



Tractors

# ARION

640 C / 630 C / 620 C



# Built to handle anything.

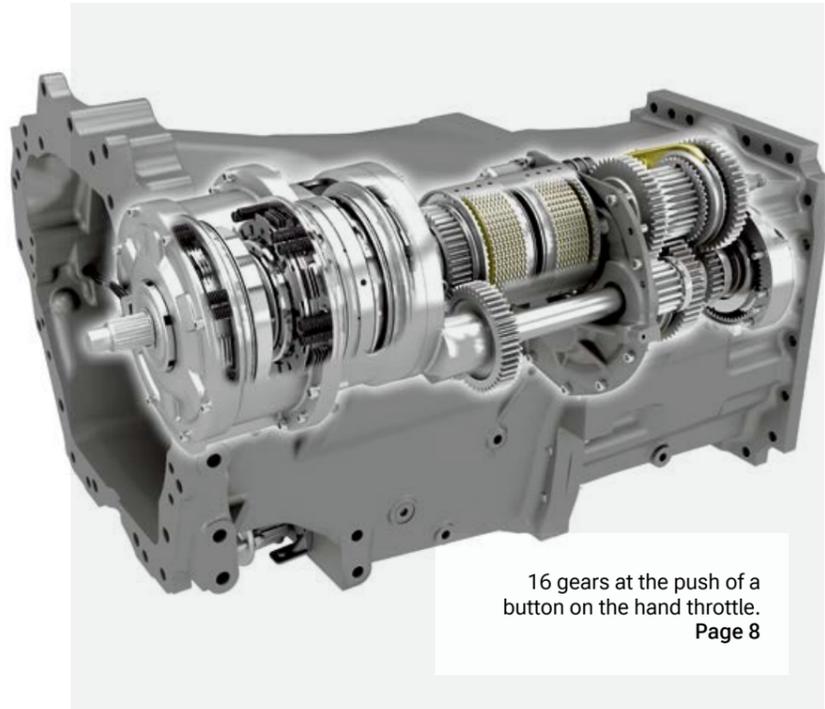
Meet the ARION 600 C – one of the most versatile tractors in the 140 to 170 hp class. Powerful, manoeuvrable and economical, the ARION 600 C has everything you could wish for from a machine that can tackle any task with confidence.

## **Challenge accepted. With tractors from CLAAS.**

Every day brings new challenges on your farm and CLAAS tractors are the perfect partners to help you meet them. They help farmers all over the world get the job done. And since farming is a complex business, you need the right equipment – versatile machines for transport, tillage and drilling, as well as for reliable everyday use around the farm. Whatever comes next, you'll be ready with tractors from CLAAS.

[tractors.claas.com](http://tractors.claas.com)

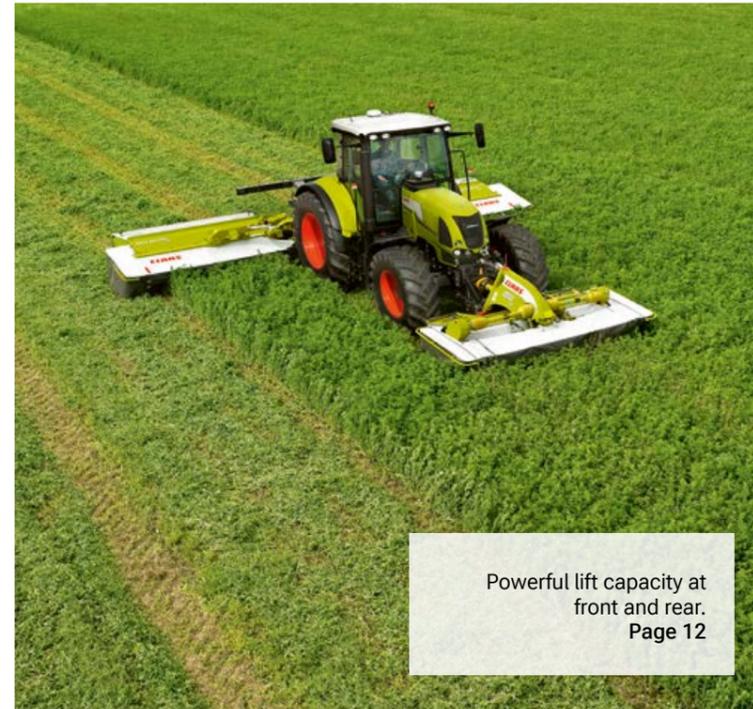
# Benefits for every farm.



16 gears at the push of a button on the hand throttle.  
Page 8



Even more pulling power and stability.  
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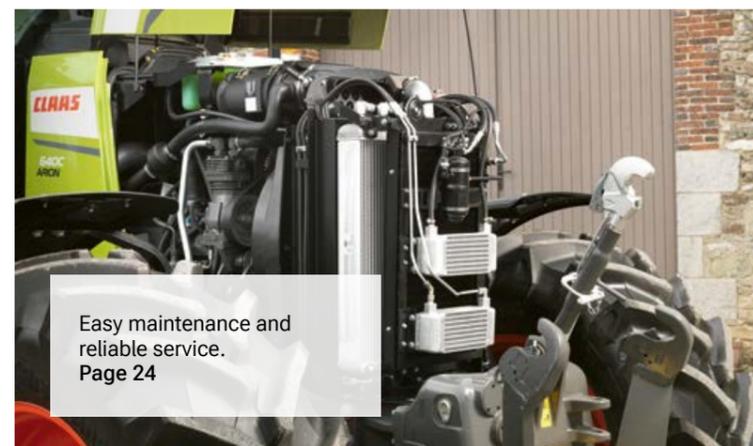
Powerful lift capacity at front and rear.  
Page 12



Comfortable drive and intuitive controls.  
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Save time and fuel with intelligent assistance.  
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Easy maintenance and reliable service.  
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# CLAAS POWER SYSTEMS (CPS) for intelligent drives.



