ARION
640 630 620 610
540 530 520 510

CLAAS

New standards up to 175 hp.


CLAAS
CLAAS

ARION. New rules up to 175 HP.

With three model series in the ARION family from 100 to 175 hp, CLAAS offers an impressive range and opens up amazing new prospects: all the technical options that were previously found only on the 200 hp tractors are now available from just 105 hp. And farms that favour high performance with simplicity are also catered for with the ARION 600 C series.

Unique comfort.

The CLAAS comfort concept is one of the great strengths of the ARION series and makes your work as comfortable as possible.

Enormous versatility.

The best example: the top model, ARION 640. Where necessary, it can achieve an output of up to 175 hp, thanks to the CPM Powerboost – a power reserve that opens up many new application possibilities.

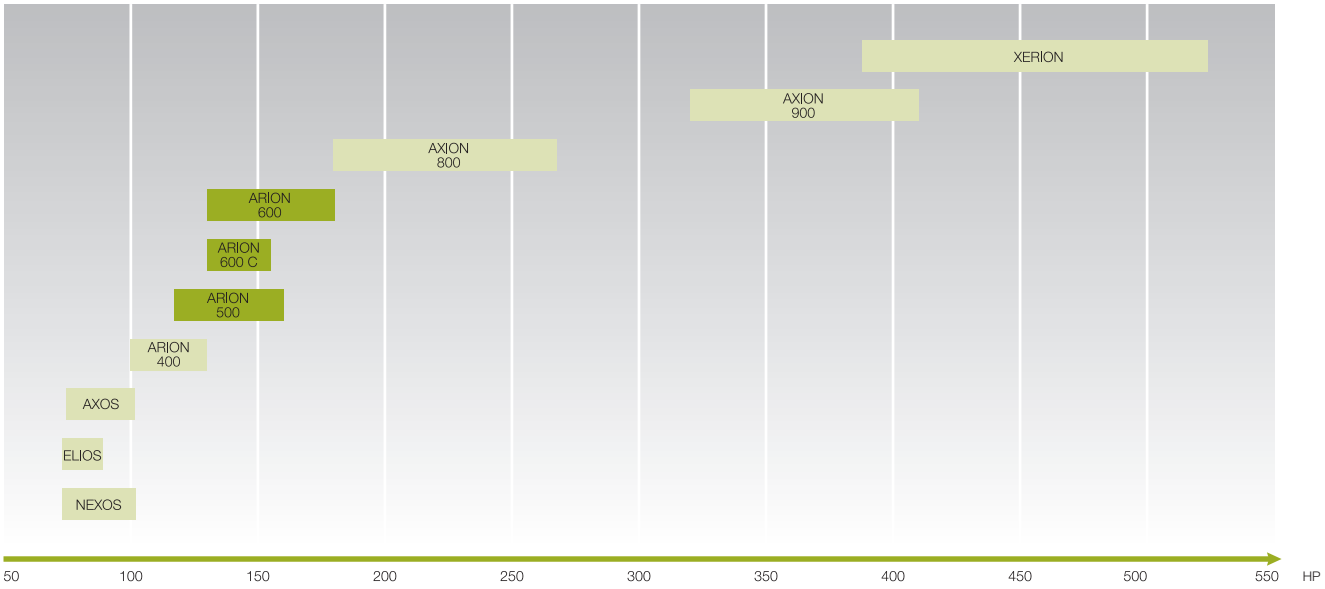
High efficiency.

In CLAAS POWER SYSTEMS (CPS), we have brought together the best components in a drive system in a class of its own. The highly developed engines in the ARION series, the advanced transmission technology and the tractive power concept are the ideal basis for extremely economical and efficient work.

The medium-power tractor segment is often referred to as the heart of the tractor market, because this is where farmers and contractors find the widest variety of models and equipment options. This means customers can configure their ideal tractor in the ARION range, just the way they want it.

Contents

ARION – for output from 112 to 175 hp.







You can now demand a lot more between 112 and 175 hp.

Three ranges between 112 and 175 hp.

With the ARION series, CLAAS has introduced fresh ideas to the mid-power tractor class. The models cover a large power range and meet the various demands of a typical working day.

For example, are you looking for a versatile 4-cylinder tractor? Then the ARION 500 series is the one for you. Or is there more of a need for 6-cylinder power? Then the ARION 600 is definitely your first choice.

And for those for whom supreme comfort and handling aren't top priority, there's an entry level model: the ARION 600C. There's a separate brochure on the ARION 600C with a lot more information and interesting details.

The 6-cylinder tractors from the ARION range: the 600 series.

Normally, you'd expect a normal tractor with 38'' rear wheels and an unladen weight of 5.0 to 6.0 tonnes to develop no more than 150 hp. However, our top model, the ARION 640, sets new standards by raising this limit by 25 hp. Thanks to the CLAAS POWER MANAGEMENT (CPM), the tractor develops an impressive maximum engine output of 175 hp.

The 4-cylinder tractors from the ARION range: the 500 series.

The three ARION 510, 520 and 530 models deliver maximum outputs of 112 to 128 hp to the ECE R 24 standard. The top model in the 500 series, the ARION 540, delivers an engine output of 135 hp. Thanks to the CLAAS POWER MANAGEMENT boost, this tractor is capable of developing a maximum output of 155 hp for use in almost all applications.




A wide variety of engines

ARION 600. The 6-cylinder tractors from 125 to 175 hp.

The dimensions of a 150-hp tractor, with up to 175 hp with CPM Powerboost: the ARION 640 top model.

Anyone interested in tractors will of course also look at the performance data. Not always such an easy task. It's often a case of wading through mountains of figures and complicated terms: various standards, boost power, power rating, maximum output, PTO shaft output. It may often be the case that the output as sold and paid for is not actually of much use in the field. Therefore, be particularly critical when buying a tractor. It‘s worth it.

The top model ARION 640 is equipped with CPM Powerboost. This feature delivers an additional boost output of 20 hp as and when required, which is particularly useful in the event of a drop in hydraulic output, for instance, PTO shaft operation or transmission in range C or D (C1 from approx. 6 km/h), enabling you to maximise your tractor's operational efficiency.

Engine output, ARION 600 series

ARION	Rated output kW/hp at 2200 rpm	Max. kW/hp 2000 rpm	Boost kW/hp at 2000 rpm
610	85/115	92/125	–
620	96/130	99/135	–
630	103/140	110/150	–
640	110/150	114/155	129/175

Values in accordance with ECE R 24

6-cylinder

The top model in the 4-cylinder range: the ARION 540 with an engine output of 155 hp.

On many farms, life without a tractor with a 4-cylinder engine would be unimaginable nowadays. Its advantages are clear: it is compact and versatile, has very good front loading characteristics and an overall lighter weight. But more and more often, the "small" four-cylinder now has to do the work of a "large" 6-cylinder tractor.

This raises the issue of greater power, and CLAAS now has an ideal solution with the ARION 540. Thanks to the CPM Boost, this new top model has a potential engine output of 155 hp both on the road and in the field. That's outstanding in the 4-cylinder segment, and opens up many new areas of application.

Engine output, ARION 500 series

ARION	Rated output kW/hp at 2200 rpm	Max. kW/hp at 2000 rpm	Boost kW/hp at 2000 rpm
510	77/105	82/112	–
520	85/115	90/122	–
530	92/125	94/128	–
540	96/130	99/135	114/155

Values in accordance with ECE R 24

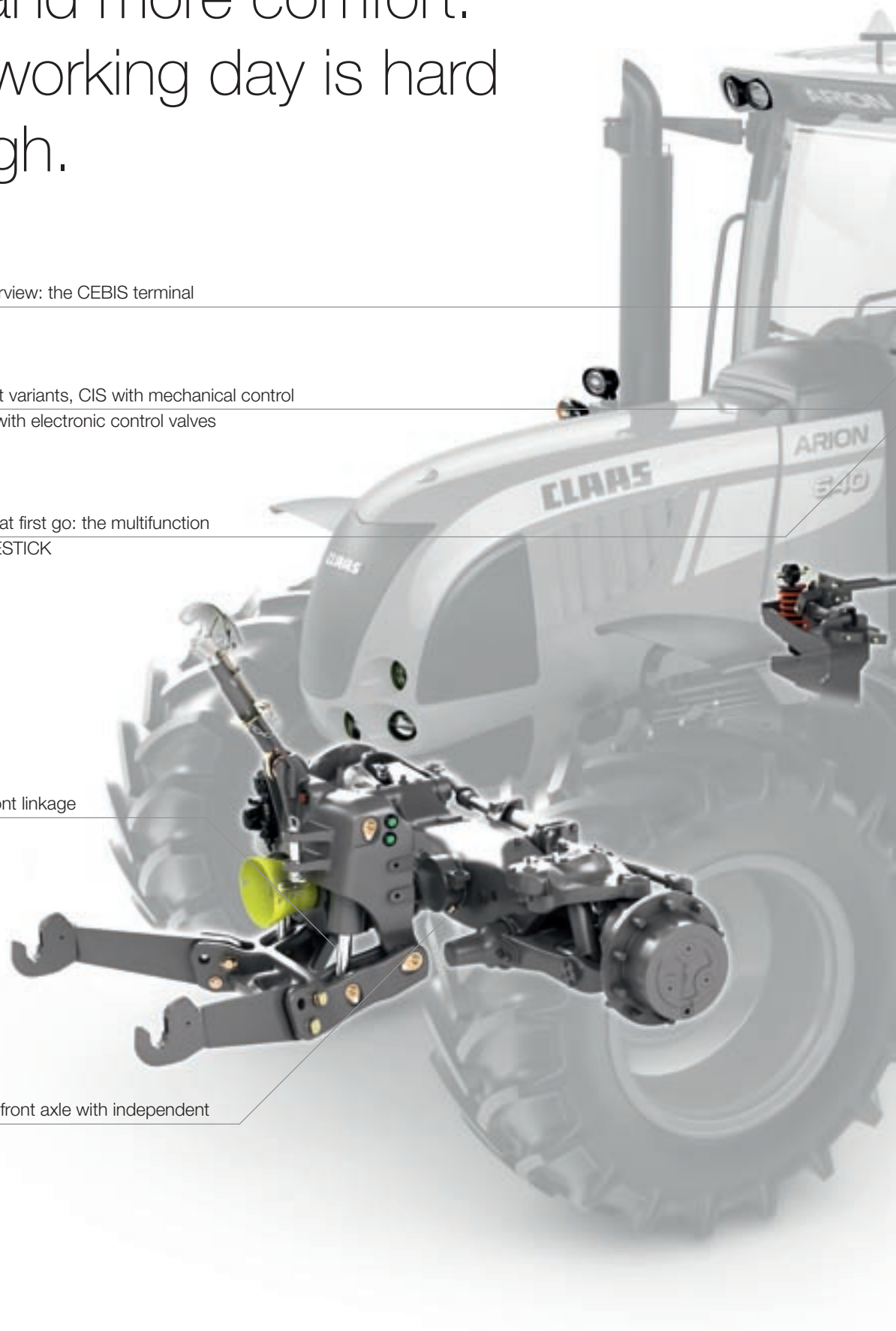
CPM boost: useful for PTO applications.

