



XERION

5000 4500 4000

CLAAS



XERION - a quick look

GPS Guidance System / TELEMATICS

Deluxe cab

CEBIS integrated in armrest
CMOTION multifunction control lever

One-piece hood with narrow-waist design

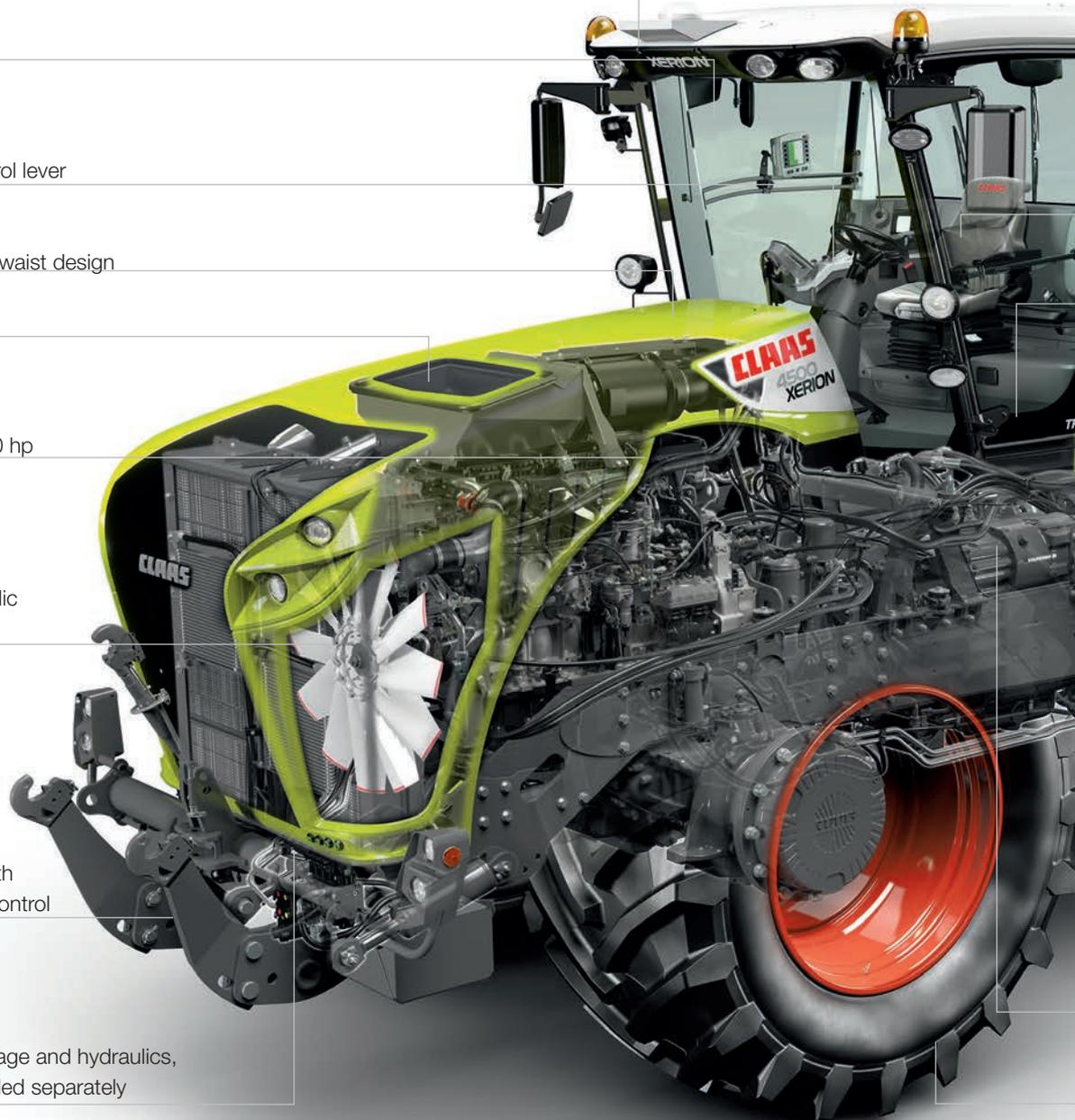
New air intake system

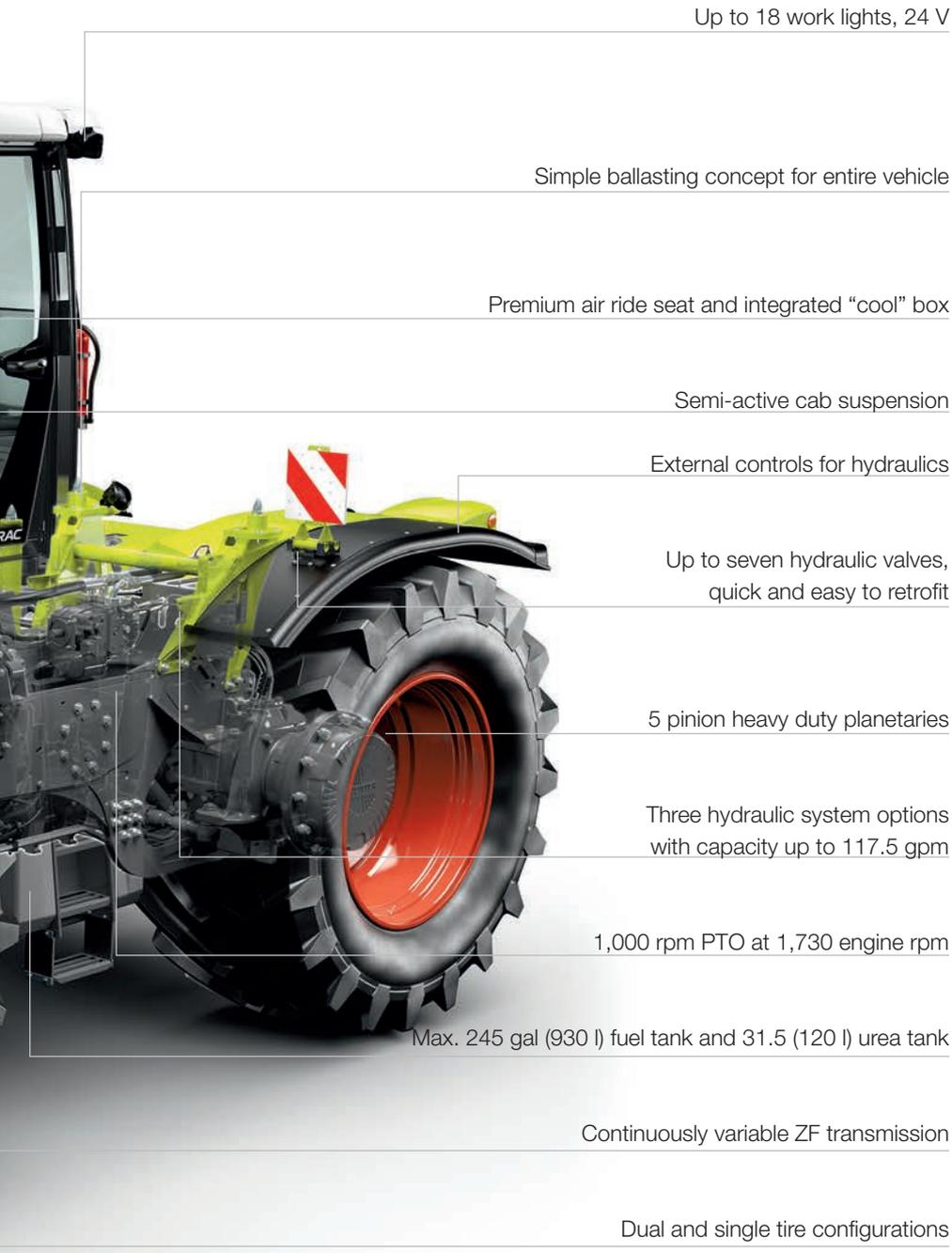
Mercedes engine to max. 530 hp

Continuously variable, hydraulic
reversible fan

Front linkage with height-depth
control and active transport control

External controls for front linkage and hydraulics,
hydraulic connections controlled separately





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The TRAC concept.

Still unique.

Wherever high work rates, productivity and efficiency are needed, the XERION provides the perfect solution.

The XERION offers a number of unique features:

- 4-Wheel steering
- Continuously variable drive train over 500 hp
- Up to 31 mph (50 km/h) top speed
- Intuitive, ergonomic controls



Dual tire configuration.