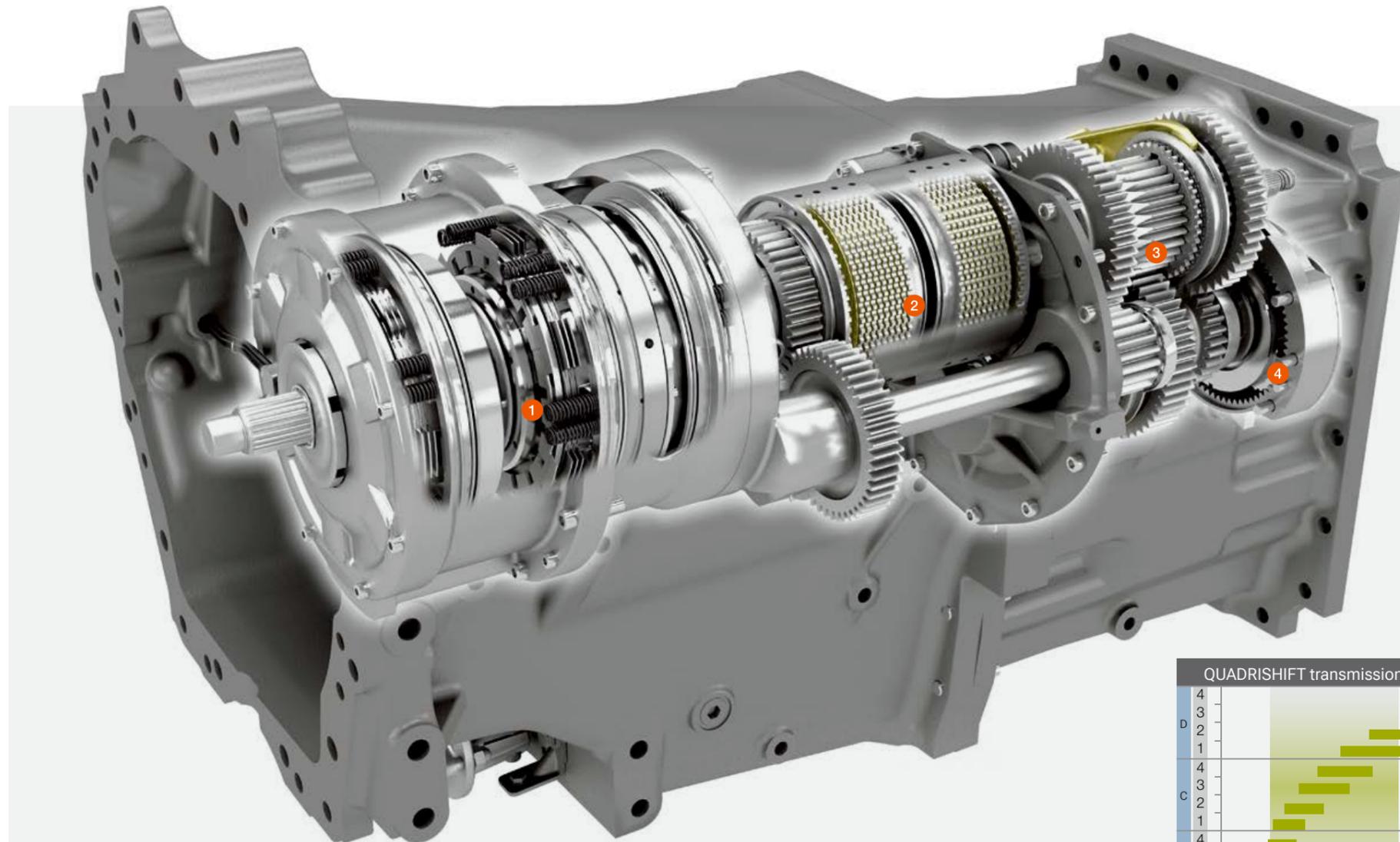
**Our drive system is the perfect combination of the best components.** Your CLAAS machine is much more than the sum of its individual parts. Top performance is only possible when all parts are ideally matched and work together optimally. In CLAAS POWER SYSTEMS (CPS), we have brought together top-quality 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. Fuel-saving technology that quickly pays off.

**CPS** | CLAAS  
POWER  
SYSTEMS



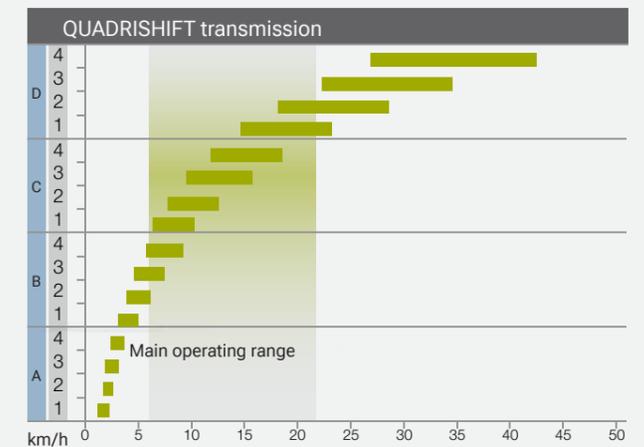
### Engine and transmission.

- 6.8 litre six-cylinder from 145 to 165 hp (ECE R 120): strong pulling power even at low speeds
- Electronic common rail injection system: the right amount of diesel at the right time
- QUADRISHIFT transmission with four powershift speeds: the right gear for every situation
- REVERSHIFT electrohydraulic clutchless reverser: for easy, rapid turning manoeuvres
- 24-gear creep gear from 460 m/h: especially useful for horticultural work



- 1 QUADRISHIFT: four powershift speeds
- 2 REVERSHIFT clutchless reverser
- 3 Four hydraulically controlled ranges
- 4 Creep gears

■ 40 km/h transmission at 1,400 to 2,200 rpm  
Tyres: 20.8 R 38



### Four hydraulically controlled ranges.

You don't need a shift lever or clutch pedal to operate the ARION 600 C. Just touch the buttons on the hand throttle with your fingertips to shift effortlessly through all four powershift speeds and ranges.

Our engineers are continuously developing solutions to help make your work even more efficient, reliable and cost-effective than before. State-of-the art 6.8 litre six-cylinder engines with turbocharger provide the ARION 600 C with impressive torque and enormous torque increase.



Four powershift speeds save you having to shift between ranges in many cases.