CPM boost: useful for any work over 6 km/h.

ARION 500. The 4-cylinder tractors from 112 to 155 hp.

CPM boost: useful on the road, in the field and for hydraulic demands.

Demand more comfort. Your working day is hard enough.



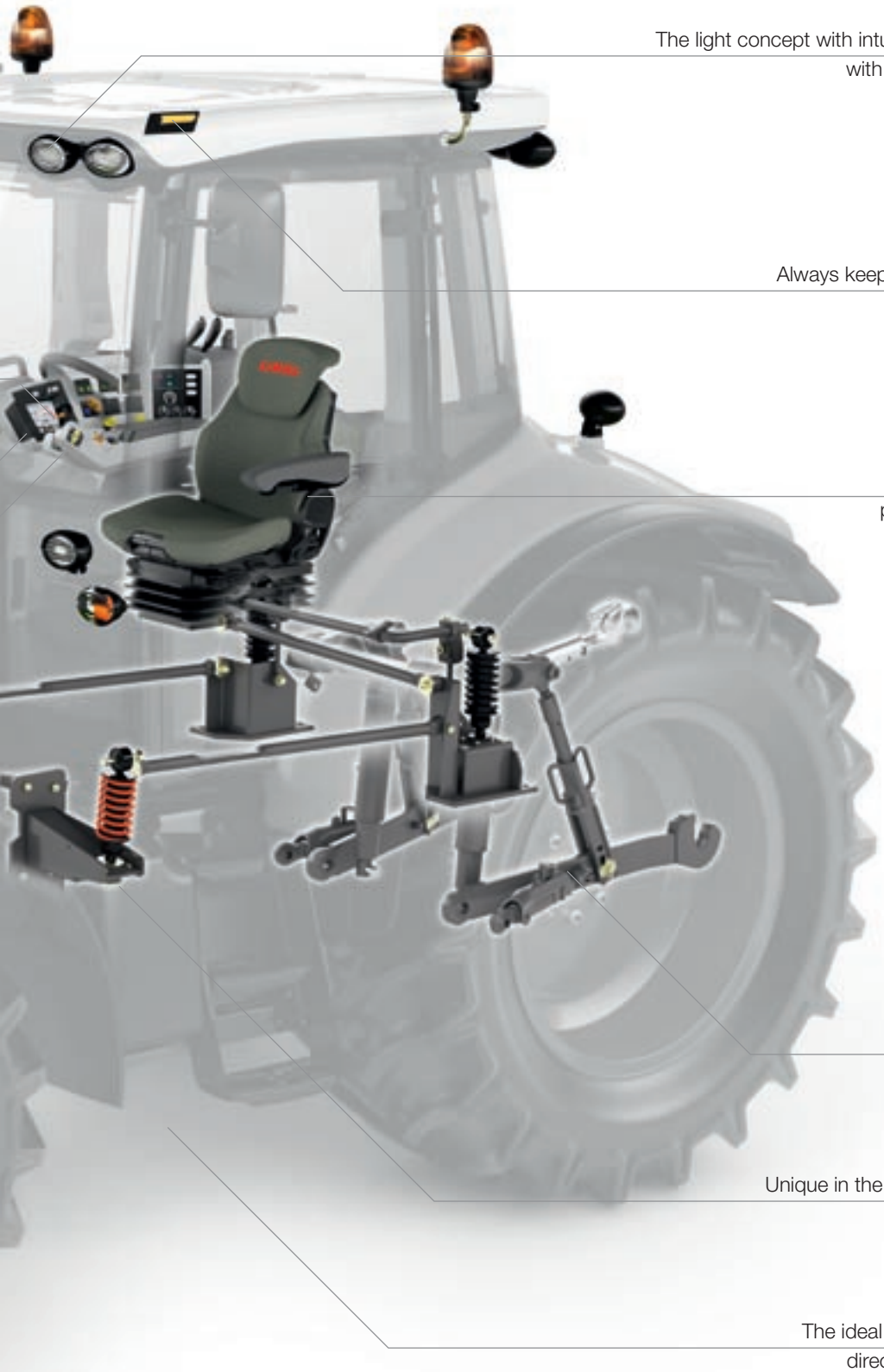
For the perfect overview: the CEBIS terminal

Optional equipment variants, CIS with mechanical control valves and CEBIS with electronic control valves

Everything in hand at first go: the multifunction armrest with DRIVESTICK

Damping for the front linkage

PROACTIV sprung front axle with independent suspension



The light concept with intuitive operation. Up to 14 spotlights, with four optional Xenon lights available.

Always keep cool: the automatic climate control

A good place to work in: the pneumatically sprung low-frequency seat

Vibration damping at rear linkage

Unique in the performance class: the 4-point cab suspension

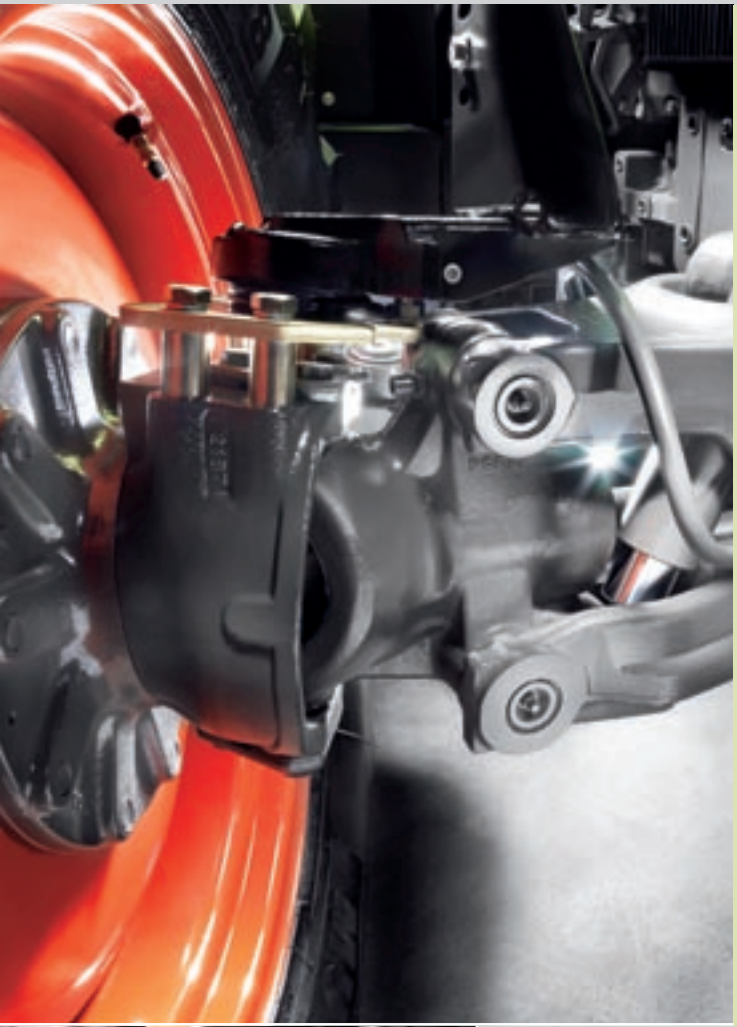
The ideal 2.82-m wheelbase (ARION 600) for directional stability and extreme comfort

The CLAAS comfort concept is much more than just another equipment feature.

A tractor driver spends up to 2,000 hours every year on the tractor seat. That‘s a long time. The individual controls are activated tens of thousands of times during those 2,000 hours. That‘s asking a lot. To make the working day as comfortable as possible for the driver, CLAAS is the only manufacturer in this performance class to supply the 4-point cab suspension combined with a sophisticated independent front suspension as well.

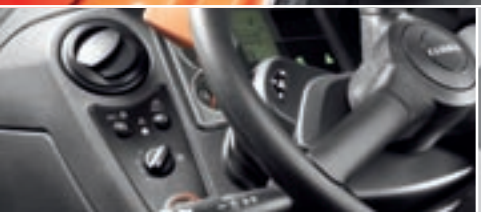
MP3 radio with Bluetooth function.

The CLAAS comfort concept. To keep you sitting pretty. With every thing to hand.



Everything has been thought of to make your working day easier:

- The instrument panel – well laid-out and functional
- Self-cancelling turn indicators
- Air outlets in the instrument panel provide draught-free air conditioning
- Air conditioning comes as standard with the option of automatic climate control
- The cab: unusually spacious in this class
- Unique: the 4-point cab suspension
- Comprehensive comfort, even with implements: damping for front and rear linkages
- Up to eight front and six rear headlights – there is also good lighting for areas on the right and left of the tractor
- Electrically adjustable and heated mirrors as well as heated rear window
- MP3 radio with Bluetooth function
- Wide FOPS (Falling Object Protection Structure) transparent sunroof for a safe and unimpeded view of the front loader



Air conditioning comes as standard.

