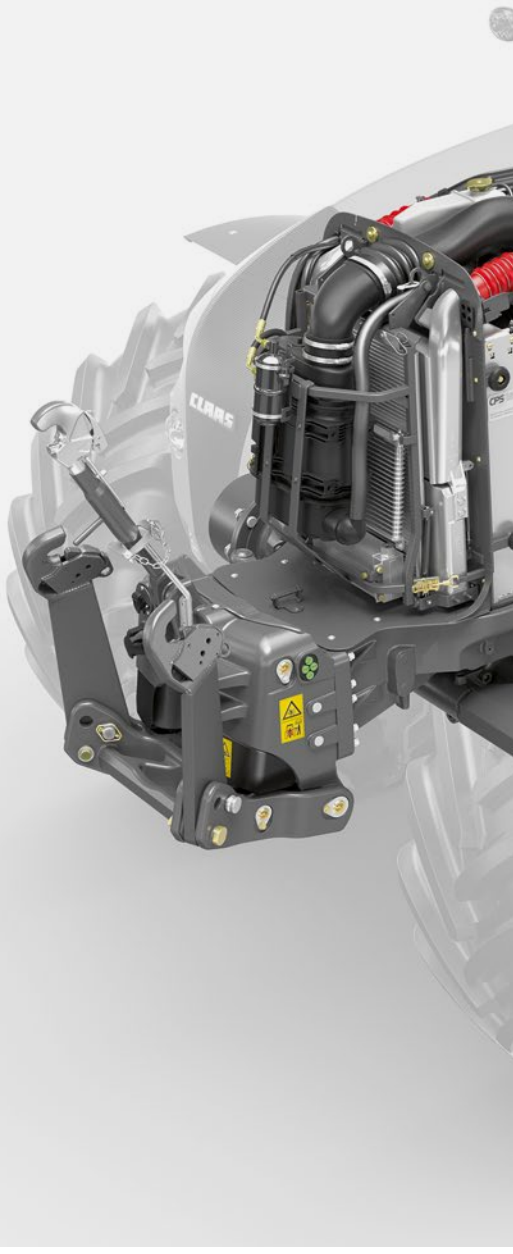

ARION
CMATIC
AC65
FERME

CPS – CLAAS POWER SYSTEMS.

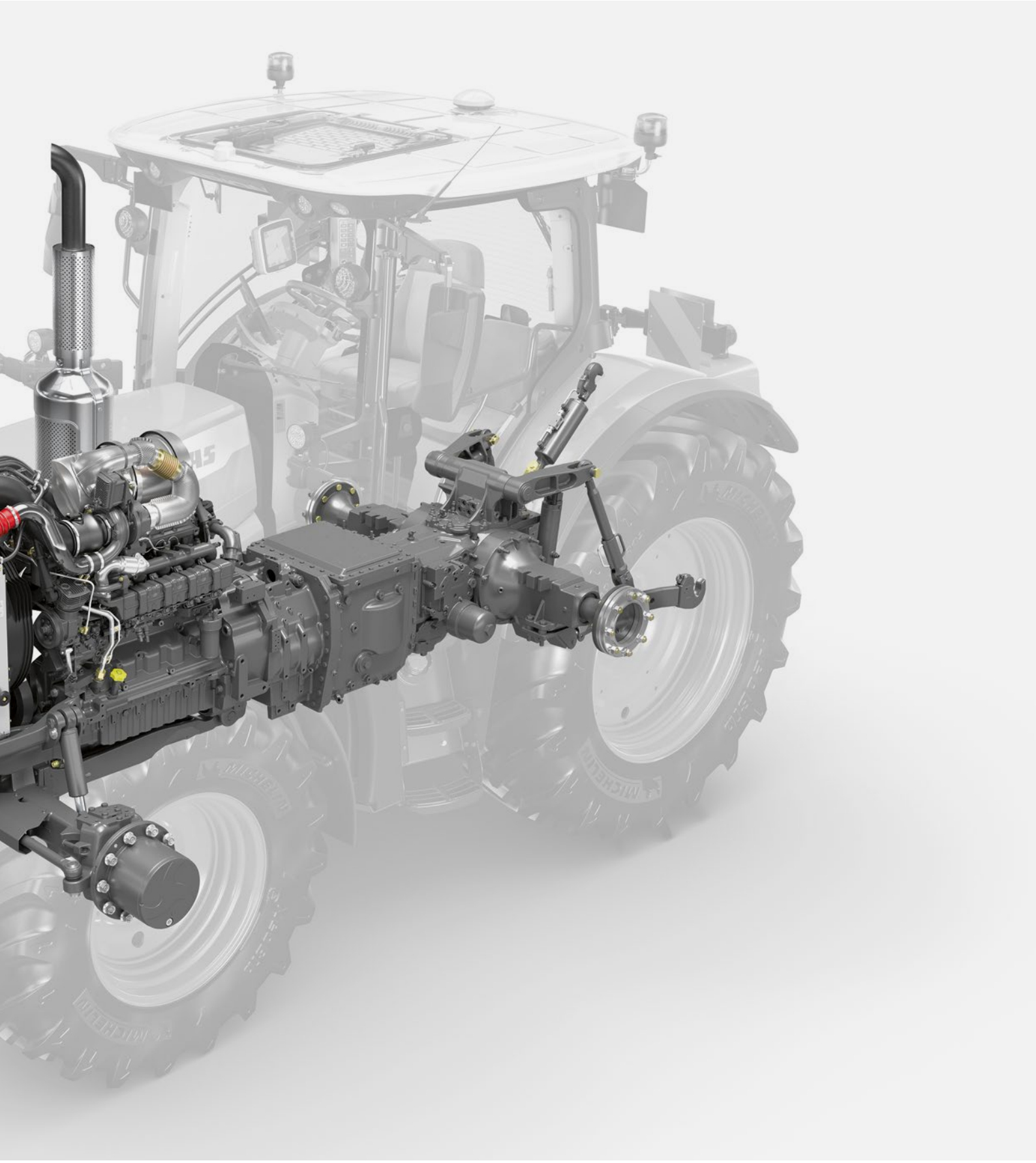
Our drivetrain: the perfect interplay between optimal components.

Your CLAAS tractor is more than the sum of its individual parts; it's a combination of parts working in perfect harmony.

In CLAAS POWER SYSTEMS (CPS), we have brought together top-quality components to create an intelligent drive system that sets new standards. Full engine output only when you need it. Drives that are suited to the way your machines are used. And fuel-saving technology built to help you cut operating costs whatever the application.



CPS | CLAAS POWER SYSTEMS



Constant output is just as important as pure power.

Strong at heart.

- DPS Powertech 6-cylinder 6.8 L engine with VGT turbocharger
- Common rail injection (1,800 bar)
- 4-valve technology and intercooler
- Two engine idling speeds (650 and 800 rpm) with automatic adjustment to reduce fuel consumption when stationary
- Visctronic fan control

The CLAAS-specific engine performance curve provides full torque in a wide engine speed range, guaranteeing constant output and power delivery when they are needed. This makes it easy to save fuel while working at a low engine speed and maximum torque with the ECO PTO, or to work at rated speed with a full reserve.

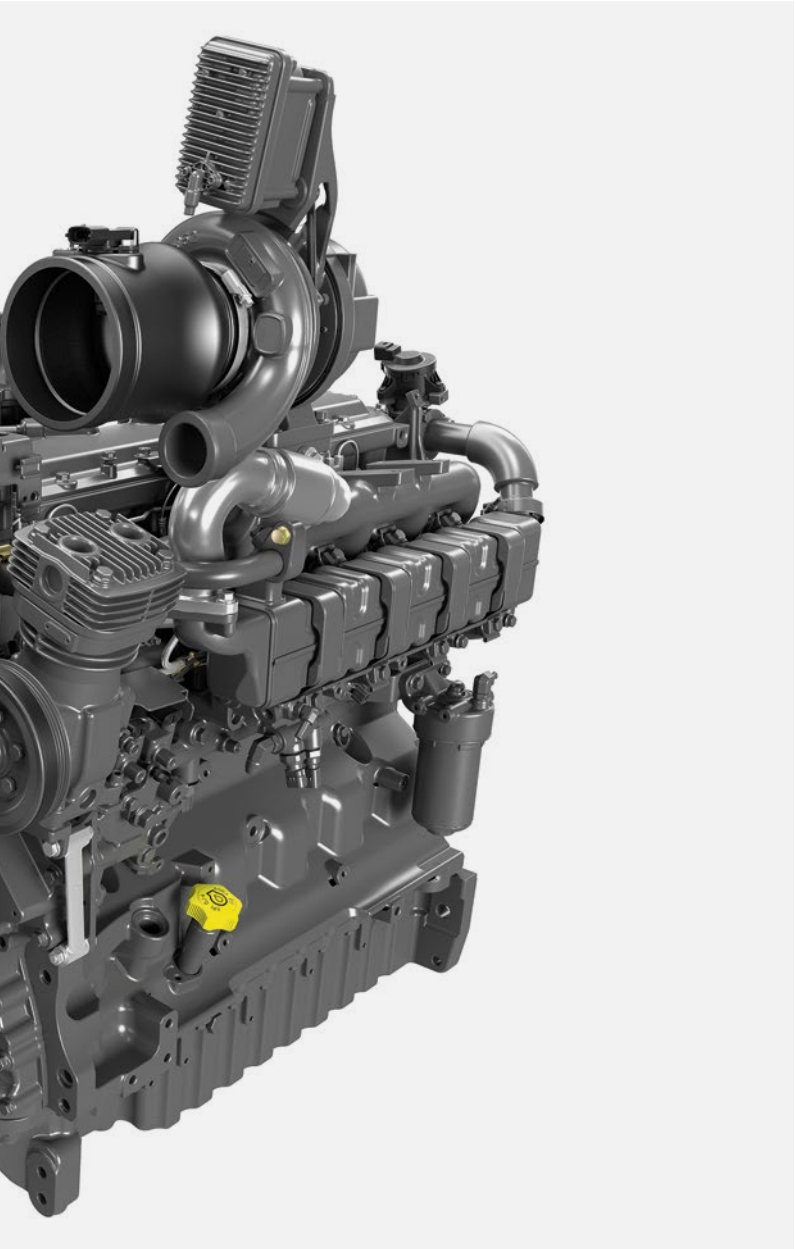
Powerful turbocharger.

The VGT turbocharger in the ARION 600 provides the optimum charge pressure at all engine speeds by automatically adjusting the paddle angle.

Thanks to load- and speed-dependent control, the 6-cylinder engine delivers high torque even at a low engine speed.

ARION 660 CMATIC.

The ARION 660 CMATIC delivers up to 205 hp thanks to the intelligent CLAAS POWER MANAGEMENT (CPM) electronic control system. 20 hp of additional boost power is available for PTO and transport work, and also for the fan drive, significantly increasing the performance and versatility of the ARION 660 CMATIC.



ARION	Maximum output (hp) ECE R 120
660	185 + 20 with CPM[1] (205)
650	185
630	165

Stage V thanks to exhaust gas filter and urea.

Exhaust gas recirculation (EGR) works by mixing a portion of the engine exhaust gases with the incoming air. This reduces the speed and temperature of combustion in the engine. The proven combination of diesel oxidation catalyst (DOC) and maintenance-free diesel particulate filter (DPF) reduces the level of hydrocarbons and soot in the exhaust gas.

SCR (selective catalytic reduction) system uses a synthetic urea solution (Adblue[2]) to convert nitrogen oxides remaining in the exhaust gas to water and pure nitrogen.