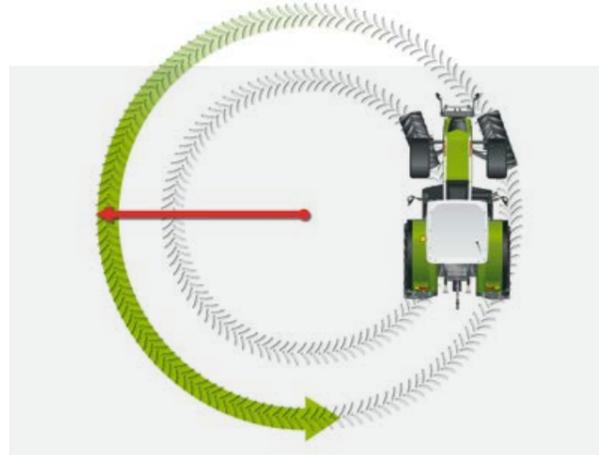


Operate the REVERSHIFT clutchless reverser with your fingertips.

# Designed for long, hard days

## Uniform weight distribution for maximum tractive power and stability.

You need a reliable tractor on your farm that can pull anything and remain stable. Two factors are crucial to this: the wheelbase and the weight distribution. The ARION 600 C features a long wheelbase of 2.82 m and almost equal weight distribution, with 53% at the front and 47% at the rear. This delivers the impressive tractive power and stability that make the ARION range so popular.



The tight turning radius saves valuable centimetres and precious time.



Short overall length ensures excellent manoeuvrability.



Intelligent weight distribution guaranteed. Stability and pulling power.



## Construction.

- Turning radius of just 4.85 m: steering lock up to 55° for outstanding manoeuvrability
- Overall length of just 4.72 m: good visibility and short trailer combination on the road
- Intelligent weight distribution of 53% at the front and 47% at the rear: excellent stability with attached implements
- Long wheelbase of 2.82 m: unrivalled driving comfort and safe road handling



# Sufficient power at front and rear.



## Front and rear linkage.

- 6.9 t lift capacity at the rear: the ARION can easily handle your large implements and seed drills
- TCE 15 T electronic rear linkage control: precision for optimum comfort and high-quality work
- 540 / 1000 / ECO (optional) PTO: allows you to cut diesel consumption and noise levels at reduced engine speed
- Spool valve blocks are easily accessible for quick connection and disconnection
- 3.8 t lift capacity at the front: enough power for implements and ballasting
- Front PTO: extends your range of applications and saves time and costs

## Powerful hydraulics – maximum efficiency.

Discover a new dimension in power and efficiency with the ARION 600 C. Innovative load-sensing hydraulics precisely and automatically adjust the oil flow rate of up to 150 l/min to the needs of your implements. This advanced technology can reduce the engine speed by up to 40%, while delivering the same flow rate. Furthermore, by providing only the volume of oil required, it optimises fuel consumption and reduces noise emissions.

The front linkage is fully integrated and equipped with folding lift arms. With reduced spacing between the ball ends and front axle, it is ideal for any task requiring precision ground tracking. In combination with the front PTO shaft, the front linkage offers exceptional versatility.

Discover how CLAAS front loaders significantly increase the scope and versatility of your tractor.

[frontloader.claas.com](http://frontloader.claas.com)

Hydraulic option <sup>1</sup>	98 l/min (Open circuit)	110 l/min (load sensing)	150 l/min (load sensing)
<b>Equipment</b>			
Spool valves with leakage oil collectors	•	–	–
Premium spool valves with release levers and oil leakage collectors	–	•	•
Hydraulic pump	Fixed displacement pump	Load-sensing variable displacement pump	Load-sensing variable displacement pump
Free-flow return line	o	–	–
Power Beyond with free-flow return	–	•	•

• standard o optional

<sup>1</sup> Not all options are available worldwide. Please contact your dealer to check availability.

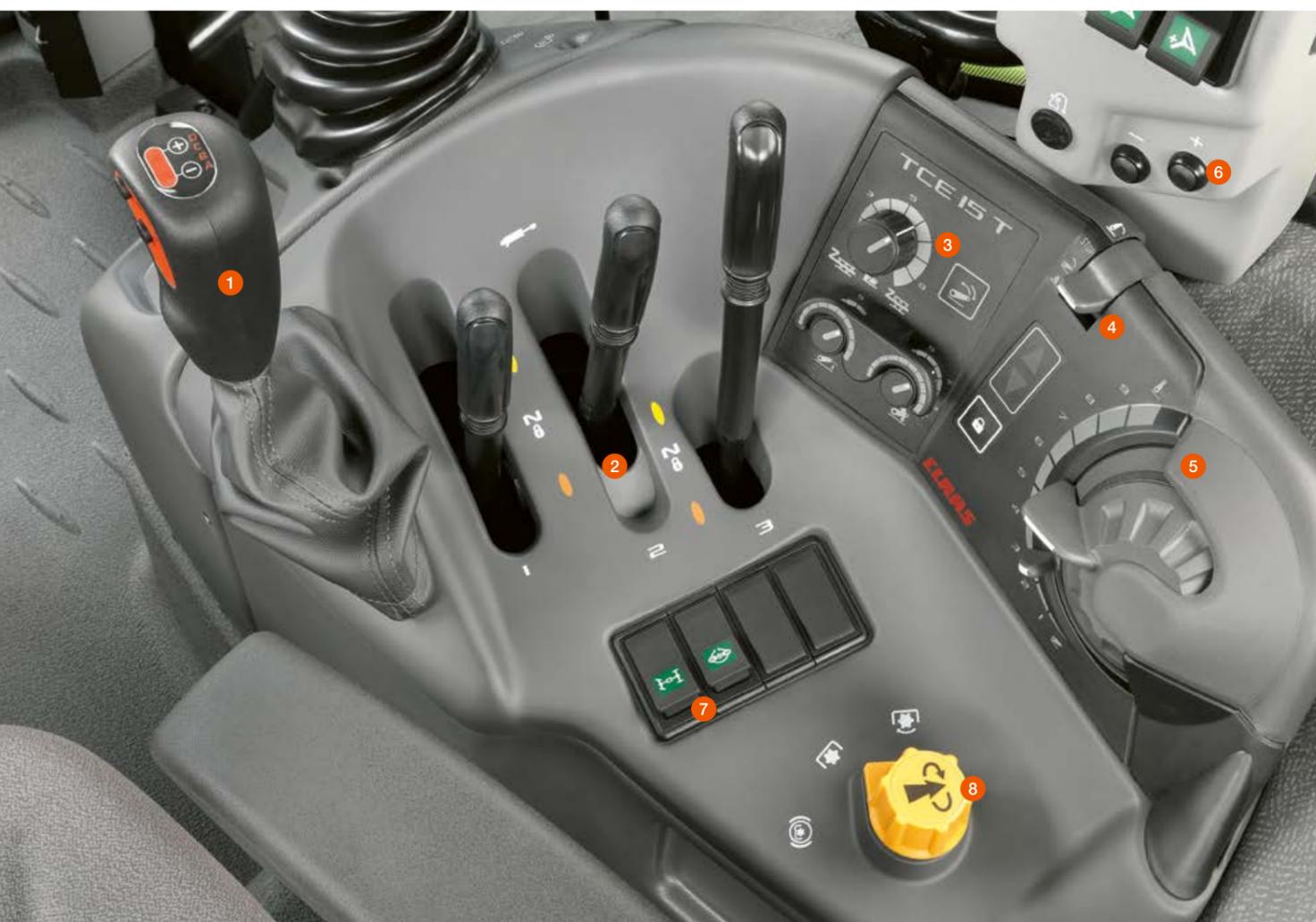
## User-friendly by design.