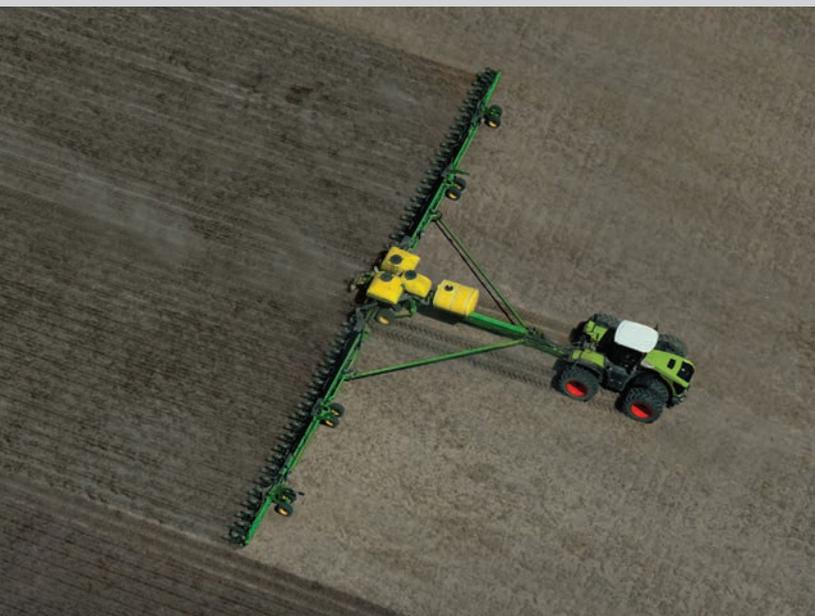
More versatile.

With the dual tire option, the XERION becomes even more versatile.

XERION tractors equipped with duals feature:

- 5 pinion outboard planetaries
- Dual steering cylinders
- Pressure lubed and cooled axles
- Flotation and traction for reducing compaction and transferring power to the ground

The cab. TRAC and TRAC VC.



Ideal for field work.

On the TRAC model, the cab is fixed in the middle of the vehicle. It has large windows which offer excellent visibility, allowing the front crop area and rear implement areas to be in full view.

The TRAC model is the one that is typically used in most North American farm applications. It is ideally suited to all field operations, such as tillage and seeding.

Well balanced.

Even without additional ballast, the weight of the XERION is evenly distributed across both axles.





Wide range of applications.

For jobs such as snow blowing, wood chipping and silage work, a good view of the rear implements is essential.

At CLAAS, VC stands for Variable Cab. The rotating cab is the most convenient reverse-drive system imaginable. At the press of a button, the cab can be moved from its central position to the rear facing position above the rear axle.

With automatically rotating controls, all functions remain the same when operating in the rear position.



Power packed.
The engine.

CPS | CLAAS
POWER
SYSTEMS



Optimized drive for
outstanding results.

The CLAAS machinery development program constantly strives to maximize efficiency, improve reliability and optimize 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.



Full power.

The latest 6-cylinder in-line engines from Mercedes meet Tier 4f emissions standards. In addition to highly sophisticated technology, they offer a wealth of impressive benefits:

- High torque even at low engine speeds
- Torque is consistent over a wide engine speed range
- Low weight thanks to high power density
- Compliant with Tier 4f emissions standards via SCR technology

Two engines for three powerful machines.

The XERION 4000 has an OM 470 LA with 11 liter cubic capacity. The two larger XERION 5000/4500 models are powered by the OM 471 LA with 13 liter cubic capacity.



		XERION 5000	XERION 4500	XERION 4000
Cylinders		6	6	6
Cubic capacity	l	12.8	12.8	10.6
Nominal engine speed	rpm	1900	1900	1900
Rated output (ECE R 120)	hp (kW)	517 (380)	476 (350)	422 (310)
Max. output (ECE R 120)	hp (kW)	530 (390)	490 (360)	435 (320)
Max. torque	ft lb (Nm)	1807 (2450)	1696 (2300)	1549 (2100)



CMATIC

CMATIC means continuously variable.

CMATIC is the CLAAS continuously variable transmission technology in XERION tractors. In the XERION series, a ZF Eccom provides efficient conversion of engine power. The driving comfort with this continuously variable transmission is unique in this hp class.



Direct driveline.

The driveline is kept simple so that engine power transfers directly to the axles and PTO.

Selectable longitudinal and transverse differentials provide optimum power transfer when it's really needed.

ZF Eccom 4.5 transmission (all models).

- Full power transmission in both directions of travel
- The auxiliary drive option (power hydraulics) is available
- 40 km/h and 50 km/h available
- Integral PTO
- Longitudinal differential lock

ZF Eccom 5.0 transmission (TRAC models only).

- Max. 40 km/h in XERION 5000
- 40 km/h and 50 km/h in XERION 4500
- Integral PTO
- full-time 4 wheel drive

Power equals efficiency. The transmission and PTO.

Plenty of usable power.

