

Tractors

## ARION

460 450 440 430 420 410



# Just the way you want it. The new ARION 400.

Every day brings new challenges, and no one knows this better than you. You need a tractor that will be with you all of the way, but you don't want an off-the shelf model. You want a tractor that can do exactly what you want it to do - no more and definitely no less. The ARION 400 is exactly what you need. Just the way you want it.



arion400.claas.com

ARION 460-410.



Innovations	
CLAAS POWER SYSTEMS	
Engine	
Transmission	
Construction	2
Hydraulics	4
Rear linkage / PTO	4
Front linkage	4
Front loaders	(
Comfort	;
Cab variants	(
Versions	(
Multifunction control lever and	
multipad	(
Right-hand control panel	4
CIS and CIS colour display	4
CSM, dynamic steering	4
Comfort	4
Electronics expertise	,
Business and data management	į
Operator assistance systems	į
Maintenance	į
CLAAS Service & Parts	į
Features	(
Specifications	(

## The right choice in any situation.

#### Three equipment options.

#### High standard. Simply good.

With mechanical spool valves and multipad on the right-hand console

#### CIS. Simply more.

With mechanical spool valves, multifunction control lever and CIS display.

#### CIS+. Simply everything.

With electronic spool valves, multifunction control lever, 7" CIS colour display and CSM headland management (optional)







- Reverse-drive function: operate the REVERSHIFT clutchless reverser with the right hand using the multifunction control lever
- SMART STOP: stop with the brake pedal without using the clutch
- Cruise control: set a target speed instead of a fixed engine speed and the HEXACTIV auto-shift function will do the rest for you



NEW: Making work even easier.

- Dynamic steering: the ratio between the steering wheel and front axle steering angle can be adjusted in several steps to suit the driver's preferences
- CSM headland management: replay any previously recorded headland turning sequences simply by pressing a button
- Four freely programmable F buttons on the multifunction control lever for front loader, ISOBUS and tractor functions









- PTO: up to three PTO speeds (540 / 540 ECO / 1000 rpm) and optional ground speed PTO
- Powerful braking system with brake booster
- Trailer brake with two-line system (pneumatic) as standard
- K80 hitch ball in the drawbar slot

NEW: Greater versatility.



NEW: More cab versions.

- Low-profile cab for all models with clearance height of 2.50 m
- Municipal and high-profile cabs with transparent sunroof for a better view of front loader
- Air conditioning for even greater comfort on hot or cold days
- Cab with category 3 filtration system to EN 15695 special filters available to protect the driver during crop spraying

#### Optimised drive for outstanding results.

The CLAAS machinery development programme constantly strives to maximise efficiency, improve reliability and optimise cost-effectiveness. CLAAS POWER SYSTEMS (CPS) bring together top-quality components to create a drive system that sets new standards – and always delivers maximum power when it is needed. CPS is ideally matched to the working system, featuring fuel-saving technology that quickly pays for itself.





# Constant output is just as important as pure power.

#### Strong at heart.

Under the bonnet, all models feature engines from FPT (Fiat Powertrain Technologies) with a cubic capacity of 4.5 litres and all the latest technology.

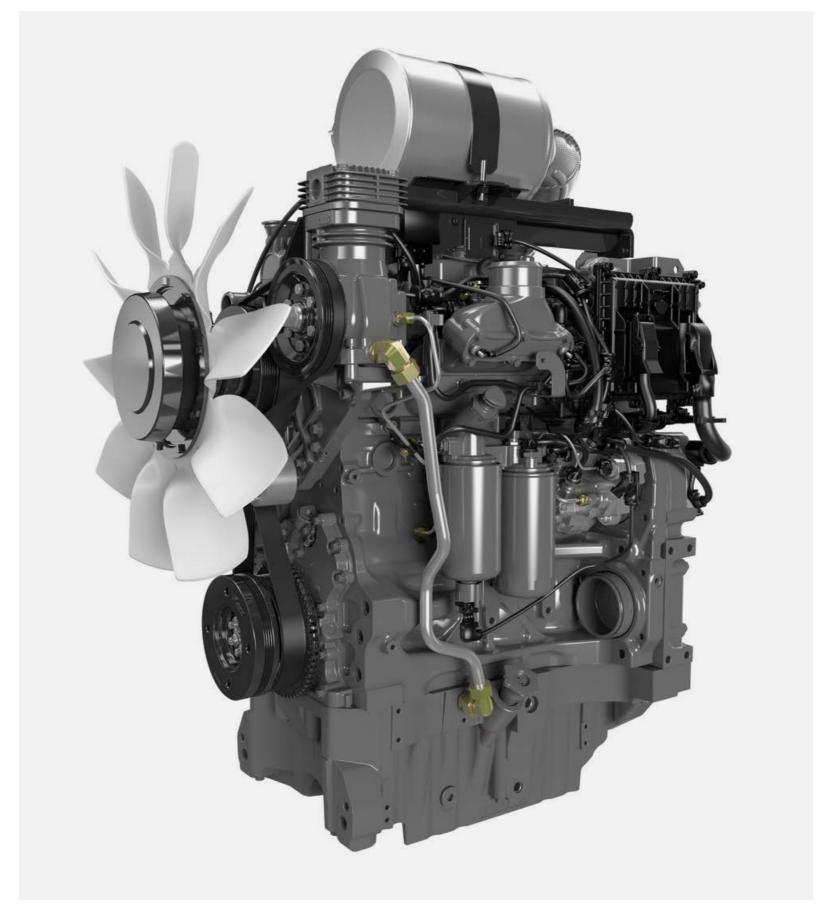
- 4-valve technology
- 1,600 bar high-pressure common rail injection
- Turbocharger (ARION 420 / 410)
- Turbocharger with wastegate (ARION 460-430)
- Intercooler
- Meets the Stage IV (Tier 4) emissions standard thanks to SCR and DOC catalytic converters

#### Constant output.

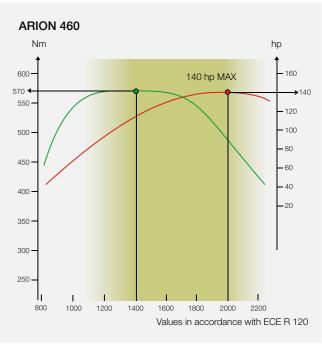
The CLAAS-specific engine performance curve provides full torque in a wide engine speed range, guaranteeing constant output and power delivery when they are needed. This makes it easy to save fuel while working at a low engine speed and maximum torque with the ECO PTO, or to work at rated speed with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

#### Precise engine speed.

In addition to the traditional hand throttle on the right-hand console, up to two electronic engine speed memories are available. The driver can set two precise engine speeds and activate them at the press of a button. Press the button again or press the accelerator pedal once to deactivate the engine speed memory. Practical and precise on the headland.



ARION	Rated output (hp) ECE R 120	Maximum output (hp) ECE R 120	Maximum torque (Nm) ECE R 120
AITIIOIN	LOL II 120	LUL II 120	LOL II 120
160	135	140	570
150	125	130	550
140	115	120	520
130	105	110	480
120	95	100	435
110	85	90	405





## Cleaning up.

#### Stage IV (Tier 4).

The ARION 400 meets the Stage IV (Tier 4) emissions standard. Compliance with Stage IV (Tier 4) means that particulate matter and  $NO_x$  emissions have been reduced significantly to almost zero.

#### SCR – the urea-based solution.

SCR stands for selective catalytic reduction, a process in which nitrogen oxides are converted into water and pure nitrogen. This is achieved by using a synthetic aqueous solution of urea (AdBlue®1), which is carried in an additional tank. Exhaust gas aftertreatment enables the combustion process in the engine to function at the optimum level.



- 1 Diesel oxidation catalytic converter (DOC)
- 2 Urea injector nozzle
- 3 SCR catalytic converter
- 4 Heated urea tank
- <sup>1</sup> AdBlue® is a registered trademark of the VDA.



#### Fully integrated SCR system.

When designing the ARION 400, all the components required for exhaust aftertreatment were considered from the outset. Full visibility and accessibility are therefore guaranteed. The diesel oxidation catalytic converter (DOC) is positioned under the bonnet immediately behind the turbocharger because it needs high exhaust temperatures to produce an optimum reaction. The SCR catalytic converter is an integral part of the exhaust system and is located on the right-hand side of the tractor.

#### Never lets you down.

The urea tank is heated as standard, guaranteeing perfect operation throughout the winter months. The pipes for the SCR system are also rinsed after each use to guarantee full operational reliability at all times.



The fuel and urea solution levels are displayed at a glance on the instrument panel



Filler necks for 17 or 22 I urea solution and 140 or 190 I fuel by the cab access

# QUADRISHIFT and HEXASHIFT. Shift without clutching.

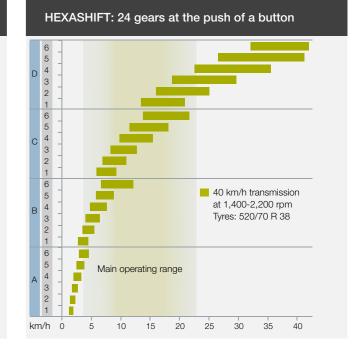


## The transmissions. Technology for demanding work.

The QUADRISHIFT or HEXASHIFT transmission enables you to change powershift speed without cutting the power flow and optimally match your forward speed to the conditions on the ground. On the road or around the farm, you can comfortably select any one of four hydraulically selected ranges without having to use the foot clutch. The powershift speeds overlap, allowing the full output potential of the engine to be utilised. This overlap also allows you to change range smoothly on the road.

Ranges and powershift speeds are shifted manually using the rocker switch on the multifunction control lever or via the buttons on the right-hand console – making range shifting with the clutch and gear lever a thing of the past. Optionally, you can also leave transmission control to the QUADRACTIV or HEXACTIV auto-shift function, allowing you to work efficiently in a relaxed frame of mind. Where control, efficiency and versatility are concerned, the ARION 400 is in a class of its own.