### Precise, positive controls.

The fully suspended cab protects you from vibrations, while the air conditioning and cooled drinks compartment keep you refreshed on long, hot days. The suspended operator's seat with optional rotating console protects your back and improves visibility to the rear. User-friendly, logically arranged controls and vibration damping on both linkages ensure smooth and comfortable operation.

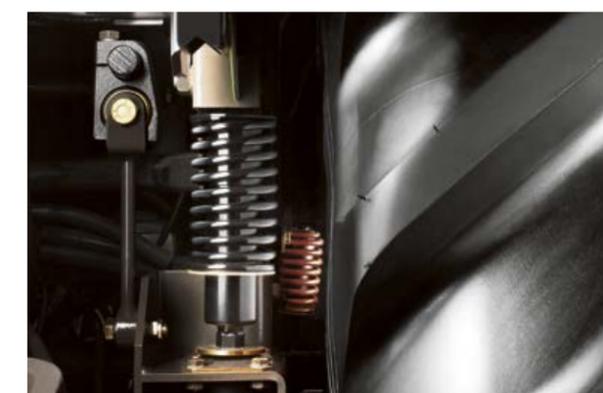


## Well-planned interior for maximum concentration.



### Work in comfort on hot summer days.

The controls for the efficient air-conditioning system are in easy reach to the left of the instrument panel. The fan has four speed settings so you can adjust it to suit the conditions. The cooler compartment can hold a 1.5 l bottle.



### Four-way suspension.

Four suspension points mean that the cab is fully isolated from the chassis. Longitudinal and lateral struts join the suspension points and keep the cab stable when turning corners or braking. Undistracted by jolts and bumps, the driver can focus fully on the job in hand.

### All in full view.

- 1 Multifunction control lever to operate hand throttle and transmission
- 2 Two or three mechanical spool valves
- 3 Rear linkage: vibration damping, lift-height limiter, drop rate, draught and position control
- 4 Rear linkage: lower, raise, quick implement entry
- 5 Rear linkage: set the working depth
- 6 +/- buttons to operate the transmission are duplicated on the B-pillar
- 7 Activate four-wheel drive and differential lock
- 8 Activate rear PTO



### Sit better. Work better.

Sit back and relax on long working days in the comfortable operator's seat with pneumatic low-frequency suspension and longitudinal suspension. The console rotates by 20°, allowing you to monitor rear implements in comfort without tiring.



### Vibration damping for a smoother ride.

Heavy implements mounted on the front and rear put a strain on you and your tractor. With the ARION 600 C both the front and rear linkage are equipped with vibration damping to compensate for peak loads during transport operations and when the attached implement is raised.

# GPS PILOT CEMIS 1200.

## Precision farming made easy.

### Precise, future-proof, simple.

Improve the profitability of your farm and simplify day-to-day operations – step into the future with the GPS PILOT CEMIS 1200.

With the GPS PILOT automatic steering system, your machine will seem like it's running on rails: always on the right track, using the full working width with no overlapping.

The CEMIS 1200 fits seamlessly into the cab: with the same intuitive control logic as CEBIS, operators will quickly find their way around.

You can use the system on all CLAAS machines set up for GPS PILOT CEMIS 1200. The terminal and receiver can be transferred from one machine to another in next to no time, giving you complete flexibility and saving money.

Thanks to ISOBUS and standard data exchange formats, the CEMIS 1200 is the way forward for more precision in farming.