CLAAS comfort concept

You‘ll understand it immediately and operate it with two fingers.

The unique DRIVESTICK.

The DRIVESTICK is used intuitively in no time and gives you full control via the HEXASHIFT transmission. Complex and cumbersome shifting operations therefore become a thing of the past. All you need is nimble fingers to shift as you please.

The perfectly ergonomic armrest.

The multifunction armrest has been completely revised, provides the best ergonomics and is the linchpin to relaxed and effective working. It's the result of extensive analyses of the operating processes in the cab: frequently required functions are located on the multifunction armrest while less frequently required functions are located on the right side console.

Operation for the rear linkage and headland management CSM

DRIVESTICK for operating the HEXASHIFT automatic transmission

Hand throttle

Activation of HEXACTIV automatic transmission and push switch for two stored engine speeds

Rear linkage depth adjustment

ELECTROPILOT for proportional operation of three electronic controls

F1 and F2 function, e.g. for direct access to the task management

Comfortable and proportional operation of up to three electronic control valves

Switch to change the ELECTROPILOT remote valves

Your advantages:

- Intuitive operation even with different drivers
- You work relaxed and effectively.
- You manage work sequences in simple steps
- Full concentration on the field work
- A relaxed hand position even during long working days
- Smooth running controls
- No relative movement between body and armrest as it is fastened to the seat

DRIVESTICK
Multifunction armrest

The CLAAS INFORMATION SYSTEM (CIS).

The entry-level ARION model is equipped with mechanical spool valves and the dash-mounted CLAAS INFORMATION SYSTEM (CIS).

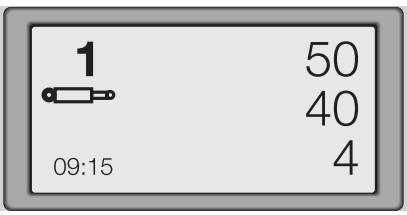
ARION	With CIS	With CEBIS
Multifunction armrest	●	●
DRIVESTICK	●	●
Engine speed memory	○	●
PTO shaft management	●	●
Mechanical control valves	●	–
CIS in instrument panel	●	–
Electronic control valves	–	●
CEBIS terminal	–	●
CSM headland management	–	●
ELECTROPILOT	○	○

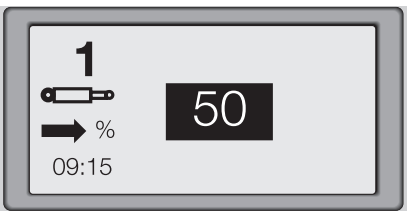
● Standard ○ Optional – Not available

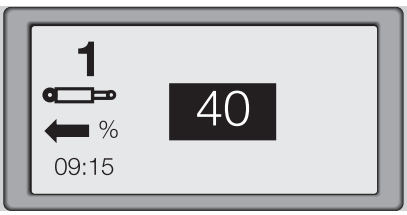
With its compact design, the CIS display provides the same user ergonomics as the CEBIS terminal: all settings can be operated using a control knob and the "ESC" key.

The following functions can be set using the CIS:
- HEXACTIV power shift unit switching points
- HEXASHIFT transmission start ratio
- Progressiveness of REVERSHIFT clutchless reverser
- Time and volume settings for the electronic control valves on the ELECTROPILOT (optional)
- On-board computer functions such as area covered, fuel consumption, area output
- Display of the maintenance intervals

On this variant, there are two optional electronic control valves which can be conveniently operated using the ELECTROPILOT on the multifunction armrest.



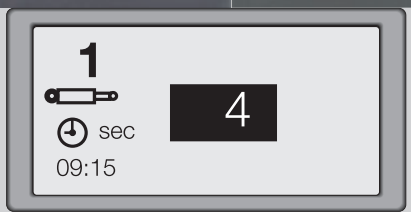




CIS keeps you up to date.

The advantages of the ARION with CIS display and mechanical control valves:

- All the information you need is shown on the HEXASHIFT display on the A-pillar and CIS
- Steering column with self-cancelling indicators
- Optional: ELECTROPILOT with two electronic control valves
- Fitted with multifunction armrest and DRIVESTICK for transmission operation as standard
- Up to four mechanical spool valves with float setting and kick-out function
- Simple to operate, even with different drivers



Adjustment example: adjusting flow and time control of an ELECTROPILOT control valve with the CIS display.

CIS – CLAAS INFORMATION SYSTEM

With CEBIS, you can experience the premium-class technology that has proven its worth time and again in our top-line LEXION and XERION offerings. This technically advanced tractor terminal gives you complete control of all machine functions by means of a large, easy-to-read display and simple operations via a rotary selector.

CEBIS on the road

1 Menu bar
2 Ground speed and rpm
3 User defined information
4 Detailed view of function key assignment
5 Status display, transmission and direction of travel
6 Vehicle status information
7 Fuel and temperature display

CEBIS in the field

8 Expanded transmission display
9 Detailed view of working parameters
10 Status display of rear linkage
11 Control valve settings status

CLAAS SEQUENCE MANAGEMENT memorizes the first work sequences on the headland and repeats it as required. As simply as a recorder. Push record – play – pause – stop.

CEBIS – everything under control.

What makes CEBIS different from other tractor terminals:

- Just two elements for operation: rotary selector and ESC
- Clear graphic display and easy to understand symbols
- Quick access to submenus through DIRECT ACCESS
- Integrated built in performance monitor as standard for checking area output, fuel consumption, job data
- Attractive, easy to read colour screen
- Two different screen layouts to choose from as standard, one for road travel and one for field work

Your advantages:

- You're always fully in the picture regarding all relevant processes with the actual status full time
- It is easy to operate and intuitive to use
- You leave nothing to chance because you always know what's going on
- You can concentrate more on the field work, because CEBIS automatically does the routine tasks

CEBIS quick access with DIRECT ACCESS.

Activate function.

Press DIRECT ACCESS key.

Change settings directly in submenu.

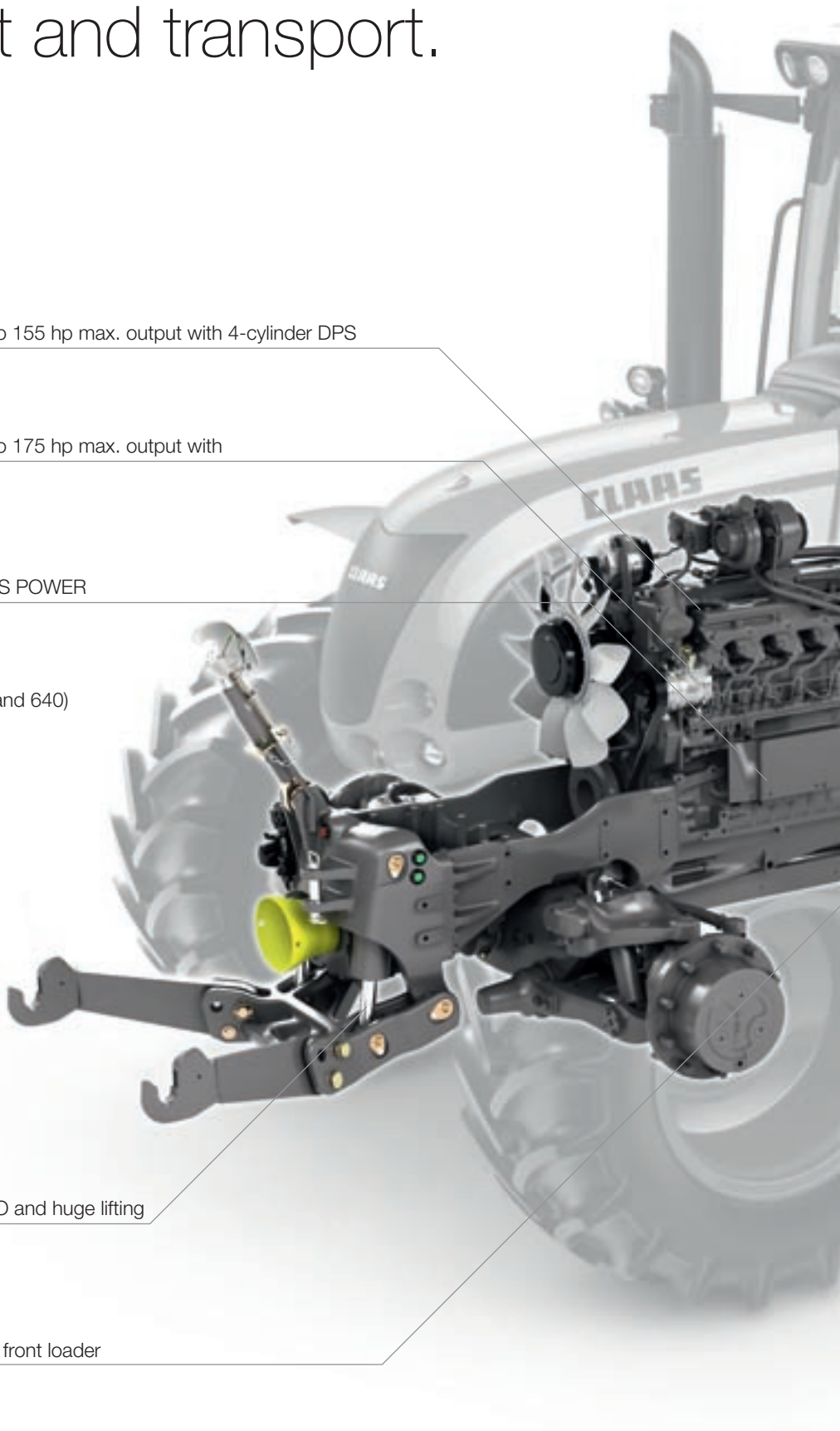
It's incredible what the ARION can pull, lift and transport.