# QUADRISHIFT: 16 gears at the push of a button 4 C 3 2 1 1 4 4 A 3 Main operating range 4 A 3 Main operating range



#### QUADRISHIFT

- 16 forward and reverse gears, all shifted without clutching
- Four powershift speeds and four hydraulically shifted ranges
- Fully automatic shifting with QUADRACTIV

#### HEXASHIFT1

- 24 forward and reverse gears, all shifted without clutching
- Six powershift speeds and four hydraulically shifted ranges
- Fully automatic shifting with HEXACTIV
- Max. top speed at reduced engine speed (1,840 rpm)

#### The benefits for you.

- Transmission operated without the gear lever or clutch pedal
- Multifunction control lever for maximum convenience
- CLAAS power train management for smooth gear shifting when changing range or powershift speed
- REVERSHIFT clutchless reverser for effortless direction changing
- Automatic speed matching
- Convenient configuration options for transmission management with the CIS (CLAAS INFORMATION SYSTEM)
- Excellent efficiency in the field and on the road for low fuel consumption
- Creep gear options down to 150 m/h

<sup>&</sup>lt;sup>1</sup> Only available in the ARION 460, 450, 440, 430.

## QUADRISHIFT and HEXASHIFT. Always in the right gear.



#### Automatic transmission control.

There's no need to move through every gear (as in a conventional powershift transmission) when shifting between ranges - the transmission automatically selects the most appropriate gear depending on forward speed and load, regardless of whether you are driving manually or automatically.

If you press the clutch in range D, the transmission automatically adjusts the powershift speed when the clutch is re-engaged. This can be very useful, e.g. when approaching a road junction.



#### NEW: SMART STOP.

With the SMART STOP function, ARION 400 tractors can be brought to a standstill by pressing the brake, without needing to use the clutch pedal. This lightens the driver's workload considerably, especially during tasks which involve a lot of stopping and starting such as making round bales and front loader work. SMART STOP is easily activated once only in the



More options with CIS (CLAAS INFORMATION SYSTEM).

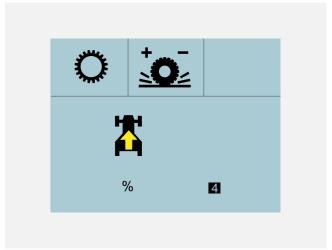
#### Intelligent gear selection.

When using the clutchless reverser, you can even change gear automatically when you want the forward speed to be different from the reverse speed (e.g. for front loader work). At the headland, you can also engage a pre-selected gear (headland gear) simply by pressing a button. In tractors with the CIS on-board information system, all transmission information is shown on the additional display in the right-



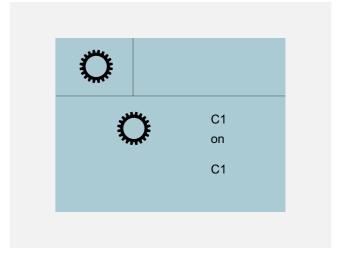
#### Progressive REVERSHIFT.

When changing direction, the tractor should respond differently depending on the load and the job in hand. Whether you want a smooth change of direction on the headland or a fast change of direction on the clamp – with CIS anything is possible. The aggressiveness of the REVERSHIFT clutchless reverser is therefore adjustable in nine steps (-4 to +4), providing optimum ride comfort in all situations.



#### NEW: Cruise control and automatic shifting.

The start-up gear automatically engaged on starting the engine can be freely selected between A1 and D1. A separate approach gear can also be selected when operating with the auto-shift function activated. The HEXACTIV auto-shift function can also be equipped with a cruise control function. Instead of a fixed engine speed, a target forward speed is specified by pressing a button and the tractor maintains this speed by adjusting the engine speed and gear ratio.





The current gear is indicated on the instrument panel at all times, and also in the A-pillar on CIS+

## QUADRACTIV or HEXACTIV shifts for you.



#### Auto-shift function.

Because you've got more important things to do, you can leave the QUADRACTIV or HEXACTIV to change gear automatically. If your ARION 400 has the CIS, the auto-shift function can be set up with a wide range of well-designed functions according to driver preference and the job in hand.

The operator can choose between three auto-shift modes via the CIS:

- 1 Fully automatic: the auto-shift function shifts for variations in engine speed depending on engine load, vehicle speed and the driver's preference / accelerator position
- 2 PTO mode: the auto-shift function shifts in such a way as to ensure the engine speed / PTO speed remains as constant as possible
- 3 Manual mode: the auto-shift function shifts according to a fixed engine speed which the driver can program in the CIS

#### Driving strategies



Manual shifting in field mode

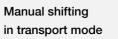


Mode

#### Shifting

Shifting

- Press the rocker switch hard to shift range (A-D)
- Tap the rocker switch to auto-shift gear (1-6)





 Tap the rocker switch to shift all gears (A1–D6)

#### Driving strategies

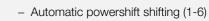


Automatic shifting in field mode



Mode

 Press the rocker switch hard to shift range (A-D)





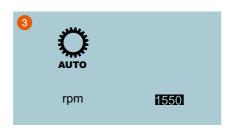
Automatic shifting in transport mode



- Shift all gears (A1-D6) automatically









The switch to activate the auto-shift function is within easy reach on the multipad



Switch the transmission between transport and field mode

# CLAAS tractor concept for greater flexibility.

#### The CLAAS tractor concept.

Thanks to the ARION 400, the technology from the larger performance class is now available in the smaller horsepowers. The CLAAS tractor concept offers significant benefits which give you a clear competitive edge. The combination of a long wheelbase and optimum weight distribution (50% at the front, 50% at the rear) with a compact overall length provides a high degree of versatility while maintaining distinct performance advantages.

Long wheelbase and excellent weight distribution:

- High driving comfort
- Good and safe road handling
- More pulling power and performance as less ballast is required
- Greater stability for a higher lifting capacity
- Optimised fuel consumption
- Lower ballast requirement protects the soil and guarantees dynamic road transport

#### Short overall length:

- Good manoeuvrability
- Short trailer combination on the road
- Good visibility
- Good guidance of front-mounted implements

#### A broad base.

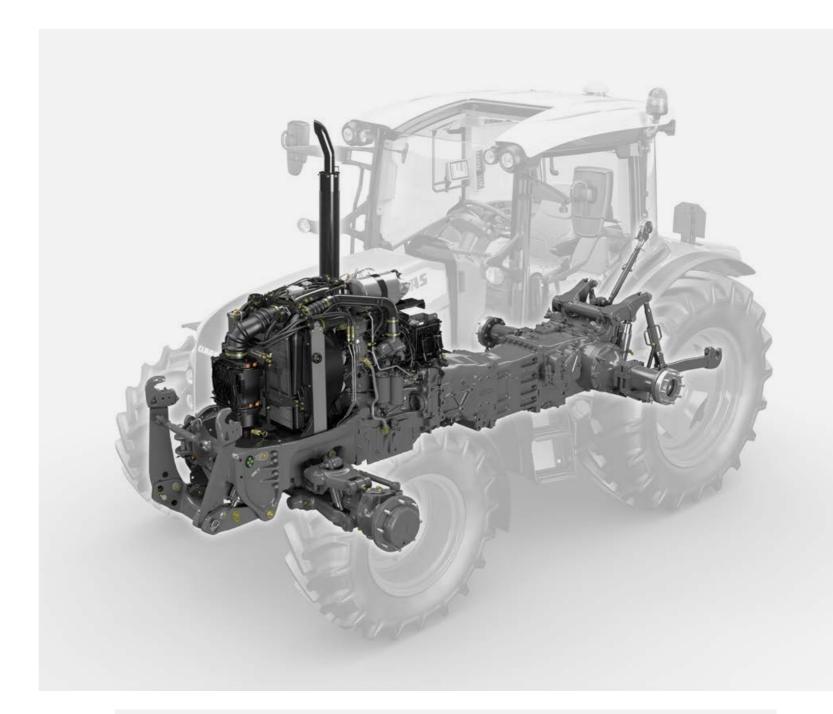
The ARION 400 can be fitted with 38" rear tyres up to a diameter of 1.85 m. With a wide range of options, the ARION 400 is ready for any job, whether you choose road-optimised tyres with an industrial tread or low-compaction field tyres up to 600 mm wide.

#### Safety first.

The brakes cope with the low tare weight from 4.7 t and maximum permissible gross weight of 8.5 t with an optimum level of safety and stability, assisted by automatic four-wheel drive engagement on braking and the hydraulically supported high-pressure service brake. 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 manoeuvres.

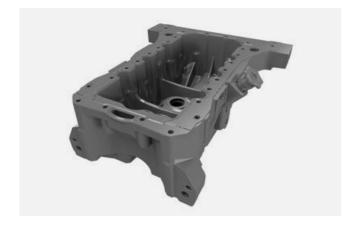




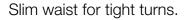




## Stable. Manoeuvrable. User-friendly.

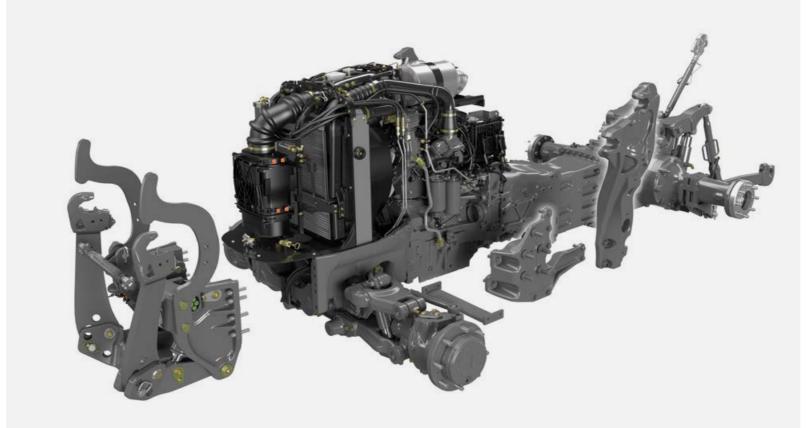






CLAAS has designed a perfectly tailored solution specially for you, drawing on its combined experience in developing standard tractors to over 400 hp.