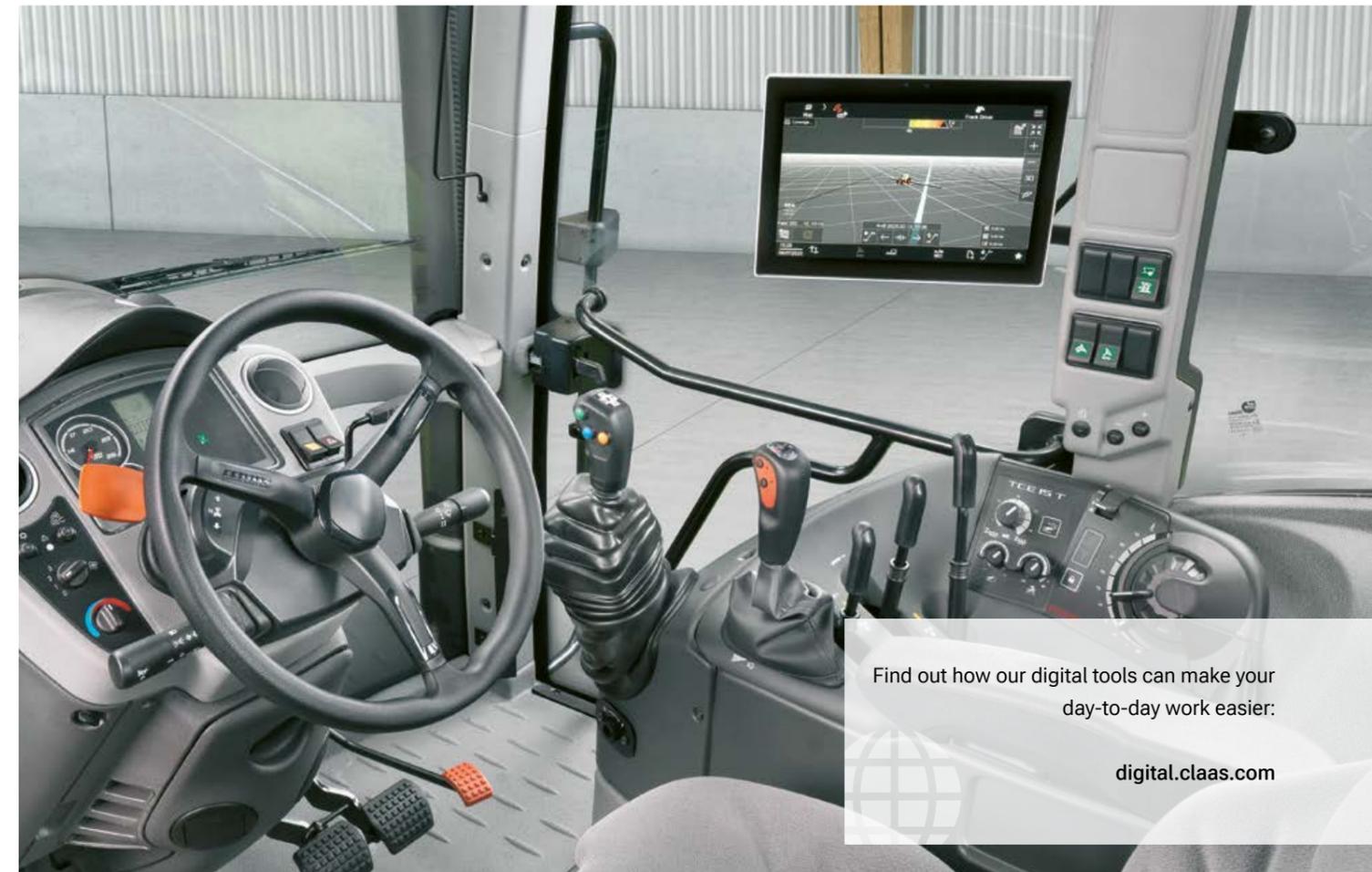
### Reference track planning.

Plan your reference tracks with ease – record reference tracks spontaneously or use reference track management on the CEMIS 1200 to plan your tracks based on field boundaries. Pre-planned reference tracks can also be transferred to the terminal. CEMIS 1200 provides various different drive modes which enable you to maximise the efficiency of your fieldwork.

In addition, tramline management prompts you to create a tramline in the right position. Tramlines are highlighted in colour on the screen, giving you a perfect overview of your work. You can also activate an acoustic signal.

### Benefits:

- Intuitive user interface for outstanding ease of use day and night
- Quick access to all important functions
- Freely configurable working areas for custom control
- The fast and easy way to start fieldwork



Find out how our digital tools can make your day-to-day work easier:

[digital.claas.com](http://digital.claas.com)



Reference track management



Tramline management

### Precision guidance.

You need a good correction signal for precise work. It's a given with SATCOR 15<sup>1</sup> as standard for 5 years.

### Need even greater accuracy?

Choose the optional SATCOR 3<sup>1</sup> and SATCOR 3 FAST<sup>1</sup> correction signals ( $\pm 3$  cm).

### Absolute precision your top priority?

Choose the GPS PILOT CEMIS 1200 with RTK correction signal for the highest possible repeatable accuracy ( $\pm 2-3$  cm).

### RTK Bridging.

All RTK correction signals are enhanced by the RTK Bridging function as standard, so if the signal is lost, work can continue for up to 20 minutes with gradually decreasing accuracy.

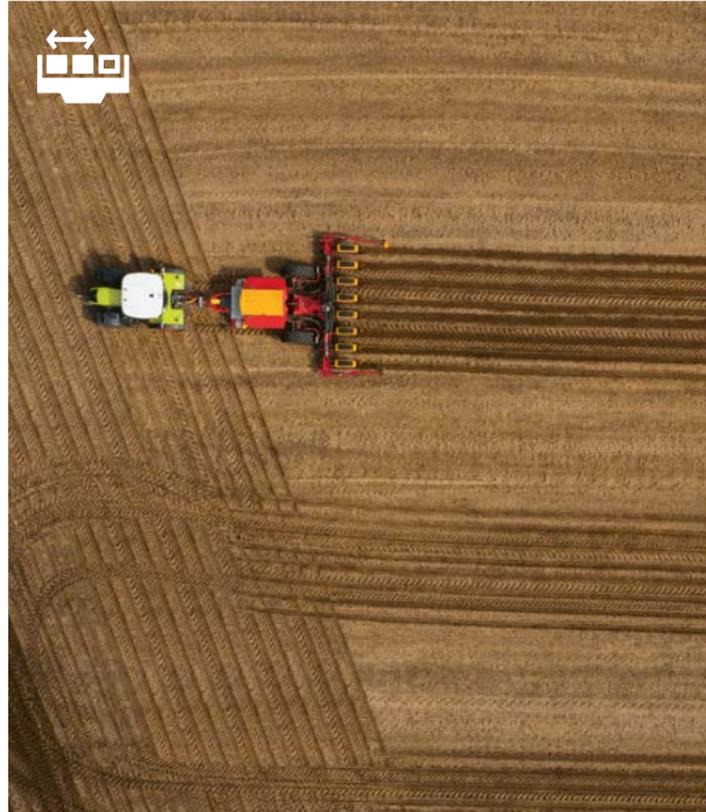
### Difficult topography or mobile phone dead zones in your area?

With RTK Bridging Premium you can carry on working – without loss of accuracy or time limits.

<sup>1</sup> SATCOR 15 / SATCOR 3 / SATCOR 3 FAST powered by Trimble RTX. SATCOR correction signals, RTK Bridging and RTK Bridging Premium are not available in all regions. Together with your CLAAS distributor, we will find the best solution for your individual requirements.

The images are for illustrative purposes and may depict other tractor series.