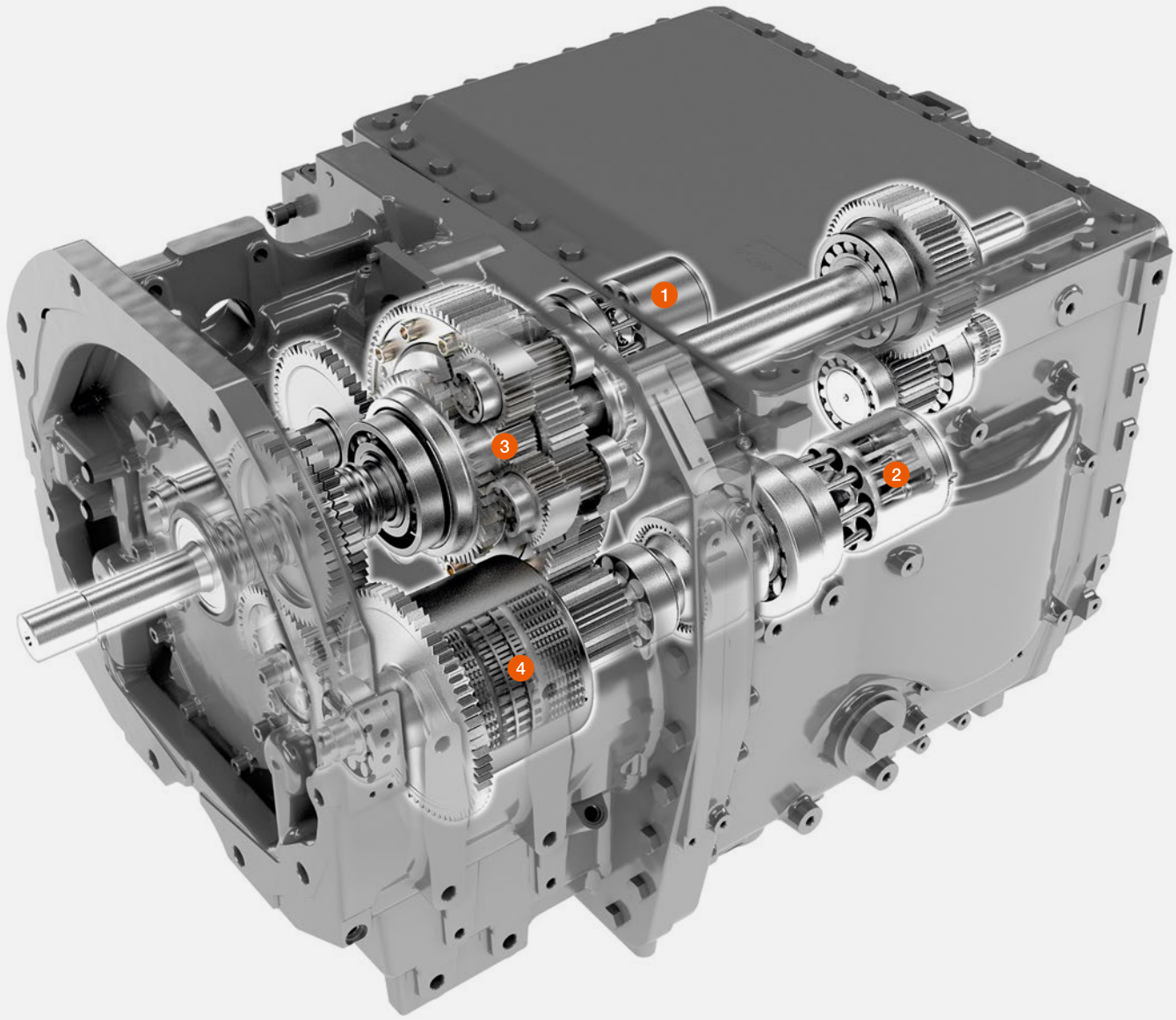
Visctronic – efficient fan control.

The Visctronic electronic fan control system precisely adjusts the fan speed based on engine, intake air and transmission temperature values as well as the engine speed and operating status of the air conditioning compressor. The reduced fan speed lowers the noise level and saves valuable fuel.

[1] CPM (CLAAS POWER MANAGEMENT)

[2] AdBlue is a registered trademark of the VDA.

CMATIC.
Simple, convenient and continuously variable.

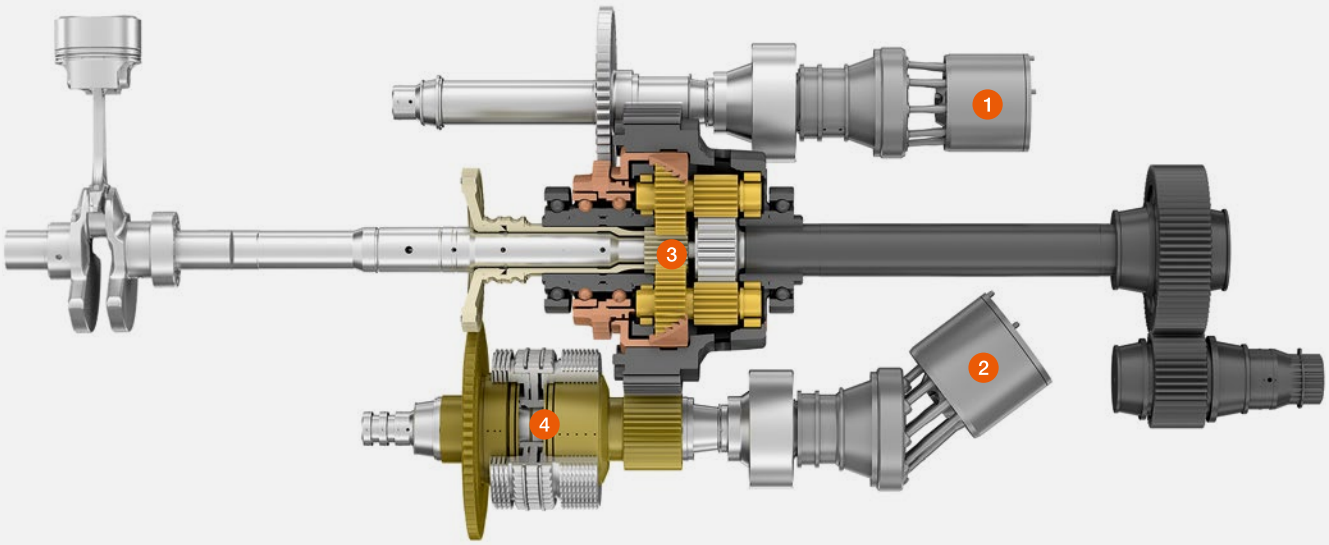


1 Hydrostat 1
2 Hydrostat 2
3 Stepped planetary transmission
4 Clutches for changing ratio

CPS | CLAAS POWER SYSTEMS

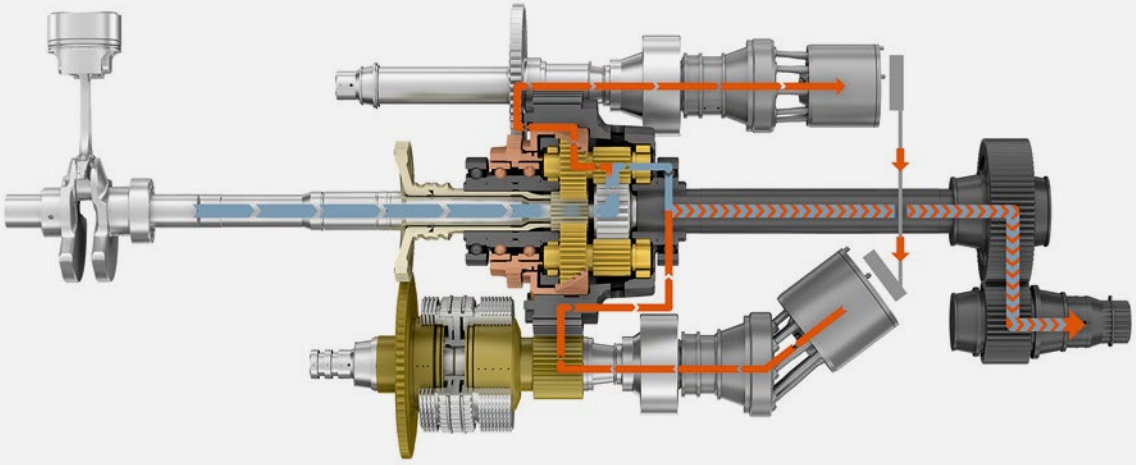
The continuously variable EQ transmission from CLAAS.

The ARION 600 CMATIC come with the continuously variable EQ 200 / 220, developed and built by CLAAS. This intelligent combination of stepped planetary gearbox, clutch unit and two hydrostatic units guarantees optimum power flow. The transmission is very simple in structure, with two automatically shifted drive ratios.



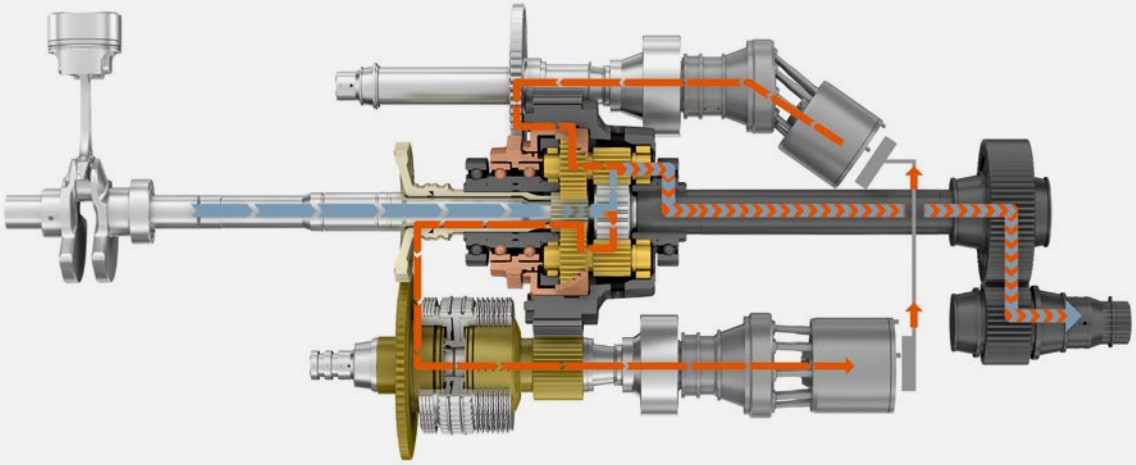
CMATIC.
The technology.

Drive ratio 1



Hydrostat 1: pump, hydrostat 2: engine

Drive ratio 2



Hydrostat 1: engine, hydrostat 2: pump

Mechanical power flow from the engine

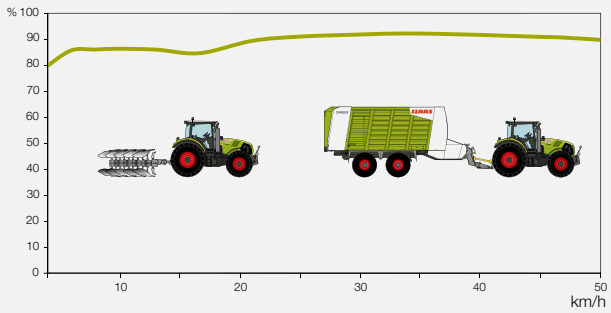
Hydraulic power flow

Combined power flow
(mechanical + hydraulic to transmission output)

CMATIC.
Driving has never been easier.

Drive ratio 1:

In the first drive ratio the tractor can start up, reverse or remain stationary in powered zero mode. (There are no mechanical shifting operations in the transmission.) The stepped planetary transmission splits the power coming from the engine (from the left) into a mechanical component and a variable, hydrostatic component. When the tractor accelerates, the rotational speeds of the two clutch shafts become closer and closer until they are the same. The drive ratio changes automatically at this point without the driver noticing.



The change in function between drive ratio 1 and drive ratio 2 guarantees consistently high efficiency at all speeds. ARION 600 / 500 CMATIC tractors are especially powerful as a result.

Drive ratio 2:

In the second drive ratio the power flow and functions in the transmission change. The hydrostats switch function. The stepped planetary transmission is intelligently connected with the hydrostats by means of the clutches. As a result, the stepped planetary transmission splits the power coming from the engine (from the left), then combines it again downstream of the hydrostats.

Superior transmission control.

Powerful acceleration, smooth deceleration and a fast response to changes in load: CMATIC powertrain management shows its capabilities in all conditions and for every task. Stay relaxed and focused throughout the working day so you can concentrate on more important things – CMATIC does the rest for you.