The ARION 400 is an extremely robust and flexible tractor which makes your work as enjoyable as possible. Its sturdy cast frame with integral engine oil sump absorbs all the forces from the front linkage, front loader and front chassis. The front loader brackets are bolted directly onto the engine frame and transmission, allowing a front loader or front linkage to be retrofitted simply at any time.



The specially shaped front chassis provides plenty of space for the radiators immediately above the front axle. In front and behind it is designed to be very narrow, like a wasp waist. Together with the compact design of the ARION 400, this gives an excellent steering lock angle and small turning circles.



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



Air brakes and hydraulic brakes are also available in combination

In practice, this means:

- Maximum stability even when using heavy front-mounted implements and front loaders
- Excellent steering lock angle even with wide tyres, for maximum manoeuvrability
- Turning radius from just 4.4 m (420 / 410) or 4.5 m (430 / 440) and 4.9 m (460 / 450)
- Unrestricted access to the entire engine compartment and all maintenance points



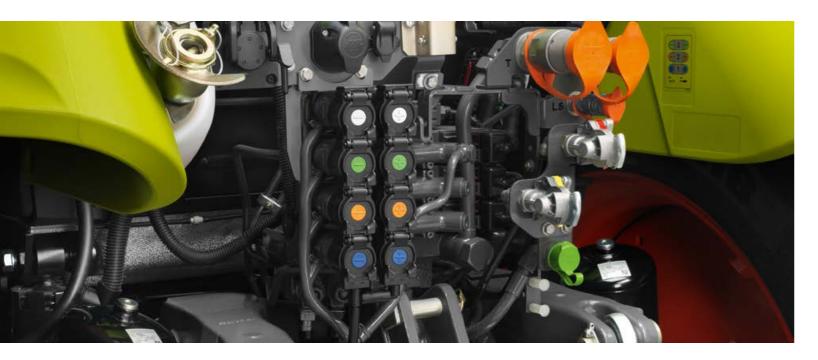
Thanks to its stable construction, the ARION 400 is capable of pulling and transporting almost anything. It can be fitted with a pneumatic and a hydraulic trailer brake system to meet any requirements. Both systems can be operated simultaneously and the connections are easily accessible at the rear of the tractor.

Trailer couplings available: drawbar, CUNA coupling, K80 hitch ball, K80 ball head coupling, automatic or manual pin coupling, pickup hitch, Piton Fix.



Pickup hitch

## Hydraulics on demand.



#### Variety included.

With the ARION 400 you can choose between three different hydraulic circuits:

- 60 l/min with open-centre hydraulic system
- 100 l/min with open-centre hydraulic system and electronic pump aggregation
- 110 l/min with load-sensing system

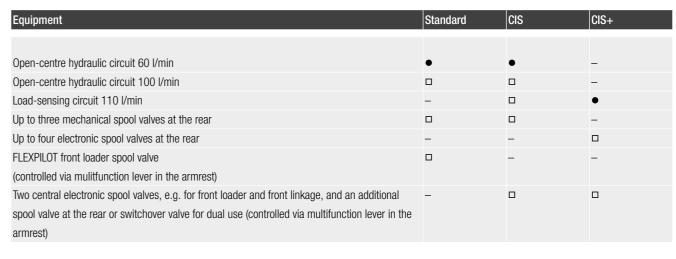
Up to three mechanical or five electronic spool valves are also available. With the ARION 400 you can choose between a number of hydraulic equipment options and customise your tractor to suit the work you do on your farm: as an all-rounder with a front loader or as a field work specialist. Whether you want the convenience of high-tech solutions or the efficient basic version, the ARION 400 is always the perfect fit.

#### Simple, clean connections.

The spool valves at the rear of the ARION (up to four) are easy to connect. The coloured markings on the inlet and outlet sides make it easier to attach implements correctly.

#### Well metered.

The basic system available is an open-centre hydraulic circuit with a hydraulic flow of 60 l/min. The optional open-centre hydraulic circuit delivering 100 l/min operates as a twin-pump system. The first pump serves the rear linkage, while a second pump provides flow to the hydraulic spool valves. This allows the ARION 400 to perform these two functions simultaneously. In addition, the entire hydraulic capacity of the two pumps can be pooled and delivered to the spool valves. Ideal for intensive front-loader work or specialist hydraulic applications.



Standard □ Available − Not available

A 110 l/min load-sensing system is available for top hydraulic performance in CIS and CIS+ models; in this system the variable hydraulic pump supplies only the volume of oil that is really needed.

For implements with their own control units, Power Beyond connections for the load-sensing circuit are provided at the rear. The implement then controls its own oil requirement, making permanent oil circulation unnecessary.

#### The advantages:

- Hydraulic oil is supplied to the attached implement as required
- Large-diameter lines, flat-seal couplings and nonpressurised return flow reduce power losses



#### A question of settings.

Each mechanical spool valve has its own rotary switch. The function options for each spool valve are selected using the rotary switch allocated to it:

- Rotary switch in position IIII: Pressure / Neutral /
   Pressure + / Float position
- Rotary switch in position III: Pressure / Neutral /
   Pressure +
- Rotary switch in lock position: Spool valve locked in pressure position for permanent operation or in neutral position



Implements with a high hydraulic power requirement are supplied by the load-sensing system via the Power Beyond connections



Controls for one electronic spool valve are available on both mudguards





The electronic spool valves are operated by the proportional-control rocker switches in the side console and the ELECTROPILOT, which is integrated into the multifunction control lever

## Handle any implement. The rear linkage and PTO.



#### A strong team.

The electronic rear linkage has a maximum lifting capacity of 4.50 or 5.75 t, making it capable of handling any implement. The external controls for the rear linkage, an electronic spool valve and PTO are conveniently located on both mudguards. Practical holders for the lower link balls are also provided at the rear.

The rear linkage equipment meets every requirement:

- Manual or automatic lower link stabilisers
- Robust and simple top link holder
- Practical ball holder at the rear
- External controls for the rear linkage and PTO on both mudguards



Three-way convenience: the controls.

The electronic rear linkage has three types of controls:

- 1 On the ergonomic multifunction control lever you can access the quick raise, quick entry and working position functions for the rear linkage.
- 2 On the control panel on the right-hand side console you can also activate the quick raise, quick entry and working position functions for the rear linkage and press the stop button. The slide controller for depth control of the rear linkage, the hand throttle and other controls are also located here. This is particularly useful when working on the headland.
- 3 The rear linkage controls used during implement attachment are handily positioned on the right-hand B-pillar, as the driver turns round anyway when attaching implements.



#### Always at the right speed.

Four different PTO options are available for the ARION 400:

- 540 / 540 ECO rpm
- 540 / 1000 rpm
- 540 / 540 ECO / 1000 rpm
- $-\ 540\ /\ 540\ ECO\ /\ 1000\ rpm$  and ground speed PTO

The PTO speed is easily pre-selected by pressing a button on the right-hand B-pillar. A switch in the right side console switches the PTO on. Automatic PTO engagement/ disengagement can be adjusted continuously according to rear linkage height. Simply move the rear linkage to the position required and press and hold the automatic PTO button - the engagement/disengagement position specified is now saved.

#### Standing start.

The ARION 400 transfers its full output to the PTO when it is stationary and also at low forward speeds. In ECO PTO mode the engine runs at a low, fuel-efficient speed. During light applications, the lower engine speed can reduce noise levels and save valuable fuel: 540 rpm ECO at 1,530 engine rpm.

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

PTO engagement/

Controls for the rear linkage, electronic spool valve and PTO are available for both mudguards. The left mudguard has a holder for four lower link



The rear linkage can be operated from the side console or the



disengagement is activated on the right-hand side console

# Greater versatility. More applications.





Versatility in every application with the powerful front linkage



With electronic spool valves, the front linkage and additional spool valve can controlled externally

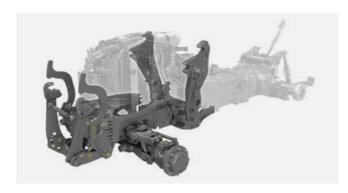
#### Integrated front linkage.

For safe, efficient work you need a powerful connection between the tractor and implement. The linkages on the ARION 400 provide an excellent starting point. The compact, fully integrated front linkage has a maximum lifting capacity of 3.3 t. It also has external controls (only in CIS or CIS+ versions with electronic spool valves). Additional plug-in connectors for a spool valve on the front linkage are also available on request.

#### 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 controls for the front linkage and one electronic spool valve (requires CIS or CIS+ version with electronic spool valves)
- 7-pin socket available

# A perfect fit. CLAAS front loaders.



#### No compromises. Even in front loader work.

When developing the ARION 400 series, it was very 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 robust connection to the innovative engine frame does not compromise steerability or ease of maintenance.

#### Two operating options.

The CLAAS front loader on your ARION 400 is operated via the multifunction control lever which is integrated into the armrest as standard. Depending on the equipment installed, you can choose between the FLEXPILOT (hydraulically pilot-operated valve control) or ELECTROPILOT (electronic valve control). Both systems are very easy to use because the control functions are extremely smooth and easy to regulate.