ARION 500 – High power range up to 155 hp max. output with 4-cylinder DPS engines

ARION 600 – High power range up to 175 hp max. output with 6-cylinder DPS engines

Additional 20 hp thanks to the CLAAS POWER MANAGEMENT boost with

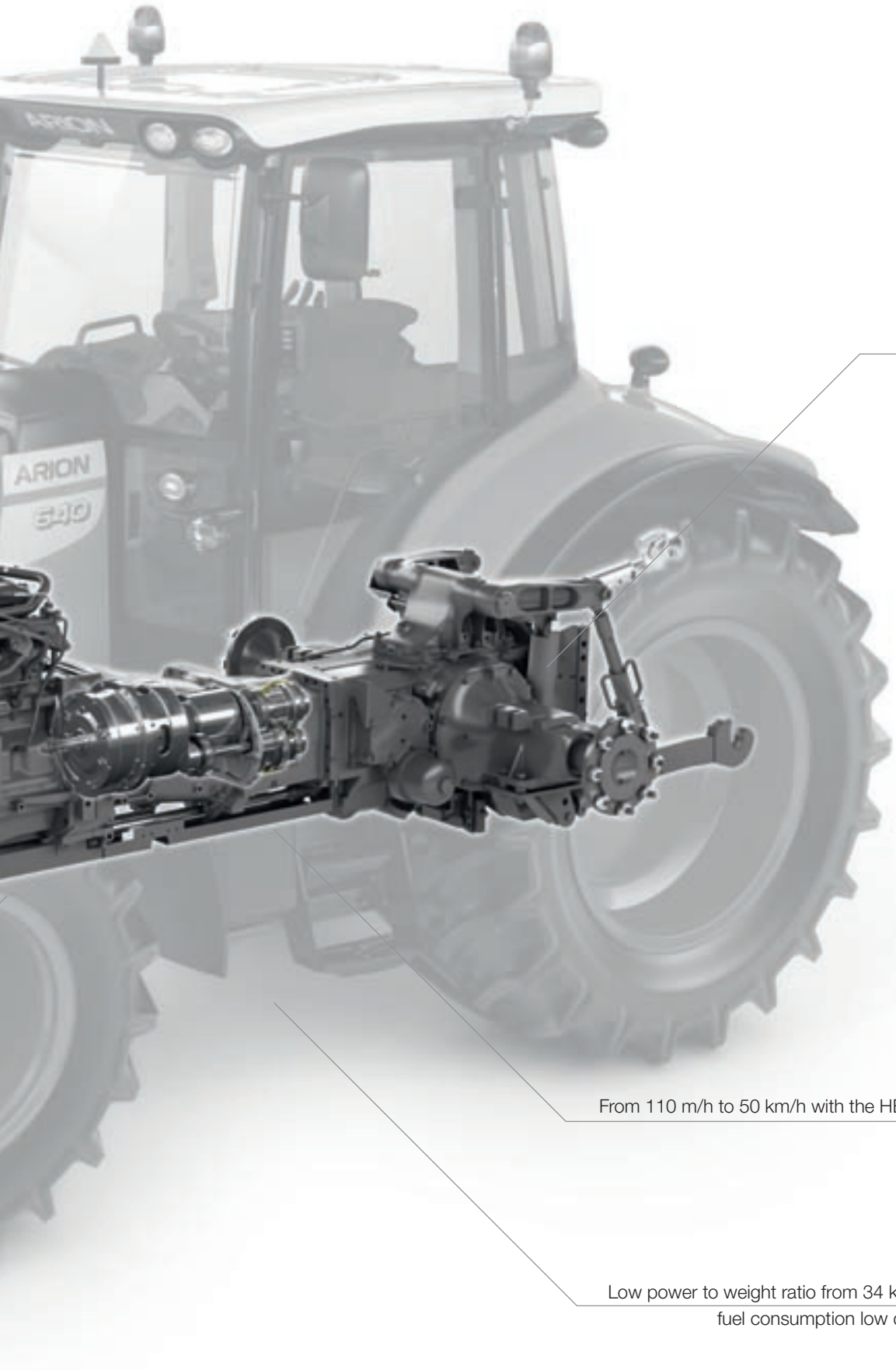
- Transmissions in range C or D
- Hydraulic power drop
- PTO output drop (on ARION 540 and 640)



Integrated front linkage with front PTO and huge lifting capacity of up to max. 4,000 kg

The ideal combination with a CLAAS front loader

CPS | CLAAS POWER SYSTEMS



High continuous lift capacity from 5,100 kg on the ARION 640 (measured at 610 mm)

From 110 m/h to 50 km/h with the HEXASHIFT transmission

Low power to weight ratio from 34 kg/hp (46 kg/kW) keeps fuel consumption low during partial load work

No matter what you demand from it, the ARION always cuts a fine figure.

Short overall length

Long wheelbase

ARION 600 = 2.82 m / ARION 500 = 2.56 m

Short overall length for:

- good manoeuvrability
- short trailer combination on the road
- good visibility
- good guidance of front attachment devices

Long wheelbase for:

- high level of driving comfort
- directional stability
- higher tractive power due to better weight distribution
- good and secure road holding
- higher lifting power due to better weight distribution

Up to 175 hp with boost

Power to weight ratio from only 34 kg/hp (46 kg/kW)

Up to 175 hp usable engine output:

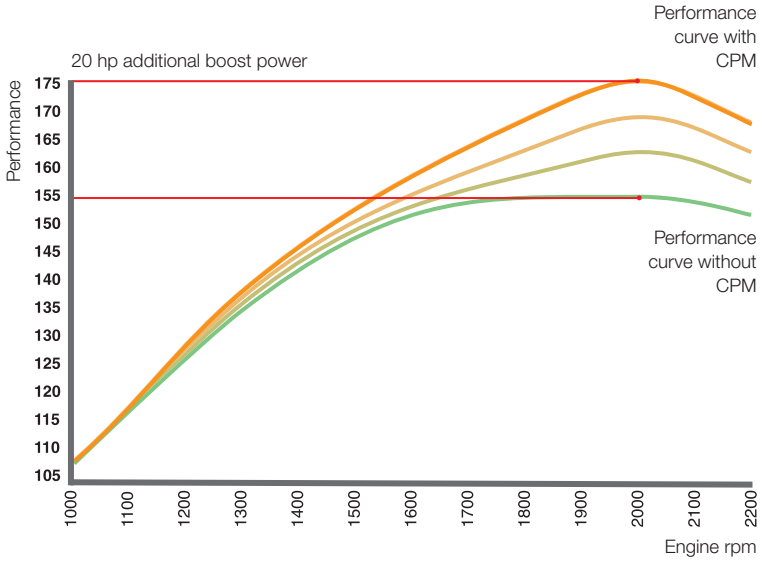
- In tillage from C1, approx. 6 km/h
- during drilling – heavy PTO work
- during trailer and transport jobs
- during baling
- When drilling: high output demand from hydraulically driven fan

Good power to weight ratio:

- for low fuel consumption during light work
- for low ground pressure during field maintenance
- for dynamic road transport
- for a high permissible load capacity
- weight distribution front/rear 53 % / 47 %

The power to weight ratio can be increased through ballasting if higher traction is required.

When others have reached their limit, the ARION has another 20 hp boost reserve.



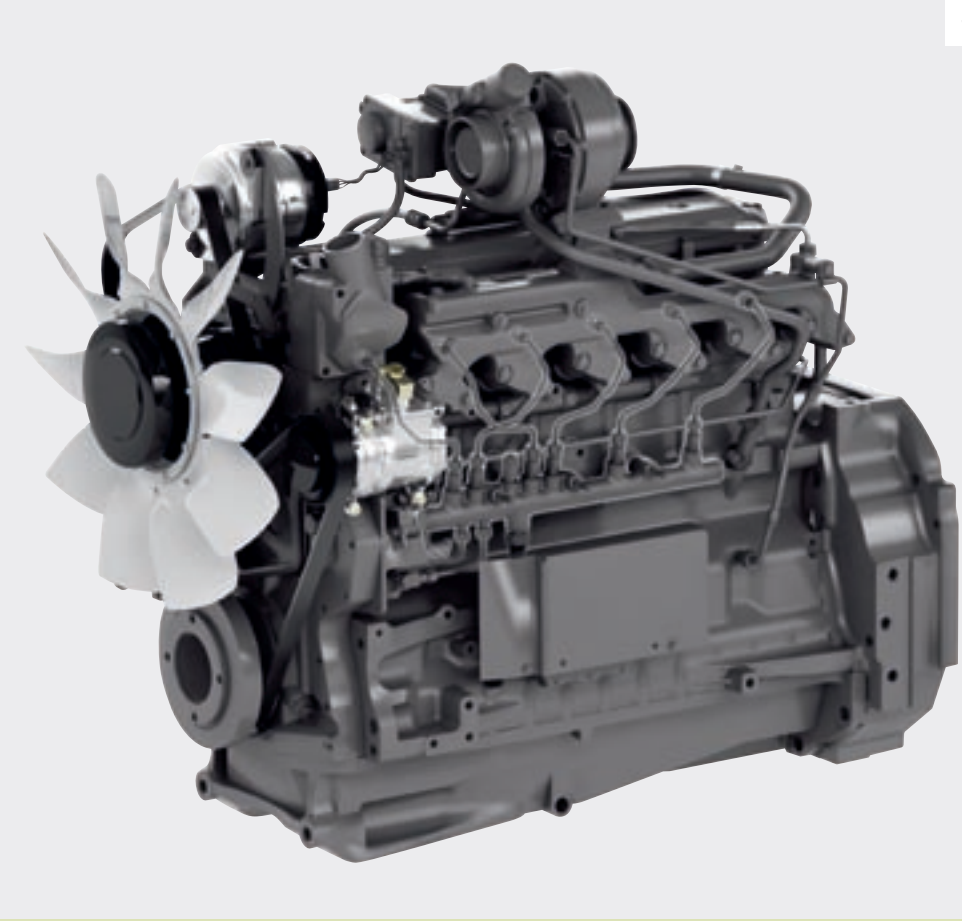
CLAAS POWER MANAGEMENT (CPM).