Efficient and user-friendly.

With engine speeds of 1,500 rpm at a top speed of 31 mph (50 km/h), ARION 600 tractors also demonstrate their full capabilities in transport operations. If the accelerator is not depressed, the transmission is in powered zero mode and maintains its position reliably without creeping or rolling. This means that the tractor can start up safely and easily at steep field entrances or road junctions, even with a full load.

The benefits for you:

- Completely smooth acceleration from 0 to 31 mph (50 km/h), even under maximum load
- Low fuel consumption on the road as maximum forward speed is reached at just 1,500 rpm
- Powered zero mode makes it easy to stop on slopes and start off again without using the service brake
- Drive ratio changes smoothly and automatically
- You are always in the right drive ratio
- Two drive ratios, which change the power flow and processes within the transmission – consistently high efficiency levels for low fuel consumption and maximum versatility in all applications

CMATIC.
Optimized settings.

Simple, straightforward operation.

The CMATIC transmission has three operating modes: accelerator pedal, drive lever and manual mode.

In the first two modes, forward speed can be controlled by the accelerator pedal or drive lever. The engine speed and transmission ratio are adjusted automatically – for optimum efficiency and optimized fuel consumption. In manual mode, the driver chooses the engine speed and transmission ratio. Automatic engine and transmission control is disabled.

Accelerator pedal or drive lever.

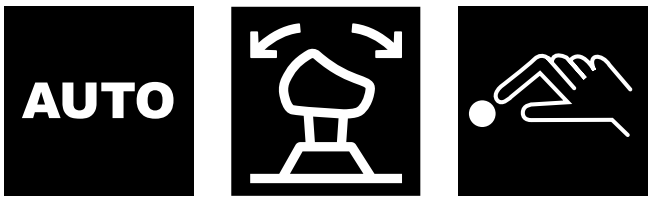
You can switch between accelerator pedal and drive lever mode while the tractor is moving by pressing a button on the armrest. The active mode is displayed in the CEBIS.

Engine droop at the push of a button.

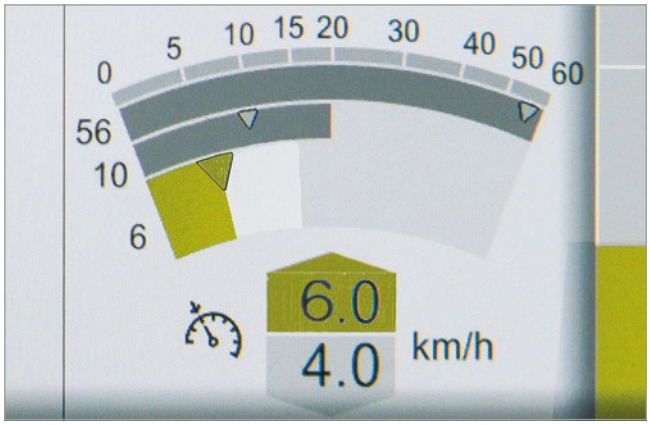
The engine droop value can be used for quick and easy regulation of the engine speed under full load. The CEBIS terminal clearly displays the engine speed at which the transmission reduces the speed.

When the engine speed memory is active, e.g. for PTO work, you can specify the difference from the saved engine speed at which the transmission ratio is reduced.

Two engine droop values can be saved for engine droop in accelerator pedal and drive lever mode. They are retrieved by the quick-access facility using the F buttons. With these values, known as "Eco" and "Power", the droop can be rapidly adjusted to the task in hand, e.g. when moving from the road to the field. The engine droop for the engine speed memory is defined separately.



The current driving mode is shown on the CEBIS display.



Tailor-made speed ranges.

With the CMATIC transmission, three speed ranges can be pre-selected in both directions of travel. The active range is displayed in the CEBIS and can be changed while the tractor is in motion using two buttons. The lower the maximum preset value for the range, the more accurately the forward speed can be controlled.

A cruise control speed can be saved for all the ranges while the tractor is moving by pressing the button on the drive lever. The cruise control speeds can also be pre-set on the CEBIS terminal.

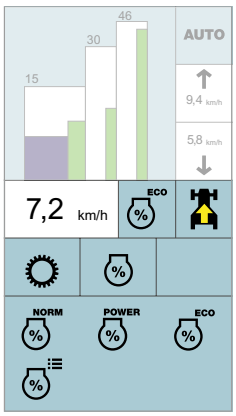
CMATIC allows drivers to create their own profiles according to the job in hand. Intelligent CMATIC transmission technology enables you to use the full power of your ARION economically and productively – with maximum operator comfort.

Stopping power.

In accelerator pedal mode, the CMATIC transmission offers different ways of adapting braking to the job in hand.

Increase the engine braking effect:
When the accelerator pedal is released and the multifunction control lever is pulled back, the transmission ratio is reduced, causing the engine speed to increase. This reduces brake wear.

Anti-jackknife brake:
When the trailer is braked with the service brake, you can accelerate at the same time using the accelerator pedal or by pressing the multifunction control lever. This maintains the distance between the tractor and trailer on steep hills and increases safety. These functions can be used whether the tractor is stationary or moving.



Engine droop setting for "Eco" and "Power",
and the engine speed memory.

Versatility.

REVERSHIFT clutchless reverser with electronic parking brake available.

Air brakes with air drier.

Wheel spacers to adjust the track and quick-release axle available as an option.

Fully balanced.

With so many front and rear axle ballast options, the ARION can easily be adapted to every application. Its full performance potential can then be exploited without unnecessary losses. If you need to carry out heavy work at low speeds, the ballasting on the ARION can easily be increased. Weight that is no longer required can be removed just as easily.

Wheel weight per wheel, rear axle			
38" rim		**42" rim**	
259 kg	337 kg	220 kg	409 kg

Front ballasting for every situation.

The factory-fitted fixed 110 kg weight carrier can be fitted with 28 kg, 35 kg or 50 kg weight plates. A 600 kg block weight can also be mounted on the 110 kg weight carrier.

The following factory-fitted combinations are available for flexible ballasting using the front hydraulics:

- 600 kg
- 900 kg
- 1,200 kg (600 + 600)
- 1,500 kg (900 + 600)

* Derived from internal studies, 2021

Safe braking.

Due to their design, all ARION models have the same permissible gross weight at up to 12.5 t.

The front axles have suspension and disc brakes as standard. The braking system on the front and rear axle provides maximum safety and stability on braking. During braking, the front axle suspension automatically adjusts to the change in load. The tractor therefore retains its normal stability and safety even during sharp braking maneuverer.

Any size up to 710 tires.

The ARION can be supplied with a wide variety of tires. All models can be fitted with MICHELIN XeoBib tires. Nokian industrial tires are available for municipal work. The ARION can also be fitted with tires up to 42" / 1.95 m in diameter to increase the contact area and traction. All models are equipped with a 3-meter bar axle that comes standard.

Powerful and economical at the push of a button.

Four speed ranges:

– 540 rpm and 1,000 rpm as standard
– 540/540 ECO and 1000/1000 ECO optional
– Ground speed PTO available for both PTO options

The PTO speed is easily pre-selected at the touch of a button. Another button on the armrest activates the PTO.

Automatic PTO engagement/disengagement can be adjusted continuously based on rear linkage height. Simply move the rear linkage to the position required and press and hold the automatic PTO button. The required engagement/ disengagement position is now saved.

Implement attachment is very straightforward as the PTO stub rotates freely.

Standing start.

The ARION transfers its full power to the PTO from a standing start and at low forward speeds.

Rotational speeds:
– 1000 ECO at 1,570 rpm
– 540 ECO at 1,530 rpm

In ECO mode the engine runs at a low speed, reducing noise levels and saving valuable fuel.

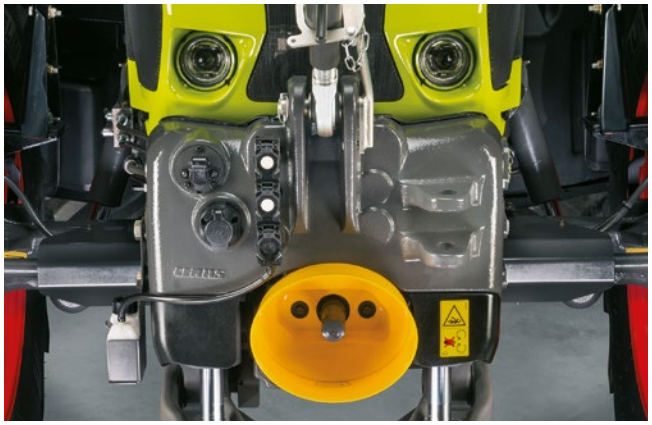
PTO with the right engine speed.

A press of a button on the rear mudguard is all it takes to switch on the rear PTO and then activate the engine speed memory. Just set the right engine speed for the attached implements in CEBIS in advance. This is recommended for all operations when you routinely use the external PTO switch. It saves time and makes your job easier and safer.

External controls for rear PTO.

The PTO stub can be changed easily.

Powerful hydraulics.
Simple connections.



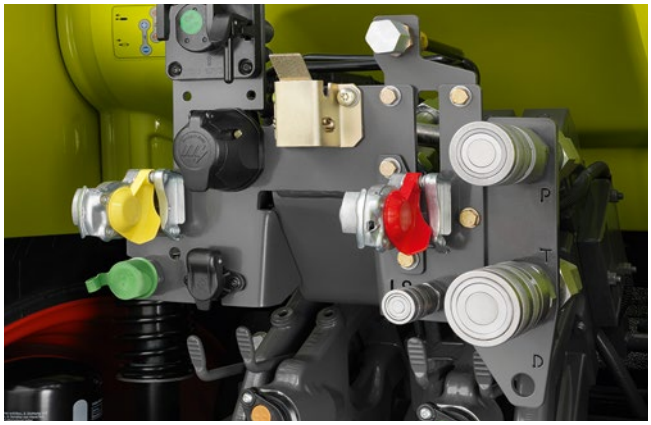
The front linkage has connections for one spool valve and one free-flow return line.

Pressure-free connections and no mess.

All eight hydraulic couplings at the rear of the ARION have release levers, so they can be connected and disconnected even under pressure. The color-coding on the inlet and outlet sides make it easier to attach implements correctly. Oil leakage lines collect the oil from the couplings when attaching and removing connectors.

Hydraulics that get the job done.

- Load-sensing hydraulic system for all ARION 600 models with 40 gpm (150 l/min) output
- In the CEBIS version: up to six electronic spool valves can be operated from the armrest – up to four of these with the ELECTROPILOT. Spool valve operation can be assigned to the F buttons on the CMOTION, multifunction armrest or ELECTROPILOT to make combined operating processes easier.
- Additionally in the CEBIS version: thanks to free assignment and prioritization of the spool valves, every driver can configure CEBIS to suit their personal preferences and the task in hand. The frequently-used hydraulic functions are positioned side by side for smooth operation.



Hydraulic power throughout.

Power Beyond connections are provided at the rear for implements which have their own control units.

The benefits of this are:

– Hydraulic oil is supplied to the attached implement as required
– Large-diameter pipes, flat-seal hydraulic couplings and non-pressurized return flow reduce power losses

Equipment	CEBIS
Max. number of electronic spool valves, rear	4
Max. number of electronic spool valves, center, e.g. for front loader or front linkage; operated from ELECTROPILOT	2
Spool valve prioritization	□
Power beyond	□
Free spool valve assignment	□

□ standard

The rear linkage handles even the heaviest of implements.

External controls for the rear linkage, PTO and one freely selectable spool valve.

Ball holder at rear.

Automatic lower link stabilizers.

The rear linkage.

With a maximum lifting capacity of 7.5 and 8.0 t, ARION 600 tractors can carry the heaviest of implements. The rear linkage configuration can be tailored to individual requirements:

- Manual or automatic lower link stabilizers
- Wheel slip control
- Hydraulic top link
- Robust and simple top link holder
- Practical ball holder at the rear
- External controls on both mudguards for the rear linkage, PTO and electronic spool valve (depends on installed equipment)
- Wide range of hitching options such as drawbar with hitch ball, automatic clevis, CUNA

Direct adjustment.