#### Everything to hand.

The unique multifunction control lever combines control of the front loader with control of the transmission, engine and rear linkage. Your right hand stays comfortably positioned on the multifunction control lever – for faster loading. Naturally, the third and fourth front loader functions are integrated into the multifunction control lever. Your left hand steers and operates the REVERSHIFT lever when changing direction. For continuously variable restriction of the maximum lifting and lowering speeds when using the ELECTROPILOT, the flow rates to the electronic spool valves for the front loader are easily adjusted in the CIS display.

#### Low roof opens doors.

Doors only 2.50 m high are no obstacle with the low-profile cab. Thanks to the transparent sunroof, the driver still has excellent visibility.



PANORAMIC cab with continuous windscreen right through to the glass roof: minimum clearance height of 2.61 m



High-profile cab with transparent sunroof: minimum clearance height of 2.61 m



Low-profile cab with transparent sunroof: minimum clearance height of 2.50 m.



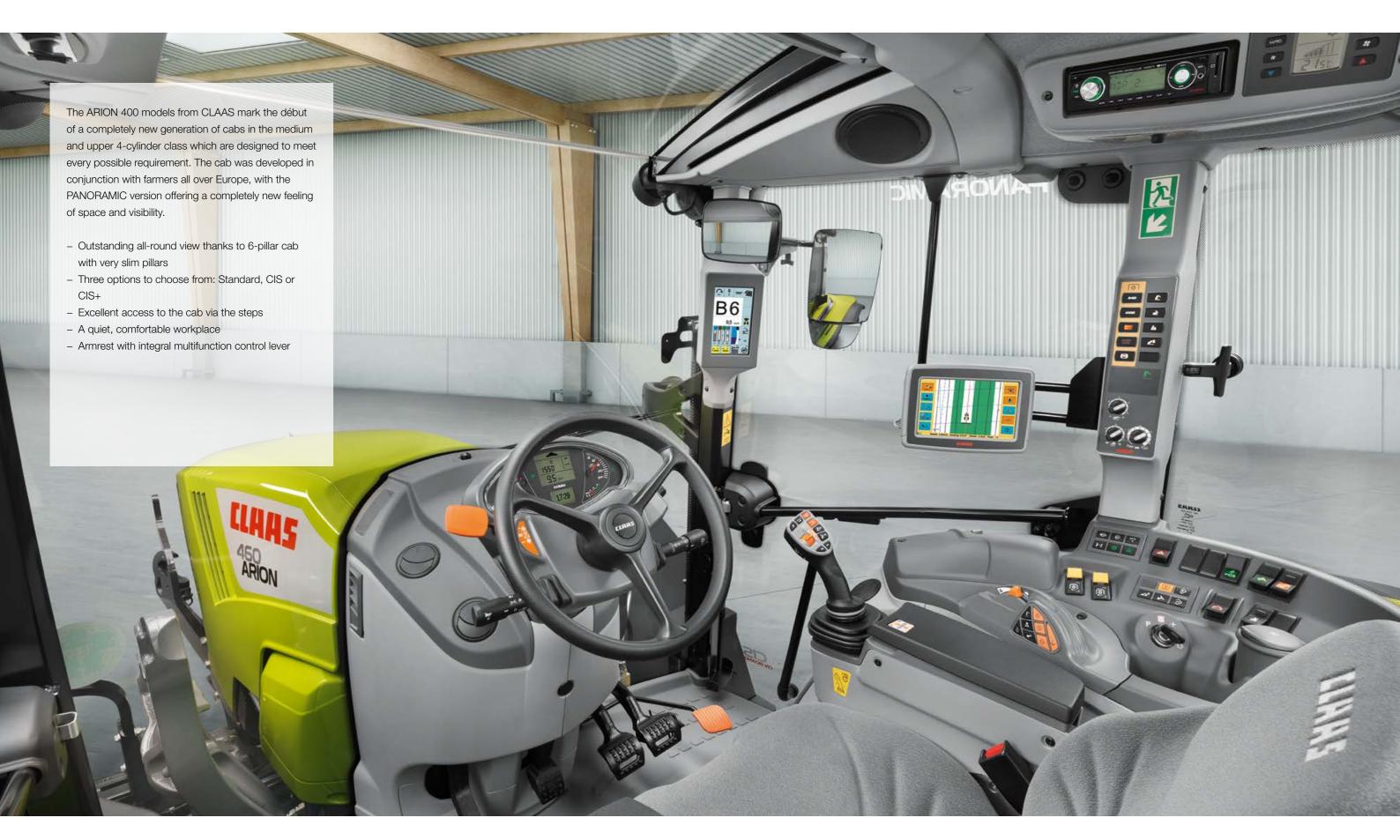
#### Strong plus points.

- Front loader brackets and controls can be factory-fitted
- All cabs are tested to FOPS guidelines (Falling Object Protective Structure)
- Two convenient control options available on the multifunction control lever: ELECTROPILOT or FLEXPILOT
- PCH hydraulic self-levelling linkage on FL front loaders or mechanical self-levelling linkage on FL C and FL E models
- Active Control System (ACS) automatically returns the front attachment to the starting position at the touch of a button
- With the Synchro Control System (SCS) the implement angle and third function can be controlled simultaneously with a single control movement. This makes it much easier to empty a grab bucket, for example.
- FITLOCK system for quick and convenient fitting / removal

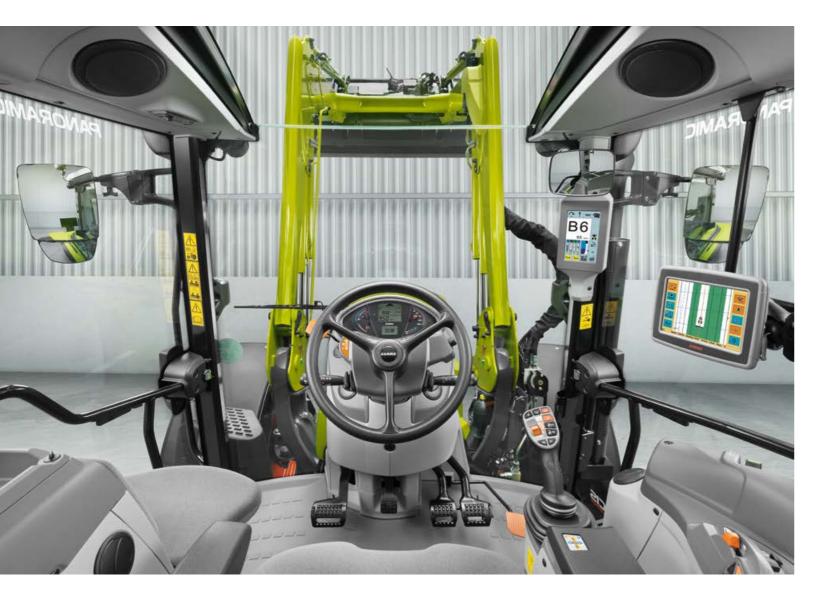
- MACH quick-attachment coupler for electrical and hydraulic connections
- FASTLOCK hydraulic locking for implements
- SPEEDLINK for automatic locking and connection of all hydraulic and electric connectors on the implement
- SHOCK ELIMINATOR for vibration damping
- Wide selection of attachments
- And not forgetting the full CLAAS service

ARION	FL	FL C	FL E
460	120, 100, 80	120, 100, 80	100
450	120, 100, 80	120, 100, 80	100
440	120, 100, 80	120, 100, 80	100
430	120, 100, 80	120, 100, 80	100
420	100, 80	100, 80	100
410	100, 80	100. 80	100

# Built with you in mind. The cab.



# More than a workplace. The cabs.



## Greater comfort makes you more productive. The 6-pillar cabs.

Tractor drivers often work very long days. To stay healthy, they need a suitable workplace which can be adjusted flexibly to suit the broad spectrum of work performed by the tractor. The 6-pillar cab makes it possible to work in comfort and even satisfies the needs of highly demanding drivers – with optimum visibility, maximum protection and a very high level of comfort.

- Continuous windscreen
- Six narrow pillars for 360° visibility
- Doors with a wide opening angle thanks to the 6-pillar design, they only protrude a short distance beyond the tractor contours even when open
- Easy access from both sides of the tractor

- All cab versions conform to FOPS (Falling Object Protective Structure) for protection against falling objects
- Spacious cab design offers extra room
- Steering column is easily adjusted by pressing a pedal
- Cooled drinks compartment under the passenger seat
- Transparent sunroof for high- and low-profile cabs



#### Four cab options.

The new ARION 400 offers four different cab options. Just choose the one that suits you best:

- PANORAMIC cab with continuous windscreen right through to the glass roof for maximum visibility, with a minimum overall height of 2.61 m
- High-profile cab with roof hatch or transparent sunroof and minimum overall height of 2.61 m
- Low-profile cab with transparent sunroof and minimum overall height of 2.50 m
- 5-pillar cab¹ with roof hatch or transparent sunroof, large continuous and shatter-proof side window made from polycarbonate and minimum overall height of 2.77 m; ideal for municipal work

#### Superb visibility with the PANORAMIC cab.

Ideal for all front-loader work: the continuous field of view covers a 90° angle from the driver's perspective. This unique cab design has no cross beams to get in the way and offers an extremely high level of safety and comfort. From the floor through to the roof, the continuous 2.41 m² glass front guarantees optimum visibility.



The tapered bonnet provides optimum visibility as it becomes narrower towards the bottom and towards the driver



5-pillar cab with large continuous and shatter-proof right-hand side window made from polycarbonate is ideal for municipal verge mowing

<sup>&</sup>lt;sup>1</sup> Only available with ARION 450, 440 and 420

## A cab designed for you.



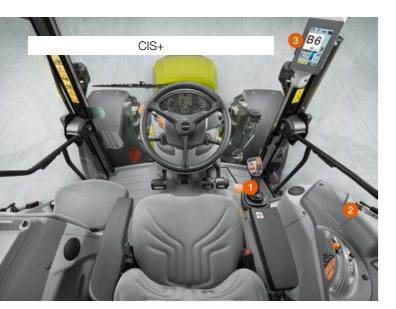
NEW: High standard. Simply good.