The top models, ARION 540 and ARION 640, are equipped with the innovative CLAAS POWER MANAGEMENT system. Depending on the required tractive power, PTO shaft output or hydraulic power reduction, up to 20 hp of additional engine output are released in stages under the following conditions:

- Transmission in range C or D (C1 = 6 km/h at 1,900 rpm)
- reduction in hydraulic power
- reduction in PTO shaft output

The additional boost power is released by the CPM in six stages. It therefore never releases more fuel-hungry power than is actually required.

Examples for applications where the additional output of up to 20 hp from the CPM is used.



1 DPS 4-cylinder or 6-cylinder engines

- Meets Stage IIIa (Tier 3) emissions standard
- 4-valve cylinder head
- Air-to-air charge air cooling
- Up to 43 % torque increase
- Modern CPM boost technology
- Up to 10 hp reserve power
- Electronically controlled
- 500 h oil change interval

2 Variable geometry turbo (VGT)

For a high torque even at low engine speeds, the turbine blades are adjusted according to the speed and load. No more "turbo lag" is experienced, meaning unnecessary gear-shifting is ultimately avoided and fuel consumption reduced.

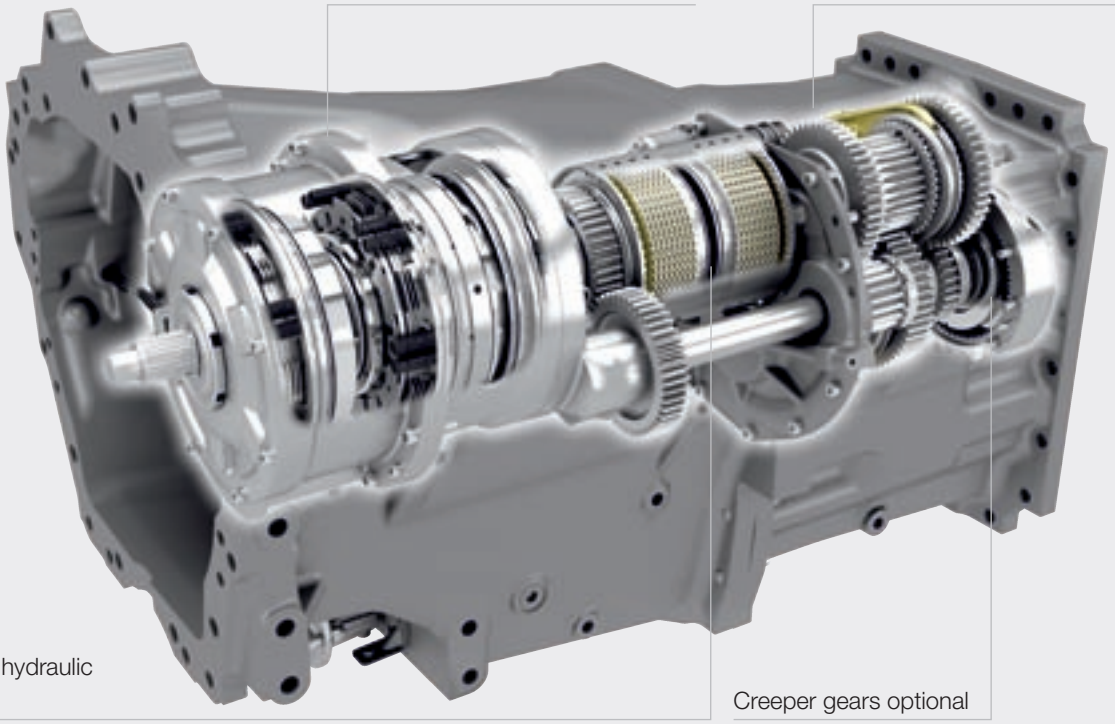
3 Common rail injection system

Common rail provides improved response characteristics, lower fuel consumption and more precise adjustment of the engine to all operating statuses.

4 Cooled exhaust gas recirculation

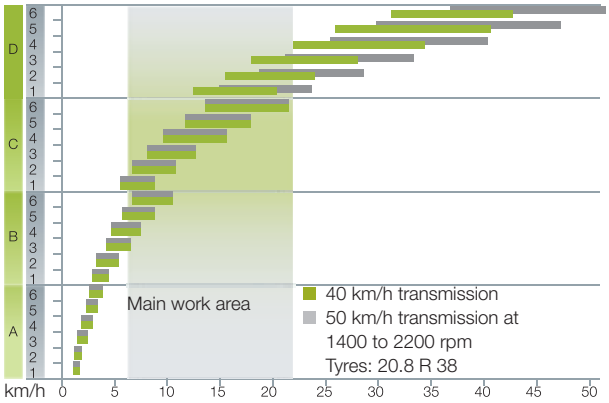
The recirculation of part of the exhaust gas flow significantly reduces pollutant emissions. Supplementary cooling optimises the combustion process and reduces consumption.

HEXASHIFT – shift with ease.



The HEXASHIFT automatic transmission from CLAAS.

It supports you with the best high technology. Thanks to HEXASHIFT and the DRIVESTICK, you can easily shift between the six powershift ratios and the four automatic ranges with your fingertips or shift automatically with the HEXACTIV powershift unit.



CLAAS HEXASHIFT offers clear advantages.

- No more range shifting with the clutch
- Good gear shifting in all ranges
- Fully automatic shifting operation with HEXACTIV power shift unit
- Good efficiency in the field and on the road for low fuel consumption
- Creeper gear options up to 110 m/h
- Comfortable adjustment options with CIS and CEBIS
- High operating comfort with the DRIVESTICK
- Power train management for smooth changes in range and powershift operations

The attractive HEXACTIV innovations on the ARION.

The starting ratio can be individually set via the CEBIS or CIS terminal to ensure that the ARION with HEXACTIV mode always pulls away in the correct gear.

The operator can choose between three modes in CEBIS or CIS for the powershift unit.

1 Fully automatic: HEXACTIV shifts for variations in engine speed depending on engine load, vehicle speed and the driver's wishes / accelerator position.
2 PTO mode: HEXACTIV shifts in such a way as to ensure the engine speed / PTO speed remain as constant as possible.
3 Manual mode: HEXACTIV shifts according to a fixed engine speed programmable by the driver.

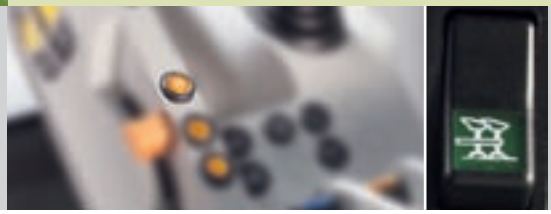
The modulation of the REVERSHIFT reverser can be changed in the CEBIS or CIS menu.

The settings indicated above are carried out via the CEBIS terminal. On models with mechanical control valves, the values are set with the CIS terminal on the instrument panel.

HEXACTIV changes gear for you, so you can concentrate on other tasks.

Four driving strategies.

	Mode	Switching
1. Manual shifting in field mode	• Field mode selected • HEXACTIV switch not pressed	• Range shifting by pressing the DRIVESTICK through the stop • Powershift shifting (1–6) by tapping the DRIVESTICK
2. Manual shifting in transport mode	• Road mode selected • HEXACTIV switch not pressed	• Range shifting by tapping the DRIVESTICK • Powershift shifting (1–6) by tapping the DRIVESTICK
3. Automatic shifting in field mode	• Field mode selected • HEXACTIV switch pressed	• Range shifting by pressing the DRIVESTICK through the stop • Powershift shifting (1–6) automatic
4. Automatic shifting in transport mode	• Road mode selected • HEXACTIV switch pressed	• Range shifting automatic • Powershift shifting (1–6) automatic



The rear of the ARION – sophisticated down to the smallest detail.

The more powerful the equipment, the more important the hydraulics become.

- Load-sensing hydraulic system with 110 l/min output
- CIS technology: four mechanical spool valves on the right-side console and ELECTROPILOT built into the multifunction armrest
- In conjunction with CEBIS: the operation of up to six electronic control valves on the multifunction armrest
- All electric control valves with time control and flow control

The convenient PTO equipment is impressive.

- 540/1,000 power take off is standard
- Optional 540/540E/1,000/1,000E power take off
- Ground power take off available as an option
- Automatic PTO control when lifting and lowering the linkage
- Flange PTO is standard
- Rear actuation is standard

Comfortable operation of the rear linkage.

Full of good ideas: the rear end of the tractor.

- Very neat design
- Hydraulic valve connections with very good accessibility and release levers for connecting under pressure
- Robust dust caps and spilt oil tank keep everything clean
- Hydraulic top link
- Robust and simple top link holder
- Very good visibility of the drawbar coupling and lower links
- Both mudguards are fitted with remote controls for linkage, PTO shaft and an electronic control valve
- Very good side visibility thanks to sloped mudguards
- "Power beyond" preparation available ex factory
- 5.1 t continuous lifting power for the ARION 640 (measured 610 mm behind the coupling hooks)

Fully equipped with integrated front linkage and front PTO shaft.

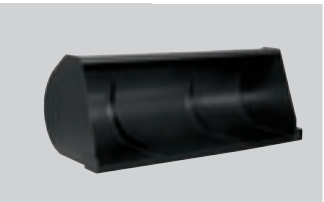
- 3.0 or 4.0 t max. lifting capacity
- Three positions for the front lower link: folded up, fixed working position and float position in slotted hole
- Short distance between front axle and mounting points for improved header guidance
- 1,000 rpm integrated PTO with external stop actuation
- External operation of front linkage in conjunction with electronic spool valves
- Integrated spool valves, open return line, 25 A and 7-pin trailer plug

Front linkage, external operation.