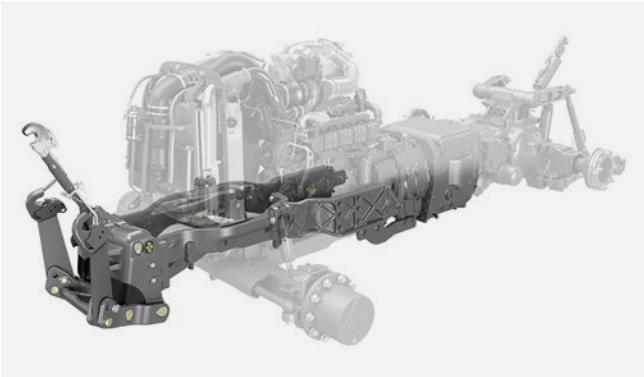
The main rear linkage functions are directly accessed via push buttons and dials on the right-hand B-pillar:

- Raise and lower
- Vibration damping on / off
- Lock rear linkage
- Activate slip control
- Lifting height limiter
- Lowering speed
- Draught and position control
- Adjustment of wheel slip control

The convex rear window and swiveling seat provide an excellent view of the implement and unimpeded operation of the rear linkage controls. The conveniently located controls enable the driver to optimize the rear linkage settings while work is in progress.

More versatility.
More applications.

External controls for the front linkage and one spool valve (depends on installed equipment).



Front linkage.

All ARION models are supplied with 4.0 t max. lifting capacity.

The modular construction makes retrofitting straightforward. The half frame along the engine is included in the scope of delivery. The rear axle support is a standard component of every ARION, even if it has no front linkage or front loader.

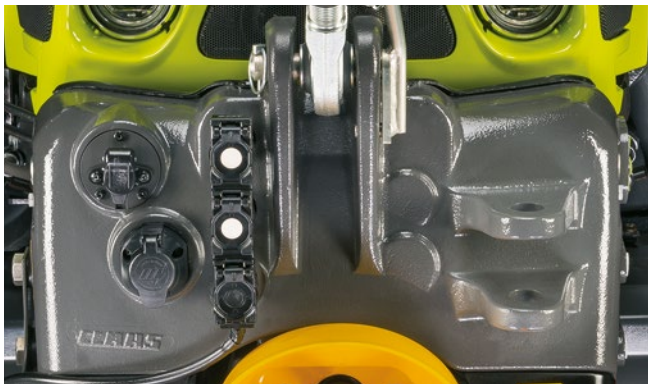
Front linkage and front PTO.

All ARION models feature a front linkage and front PTO:

- Three positions for the front lower links: folded up, fixed working position and float position in slotted hole
- Double-acting lift rams as standard
- Short distance between front axle and mounting points for improved guidance of front attachments
- 1,000 rpm PTO
- External control of the front linkage and double-acting spool valve.

Precise work.

The optional front linkage position control system for the CEBIS versions enables front-mounted implements to work extremely accurately. The working position is adjusted via a rotary knob on the armrest, while the lifting height can be limited and the lifting and lowering speed can be set using CEBIS. The front linkage can be used in single- or double-acting mode.



Always connected.

Optional hydraulic and electronic interfaces for many applications are incorporated into the front linkage:

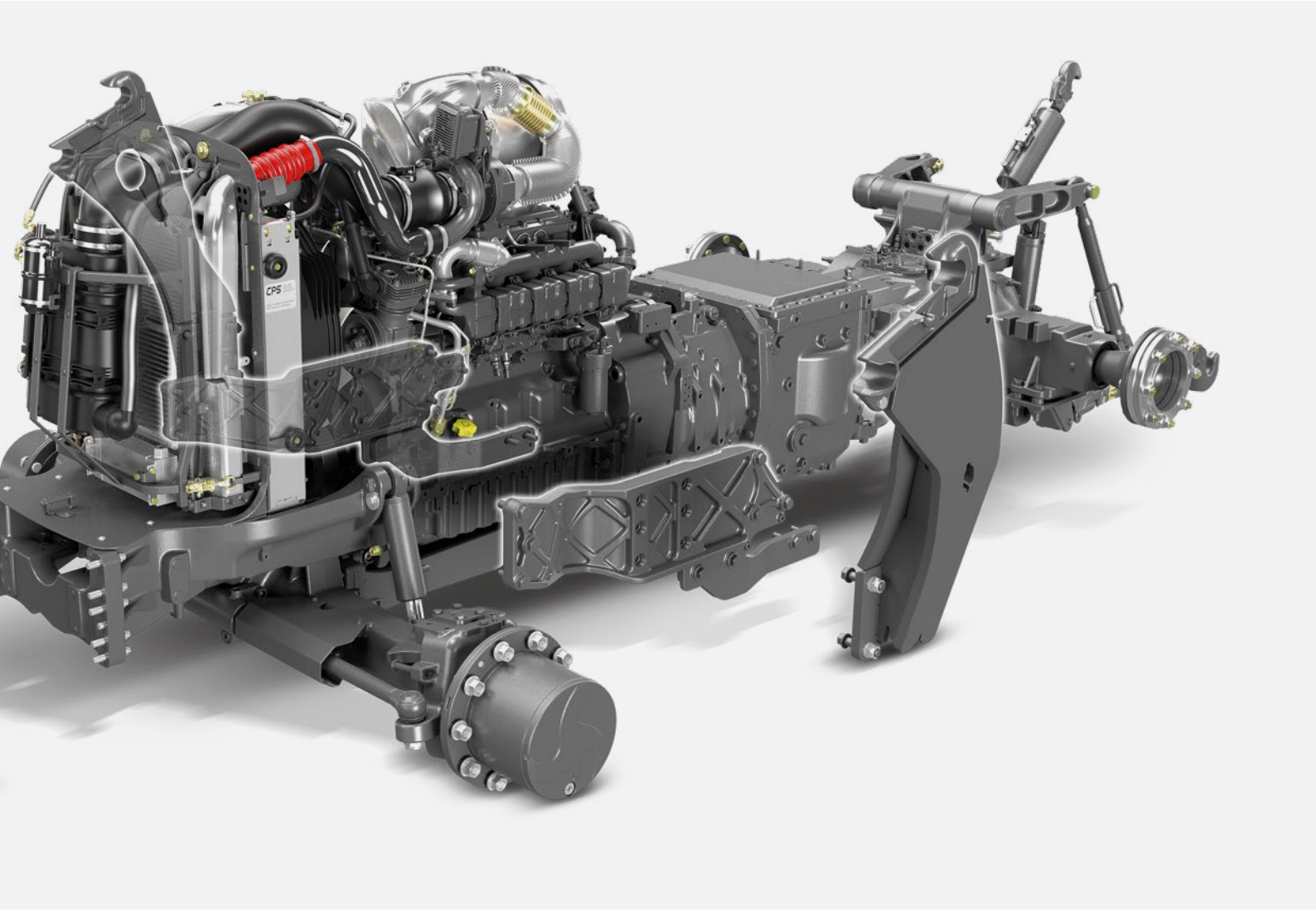
- Double-acting spool valve
- Free-flow return line
- 7-pin socket
- 12-V / 25-A socket or ISOBUS socket

CLAAS tractor concept for greater flexibility.

Smart ideas throughout.

CLAAS offers a range of factory-installed pre-fittings and equipment specially designed for ARION 600 tractors to make the tractor as versatile as possible.

With suitable pre-fittings, a front loader or front linkage can be retrofitted at any time. As an option, a robust half frame can be fitted along the engine between the front axle carrier and transmission. This frame absorbs forces as they arise and, at the same time, can be used as a coupling point for the front loader brackets. These are simply bolted to the half frame and can therefore be retrofitted at any time. If the ARION comes with a factory-fitted front linkage or a front loader, the half frame is included in the scope of delivery. Naturally, access to all maintenance points is guaranteed whatever equipment is fitted.



CLAAS tractor concept:

A long wheelbase combined with optimum weight distribution (50% front / 50% rear) and a compact overall length guarantee superb flexibility and performance.

Long wheelbase and excellent weight distribution:
- High driving comfort
- Good and safe road handling
- High tractive power and performance due to low ballast requirement
- Higher lifting capacity thanks to improved stability
- Optimizes fuel consumption
- Lower ballast requirement protects the soil and guarantees dynamic road transport

Short overall length:
- Excellent maneuverability
- Short trailer combination on the road
- Impressive visibility
- Great guidance of front-mounted implements

A perfect fit.
CLAAS FL 150 loader.

No compromises.
Even in front loader work.

For front loaders in particular, the connection to the tractor is extremely important in order to guarantee safe, fast loading operations. When developing the ARION 600, it was important for the attachment brackets to be fully integrated into the complete tractor concept. The brackets are positioned a long way back, providing stability during heavy work. The design of the attachment bracket allows a CLAAS front loader to be retrofitted easily at a later date.

The benefits.

- Front loader brackets can be factory-fitted
- Large FOPS (Falling Object Protective Structure) transparent sunroof
- Choice of three convenient control options: Factory-fitted ELECTROPILOT, PROPILOT and FLEXPILOT as retrofit options
- REVERSHIFT reversing function on the ELECTROPILOT four-way control lever
- PCH hydraulic self-leveling linkage on FL front loaders
- FITLOCK system for quick and convenient fitting / removal
- MACH quick-attachment coupler for electric and hydraulic circuits
- FASTLOCK hydraulic locking for implements
- SHOCK ELIMINATOR vibration damping system
- And not forgetting the full CLAAS service

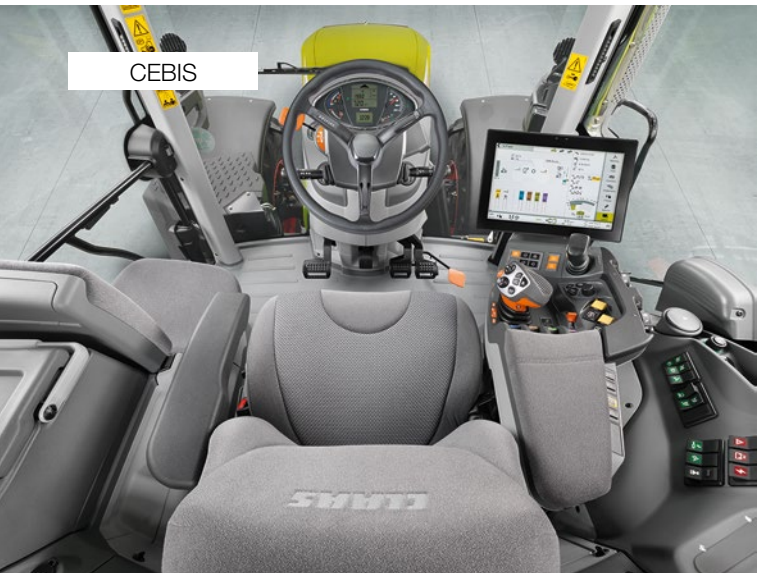
More than a workspace. It’s space that works.

Spacious and quiet, with large windows and full suspension. The ARION cabs guarantee maximum comfort throughout long working days with a 4-point design and clear, logical layout that comes standard across all ARION models.

- 12” touchscreen CEBIS terminal display and the innovative CMOTION multifunction control lever
- Powered Zero mode makes it easy to stop and start on slopes without using the service brake
- CSM headland management
- ISOBUS implement control
- CEMOS for tractors
- Spool valve prioritization


CLAAS

A clear view.
The cab.



CEBIS

CEBIS. Simply everything.