In the basic version, the ARION has mechanical spool valves (2) and the transmission is operated from the multipad (1) on the right-hand console. With numerous other equipment options to choose from, you can select exactly the right set-up for your main application: HEXASHIFT transmission for frequent road use or FLEXPILOT for front loader operations. Concentrate on what's important.



NEW: CIS. Simply more.

If you want more setting options from the ARION 400 even with mechanical spool valves (2), the CIS version is the way to go. The multifunction control lever (1) built into the armrest offers greater convenience. With the CIS display (3) and additional transmission display (4), you can see all the settings at a glance. The CIS version is also available with two electronic spool valves which can be used to control the front loader, front linkage or an additional spool valve at the rear.



NEW: CIS+. Simply everything.

With the multifunction control lever (1) and electronic spool valves (2), CIS+ offers outstanding convenience and intuitive design. Despite its pleasing simplicity, it has all the necessary functionality and the automatic functions needed for effective, effortless operation. The 7 " CIS colour display (3) built into the A-pillar combines display and setting options for the transmission, electronic spool valves, F buttons and CSM headland management. The CIS+ is everything you could wish for.

#### A cab and tractor tailored to your needs.

Every customer has individual preferences and wants the tractor best suited to their needs. That's why CLAAS has developed three different versions – Standard, CIS and CIS+. With these three alternatives, numerous other options and four cab styles to choose from, you're sure to find the right ARION 400 for you.





CLAAS cab tour.

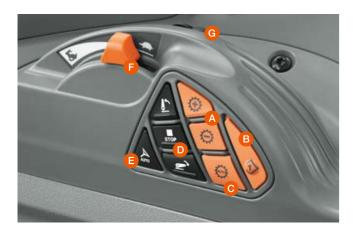
Learn more about the ARION 400 versions:

arion400.claas.com

RION features	Standard	CIS	CIS+
CIS display on the instrument panel	0	•	_
nd transmission display on the A-pillar			
CIS colour display on the A-pillar	_	_	•
Aultifunction control lever			
Without multifunction control lever	•	_	_
Multifunction control lever, fixed		•	_
Multifunction control lever with FLEXPILOT function for front loader operation		_	_
Multifunction control lever with ELECTROPILOT function	_		•
econd engine speed memory		•	•
OUADRISHIFT transmission (16 F / 16 R)	•	•	•
IEXASHIFT transmission (24 F / 24 R – ARION 430 to 460 only)			
leadland gear	-	•	•
UADRACTIV or HEXACTIV auto-shift			
Cruise control function for HEXASHIFT transmission	-		
EVERSHIFT clutchless reverser on the multifunction control lever	-		•
MART STOP	-		
lynamic steering	-		
utomatic PTO engagement/disengagement	-		
SM headland management	-		
pen-centre hydraulic circuit, 60 l/min	•	•	_
pen-centre hydraulic circuit, 100 l/min			_
oad-sensing circuit 110 I/min	-		•
p to three mechanical spool valves at the rear			_
p to four electronic spool valves at the rear	-	_	
LEXPILOT front loader spool valve		-	_
wo central electronic spool valves, e.g. for front linkage, and additional spool valve at the rear	-		

Standard □ Available − Not available

## Everything to hand. Multifunction control lever and multipad.



#### The multipad.

The multipad combines all key functions in a compact control panel on the right-hand console. Its ergonomic design keeps the hand in a relaxed position, giving you flexible control of the ARION 400 even at the headland.

#### Features of the multipad:

- A "+" and "-" buttons to control the powershift speeds and ranges of the QUADRISHIFT or HEXASHIFT transmission
- B Engine speed memory or cruise control
- C Activate QUADRACTIV or HEXACTIV auto-shift
- D Rear linkage
- E Activate GPS PILOT automatic steering system
- F Manual hand throttle
- G Slide controller for depth control of the rear linkage



#### Features of the multifunction control lever:

- 1 Rocker switch to control the powershift speeds and ranges of the QUADRISHIFT or HEXASHIFT transmission
- 2 Activate the ELECTROPILOT 4-way control lever function of the multifunction control lever
- 3 Switch between electronic spool valves available on the multifunction control lever
- 4 Headland gear
- 5 Engine speed memory or cruise control

- 6 Rear linkage or function buttons F1 / F2
- 7 Function buttons F3 / F4
- 8 ELECTROPILOT or FLEXPILOT spool valve operation
- 9 ELECTROPILOT or FLEXPILOT spool valve operation
- 10 Activate clutchless reverser
- 11 Spool valves, float position

#### The multifunction control lever.

The newly developed multifunction control lever makes control of the transmission, front loader, rear linkage and spool valves more straightforward and user-friendly than ever, so you only need your left hand for steering.

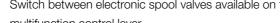
Your right arm lies comfortably on the armrest while you control all the frequently used functions of your ARION 400 with utmost convenience using the multifunction control lever. The height and position of the armrest can easily be adjusted to the driver's requirements.

The four-way control function of the multifunction control lever also allows two spool valves to be operated simultaneously: either via the hydraulically pilot-controlled FLEXPILOT function for the front loader or via the ELECTROPILOT function for different electronic spool valves, such as the front loader, front linkage and rear spool valves.

#### Everything at your fingertips.

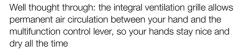
You can select all forward and reverse gears with one fingertip using the two-stage rocker switch on the multifunction control lever, without touching the clutch pedal:

- 12 Stage (blue): shift powershift speeds up and down
- 13 Stage (green): shift ranges up and down
- 14 Stage (blue) and button (orange) at the same time: REVERSHIFT clutchless reverser









## A place for everything.



#### The side console – ergonomic perfection.

The key to relaxed and effective working: the side console is the result of extensive analyses of the operating processes in the cab. Frequently used functions are located on the multipad and the multifunction control lever.

- 1 Electronic or mechanical spool valves
- 2 Control panel main functions
- 3 Electronic switches for creep gear range
- 4 Main switch (hydraulics, steering system, battery)
- 5 Control panel additional functions
- 6 Activate front and rear PTO
- 7 Multipad



Control panel for main functions: differential lock, four-wheel drive, road or field mode, hydraulic pump aggregation and activate front axle suspension



Control panel for additional functions: safety switch for front loader attachment locking, activate automatic PTO engagement/ disengagement, activate dynamic steering, fine adjustment of engine speed memories



#### Clear, logical layout.

The switches for electronic linkage control and pre-selection of PTO speeds are located on the right-hand B-pillar. This guarantees direct access while work is in progress and allows the driver to optimise the electronic linkage control setting when looking backwards. Two additional buttons for raising and lowering the rear linkage also make it easier to attach implements.

- A PTO speed selection
- B Rear linkage operation
- C Rear linkage status display
- D Electronic linkage control settings



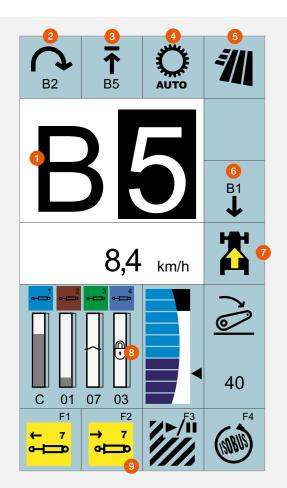
Maximum convenience and performance. The electronic spool valves.

With load-sensing hydraulics and electronic spool valves, the ARION 400 CIS+ sets new standards. The multifunction control lever and up to two rocker switches in the side console provide proportional control of up to five electronic spool valves. Flow rate and time control can be programmed quickly in the CIS colour display. Press the rocker switches hard to activate time control or continuous flow to the valve; press them lightly for proportional control.

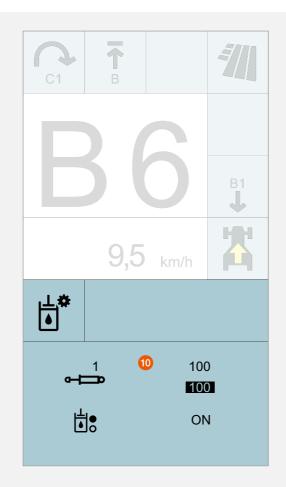


Controls for both mechanical and electronic spool valves are conveniently located on the side console

# Well informed. CIS.



Colour CIS display on the A-pillar with integrated settings menu



The colour CLAAS INFORMATION SYSTEM

The modern design of the 7-inch colour CIS display on the

A-pillar provides the driver with full information about the

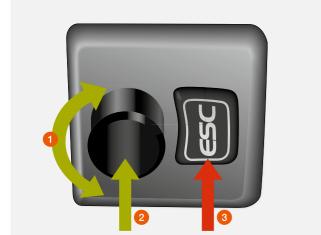
transmission, electronic spool valves and F buttons. This

colour CIS display shows the settings in the lower part of the

screen. The logical, menu-guided interface and clear symbols

(CIS).

make navigation very simple.



1 Navigation in the menu

- 2 Select
- 3 ESC button



CIS display on the instrument panel and transmission display on the A-pillar



- 1 Current gear
- 2 Selected headland gear
- 3 HEXACTIV or QUADRACTIV auto-shift limiter
- 4 HEXACTIV or QUADRACTIV mode
- 5 Select field or transport mode
- 6 Independent forward and reverse gear (gear shifts automatically when changing direction)
- 7 Direction of travel or transmission in neutral
- 8 Status of rear linkage and spool valves
- 9 Function button assignment
- 10 Settings menu

#### The CLAAS INFORMATION SYSTEM (CIS).

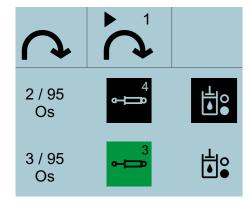
In this equipment option, the CIS display is built into the instrument panel. Thanks to the self-explanatory, menuguided interface and icons, even inexperienced drivers can find the right settings with ease. The additional transmission display on the A-pillar shows all the information about the transmission at a glance.