Whatever you have in mind: Choose the right front loader.

Don't make compromises when selecting comfort features for front loader work.

CLAAS front loaders feature high-quality design and technology, together with perfect workmanship. This makes them the ideal complement to the high standards of the CLAAS ARION. The operation of the various attachments is perfect and, of course, the view to the working area is first-rate.

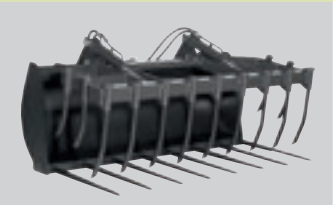


A lot of things speak for the CLAAS front loader.

- Front loader consoles tested to withstand heaviest loads available ex works
- The large FOPS (Falling Object Protection Structure) transparent sunroof ensures an excellent view of the working area and increased safety when operating
- Ideal for good visibility and for preventing damage: hoses integrated in the front loader
- Three convenient operating variants to choose from: PROPILOT, FLEXPILOT, ELECTROPILOT
- PCH hydraulic self-levelling linkage on FL front loader or PCM mechanical self-levelling linkage on FL C models optional
- FITLOCK system for quick and convenient attaching / detaching
- MACH quick attachment coupler for electric and hydraulic circuits
- SHOCK ELIMINATOR vibration dampening for extreme driving comfort
- Excellent lifting power and a wide selection of attachments
- And not forgetting the full CLAAS service

ARION	FL 150	FL 120 / FL 120 C	FL 100 / FL 100 C
640	◘	◘	–
630	◘	◘	–
620	–	◘	–
610	–	◘	◘
540	–	◘	–
530	–	◘	–
520	–	◘	◘
510	–	–	◘
Lifting height m	4.60	4.15	4.00

◘ Available – Not available



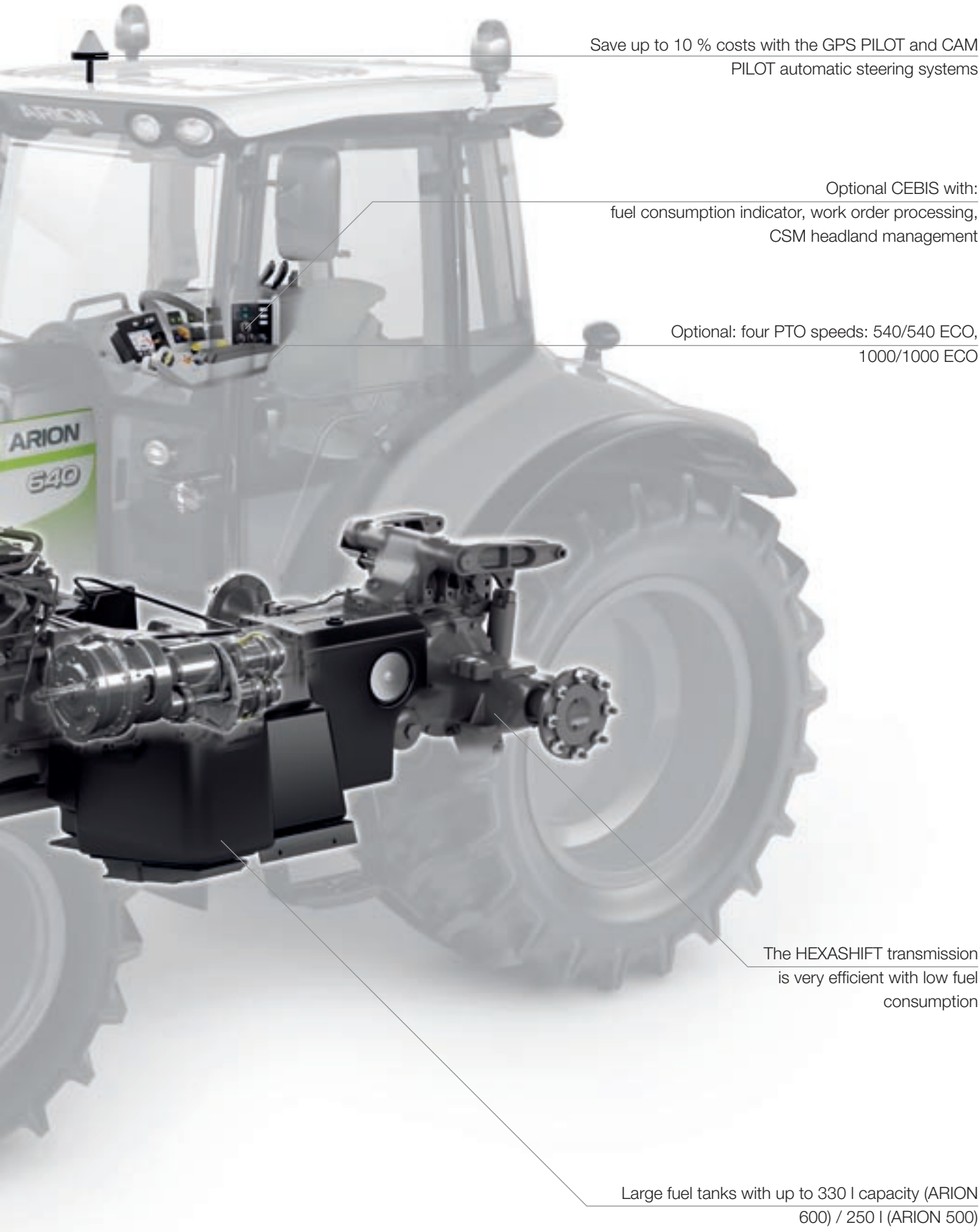

Investment in efficiency and low overall cost always provides the best return.

Maintenance and accessibility made easy thanks to one-piece bonnet

Fuel-saving engine technology:
- Variable VGT turbo
- Cooled, external exhaust gas recirculation
- 4-valve cylinder head
- common rail injection system
- Controlled visco fan
- Electronic injection

Electronic powertrain management

CPS | CLAAS POWER SYSTEMS



Save up to 10 % costs with the GPS PILOT and CAM PILOT automatic steering systems

Optional CEBIS with: fuel consumption indicator, work order processing, CSM headland management

Optional: four PTO speeds: 540/540 ECO, 1000/1000 ECO

The HEXASHIFT transmission is very efficient with low fuel consumption

Large fuel tanks with up to 330 l capacity (ARION 600) / 250 l (ARION 500)

CPS: optimal drive for best results.

Equipment development at CLAAS means an ongoing effort for even greater efficiency and reliability as well as optimal profitability in the field. This, of course, also applies to the CLAAS ARION 500 and 600, since the entire drive train is of vital importance, and there is much more to it than just a powerful engine.

In CLAAS POWER SYSTEMS (CPS), we have brought together top-quality components to create a drive system that is in a class of its own – one that always delivers the most efficient power when needed. CPS is ideally matched to the working system, featuring fuel-saving technology that quickly pays for itself. Power equals efficiency.

Low fuel consumption thanks to ARION technology.

- Perfectly matched transmission and rear axle for a high degree of efficiency
- Engines with
  - variable turbo
  - exhaust gas recirculation
  - 4-valve cylinder head
  - common rail injection system
  - controlled visco fan
  - electronic injection
  - Low power to weight ratio
- Electronic powertrain management
- CLAAS POWER MANAGEMENT CPM with step-by-step release of additional engine output (ARION 540/640)
- 40 km/h or 50 km/h at reduced speeds
- ECO PTO 540 and 1,000 rpm
- Load-sensing hydraulic circuit

CPS – CLAAS POWER SYSTEMS: we can't slash the price of diesel, but we can slash consumption.

CLAAS's philosophy: negligible losses in drive performance for more power to the wheels and less fuel consumption.

The top agrar test (12/08) says it all:

"The best power-shift tractor tested."

Seven 4-cylinder tractors in the 125 hp range were tested by the independent testing organisation DLG (Deutsche Landwirtschaftsgesellschaft). The tests measured the tractors' engine and tractive power.

"In terms of pulling operations, the best tractor tested was the ARION. It achieved the highest degree of tractive power in the group at nominal engine speed and with the lowest specific fuel consumption (284 g / kW/h), equating to 10% below the group average and as much as 30% below that of the tractor with the highest consumption."

Shorter maintenance times, longer service intervals.

Quick maintenance thanks to easy accessibility.

Even during maintenance, the ARION clearly scores points. The one-piece bonnet allows you quick and easy access to all service and maintenance points. In this way, all maintenance work can be carried out with just a few simple actions.

- Simple oil check
- Easy to top up
- Quick air filter cleaning and replacement
- Straightforward cleaning of the cab air filter
- Each radiator is easily accessible

Lower costs thanks to long maintenance intervals.

The ARION boasts particularly long service intervals. That means that you can get loads of jobs under your belt before having to think about maintenance. And you don't need to tie a knot to remember when the next service is due – CEBIS or CIS look after your schedule and notify you in good time.

Your advantages:

- You have access to the most important maintenance points
- CEBIS or CIS keeps you up to date with regard to the maintenance status
- You can carry out simple maintenance operations yourself
- Long intervals allow you more flexibility of operation
- Long-term maintenance also means lower costs

The intelligent CEBIS interface saves you a lot of time.

CLAAS SEQUENCE MANAGEMENT (CSM).

The CSM headland management does your work for you at the headland. Complex sequences are stored and retrieved at the press of a button. The recorded sequences can be displayed and processed via the CEBIS terminal.