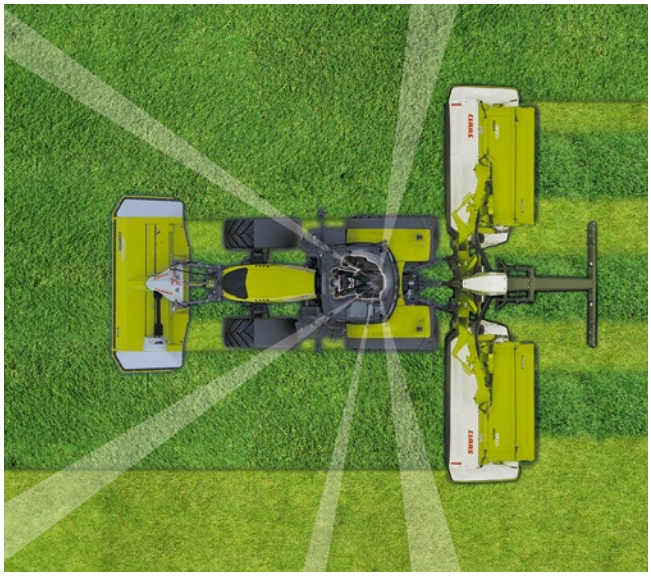
With the CMATIC transmission, the CEBIS version features electronic spool valves and the superb CEBIS terminal with a 12" touchscreen display. As well as enhanced automatic functions such as CSM headland management, camera image, ISOBUS implement control, CEMOS for tractors and spool valve prioritization, it also offers many other functions – CEBIS meets your every need. All settings can be entered in seconds thanks to touchscreen operation and logical menu navigation.

Outstanding visibility and accessibility.

Tractors in this performance class are used for all sorts of work. Constant climbing in and out of the cab while working in the yard and implements with a large working width are part of everyday life, so the cab must be designed accordingly. CLAAS has developed a 4-point cab suspension to meet these needs.

Benefits:

- Large-volume cab creates an extremely spacious working environment
- Clear view of the full working width
- Continuous windscreen
- 4-point cab: continuous visibility on the left-hand side of the cab



The cleverly positioned rear cab pillars and convex rear window give the driver an excellent view of the implement and hitch area.

ARION features	CEBIS
CEBIS terminal with touchscreen, CMOTION multifunction control lever and multifunction armrest	●
CMATIC transmission	○
HEXASHIFT transmission	○
PTO shaft management	●
Max. number of electronic spool valves	6
Max. number of electronic spool valves operated by ELECTROPILOT	4
CSM headland management with edit function	●
On-board computer functions	●
Implement management	●
Job management	●
Camera image	○
ISOBUS implement control	●
CEMOS for tractors	○
TELEMATICS	○
ICT (Implement Controls Tractor)	○

● standard ○ optional – not available

CEBIS version.
Simply everything.

An armrest that sets new standards.

All the main controls are integrated into the right-hand armrest:

1 CMOTION multifunction control lever
2 Control panel for drive mode, range changing and two engine speed memories with fine adjustment
3 CEBIS terminal with 12" touchscreen
4 ELECTROPILOT with two double-acting spool valves and two F buttons
5 CEBIS control panel
6 Working depth adjustment for front and rear linkage
7 Activate front and rear PTO
8 Hand throttle
9 Transmission in neutral, activate front linkage
10 Electronic spool valves
11 Four-wheel drive, differential lock, automatic PTO engagement/disengagement, front axle suspension
12 Main switch: battery, electronic spool valves, CSM, steering system

The height and position of the armrest can easily be adjusted to the driver's requirements.

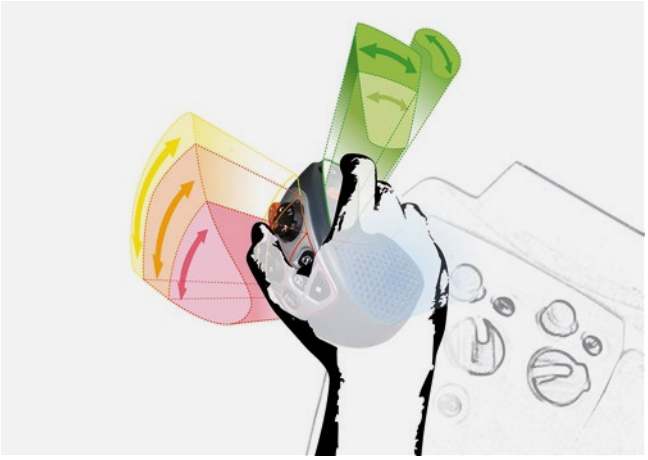
Functions that are used less frequently, such as PTO speed preselection and the main switches, are located to the right of the driver's seat. When the driver's seat is rotated, the electronic linkage control system can be operated comfortably with an excellent view of the attached implement. Fine adjustment of the settings can then take place while work is in progress. Two additional buttons enable you to raise and lower the rear linkage manually for easier implement attachment.

Clear, logical layout.

In all versions, many functions can be controlled directly using the rotary switches and buttons on the B-pillar:

A PTO speed selection
B Rear linkage settings
C Rear linkage status display
D Controls for electronic rear linkage control system

CMOTION multifunction control lever. Everything in hand.



CMOTION multifunction control lever.

The CMOTION is a CLAAS concept which makes using the main functions of the ARION easier and more efficient. Functions are controlled using your thumb and forefingers, allowing your hand to stay in one place for the majority of time and preventing fatigue.

Operating the CMATIC.

With the CMATIC, the forward speed can be adjusted precisely and continuously using the CMOTION.

Progressive operation with CMATIC continuously variable transmission technology.

At the push of a button.

The free assignment option for the ten function buttons on the CMOTION means that there is no longer any need to reposition your hands while you work. All implement-specific ISOBUS functions are easily controlled using the CMOTION:

- ISOBUS functions
- Event counter on/off
- Spool valves

Rear linkage functions on the CMOTION:

- Lower to preset working position
- Raise to the preset lift height position
- Manual activation: lift and lower at two speeds (slow/fast)
- Quick implement entry

1 Start up/change direction
2 Rear linkage
3 GPS PILOT activation
4 CSM headland management
5 Function buttons F7 / F8 / F9 / F10
6 Activate cruise control
7 Function buttons F1 / F2
8 Function buttons F5 / F6

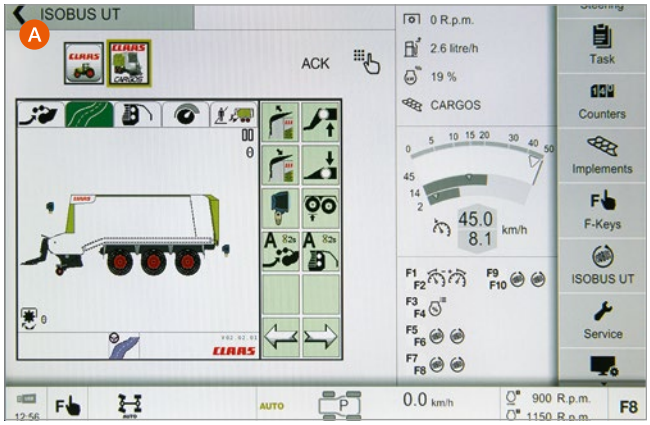
CEBIS terminal.
Everything under control.

Clear layout and fast operation.

The 12" CEBIS screen uses self-explanatory symbols and color coding to give a clear picture of the settings and operating statuses. Thanks to the CEBIS menu structure and touchscreen, all settings can be entered in just a few steps. A particularly attractive feature is the DIRECT ACCESS function with the machine silhouette. Just tap the relevant area to get straight to the right dialogue window.

An purpose-designed 12" screen.

1 Machine silhouette for DIRECT ACCESS and status display
2 Spool valve status
3 Vehicle information
4 Top sub-field: performance monitor
5 Middle sub-field: function button assignment
6 Bottom sub-field: transmission information
7 Menu
8 DIRECT ACCESS via CEBIS touch button or button on the armrest
9 Dialogue-based system for optimum settings



NEW: integrated ISOBUS implement control (A).

- In CEBIS intuitively switch between ISOBUS implements, road travel and field work screen layouts
- Clear view of ISOBUS implements in main field
- Simply connect ISOBUS cable at the front or rear and off you go
- Assign up to ten ISOBUS functions to CMOTION function buttons for direct operation

New: camera image display function (B).

1 Display up to two camera images in the sub-field
2 Toggle between machine silhouette, Camera 1 and Camera 2 in the main field

CEBIS – simply better:

- Fast and intuitive navigation using the CEBIS touchscreen
- Rapid access to the sub-menus with the DIRECT ACCESS touch button on the CEBIS or button on the armrest
- Tap the machine silhouette, main field or sub-field
- Navigate using the rotary/push switch and ESC button on the armrest – ideal when driving on rough terrain
- Two different screen layouts available (road travel and field work)
- ISOBUS function
- Specify the user type: limit the scope of CEBIS settings to suit driver experience
- Freely assign the three sub-fields, e.g. for transmission, front and rear linkage, function buttons, headland sequences, camera or performance monitor

As well as screen-based operation with the CEBIS, there is a set of buttons in the armrest. Full CEBIS operation is available using the rotary/push switch and ESC button if uneven ground reduces the accuracy of fingertip operation. The DIRECT ACCESS button takes you straight to the settings for the last used tractor function.

1 Menu navigation
2 Select
3 ESC button
4 DIRECT ACCESS button

Ergonomics and comfort for optimum working conditions.

LED headlights for perfect illumination.
If you're still working when it goes dark, the work lights will light up the whole of the area around the machine, so you can see exactly what you're doing. For even more demanding situations, up to 14 LED work lights and four LED road lights can illuminate the entire surroundings of the ARION almost as brightly as daylight.

First-class comfort.

The ARION has several practical features which make it the ideal choice for long working days. A large number of storage options means that the driver can always find space for a mobile phone or documents. Under the passenger seat there is a cooler compartment which has room for two 1.5 liter bottles and snacks. Perfect for your lunch break.

All ARION models are fitted as standard with air conditioning and, optionally, with a category 3 filter. All components are built into the double-insulated cab floor to ensure quiet operation.

As well as the manually controlled air-conditioning system, a fully automated version is available which provides a pleasant flow of air through the cab.

Clear and logical layout.

The instrumental panel is mounted on a fully adjustable steering column. It pivots with the column to give an unimpeded view of the controls at all times.

Illuminated interior.

When the road lights are switched on, all the controls and the symbols on all the switches are illuminated. You have the option to select a darker color scheme in CEBIS.

Leather with premium package.

The driver and passenger seat are available with modern, non-slip fabric or elegant, easy-care leather upholstery.

Sockets in easy reach.

All the sockets for the power supply as well as ISOBUS sockets for additional terminals are located under the right console.

Bluetooth connection.

The built-in Bluetooth handsfree device with external microphone allows you to make clear calls from the comfort of your cab.

More fresh air.

Choose between a front-opening transparent sunroof or a rear-opening roof hatch.

Wide-angle for better visibility.

As well as the large standard mirror, a wide-angle mirror for improved road safety is supplied as standard.

Non-slip leather steering wheel.

The robust leather steering wheel provides a secure grip and an uninterrupted view of the instrument panel whatever position it's in.

Tinted rear window.

Tinted rear window (optional) help maintain a comfortable cab environment and reduces glare when you're working in the low evening sun.

Suspension that protects both operator and machine.

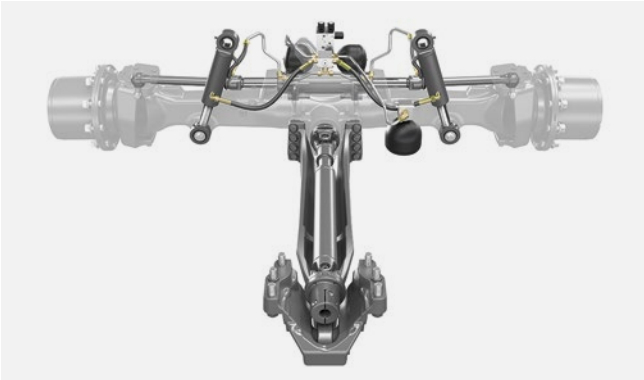
Full four-point suspension.

Four suspension points mean that the cab is fully isolated from the chassis, preventing impacts and vibration from reaching the driver. Longitudinal and lateral struts join the suspension points and keep the cab stable when turning corners or braking. An adjustable torsion strut makes it possible to choose between three different suspension hardnesses. The entire suspension system is completely maintenance-free.

Ventilated and warm: the premium seat.