The settings for both displays can be selected conveniently using a rotary/push switch and the ESC button on the steering wheel.

#### The following functions can be set using the CIS:

- Start-up and approach gears for the transmission
- Shift points for the HEXACTIV or QUADRACTIV auto-shift
- Progressivity of the REVERSHIFT clutchless reverser
- Independent forward and reverse gears
- Time and volume settings for the electronic spool valves
- On-board computer functions such as area covered, fuel consumption, area output
- Maintenance interval display

# Stay relaxed. CSM and dynamic steering.



#### CLAAS SEQUENCE MANAGEMENT (CSM).

The CSM headland management system takes the load off you during all turning manoeuvres in the field. You can run any of the previously recorded functions simply by pressing a button.

#### CSM offers:

- Recording of up to four sequences
- Sequences can be activated, terminated prematurely or interrupted
- Sequences are shown on the CIS colour display

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
- Headland gear
- Front and rear PTO
- Engine speed memory
- HEXACTIV or QUADRACTIV auto-shift



#### Easy to record and run.

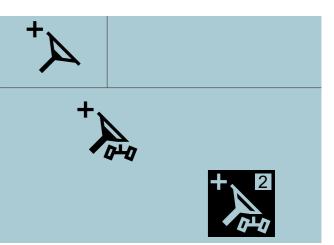
The sequences are recorded continuously. Clear icons on the CIS colour display allow the driver to follow the sequence step by step as it is created. When running a sequence, it can be paused and continued later simply by pressing a button.

#### Dynamic steering.

Dynamic steering from CLAAS enables you to adjust the ratio between the steering wheel and front axle steering angle in several steps to suit the driver's preferences. Using the CIS display, the driver can choose between two automatic programs and one manual mode.

The two automatic programs help the driver by changing the steering ratio to match the forward speed or current steering lock. This means that the system can be individually adjusted to suit all requirements.





In steering angle-dependent mode, the steering ratio when driving in a straight line is greatly reduced, making the steering more sensitive. The more the driver steers, the faster the steering responds. This is ideal for applications such as front loader work. The driver can steer the tractor in a straight line with great precision but still manoeuvre quickly.

In speed-dependent mode, the steering ratio is proportionally reduced as the forward speed increases above 10 km/h. This is particularly useful during field work. It allows fast and light turning at the headland. For faster work the steering ratio is reduced again to make it easier to drive straight ahead.

In manual mode, the steering wheel/steering angle ratio is permanently linked to the four adjustable assistance levels.



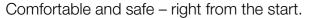
Activate CSM sequences conveniently using the function buttons on the multifunction control lever



Activate dynamic steering quickly and easily by pressing a button on the right-hand side console

# Ergonomics and comfort for optimum working conditions.





The 6-pillar cab design allows the door to open wide with little overhang. This makes it easier to access the cab and protects the door from damage. Dirt-resistant steps and robust handrails provide a high level of safety wherever you are working – in the field or in the yard.



First-class comfort.

Many features of the ARION 400 environment make it the ideal choice for long working days. A large number of storage options mean 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 a 1.5 I bottle and snacks. Perfect for your lunch break.



#### Clear and logical layout.

When you press the small pedal underneath the steering column the entire steering column pivots upwards, allowing plenty of room to enter and leave the cab. It can be returned to the optimum position when you start work. Another lever on the steering column enables you to adjust the height of the steering wheel. The instrument panel is always in the perfect position for viewing because it is mounted on the steering column and moves with it.



#### A pleasant working environment.

The standard equipment on the ARION 400 includes a highly efficient heating and ventilation system with continuously variable fan control. A manually operated or automatic airconditioning system is naturally available on request. The ventilation system can optionally be equipped with fittings for a category 3 filter (to EN 15695) for crop spraying. The active carbon filter is available from your CLAAS dealer.



The comfortable passenger seat is padded and has an easy-care fabric cover



The cab has power sockets and connections for ISOBUS-enabled terminals



Handy document storage compartment in the right-hand side console



Simply press the middle foot pedal and the steering column automatically swings upwards, making it easy to leave the cab



Plenty of ideally positioned air outlets in the cab provide a pleasant working environment without unpleasant draughts



The modern radio can be fitted with a USB port, AUX input, SD card reader and Bluetooth on request

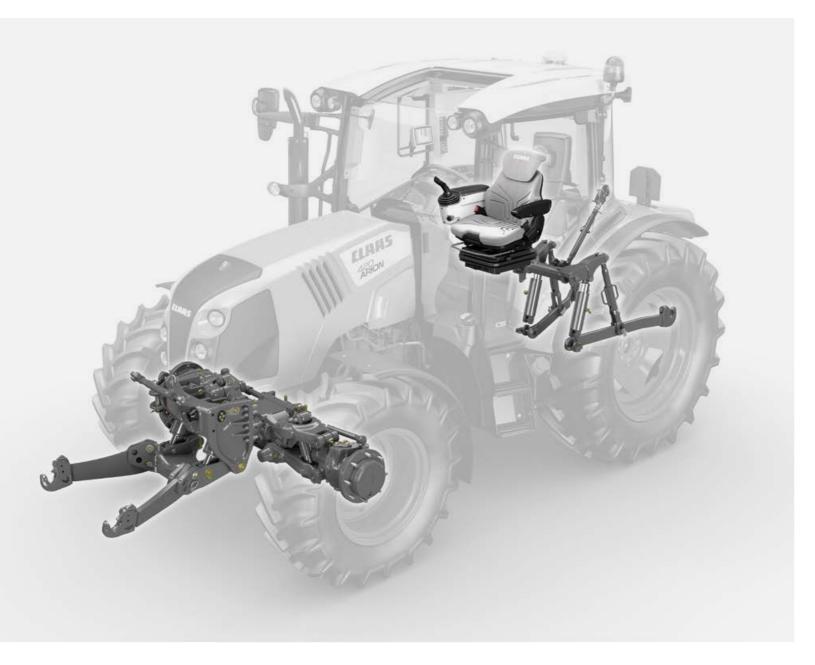


Switches for the work lights are conveniently positioned on the left-hand B-pillar



Handy storage compartments on the left side console ensure that everything is within easy reach. A 12 V socket is provided for charging mobile phones.

# Suspension that protects both operator and machine.



Comfort to match its bigger brothers: ARION 400.

For long and demanding working days, comfort is no longer a luxury confined to top-of-the range machines – it's an essential requirement. The new ARION 400 provides comfort right down to the smallest details.



PROACTIV front axle suspension. Complete comfort automatically.

Independent wheel suspension and 90 mm spring travel guarantee a very smooth ride. The suspension adjusts to tractor loading and automatically remains in the central position. Changes in load due to braking and turning manoeuvres are also compensated.



Vibration damping at front and rear.

Heavy implements mounted on the front and rear create a load 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.



Cab suspension for enhanced comfort.

The mechanical 2-point cab suspension available in the ARION 460-430 offers greater driving comfort in every situation. And the entire suspension system is completely maintenance-free. When combined with PROACTIV front axle suspension, the ARION 400 satisfies even the most demanding requirements.



Low-frequency suspension. The premium seat.

Seven seats from Sears and Grammer are available, including a pivoting premium seat with low-frequency air suspension.

- Suspension automatically adjusts to the driver's weight
- Pivoting seat console makes it easier to see implements

# Our electronics expertise. Acting today to be ready for tomorrow.



Three modules which make your work significantly easier.

We don't have to tell you that resources are becoming scarcer, the volume of legal requirements is increasing and competitive pressure is rising. But we would like to tell you how we can make your work easier and help you get more out of your business. To give our activities in the era of Farming 4.0 and ever-increasing digitisation a clear, comprehensible structure, we have organised our expertise in this sector into three clearly defined areas.



#### Operator assistance systems.

There's no substitute for experience – it's the key to reacting quickly and appropriately to changing conditions. Whether it's a question of wet soil areas, difficult terrain or changing levels of crop moisture, there are many decisions that have to be made to ensure that work is performed to the right standard. In developing our operator assistance systems we have drawn on the experience of thousands of CLAAS customers because there are many factors which are impossible to calculate scientifically and which call for realistic solutions taken from real-world situations.



#### Business and data management.

GPS coordinates, operating status of major components and modules, job messages, results of sensor measurements – all this information can be used for your benefit and leveraged through analysis and evaluation. All the results converge in the business and data management module where they are processed to provide an overview of expenses and receipts.

With the 365FarmNet field catalogue, which is available free of charge, you can manage your entire business across multiple manufacturers and agricultural sectors – whether you are at home or on the go. All the information you require can be found in one user-friendly program: from cropping plans to harvesting, from the field to the stall, from documentation to business analysis.



EASY.
Get connected.

Our EASY specialists are available to guide you through networking of the various components and systems. They will support you in integrating your CLAAS machine into your system landscape and preparing it for your implements, steering system environment and data management structure. They will help to ensure that your CLAAS machines can send and receive data. To and from anywhere you want. Protected against access by third parties – convenience and reliability for you and your staff. That's why we say 'EASY – get connected.'