- Recording of up to four sequences
- Actuation of sequences via buttons on the side of the multifunction armrest or the F1 and FS function keys on the multifunction armrest
- Presentation of the work sequences via CEBIS
- Subsequent changes to CSM processes via the CEBIS terminal

Automatic control of:

- Rear linkage, front linkage
- Up to six time-controlled spool valves
- Rear and front PTO shafts
- Transmission gear and engine speed
- Four-wheel drive and differential lock
- Sprung front axle

ISOBUS.

The sole purpose of the CEBIS terminal is to present the functions relating to the tractor. To connect ISOBUS-compatible implements with the ARION, CLAAS provides the COMMUNICATOR. Single implement functions can be operated via the COMMUNICATOR or the function keys in the armrest.

Implement management with CEBIS.

CEBIS makes it possible to store different implements along with their settings and sequences:

- Up to four CSM sequences
- Assignment of function keys on the armrest
- Working width of the implement
- Mode of the area meter (radar speed or wheel speed)
- Criteria for actuation of the area meter

ISOBUS TEST VDMA 2008 conform

With the GPS PILOT or CAM PILOT you can also save a load of money.

Optimising operating costs.

Research into tillage systems show that there is often an increase in overlap for greater working widths that don't use a guidance system. That means that savings of 7% in diesel fuel, machine costs, fertiliser and pesticide, could easily be achieved with a modern guidance system.

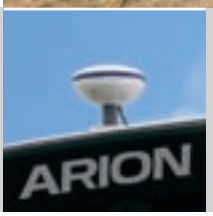
Increase the quality of your work.

CLAAS guidance systems ease the driver‘s workload. They show in advance which direction to take and automatically steer the tractor to the best track. This prevents errors and allows the driver to concentrate on the machine settings – with significantly better working results.

Correction signal as required.

CLAAS has set up its range of systems in such a way that you can flexibly extend them at any time. This applies just as much to the terminal technology as to using any of today's essential correction signals. All systems can also be retrofitted to the ARION 500 and 600.

The OMNISTAR HP receiver for GPS signal and GPS reference signal.



The GPS receiver on the BASELINE HD system. This includes an extra radio receiver for the reference signal.

GPS PILOT RTK
- Accuracy to within +/- 2–3 cm
- Up to 20 km coverage
- No licence fees
- Maximum steering precision
- Reference signal can be set by the local dealer
- For fleets of machinery or for outsourcing

GPS PILOT RTK NET
- Accuracy to within +/- 2–3 cm
- Charged access to existing RTK networks
- Maximum steering precision
- For machine fleets, with considerable range

GPS PILOT Baseline HD
- Accuracy to within +/- 4–6 cm
- Farm has its own mobile reference station
- Range 3–5 km
- Public reference signal
- Reference station can be used by more than one machine at the same time

Omnistar HP GPS PILOT
- Accuracy to within +/- 5–10 cm
- DGPS dual frequency
- Correction signal received by satellite
- Quarterly or annual licence costs for the reference signal

COPILOT
- Accuracy to within +/- 15–30 cm
- EGNOS satellite signal
- No licence fees
- Manual guidance

CAM PILOT
- 3D camera mounted on the front of the tractor
- Accuracy to within +/- 5 cm
- Steering hydraulics can be combined with the GPS PILOT
- Tractor follows the rows of plants, tramlines, furrows or swaths

CLAAS steering systems and correction signals are approved and supplied for retrofitting subject to local conditions.

The CAM PILOT camera in the tractor front mounting

GPS PILOT
CAM PILOT

CEBIS manages all the things that may divert your concentration.

Excellent task management.

One name says it all: CLAAS CEBIS. It provides a good overview and facilitates comprehensive, perfect task management. You can determine and change the settings, program processes and have the task status displayed. Of course, all kinds of implement settings and headland frequencies can also be saved. All this speeds up work order processing enormously, with a positive impact on profitable work patterns.

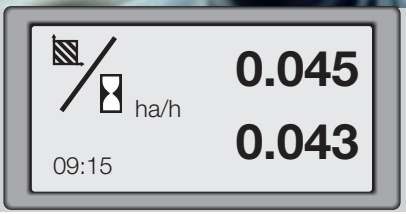
Efficient display.

The high contrast display is large and straightforward with quick access to the menus. Nothing will distract or irritate you, as you'll only see the information required at that particular moment. A smooth running selector makes precise and intuitive operation possible.

Keeping all the important information in view with CIS:

- Fuel consumption
- Finished surface area
- Area output
- Remaining working hours


ESC
C3
CLAAS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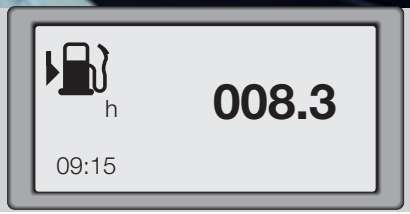
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FIRST CLAAS SERVICE® around the clock.

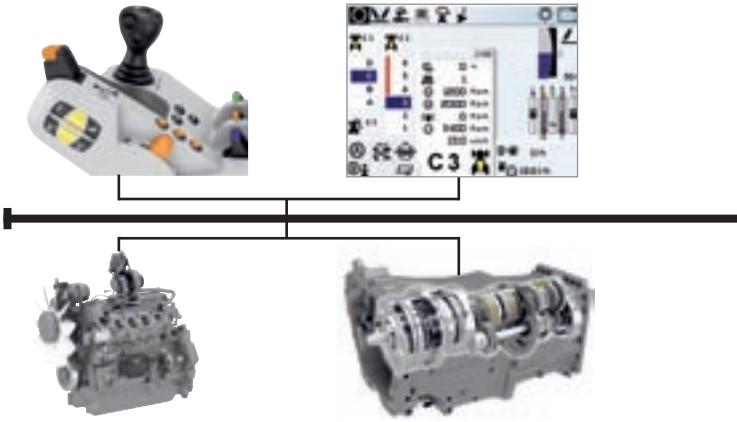
Our years of experience and enormous knowledge base have familiarised us like no one else with the working methods and individual requirements of every farming business. So we know exactly what it all comes down to, including the service aspects. Our FIRST CLAAS SERVICE® package is therefore synonymous with absolute reliability and professionalism.

We are there for you when you need us.

We provide your farm with the required ORIGINAL CLAAS spare parts any time. Reliably and, most importantly, fast. Keeping potential downtime as short as possible. You know it as well as we do: time is money.

CAN BUS technology in the ARION.

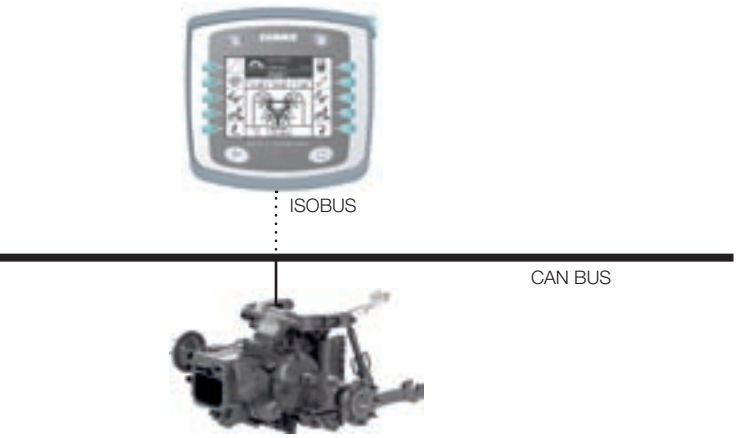
The ARION communicates via four CAN BUS systems which replace the old fashioned wiring to all the user functions. Up to 15 controllers are connected via the CAN data bus, a joint communication circuit. This saves up to 1.5 km of cable, facilitates innovative solutions such as the CSM headland management, and significantly eases service and diagnosis.



Good partners never let you down. No matter what.

Committed teams.

Our service teams enjoy their work and know exactly what they are talking about because expert knowledge and commitment are the perfect base for successful teamwork. So that you'll always remain the kind of customer we are happy to have. Entirely satisfied, that is.



CEBIS terminal, optional with up to six electronic spool valves

CIS display and up to four mechanical plus two additional electronic spool valves with ELECTROPILOT

Multifunction armrest with DRIVESTICK

GPS PILOT and CAM PILOT automatic guidance systems

DPS 4.5-litre, 4-cylinder (ARION 500) DPS 6.8-litre, 6-cylinder (ARION 600) with:
- common rail injection system
- 4-valve technology
- VGT turbo
- Intercooler
- External, cooled exhaust gas recirculation

Integrated front linkage with front PTO shaft

PROACTIV suspended front axle

Long wheelbase

Perfectly matched HEXASHIFT transmission

Up to 14 spotlights, with four optional Xenon lights available

FOPS transparent sunroof

CAN BUS electronic architecture

Remote control on the mudguard for lifting, PTO shaft and an electronic spool valve

Load-sensing hydraulics

4-point cab suspension

Automatic PTO control

40 or 50 km/h at 1,900 rpm available on all models except for ARION 510 (40 km/h only)