Five Sears and Grammer seats are available, including a ventilated premium seat.

- Active seat ventilation makes the seat feel good whatever the weather
- Suspension automatically adjusts to the driver's weight



PROACTIV front axle suspension.

The CLAAS suspension kinematics in ARION 600 / 500 tractors produce outstanding drive characteristics. Widely spaced suspension cylinders and active roll stabilization on bends guarantee vehicle stability and safety, while the double-acting suspension with load change compensation and 100 mm suspension travel deliver outstanding ride comfort.

Vibration damping.

Heavy implements mounted on the front put a strain on the tractor as well as the driver. The front and rear linkage are both equipped with vibration damping to compensate for peak loads during transport operations and when the attached implement is raised at the headland.

Switch to activate front axle suspension.

Get more done.

Operator assistance systems.

There is no substitute for your experience. It's what allows you to respond quickly and appropriately to the challenges you face in your daily work. When you're dealing with difficult terrain or changing soil conditions, you have to make decisions very quickly to get the job done to the right standard. That's why it's good to be able to count on a tractor with CEMOS to reduce your workload.

Data management.

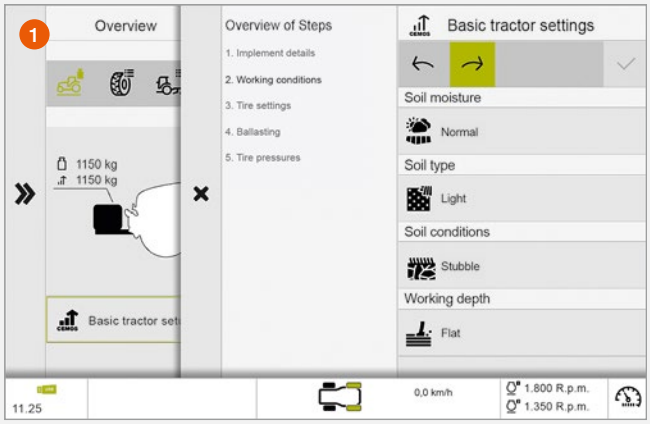
Data have long since become an indispensable resource. To profit from their full potential, you should take good care of them, just as you would your machinery fleet. All systems, machines and work processes have to be meaningfully connected, and data generated must be sent to many different places for analysis.


ARION
CLAAS
660
CLAAS

CEMOS for tractors.
Makes good operators even better.

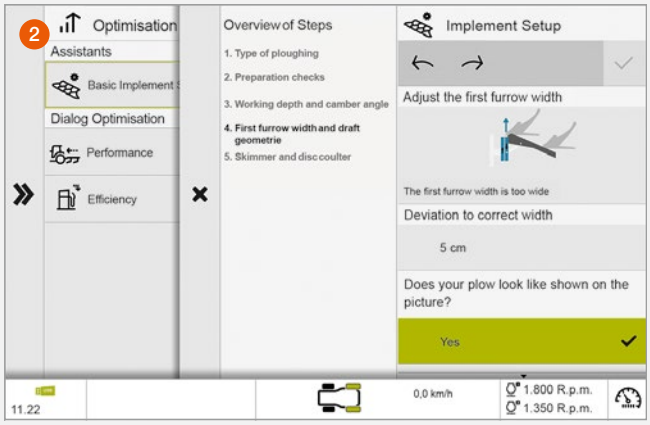
CEMOS teaches itself and trains the user.

The CEMOS self-learning operator assistance system is the only one of its kind on the market to optimize the performance of both the tractor and attached implements such as plows and cultivators. This enables the driver to set the correct ballast and tire pressure for the tractor/implement combination and the task. CEMOS uses a dialogue-based interface to make recommendations for all the important settings, e.g. for engine, transmission and implement. This helps to ensure optimum traction and soil protection at all times. With CEMOS you can increase your work rate, improve the quality of your work and reduce your fuel consumption by 12%.



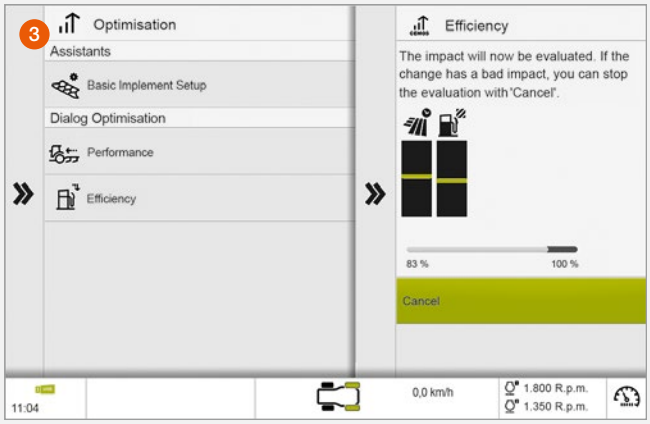
Phase 1.
Preparation in the farmyard.

CEMOS recommends the required ballasting and optimum tire pressure to suit the selected implement and task before the driver has left the farmyard. The dynamic learning system gathers more measurements while work is under way, and adapts its recommendations accordingly next time around.



Phase 2.
Basic setting in the field.

The integrated CEMOS knowledge database provides step-by-step instructions on basic settings for implements, with illustrations. Assist systems are now available for all plows. Further implements will follow in the near future. These provide valuable assistance for drivers working with new or unfamiliar implements.



Phase 3.
Optimization while work is under way.

The driver opens the optimization dialogue in the field. CEMOS checks all the basic settings, and offers suggestions for improving “performance” and “efficiency”, which the driver can accept or reject. After each change of setting, CEMOS recalculates and shows whether the work rate and diesel consumption have improved, and by how much.

Precision at the headland with CSM.

CLAAS SEQUENCE MANAGEMENT.

CSM headland management takes the load off you whenever you need to maneuverer at the headland. By pressing a button, you can run any of the previously recorded functions.

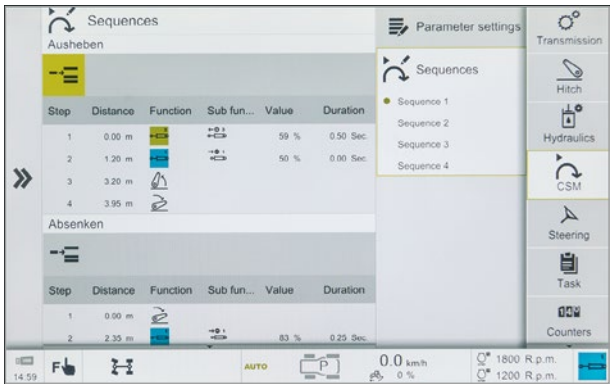
	CEBIS
Number of storable sequences	Four per implement, up to 20 implements
Sequence activation	CMOTION and F buttons
Recording mode	Time- or distance-related
Edit function	Subsequent sequence optimization in the CEBIS

The following functions can be combined in any order:

- Spool valves with time and flow control
- Four-wheel drive, differential lock and front axle suspension
- Front and rear linkage
- Cruise control
- Front and rear PTO
- Engine speed memory

Easy to record and run.

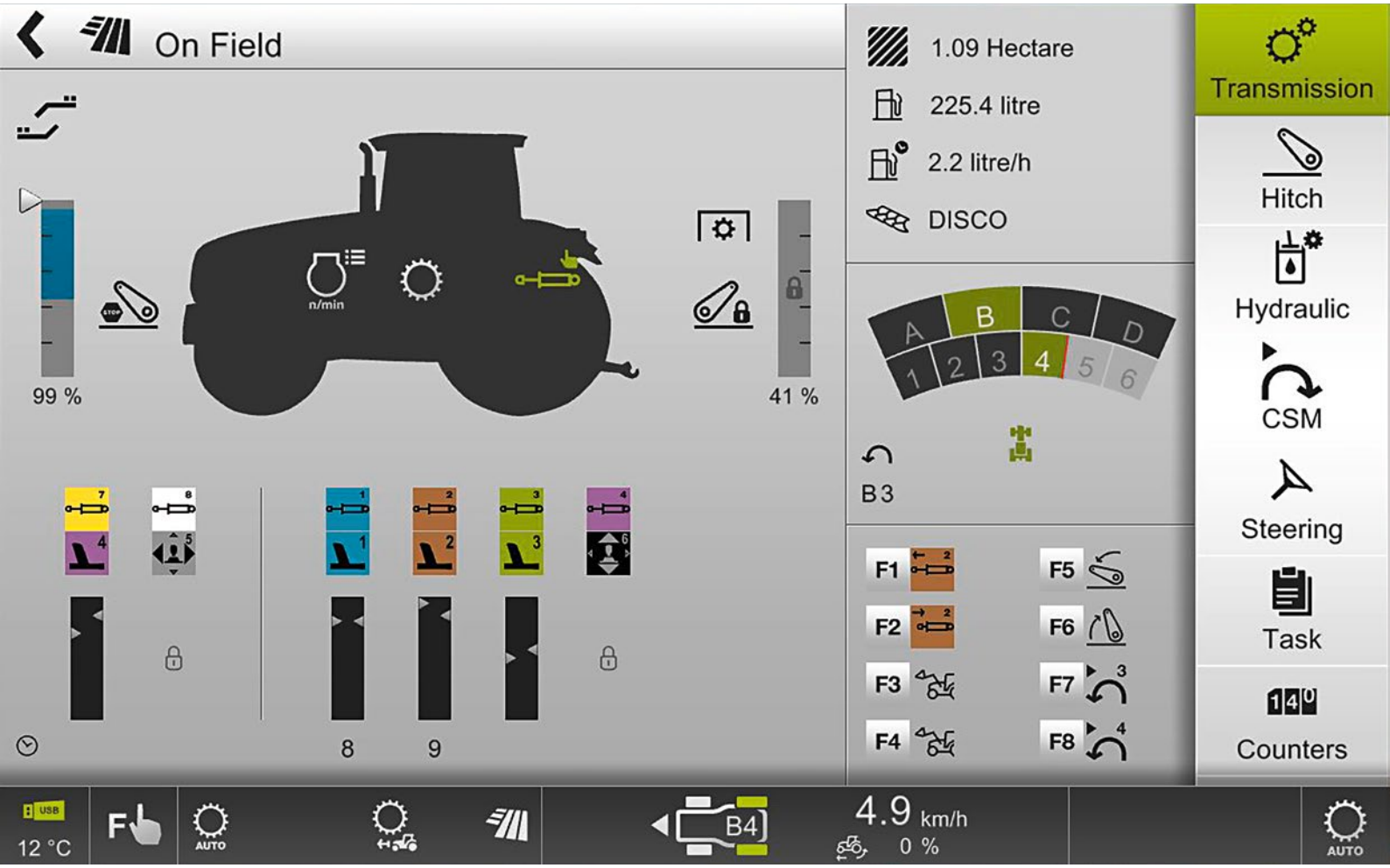
Sequences can be recorded on a distance- or time-related basis. During recording, clear symbols allow the driver to follow the creation of the sequence step-by-step on the CEBIS display. A sequence that is running
can be paused and restarted by simply pressing a button.



Non-stop optimization with CEBIS.

Recorded sequences can be changed and optimized in the CEBIS at a later date. Steps can be added and deleted or changed and adapted in minute detail, allowing times, distances and flow volumes to be tailored to current conditions. Once a sequence has been recorded, it can be refined down to the last detail in just a few steps.

Even better control with ISOBUS and ICT.



The way you want it.

With the CEBIS version of the ARION, you can use the integrated terminal to control ISOBUS-compatible implements. Alternatively, portable displays from CLAAS offer flexible control options for ISOBUS and steering systems for all cab versions. You can also transfer the terminal from a tractor or self-propelled harvester to another machine, depending on the season or job in hand. Fit your ARION with the equipment you need straight from the factory or as a retrofit option.