# GPS PILOT CEMIS 1200. Moving with the times.



 **Future-proof – GPS PILOT CEMIS 1200.**

With GPS PILOT CEMIS 1200, you get a terminal fit for the future. Tailor-made for your farm, with full functionality pre-installed or added gradually to suit your growing needs.

Still not sure? Why not test additional functions and correction signals free of charge in advance?

Perhaps your requirements have changed during the season? No problem – with the digital connection you can adapt the system's functions quickly and flexibly to suit your needs. The appropriate licence or activation can be transferred online straight to your terminal.<sup>1</sup>

 **ISOBUS Universal Terminal (ISO UT).**

The ISO UT implement view can be displayed in the main work screen or in the smaller implement screen. This enables you to customise the display settings to suit your needs. The AUX-N allows functions to be assigned to physical function keys.

**Benefits:**

- Customisable display settings for ISOBUS implements in the CEMIS 1200 terminal
- User-friendly operation using function keys
- Transfer new licences online or activate directly on the terminal

 **ISOBUS TC Section Control.**

The ISOBUS functionality of the CEMIS 1200 allows you to switch sections on or off automatically – for all the precision and none of the hassle.

 **Precision farming and documentation with ISOBUS TC-GEO and VRA.**

With ISOBUS TC-GEO you can easily record geo-referenced data such as application rates. If you want to target applications to specific areas, simply add the VRA (Variable Rate Application) module.

 **Office and machine seamlessly connected. Task Management. <sup>1</sup>**

With the CEMIS 1200 and Machine connect, you can handle your job management via your mobile phone connection in just a few clicks – it's standardised and convenient.

Plan your tasks in your farm management software and transfer them straight from CLAAS connect or other connected systems to the machine. The operator has all the tasks in sight and can quickly and easily send them back to the office on completion.

Assign, complete and document – seamlessly and reliably.

<sup>1</sup>In countries with CLAAS connect. Not all products are available worldwide. Please contact your dealer to check availability.

The images are for illustrative purposes and may depict other tractor series.

On call for you.

Parts and services?

Everything, at the right time.

**We're here for you – together, we can achieve the best possible results.**

At CLAAS, keeping you operational is our top priority. With our comprehensive range of services, parts and consumables, we ensure that your machines always perform optimally.

Our support includes a wide range of maintenance and repair services available from your dealer, an extensive line-up of ORIGINAL parts and consumables, as well as digital tools which support your planning and decision-making. Confidence comes from knowing you are always ready for action.

**Fully covered with MAXI CARE service agreements.**

MAXI CARE gives you all-round cover for repairs and maintenance. A comprehensive range of packages ensures that your machines are always ready for action, allowing you to focus fully on your core tasks. CLAAS offers four MAXI CARE service agreements tailored to the needs of your business.



# All set for speedy maintenance.

## Good accessibility.

Daily maintenance work should be as straightforward as possible – because we know from experience that nobody enjoys doing things that are complicated or inconvenient. With the ARION 600 C, you can access all the relevant areas in no time at all. Engine, air filter, radiator and cab filter are easy to reach. What's more, the ARION 600 C can be refuelled just like a passenger car, and the tank holds a generous 280 litres of fuel.



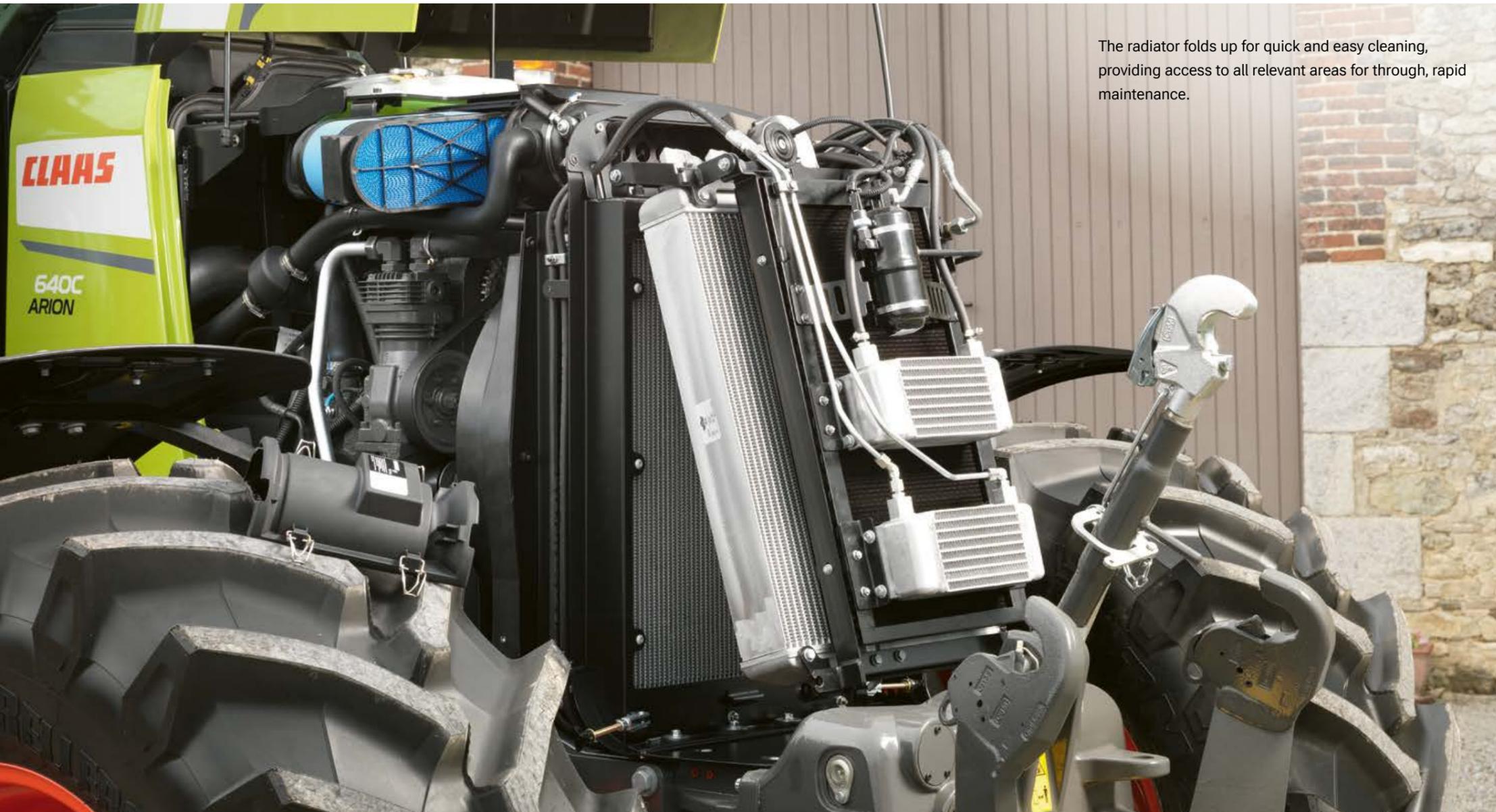
The engine oil dipstick is easy to reach even when a front loader is fitted.