ARION

		640	630	620	610	540	530	520	510
Engine									
Manufacturer		DPS	DPS	DPS	DPS	DPS	DPS	DPS	DPS
Number of cylinders/intake		6/TI	6/TI	6/TI	6/TI	4/TI	4/TI	4/TI	4/TI
Cubic capacity	cm^3	6788	6788	6788	6788	4525	4525	4525	4525
Nominal engine speed	rpm	2200	2200	2200	2200	2200	2200	2200	2200
Output at nominal engine speed (97/68/EC[1])	kW	129	113	103	95	115	97	93.5	85
Output at nominal engine speed (ECE R 120[2])	kW/hp	114/155	107/145	99/135	88/120	99/135	96/130	88/120	81/110
Max. output (ECE R 120[2])	kW/hp	118/160	114/155	103/140	96/130	103/140	98/133	93/127	86/117
Max. output with CPM (ECE R 120[2])	kW/hp	132/180	–	–	–	118/160	–	–	–
Output at nominal engine speed (ECE R 24)	kW/hp	110/150	103/140	96/130	85/115	96/130	92/125	85/115	77/105
Max. output (ECE R 24)	kW/hp	114/155	110/150	99/135	92/125	99/135	94/128	90/122	82/112
Max. output with CPM (ECE R 24)	kW/hp	129/175	–	–	–	114/155	–	–	–
Max. output at engine speed	rpm	2000	2000	2000	2000	2000	2000	2000	2000
Constant output	rpm	500	550	400	400	550	500	500	400
Engine speed at max. torque	rpm	1650	1650	1650	1650	1650	1650	1650	1650
Max. torque (ECE R 120[2])	Nm	657	633	580	534	585	541	526	477
Max. torque with CPM (ECE R 120[2])	Nm	718	–	–	–	619	–	–	–
Max. torque (ECE R 24)	Nm	656	630	571	527	577	530	520	470
Max. torque with CPM (ECE R 24)	Nm	710	–	–	–	610	–	–	–
Electronically controlled injection pump		●	●	●	●	●	●	●	●
Air filter dust aspiration		●	●	●	●	●	●	●	●
Max. fuel capacity	l	330	330	330	330	250	250	250	250
Oil change interval	h	500	500	500	500	500	500	500	500
Transmission									
Ratios F / R		24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24
Min. speed	km/h	1.6	1.5	1.7	1.6	1.6	1.6	1.6	1.6
Max. speed	km/h	40/50	40/50	40/50	40/50	40/50	40/50	40/50	40
REVERSHIFT clutchless reverser		●	●	●	●	●	●	●	●
Number of powershift steps		6	6	6	6	6	6	6	6
Electrically controlled ranges		4	4	4	4	4	4	4	4
HEXACTIV		○	○	○	○	○	○	○	○
Creep range	km/h	0.43	0.43	0.47	0.45	0.45	0.45	0.45	0.45
Extra slow	km/h	0.11	0.11	0.13	0.12	0.12	0.12	0.12	0.12
Oil change interval	h	1000	1000	1000	1000	1000	1000	1000	1000
Rear axle									
Electrohydraulically connected differential locks		●	●	●	●	●	●	●	●
Automatic differential locks		●	●	●	●	●	●	●	●
Max. rear tyres		650/65 R38	650/65 R38	650/65 R38	600/65 R38	600/65 R38	600/65 R38	600/65 R38	600/65 R38
PTO									
Wet multi-disc clutch		●	●	●	●	●	●	●	●
Remote control engagement and emergency stop		●	●	●	●	●	●	●	●
540/1000		●	●	●	●	●	●	●	●
540/540E/1000/1000E		○	○	○	○	○	○	○	○
PTO shaft*		○	○	○	○	○	○	○	○
Changeable PTO shaft stub		●	●	●	●	●	●	●	●
Number of splines		6/21	6/21	6/21	6/21	6/21	6/21	6/21	6/21
Automatic PTO engagement/disengagement		●	●	●	●	●	●	●	●

● Standard ○ Optional ◘ Available – Not available

[1] Performance data fit criteria for admissibility. Performance as per 97/68/EC is identical to 2000/25/EC. [2] Complies with ISO TR 14396

ARION

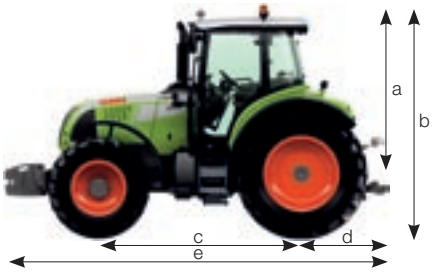
		640	630	620	610	540	530	520	510
4-wheel drive front axle									
Electrohydraulic operation		●	●	●	●	●	●	●	●
Automatic 4-wheel drive		●	●	●	●	●	●	●	●
Max. steering angle	Degrees	55	55	55	55	55	55	55	55
Castor angle	Degrees	6	6	6	6	6	6	6	6
Angle of oscillation	Degrees	10	10	10	10	10	10	10	10
Turning radius	m	4.9	4.9	4.9	4.8	4.5	4.5	4.5	4.4
Track	mm	2050	2050	2050	1950	1950	1950	1950	1950
with tyres		16.9 R 28	16.9 R 28	16.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	13.6 R 28
Wet multi-disc clutch		●	●	●	●	●	●	●	●
PROACTIV suspended front axle		○	○	○	○	○	○	○	○
Fixed mudguards		○	○	○	○	○	○	○	○
Pivoting mudguards		○	○	○	○	○	○	○	○
Hydraulics									
Open hydraulic circuit		–	–	–	–	○	○	○	○
Flow at rated speed	l/min	–	–	–	–	–	–	–	–
Max. operating pressure	bar	–	–	–	–	–	–	–	–
Load-sensing circuit		●	●	●	●	●	●	●	●
Flow at rated speed	l/min	110	110	110	110	110	110	110	110
Max. operating pressure	bar	200	200	200	200	200	200	200	200
Number of control valves (min.–max.)		2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6
Quantity control		●	●	●	●	●	●	●	●
ELECTROPILOT 4-way control		○	○	○	○	○	○	○	○
Rear linkage									
Max. lifting power at ball ends	kg	8000	6900	6500	6500	6500	6500	6500	6500
Continuous lifting power at 610 mm	kg	5100	4200	4100	4100	4100	4100	4100	4100
Lifting range	mm	812	748	745	745	745	745	745	745
Vibration damping		●	●	●	●	●	●	●	●
Active slip control		○	○	○	○	○	○	○	○
Trailer hydraulic brake		○	○	○	○	○	○	○	○
Air brake system		○	○	○	○	○	○	○	○
Trailer plug		●	●	●	●	●	●	●	●
25-ampere socket		●	●	●	●	●	●	●	●
Front linkage									
Max. lifting capacity at 610 mm	t	3.2/4	3.2/4	3.2/4	3.2/4	3.2/4	3.2	3.2	3.2
Front PTO rpm		○	○	○	○	○	○	○	○
External operation		○	○	○	○	○	○	○	○
Hydraulic connections		○	○	○	○	○	○	○	○
Trailer plug		○	○	○	○	○	○	○	○
25-ampere socket		○	○	○	○	○	○	○	○
Cab									
CIS with mechanical spool valves		●	●	●	●	●	●	●	●
CEBIS with electronic spool valves		○	○	○	○	○	○	○	○
4-point suspension		●	●	●	●	●	●	●	●
Multifunction armrest		●	●	●	●	●	●	●	●
Air conditioning		●	●	●	●	●	●	●	●
Automatic climate control		○	○	○	○	○	○	○	○
Passenger seat		●	●	●	●	●	●	●	●
Cooler compartment		○	○	○	○	○	○	○	○

● Standard ○ Optional ◘ Available – Not available

		640	630	620	610	540	530	520	510
Dimensions									
Height									
Rear wheels		20.8 R 38	20.8 R 38	20.8 R 38	18.4 R 38	18.4 R 38	18.4 R 38	18.4 R 38	16.9 R 38
Front wheels		16.9 R 28	16.9 R 28	16.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	13.6 R 28
Centre rear axle – cab upper edge (a)	mm	2180	2180	2180	2180	2156	2156	2156	2156
Overall height (b)	mm	3055	3055	3055	3005	2981	2981	2981	2956
Length									
Wheelbase (c)	mm	2820	2820	2820	2820	2560	2560	2560	2560
Clearance, rear axle – lower link (d)	mm	1198	1198	1198	1198	1198	1198	1198	1198
Length with front ballast and trailer hitch (e)	mm	5155	5155	5155	5155	4889	4889	4889	4889
Ground clearance									
Front axle (f)	mm	541	541	541	516	516	516	516	491
Rear axle (g)	mm	549	549	535	508	508	508	508	483
Weights (standard tyres, with oil and fuel, fixed front axle, with driver)									
Rear wheels		20.8 R 38	20.8 R 38	20.8 R 38	18.4 R 38	18.4 R 38	18.4 R 38	18.4 R 38	16.9 R 38
Front wheels		16.9 R 28	16.9 R 28	16.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	13.6 R 28
Weight without ballast	kg	6260	6220	5950	5720	5470	5470	5470	5380
PROACTIV weight	kg	+227	+227	+179	+179	+179	+179	+179	+179
Max. front ballast without front lift linkage	kg	1254	954	954	804	804	804	804	804
Weight distribution with ballast and suspended front axle (front/rear)	%	55/45	53/47	54/46	53/47	54/46	54/46	54/46	54/46
Max. permissible gross weight (40-km/h version)	kg	11000	11000	10250	8800	8800	8800	8800	8800
Max. permissible gross weight (50-km/h version)	kg	9250	9250	8800	8800	8800	8800	8800	–

Tyres (standard axle or sprung front axle)									
Rear tyres	Front tyres								
16.9 R 38 (420/85 R 38)	13.6 R 28 (340/85 R 28)	–	–	–	◘	◘	◘	◘	◘
480/70 R 38	380/70 R 28	–	–	–	◘	◘	◘	◘	◘
540/65 R 38	440/65 R 28	–	–	–	◘	◘	◘	◘	◘
18.4 R 38 (460/85 R 38)	14.9 R 28 (380/85 R 28)	–	◘	◘	◘	◘	◘	◘	◘
600/65 R 38	480/65 R 28	–	◘	◘	◘	◘	◘	◘	◘
520/70 R 38	420/70 R 28	–	◘	◘	◘	◘	◘	◘	◘
20.8 R38 (520/85 R 38)	16.9 R 28 (420/85 R 28)	◘	◘	◘	–	–	–	–	–
580/70 R 38	480/70 R 28	◘	◘	◘	–	–	–	–	–
650/65 R 38	540/65 R 28	◘	◘	◘	–	–	–	–	–
650/60 R 38[3]	520/60 R 28[3]	◘	◘	◘	◘	◘	◘	◘	◘

● Standard ○ Optional ◘ Available – Not available [3] XEOBIB



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