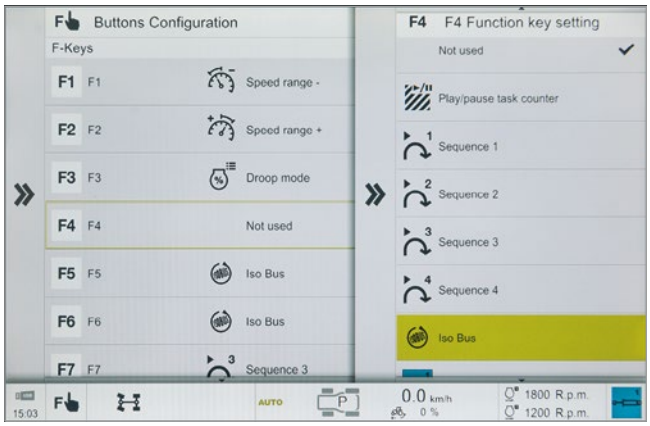
ISOBUS implement control.

Sockets are provided at the front and rear to connect ISOBUS-compatible implements to the tractor. The ISOBUS-enabled terminal can be connected using another socket in the cab. The attached implement is operated by means of a machine-specific screen. ISOBUS compatibility means that implements from other manufacturers can also be operated using the CEMIS or CEBIS terminal.

[1] Apple iPad devices from iOS 9. A specific list of devices is provided in the description of the EASY on board app in the Apple App Store. A CWI (CLAAS Wireless Interface) is needed to connect to the in-cab ISOBUS connection.

Function buttons.

ARION tractors have up to ten F buttons to which different functions can be assigned in CEBIS. The current assignment can be viewed at any time in CEBIS. The buttons are assigned to the corresponding function using ISOBUS terminals, enabling each driver to customize tractor operation to suit individual requirements.



F button assignment in CEBIS.

ARION 600 – AEM-compliant.

AEM (Associate of Equipment Manufacturers) is the leading organization in North America advancing agriculture equipment manufacturers and their value chain partners in the global marketplace. In enabling growth together, AEM and its members build momentum for the equipment manufacturing industry and the markets it serves.

These systems comply with the ISO 11783 standard. The ARION 600 was developed according to these requirements and supports the ISOBUS functionality specifications ISO UT 1.0, TECU 1.0, AUX-O and AUX-N for ISOBUS implements. Seamless functionality makes the toughest jobs easier for the operator to control implements in a multi-color implement world.

ICT (Implement Controls Tractor).

Thanks to ISOBUS, when the ARION is used in combination with the QUADRANT square baler, two ARION CMATIC functions can be automatically controlled by the implement:

ICT CRUISE CONTROL:
Optimizes the performance and work quality of the implement by controlling the tractor's forward speed. The speed is continuously adjusted to suit the current conditions, enabling you to get the best out of your machine combination.

ICT AUTO STOP:
If an overload is detected in the implement, the ICT AUTO STOP function automatically switches off the PTO. This protects the entire drive train throughout long working days and reduces the driver's workload.

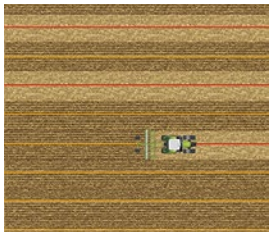
Always on the right track.
CLAAS steering systems.

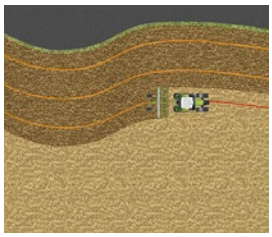
Precision farming for all seasons.

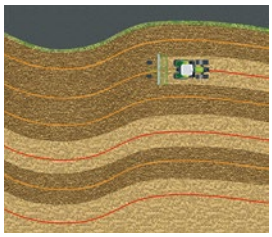
Automated processes are part of everyday farming life. At CLAAS we strive to create optimal conditions for you with our digital products and solutions. With the GPS PILOT CEMIS 1200 you can operate all year through cost-effective and simple precision farming. With tractors, CEMIS 1200 assists you in a variety of applications from tillage to planting. With the automatic steering system, your machine will seem like it's running on rails.

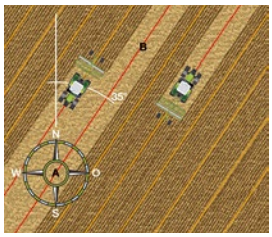
Advantages at a glance:

- Fully integrated automatic steering system
- Task management: record and document all key operational and process data
- Efficient work processes: reduce operating costs, optimize working times, cut fuel consumption and relieve your driver's workload
- Integration into all prepared CLAAS tractors
- Can be transferred from one machine to another for multiple applications









Correction signal to meet individual needs.

The design of the CLAAS range enables you to extend your system easily at any time. This applies just as much to the terminal technology as to the use of today's essential correction signals.

CLAAS steering systems can be used with GPS and GLONASS satellite systems to enhance their flexibility and operational capabilities.

RTK NET (accuracy ± 2-3 cm)
- Correction signal via mobile phone network
- Unrestricted working radius

RTK FARM BASE LINK (accuracy ± 2-3 cm)
- Base station
- Station data transmitted via the mobile phone network (NTRIP)
- Operating radius 30 km

RTK FARM BASE (accuracy ± 2-3 cm)
- Base station with digital and analog radio can be used
- Range up to 15 km

RTK FIELD BASE (accuracy ± 2-3 cm)
- Mobile reference station
- Range 3-5 km

SATCOR
- Satellite-based correction signal from CLAAS
- Virtually worldwide coverage

SATCOR 15 (accuracy ± 15 cm)
- Improved basic accuracy
- Quick signal availability
- Good signal suitable for many applications from soil cultivation to harvesting

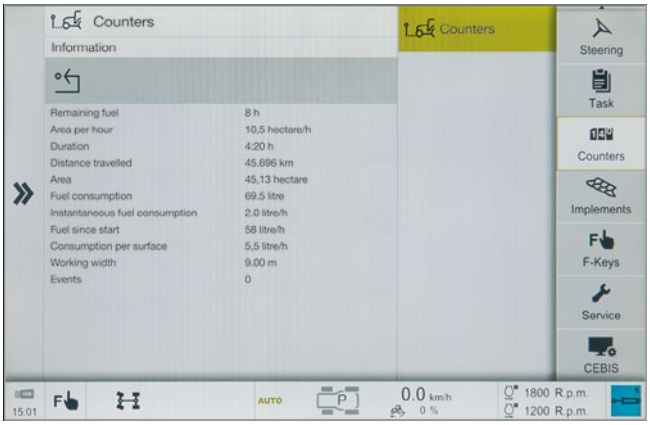
SATCOR 5 (accuracy ± 5 cm)
- Ideal in areas where RTK and mobile phone coverage is patchy
- Longer initialization period than SATCOR 15 but more accurate

EGNOS / E-DIF (accuracy ± 30 cm)
- No license fee
- Basic accuracy

Keep track of all machines and jobs. All the time.

Field management with CEBIS.

Up to 20 jobs can be set up and stored in CEBIS in order to produce documentation for the work done. First you enter the working width, then you can start area calculation and the fuel consumption display per hectare. To get the most accurate results, the speed can be measured by radar.

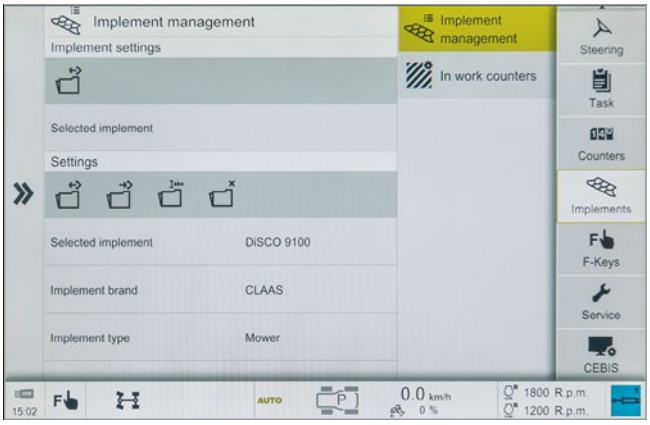


Implement management with CEBIS.

With CEBIS, details of up to 20 implements can be recorded. All the preset values are permanently assigned to the specific implement.

- Settings for transmission and hydraulic spool valves
- Four CSM sequences
- Area calculation – mode and activation
- Working width of attached implement
- Transfer settings from one tractor to another via USB stick

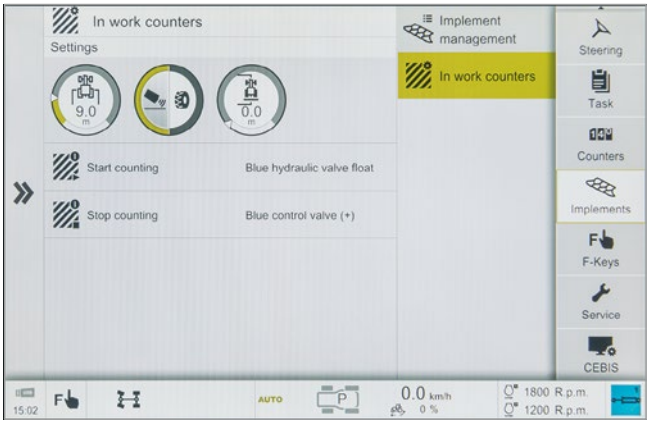
This saves on unnecessary adjustment tasks when changing implement or driver. Just attach the implement, load the implement in CEBIS and start work. Tablet-type operation makes creating new implements child's play.

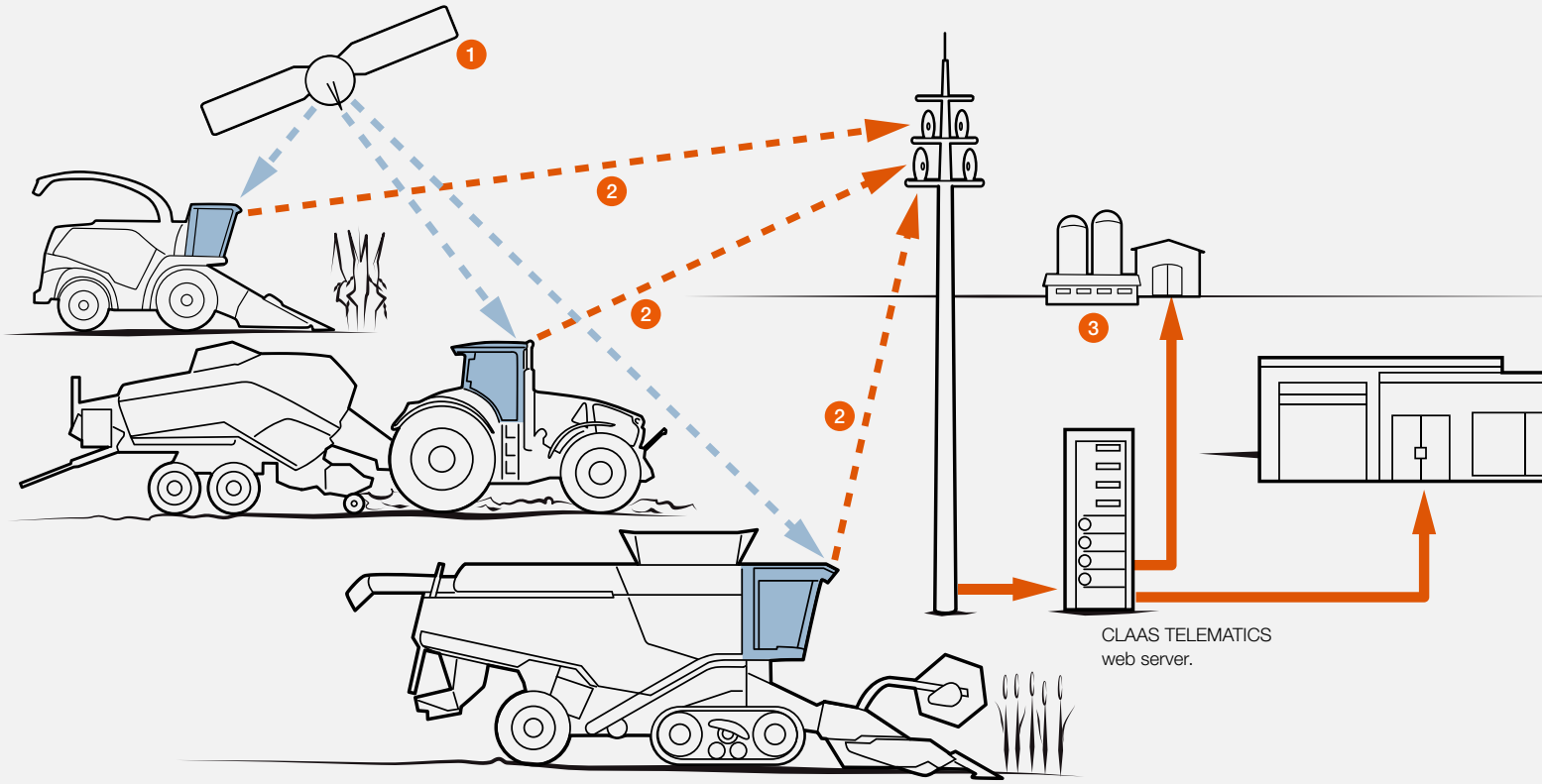


CLAAS TELEMATICS.