# Even better control with ISOBUS and ICT.

#### S10 | 10.4" display



#### S7 | 7" display



#### The way you want it.

Portable displays from CLAAS offer a flexible control option for ISOBUS and steering systems. The terminal can also be moved from one tractor or self-propelled harvester to another, depending on the season or job in hand. Fit your ARION 400 with the equipment that suits you best:

#### S10 terminal:

- High-resolution 10.4" touchscreen terminal
- Steering and ISOBUS functions
- Up to four cameras can be displayed

#### S7 terminal:

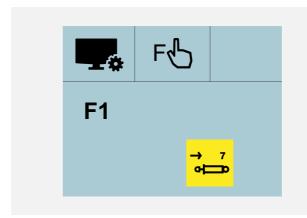
- High-resolution 7" touchscreen terminal
- Steering functions

#### EASY on board app.

With the new EASY on board app, all ISOBUS-compatible implements can be controlled from a tablet<sup>1</sup>. For even greater convenience, various functions can be assigned to the F buttons as with any other ISOBUS terminal.

#### ISOBUS implement control.

Sockets are provided at the rear in order to connect ISOBUS-compatible implements to the tractor. The ISOBUS- enabled terminal can be connected up in the cab using another socket. The attached implement is operated by means of a machine-specific display. ISOBUS compatibility means that implements from other manufacturers can also be operated using \$10 terminal.

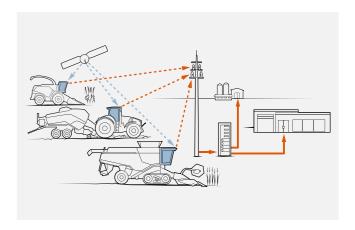


#### Function buttons.

ARION tractors have four function buttons to which different functions can be assigned in the CIS colour display. The current assignment can be viewed at any time in the CIS colour display. The buttons are assigned to the corresponding function using the S10 or other ISOBUS terminals, enabling each driver to customise tractor operation to suit individual requirements.

#### ARION 400 - AEF-compliant.

The Agricultural Industry Electronics Foundation (AEF) is a partnership between approximately 150 companies, associations and organisations. Its aim is to harmonise development standards in electronic systems for agriculture, such as ISOBUS components. These systems comply with the ISO 11783 standard, but more detailed AEF guidelines are also developed. The ARION 400 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.



#### CLAAS TELEMATICS.

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

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

Machines send the GPS coordinates, machine-related performance data and reports to the TELEMATICS web server via the mobile phone network. This data is directly accessible to farms or service partners via the internet.

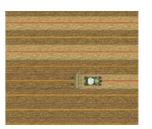


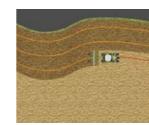
ISOBUS connections in the cab and at the rear

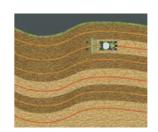
Apple iPad devices from iOS 9. A specific list of devices is provided in the description of the EASY on board app in the Apple App Store. A CWI (CLAAS Wireless Interface) is needed to connect to the in-cab ISOBUS connection.

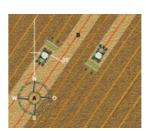
# Always on the right track. CLAAS steering systems.











#### Improve the quality of your work.

CLAAS steering systems take the pressure off the driver. They show in advance which direction to take, or automatically steer the tractor along the best possible path. Mistakes and overlapping are eliminated. Studies have shown that a modern parallel guidance system can save up to 7% on diesel fuel, machine costs, fertiliser and crop protection products.

The GPS PILOT automatic steering system is controlled by the S10 and S7 touchscreen terminals (see pages 52 / 53) which feature a very simple and user-friendly menu-guided interface.

#### Automatic steering at the headland.

The AUTO TURN function takes care of turning manoeuvres at the headland. The direction of the turn and the next track to be worked are pre-selected on the terminal. The steering system does the rest.

#### 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.

The correction signals.

#### RTK (± 2-3 cm)

- Base station
- Range approx. 15 km
- Own reference station or licence from CLAAS dealer
- Highest possible repeatable accuracy
- RTCM 3.1
- GPS and GLONASS reception

#### RTK NET (± 2-3 cm)

- Correction signal via mobile phone network
- Dual-frequency signal
- Unrestricted working radius
- Highest possible repeatable accuracy
- Subject to licence
- RTCM 3.1
- GPS and GLONASS reception

#### RTK FIELD BASE (± 2-3 cm)

- Mobile reference station
- Range 3-5 km
- Free of licence fees
- Internal correction signal
- Integrated rechargeable battery
- Dual-frequency signal
- RTCM 3.1
- GPS and GLONASS reception

#### OMNISTAR XP / HP / G2 (± 5-12 cm)

- Satellite-based correction signal
- Dual-frequency signal
- Subject to licence

#### EGNOS / E-DIF (± 15-30 cm)

- Free of licence fees
- Base accuracy

For more information about steering systems, see the CLAAS Steering Systems brochure or ask your CLAAS dealer.



With AUTO TURN the tractor turns automatically at the headland

 $^{4}$ 

## Maintenance must be as simple as possible.



#### Quick and easy.

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 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 400 when the bonnet is closed
- All daily maintenance tasks can be carried out without tools

Long oil-change intervals (engine 600 h, transmission and hydraulics 1,800 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, which can 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. A pre-cleaner for coarse dirt particles in the filter housing further extends the cleaning interval.





The cab air filter is behind the cab where it is easily accessible



A lubrication chart under the bonnet simplifies maintenance



The engine air filter is in front of the radiators for



The battery and a storage compartment for tools are located in an accessible position to the right of the steps



Hydraulic and transmission oil levels are easily checked using the sight glass next to the PTO

## Whatever it takes. CLAAS Service & Parts.







You can always rely on us: we'll be there whenever you need us. Everywhere. Fast. Reliable. 24 hours a day if necessary. With a complete solution for your machine or business. Whatever it takes.

#### ORIGINAL parts and accessories.

Specially matched to your machine: precision-manufactured spare parts, high-quality consumables and useful accessories. We will supply exactly the right solution from our comprehensive product range to ensure that your machine is 100% reliable. Whatever it takes.



#### For your business: CLAAS FARM PARTS.

CLAAS FARM PARTS offers one of the most comprehensive spare parts programmes, regardless of brand and sector, for all agricultural applications on your farm. Whatever it takes.

#### Always up to date.

CLAAS dealers are among the most efficient agricultural technology businesses in the world. Our service teams are ideally qualified and equipped with the all-important special tools and diagnostic systems. CLAAS Service stands for high-quality work which meets all your expectations with regard to expertise and reliability. Whatever it takes.

#### Planned reliability.

Our service products help you to increase machine reliability, minimise the breakdown risk and base your calculations on predictable costs. CLAAS MAXI CARE offers planned reliability for your machine. Whatever it takes.

#### Worldwide coverage from Hamm.

Our central spare parts warehouse delivers all ORIGINAL parts quickly and reliably all over the world. Your local CLAAS partner can supply the right solution for your harvest or your business within a very short time. Whatever it takes.

## Always networked with your dealer and CLAAS.

Using Remote Service, your CLAAS dealer Arion brochure for the printer and wan to can access your machine and your specific data. Together, you can respond quickly and directly to maintenance and servicing situations.

Furthermore, with TELEMATICS, you can retrieve all of your important machine data via the internet, anytime, anywhere. Whatever it takes.

The CLAAS Parts Logistics Center in Hamm, Germany, stocks more than 155,000 different parts and has a warehouse area of over 100,000 m<sup>2</sup>



Just the way you want it. The new ARION 400.



# The new ARION 400. Features.



#### CPS.

- The latest engine technology for high performance and low fuel consumption
- FPT 4-cylinder turbocharged engines developing max. 90
   to 140 hp in accordance with ECE R 120
- QUADRISHIFT transmission with 16 F / 16 R or HEXASHIFT transmission with 24 F / 24 R
- HEXACTIV or QUADRACTIV auto-shift
- Automatic PTO engagement/disengagement
- Max. 110 I/min hydraulic output with load-sensing system and Power Beyond connections
- Up to five spool valves
- Unique front chassis concept with integral cast frame, designed for extreme loads and great flexibility
- Long wheelbase and balanced weight distribution
- Compact construction with integrated front linkage
- Front loader fully integrated into the tractor for high stability and optimum ease of use
- Up to three PTO speeds available (540 / 540 ECO / 1,000)

#### Comfort and convenience.

- Three equipment options:
- Standard version with mechanical spool valves and mulitpad on the right-hand console
- CIS version with mechanical spool valves, multifunction control lever and CIS display
- CIS+ version with electronic spool valves, multifunction control lever, 7" CIS colour display and CSM headland management (optional)
- Multifunction control lever operates transmission, rear linkage, engine speed and two spool valves
- Six-pillar cab available in four styles
- Perfect all-round visibility, including front loader and front hitch area, thanks to narrow-waisted bonnet and PANORAMIC cab or transparent sunroof
- Mechanical 2-point cab suspension
- PROACTIV front axle suspension with automatic height control
- Powerful air-conditioning system and cooling compartment under the passenger seat
- Excellent access to all maintenance points
- GPS PILOT with S10 or S7 touchscreen terminal
- TELEMATICS remote monitoring
- Fully integrated ISOBUS interfaces
- Four freely programmable F buttons for front loader, ISOBUS and tractor functions