The generously sized air filter is designed for a long service life.

## Regular maintenance saves costs.

- The bonnet can be opened in a few simple steps, giving you easy access to all maintenance points
- Tool-free daily maintenance: perform simple maintenance tasks effortlessly yourself
- Engine oil change every 500 hours, transmission and hydraulic oil change every 1,500 hours: long maintenance intervals allow you greater operational flexibility
- PowerCore air filter with coarse dirt particle extraction: save valuable maintenance time during filter cleaning



The radiator folds up for quick and easy cleaning, providing access to all relevant areas for through, rapid maintenance.



**Whatever it takes. CLAAS Service & Parts.**  
24-hour CLAAS Service & Parts. Discover how you can increase your machine reliability and minimise your risk of breakdowns with CLAAS ORIGINAL parts and MAXI CARE services.

CLAAS Service & Parts  
is there for you 24/7.  
[service.claas.com](http://service.claas.com)

# Good reasons to help you decide.



## Unrivalled power.

- DPS 6.8 litre six-cylinder engines with common rail injection system
- Max. output 145 to 165 hp to ECE R 120
- 16/16 QUADRISHIFT transmission with four powershift speeds
- 24-gear creep gear with speeds from 460 m/h (optional)
- Up to three mechanical spool valves
- Load-sensing hydraulics with up to 150-l/min flow rate and Power Beyond
- PTO speeds 540, 1000 und ECO (optional)

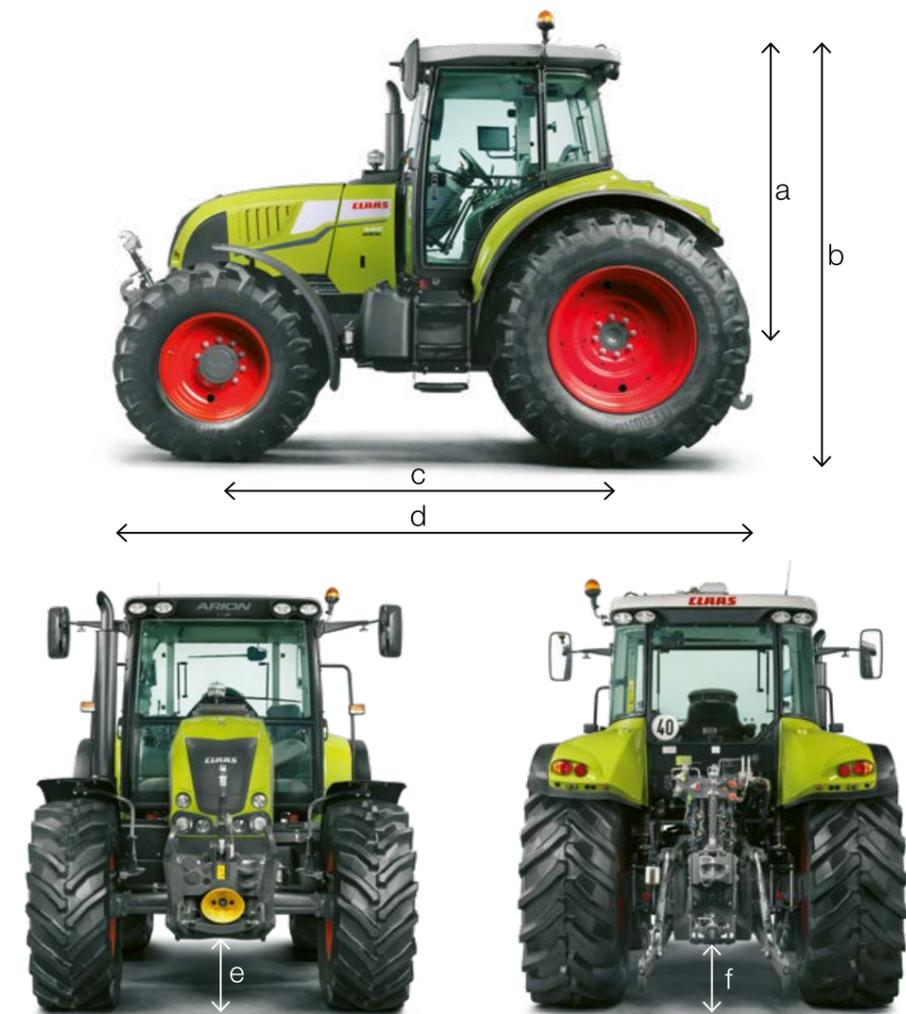
## Enhanced comfort.

- CLAAS comfort concept with 4-point cab suspension
- Comfort cab with air conditioning
- Long wheelbase for intelligent weight distribution and enhanced driving comfort
- Clutchless shifting with the shift buttons on the hand throttle
- TCE 15 T rear linkage control system
- Up to ten work lights for large-area lighting
- GPS PILOT CEMIS 1200 with ISOBUS implement control and task management

The ARION 600 C is designed to meet your needs. Please contact us if you have any questions about purchasing, service and support. Our team is here to help.