- Improve work processes: operating time analysis
- Optimize settings: remote monitoring
- Simplify documentation: data collection
- Faster servicing: remote diagnostics.

TELEMATICS allows you to call up any information about your machine at any time from any location. The data collected are sent to the TELEMATICS web server at regular intervals via the mobile phone network. This enables you or an authorized service partner to access and evaluate the relevant information via the internet.





1 Machines receive signals transmitted by GPS satellites.

2 Machines send the GPS coordinates, machine-related performance data and reports to the TELEMATICS web server via the mobile phone network.

3 These data are directly accessible to farms or service partners via the internet.

The functions.

Operating time analysis
- Working time analysis
- Reduce downtime
- Review machine settings
- Optimize fuel consumption

Remote monitoring
- Position displayed in Google Earth®
- Current activity

Data collection
- Automatic data collection for documentation
- Secure storage on central server
- Standard interfaces for data export from TELEMATICS

Remote diagnostics
- Maintenance planning
- Remote diagnostics with CDS

Connect your machines.
Optimize your jobs.
Connected-machines.claas.com

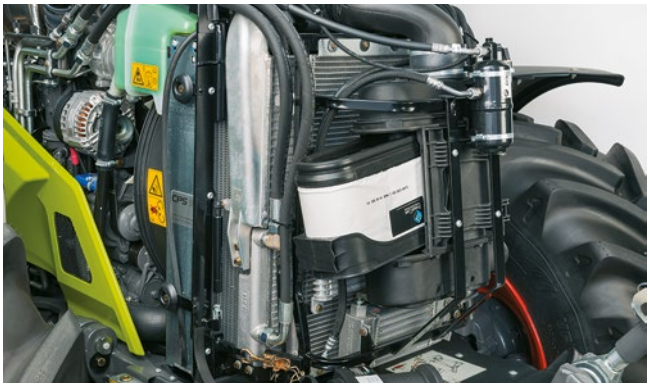
Fast, straightforward maintenance.

Fast maintenance.

Daily maintenance work should be as straightforward as possible – because we know from experience that nobody enjoys doing things that are complicated or inconvenient.

- The large, one-piece bonnet opens at the press of a button, providing access to all the engine maintenance points
- The oil can be checked and topped up on the left-hand side of the ARION when the bonnet is closed
- All daily maintenance tasks can be carried out without tools

Long oil-change intervals (engine 500 h, transmission and hydraulics 1,500 h) save a great deal of time and money. This means that less valuable working time is lost during the season and the tractor is where it should be – at work.



Fresh air for full power.

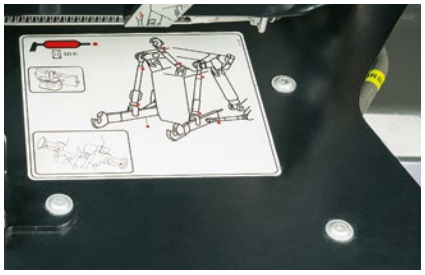
The large intake panels in the bonnet provide plenty of fresh air for cooling and for the engine air filter. Low flow rates at the intake panels help them to stay clean and permeable at all times.

The radiator assemblies are supported by a robust frame and gas-filled shock absorbers open the radiator panels to two positions for thorough cleaning. Cleaning can therefore be carried out safely and conveniently as required.

The air filter is in an accessible location in the cool zone in front of the radiator panels so there are no obstacles to removing it. The generously sized air filter is designed for a long service life. Coarse dirt particles are removed in the filter housing, further extending the cleaning interval.

The battery and a tool storage compartment are handily located in the access steps on the right-hand side.

The oil can be checked and topped up when the bonnet is closed.



A lubrication chart under the bonnet simplifies maintenance.

Easy access to the cab air filter on the cab roof.

Compressed air connection on the left side of the access steps.

CLAAS ARION 600.
Does the work for you.

At a glance.

- Reach peak torque with a low engine speed concept for better fuel economy
- Efficient power transfer to PTO equates to higher PTO power than the competition at similar engine hp
- Powered Zero Mode makes it easy to stop and start on slopes without using a service brake
- Continuously variable CMATIC transmission designed in-house
- Reach a max 31 mph speed at lower engine rpm than the competition
- Four-point cab and axle suspension comes standard
- Hydraulic self-leveling FL 150 loader has a 7,500 lbs. lift capacity and reaches up to 15 feet in the air
- Automatic stretch brake braking system adds convenience to trailer hauling applications
- Intuitive in-cab workspace and controls that fuel productivity with increased levels of customization using CMOTION and F-Keys
- Optimized field work with the CEMOS assistance system that analyzes and suggests optimal settings for your tractor for specific implements and field conditions

CMATIC / CPS.

- Intelligent shifting that improves fuel economy and driver comfort
- Linear drivetrain configuration for direct transfer of engine power
- Optimum ground speed control at constant PTO shaft speed
- Seamless operating at up to 31 mph at low engine rpm
- Components include a multi-step planetary gearbox, a hydrostatic unit and two multi-plate clutches.
- Half frame concept, designed for extreme loads and better flexibility
- Powerful 6-cylinder engines from 165 to 185 hp and even up to 205 hp with CPM
- Front loader fully integrated into the tractor for high stability and optimum handling
- Long wheelbase and balanced weight distribution
- Versatility on the move with 1.95 m diameter tires (42" rim) from ARION 630
- Compact design with integral front linkage – fully road-compatible
- Up to four PTO speeds available (540/540 ECO / 1000/1000 ECO)

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Specifications.

ARION		660	650	630
Engine				
Manufacturer		DPS	DPS	DPS
Number of cylinders		6	6	6
Cubic capacity	l	6.7	6.7	6.7
Variable geometry turbo		●	●	●
Rated output (ECE R 120)[1]	hp (kW)	175 (129)	175 (129)	155 (114)
Max. output (ECE R 120)[1]	hp (kW)	185 (136)	185 (136)	165 (121)
Max. output with CPM (ECE R 120)[1]	hp (kW)	205 (151)	–	–
Engine speed at maximum output	rpm	2,000	2,000	2,000
Type approval value for CMATIC models[2]	hp (kW)	193.1 (144)	171.7 (128)	154.2 (115)
Max. torque (ECE R 120)[1]	ib-ft	626 (with CPM)	556	518
Engine speed at max. torque	rpm	1,500	1,500	1,500
Max. fuel tank capacity	gal (l)	97.7 (370)	97.7 (370)	97.7 (370)
Oil-change interval	acre (h)	1,235.5 (500)	1,235.5 (500)	1,235.5 (500)
CMATIC continuously variable transmission				
Transmission		EQ 220	EQ 200	EQ 200
Speeds (min.-max.)	mph (km/h)	.03-31.1 (0.05-50)	.03-31.1 (0.05-50)	.03-31.1 (0.05-50)
REVERSHIFT clutchless reverser		●	●	●
Rear axle				
3 meter bar axle		●	●	●
Electrohydraulically activated differential locks		●	●	●
Automatic differential lock		●	●	●
Park-lock		○	○	○
Max. rear tires		710/60 R 42	710/60 R 42	710/60 R 42
Max. diameter of rear tires	ft (m)	6' 5" (1.95)	6' 5" (1.95)	6' 5" (1.95)
Oil-change interval	acre (h)	3,707 (500)	3,707 (500)	3,707 (500)
PTO				
Wet multi-disc clutch		●	●	●
External controls		●	●	●
540/540 ECO / 1000/1000 ECO		●	○	○
Changeable PTO stub		●	●	●
1⅜" PTO stub: 6 and 21 splines		□	□	□
Automatic PTO engagement / disengagement		●	●	●
Four-wheel drive front axle				
PROACTIV front axle suspension with braked front axle		●	□	□
Automatic 4-wheel drive		●	●	●
Optimum turning radius	ft (m)	18 (5.5)	18 (5.5)	18 (5.5)
Hydraulics				
Load-sensing circuit 150 l/min		●	○	○
Max. operating pressure	psi	2900	2900	2900
Number of electronic spool valves (CEBIS)		2-4	2-4	2-4
Two central electronic spool valves, operated from ELECTROPILOT		○	□	□
Flow rate control		●	●	●

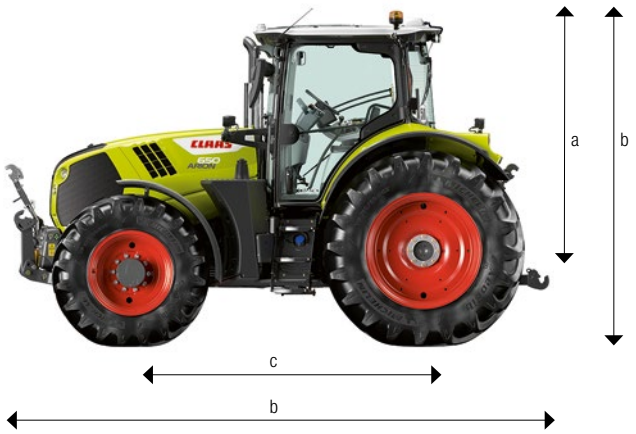
[1] Meets ISO TR 14396

[2] Performance data fit criteria for admissibility

● standard ○ optional □ available – not available

Specifications.

ARION		660	650	630
Rear linkage				
Max. lifting capacity at ball ends	lbs (kg)	17,637 (8,000)	17,637 (8,000)	17,637 (8,000)
Continuous lifting power at 610 mm	lbs (kg)	11,244 (5,100)	11,244 (5,100)	11,244 (5,100)
Vibration damping		●	●	●
External controls		●	●	●
Active wheel slip control		○	○	○
ISOBUS socket		○	○	○
25 amp socket		●	●	●
Drop drawbar		●	●	●
Ball-end 3-pt		○	○	○
Front linkage				
Lift capacity	t	3/4	3/4	3/4
Front PTO 1000 rpm with external operation		●	○	○
Vibration damping		●	●	●
Position control		●	○	○
Additional hydraulic connections (up to 2)		○	○	○
ISOBUS socket		○	○	○
Trailer socket		○	○	○
25 amp socket		○	○	○
Cab				
CEBIS		○	○	○
4-pillar cab		●	●	●
4-point suspension		●	●	●
Automatic climate control		○	○	○
Passenger seat with integral cool box		●	●	●
Dimensions and weights				
Height: center of rear axle to cab roof (a)	ft (mm)	7' 1" (2,166)	7' 1" (2,166)	7' 1" (2,166)
Overall height (b)	ft (mm)	10' (3,050)	10' (3,050)	10' (3,050)
Rear tires		20.8 R 38	20.8 R 38	20.8 R 38
Wheelbase (c)	ft (mm)	9' 4" (2,820)	9' 4" (2,820)	9' 4" (2,820)
Length (from front weight carrier to rear lower links) (d)	ft (mm)	15' 10" (4,818)	15' 10" (4,818)	15' 7" (4,764)
Weight	lbs (kg)	17,328-18,376 (7,860-8,335)	15,388-17,262 (6,980-7,830)	14,859-10,141 (6,740-7,600)
Max. permissible total weight	lbs (kg)	27,558 (12,500)	27,558 (12,500)	24,251 (11,000)



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