ADION		400	450	440	400	400	440
ARION		460	450	440	430	420	410
Engine							
Manufacturer		FPT	FPT	FPT	FPT	FPT	FPT
Number of cylinders		4	4	4	4	4	4
Cubic capacity	cm <sup>3</sup>	4500	4500	4500	4500	4500	4500
Turbocharger with wastegate		•	•	•	•	-	-
Turbocharger		-	-	-	-	0	0
Rated output (ECE R 120) <sup>2</sup>	kW/hp	99/135	92/125	85/115	77/105	70/95	63/85
Max. output (ECE R 120) <sup>2</sup>	kW/hp	104/140	97/130	90/120	82/110	75/100	67/90
Type approval value (ECE R 120)1	kW	103	97	90	83	75	67
Max. torque (ECE R 120) <sup>2</sup>	Nm	570	550	520	480	435	405
Engine speed at maximum output	rpm	2100	2000	2000	2000	2000	2000
Max. fuel tank capacity		190	190	190	190	140	140
Max. urea tank capacity		22	22	22	22	17	17
Oil-change interval	h	600	600	600	600	600	600
QUADRISHIFT powershift transmission							
Ratios F/R		16/16	16/16	16/16	16/16	16/16	16/16
Powershift speeds		4	4	4	4	4	4
Electrohydraulically controlled ranges		4	4	4	4	4	4
REVERSHIFT clutchless reverser		•	•	•	•	•	•
Min. speed at 2200 rpm	km/h	2.04	2.04	2.04	2.04	1.85	1.85
Min. speed with creep gear	km/h	0.15	0.15	0.15	0.15	0.14	0.14
Max. speed	km/h	40	40	40	40	40	40
QUADRACTIV		0	0	0	0	0	0
HEXASHIFT powershift transmission							
Ratios F/R		24/24	24/24	24/24	24/24	-	-
Powershift speeds		6	6	6	6	-	-
Electrohydraulically controlled ranges		4	4	4	4	-	_
REVERSHIFT clutchless reverser		•	•	•	•	-	-
Min. speed at 2200 rpm	km/h	1.75	1.75	1.75	1.75	-	-
Min. speed with creep gear	km/h	0.13	0.13	0.13	0.13	-	-
Max. speed	km/h	40	40	40	40	-	-
HEXACTIV		0	0	0	0	-	-
Rear axle							
Electrohydraulically activated differential locks		•	•	•	•	•	•
Automatic differential lock		•	•	•	•	•	•
Max. rear wheel tyres (diameter)	m	1.75	1.75	1.75	1.75	1.70	1.65
Oil-change interval	h	1800	1800	1800	1800	1800	1800
PTO							
Wet multi-disc clutch		•	•	•	•	•	•
External operation of engagement and emergency stop		0	0	0	0	0	0
540/540E		•	•	•	•	•	•
540/1000		0	0	0	0	0	0
540/540E/1000		0	0	0	0	0	0
540/540 E/1000 and ground speed PTO		0	0	0	0	_	_
Changeable PTO stub		•	•	•	•	•	•
1%" PTO stub, 6 splines		0	0	0	0	0	0
1%" PTO stub, 6 and 21 splines		•	•	•	•	•	•
1%" PTO stub, 6 and 8 splines		0	0	0	0	0	0
Automatic PTO engagement/ disengagement		0	0	0	0	0	0
Four-wheel drive front axle							
Rigid front axle		•	•	•	•	•	•
PROACTIV suspended front axle		0	0	0	0	0	0
Automatic 4-wheel drive		•	•	•	•	•	•
Optimum turning radius	m	4.90	4.90	4.50	4.50	4.25	4.25
Fixed mudguards		1.00	1.00	4.50	1.00	1.20	1.20
Pivoting mudguards		0	0	0	0	0	0
i moung muuguurus			J	J		-	-

<sup>&</sup>lt;sup>1</sup> Performance data fit criteria for admissibility.

		460	450	440	430	420	410
Hydraulics							
Open-centre hydraulic circuit, 60 l/min		0	0	0	0	0	0
Output at nominal engine speed	I/min	60	60	60	60	60	60
Max. operating pressure	bar	195	195	195	195	195	195
Number of mechanical spool valves at the rear (min./max.)		2-3	2-3	2-3	2-3	2-3	2-3
FLEXPILOT 4-way control lever		0	0	0	0	0	0
Flow rate control for one spool valve		•	•	•	•	•	•
Open-centre hydraulic circuit, 100 l/min		0	0	0	0	0	0
Output at nominal engine speed	I/min	100	100	100	100	100	100
Max. operating pressure	bar	195	195	195	195	195	195
Number of mechanical spool valves at the rear (min./max.)	24.	2-3	2-3	2-3	2-3	2-3	2-3
ELECTROPILOT 4-way control lever		0	0	0	0	0	0
Flow rate control for one spool valve		•	•	•	•	•	•
Load-sensing circuit 110 I/min		0	0	0	0	0	0
Output at nominal engine speed	l/min	110	110	110	110	110	110
Max. operating pressure	bar	200	200	200	200	200	200
Number of electronic spool valves at the rear (min./max.)	bai	2-4	2-4	2-4	2-4	2-4	2-4
ELECTROPILOT 4-way control lever		0	0	0	0	0	0
Flow rate control for all spool valves		0	0	0	0	0	0
How rate control for all spool valves		O	O	O	O	O	O
Rear linkage							
Lower and upper links with category II ball end		-	_	_	-	•	•
Lower and upper links with category III coupling hook		•	•	•	•	0	0
Max. lifting capacity at ball ends	kg	5750	5750	5750	5750	4500	4500
Continuous lifting power at ball ends	kg	4200	4200	4200	4200	3200	3200
Vibration damping		•	•	•	•	•	•
External controls		•	•	•	•	•	•
ISOBUS socket		0	0	0	0	0	0
25 amp socket		•	•	•	•	•	•
Front linkage							
Max. lifting capacity at ball ends	kg	3300	3300	3300	3300	3300	3300
Front PTO 1000 rpm	Ng	0	0	0	0	0	0
Vibration damping for front linkage		•	•	•	•	•	•
External operation		0	0	0	0	0	0
Additional hydraulic connections		0	0	0	0	0	0
Trailer socket		•	•	•	•	•	•
Hallet Sucket			•	•	•		
Cab							
High-profile cab							
Low-profile cab							
PANORAMIC cab							
Standard version		•	•	•	•	•	•
CIS version		0	0	0	0	0	0
CIS+ version		0	0	0	0	0	0
Olo i Voloioli		0	0	0	0	0	0
Air conditioning							
		0	0	0	0	0	0
Air conditioning		0	0	0	0	0	0

● Standard ○ Optional □ Available — Not available — Not available — Not available

<sup>&</sup>lt;sup>2</sup> Meets ISO TR 14396

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.

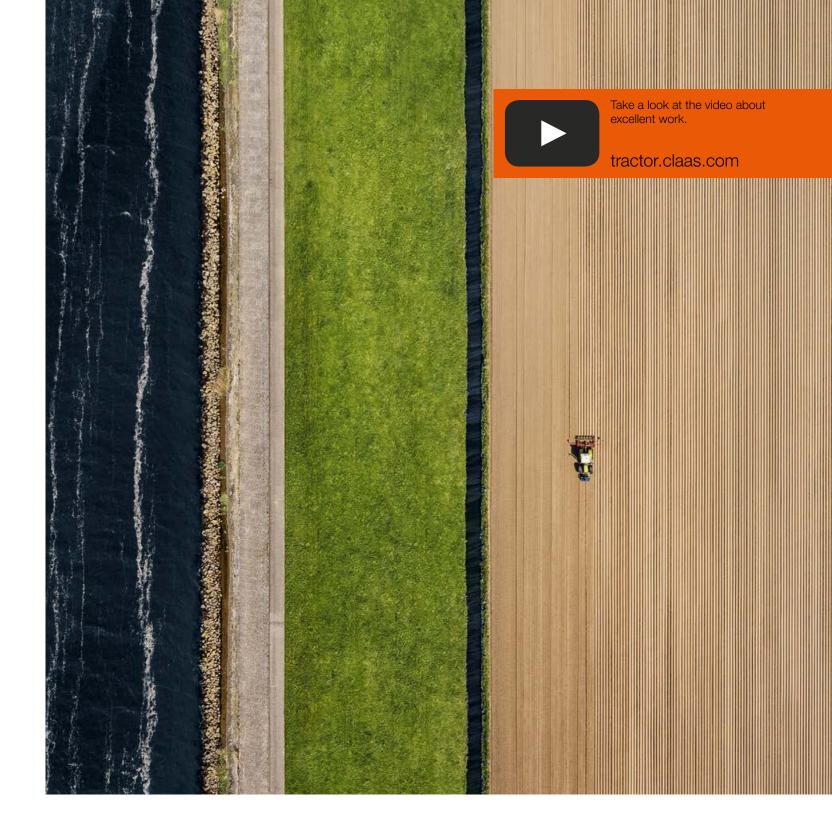
ARION		460	450	440	430	420	410
Dimensions and weights							
Centre of rear axle to top of high-profile cab (a)	mm	1965	1965	1965	1965	1910	1910
Centre of rear axle to top of low-profile cab (a)	mm	1851	1851	1851	1851	1796	1796
Overall height (b) high-profile cab	mm	2765	2765	2765	2765	2610 <sup>1</sup>	2610¹
Overall height (b) low-profile cab	mm	2601	2601	2601	2601	2496 <sup>1</sup>	2496 <sup>1</sup>
Wheelbase (c)	mm	2525	2525	2525	2525	2489	2489
Overall length (without front ballast, without front linkage) (d)	mm	4444	4444	4444	4444	4372	4372
Ground clearance, front axle (e)	mm	492	492	479	479	454	429
Ground clearance, rear axle (excl. drawbar) (f)	mm	469	469	456	456	431	406
Weight	mm	5200	5200	5100	5100	4800	4700
Max. permissible gross weight	mm	8500	8500	8500	8500	8500	8500

<sup>&</sup>lt;sup>1</sup> Overall height with 30" tyres









### Excellent work. Tractors from CLAAS.

CLAAS UK Saxham Bury St. Edmunds Suffolk IP28 6QZ Tel 01284 763100 claas.co.uk info-uk@claas.com

365FarmNet enables you to manage your entire agricultural business by means of a single, nonproprietary software solution. Interfaces to intelligent applications created by partners in the agricultural sector offer expert support for your business 365 days a year.
CLAAS is a 365FarmNet partner.



HRC / 333012130218 KK ME 0418