[tractors.claas.com](http://tractors.claas.com)

ARION		640 C	630 C	620 C
<b>Dimensions</b>				
<b>Height</b>				
Rear wheels		20.8 R 38	20.8 R 38	20.8 R 38
Front wheels		16.9 R 28	16.9 R 28	16.9 R 28
Centre rear axle – cab upper edge (a)	mm	2110	2110	2110
Overall height (b)	mm	3055	3055	3055
<b>Length</b>				
Wheelbase (c)	mm	2820	2820	2820
Length (with front weight carrier and trailer hitch) (d)	mm	4728	4728	4728
<b>Ground clearance</b>				
Front axle (e)	mm	464	464	464
Rear axle (f)	mm	539	539	539
<b>Weights (standard tyres, with oil and fuel, with driver)</b>				
Rear wheels		18.4 R 38	18.4 R 38	18.4 R 38
Front wheels		14.9 R 28	14.9 R 28	14.9 R 28
Weight without ballast	kg	5930	5870	5600
Max. front ballast without front linkage	kg	700	700	700
Weight distribution with 700 kg front weight (rear/front)	%	53/47	53/47	53/47
Permissible gross weight	kg	9250	9250	9250



ARION		640 C	630 C	620 C
<b>Engine</b>				
Manufacturer		DPS	DPS	DPS
Number of cylinders / intake		6/TI	6/TI	6/TI
Cubic capacity	cm <sup>3</sup>	6788	6788	6788
Nominal engine speed	rpm	2200	2200	2200
Output at nominal engine speed (97/68/EC <sup>1</sup> )	kW	116	113	103
Output at nominal engine speed (ECE R 120 <sup>2</sup> )	kW/hp	116/156	107/145	99/135
Max. output (ECE R 120 <sup>2</sup> )	kW/hp	124/166	114/155	103/140
Output at nominal engine speed (ECE R 24)	kW/hp	116/156	103/140	95/129
Max. output (ECE R 24)	kW/hp	118/160	110/150	99/135
Max. output at engine speed	rpm	2000	2000	2000
Constant output	rpm	400	400	500
Engine speed at max. torque	rpm	1500	1500	1500
Max. torque (ECE R 120 <sup>2</sup> )	Nm	667	633	580
Electronically controlled injection pump		●	●	●
Air filter dust aspiration		●	●	●
Fuel tank capacity	l	280	280	280
Oil-change interval	h	500	500	500
<b>Transmission</b>				
Ratios F/R		16/16	16/16	16/16
Min. speed	km/h	1.8	1.8	1.8
Min. speed with creep gear	m/h	460	460	460
Max. speed	km/h	40	40	40
REVERSHIFT clutchless reverser		●	●	●
Powershift speeds		4	4	4
Electronically controlled ranges		4	4	4
Oil-change interval	h	1000	1000	1000
<b>Rear axle</b>				
Electrohydraulically activated differential locks		●	●	●
Automatic differential lock		●	●	●
Max. rear tyres		650/65 R 38	650/65 R 38	650/65 R 38
<b>PTO</b>				
Wet multi-disc clutch		●	●	●
Stop button for rear PTO on both mudguards		●	●	●
540/1000		●	●	●
540/540 ECO/1000/1000 ECO		○	○	○
Changeable PTO stub		●	●	●
Number of splines		6/8/21	6/8/21	6/8/21

<sup>1</sup> Performance data fit criteria for admissibility. Performance as per 97/68/EC is identical to 2000/25/EC.

<sup>2</sup> Meets ISO TR 14396.

<sup>3</sup> Footnote

● standard ○ optional □ available – not available

ARION		640 C	630 C	620 C
<b>Four-wheel drive front axle</b>				
Electrohydraulic operation		●	●	●
Wet multi-disc clutch		●	●	●
Automatic 4-wheel drive		●	●	●
Max. steering angle	degrees	55	55	55
Castor angle	degrees	6	6	6
Angle of oscillation	degrees	10	10	10
Turning radius	m	4.85	4.85	4.85
Track	mm	1950	1950	1950
With tyres		14.9 R 28	14.9 R 28	14.9 R 28
Pivoting mudguards		○	○	○
<b>Hydraulics</b>				
Number of spool valves		3	3	3
Flow control via the spool valve		●	●	●
Max. operating pressure	bar	200	200	200
Open hydraulic circuit		●	●	●
Flow at rated speed	l/min	98	98	98
Free-flow return line		○	○	○
Load-sensing circuit 1 (incl. Premium spool valves with release levers and leakage oil collectors)		○	○	○
Flow at rated speed	l/min	110	110	110
Power Beyond (incl. free-flow return)		○	○	○
Load-sensing circuit 2 (incl. Premium spool valves with release levers and leakage oil collectors)		○	○	○
Flow at rated speed	l/min	150	150	150
Power Beyond (incl. free-flow return)		○	○	○
<b>Front linkage</b>				
Max. lifting power	t	3.80	3.80	3.80
Front PTO 1000 rpm		○	○	○
<b>Rear linkage</b>				
Max. lift capacity at ball ends	kg	6900	6900	6500
Continuous lift capacity at 610 mm	kg	4200	4200	4100
Vibration damping		●	●	●
Hydraulic trailer brakes		○	○	○
Air brakes		○	○	○
Trailer socket		●	●	●
25 amp socket		●	●	●
<b>Cabs</b>				
Unsprung		●	●	●
4-point suspension		○	○	○
Air conditioning		●	●	●
Cooler compartment		●	●	●

CLAAS continually develops its products to meet customer requirements. This means that all products are subject to change without notice. All descriptions and specifications in this brochure should be considered approximate and may include optional equipment that is not part of the standard specifications. This brochure is designed for worldwide use. Please refer to your nearest CLAAS dealer and their price list for local specification details. Some protective panels may have been removed for photographic purposes in order to present the function clearly. To avoid any risk of danger, never remove these protective panels yourself. In this respect, please refer to the relevant instructions in the operator's manual. All technical specifications relating to engines are based on the European emission regulation standards: Stage. Any reference to the Tier standards in this document is intended solely for information purposes and ease of understanding. It does not imply approval for regions in which emissions are regulated by Tier.

● standard ○ optional □ available – not available

# We want to make you the best in your field.

In everything we do, the focus is on you, our customers. We understand your daily challenges. Together with you, we develop agricultural technology ensuring you can farm successfully and sustainably today and in the future. Our digital solutions simplify complex processes and make your work so much more convenient.



CLAAS KGaA mbH  
Mühlenwinkel 1  
33428 Harsewinkel  
Deutschland  
Tel. +49 5247 12-0  
claas.com