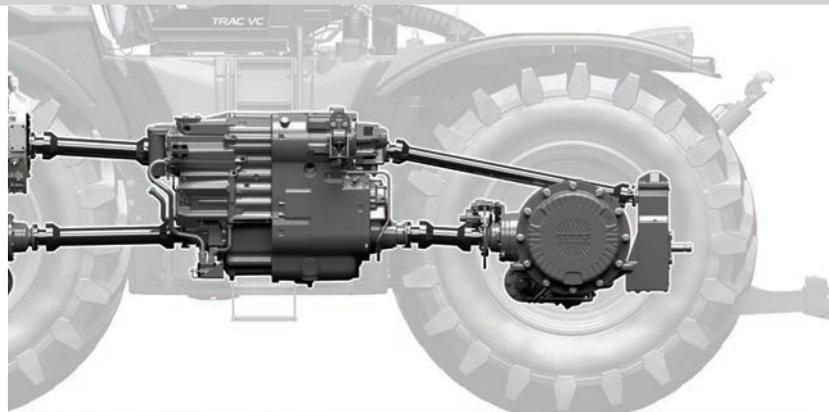
When the PTO is running at 1,000 rpm, the XERION develops its output at a reduced engine speed of 1,730 rpm. Thanks to the simple drive train design, the full rated output is transferred to the PTO stub.

This enables you to reduce your fuel consumption while working at full engine output.

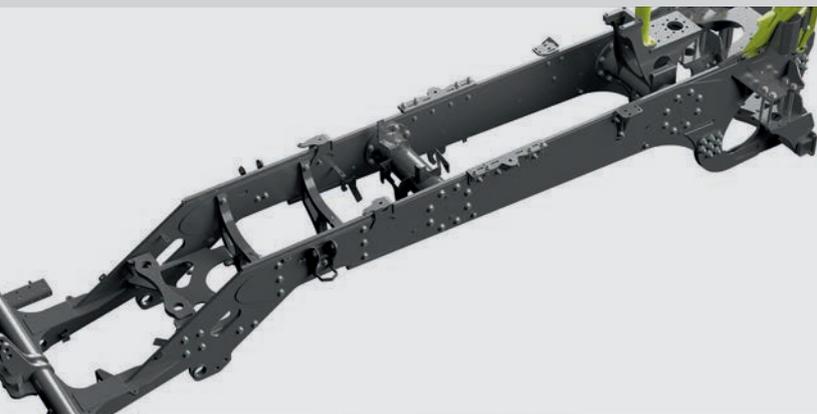
Available PTO stubs.

- 1 3/4", 20 splines
- 2 1/4", 22 splines

With the 2 1/4" PTO stub, engine outputs above 500 hp are effectively transferred to attached implements.



A solid foundation. The frame.



Bolted in place.

The XERION frame reinforcements are bolted in place, which increases the strength and load-carrying capacity.

The engine and its assemblies are mounted on silent blocks on the frame to minimize vibration inside the cab.

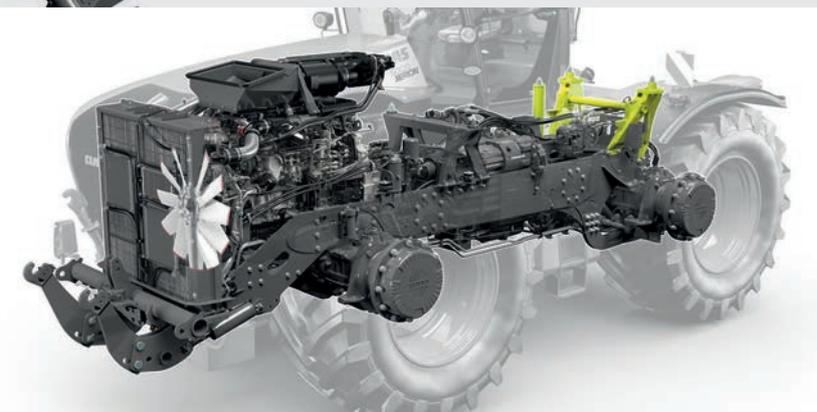
Long wheelbase.

The long wheelbase enhances driving comfort. The 141.7 in (3.6 m) spacing between the axles improves operating stability and plays a major part in converting engine power into effective tractive power.

Two steering axles ensure that the XERION remains maneuverable and easy to handle.

High load-carrying capacity.

The 110 mm ball hitch behind the cab supports a maximum drawbar load of 33,000 pounds. A gooseneck connection with mounted implements makes the tractor/ implement combination highly maneuverable. The hitch ball absorbs the high loads and distributes them evenly across the entire vehicle.





Tractive power makes all the difference.

The four or eight equal-sized tires efficiently convert the installed engine power into equal shares of tractive power. Using the wheel slip display and rapidly adjustable engine droop, the driver can quickly find the optimum setting for every job.

Good distribution.

The tare weight is distributed evenly across both axles (55% at the front and 45% at the rear) even without additional weights. The tractor is easily optimized for every task with a ballasting pack that is available ex factory. 880 lbs (400 kg) weights can be installed on the front weight and the rear plate and locked in place.

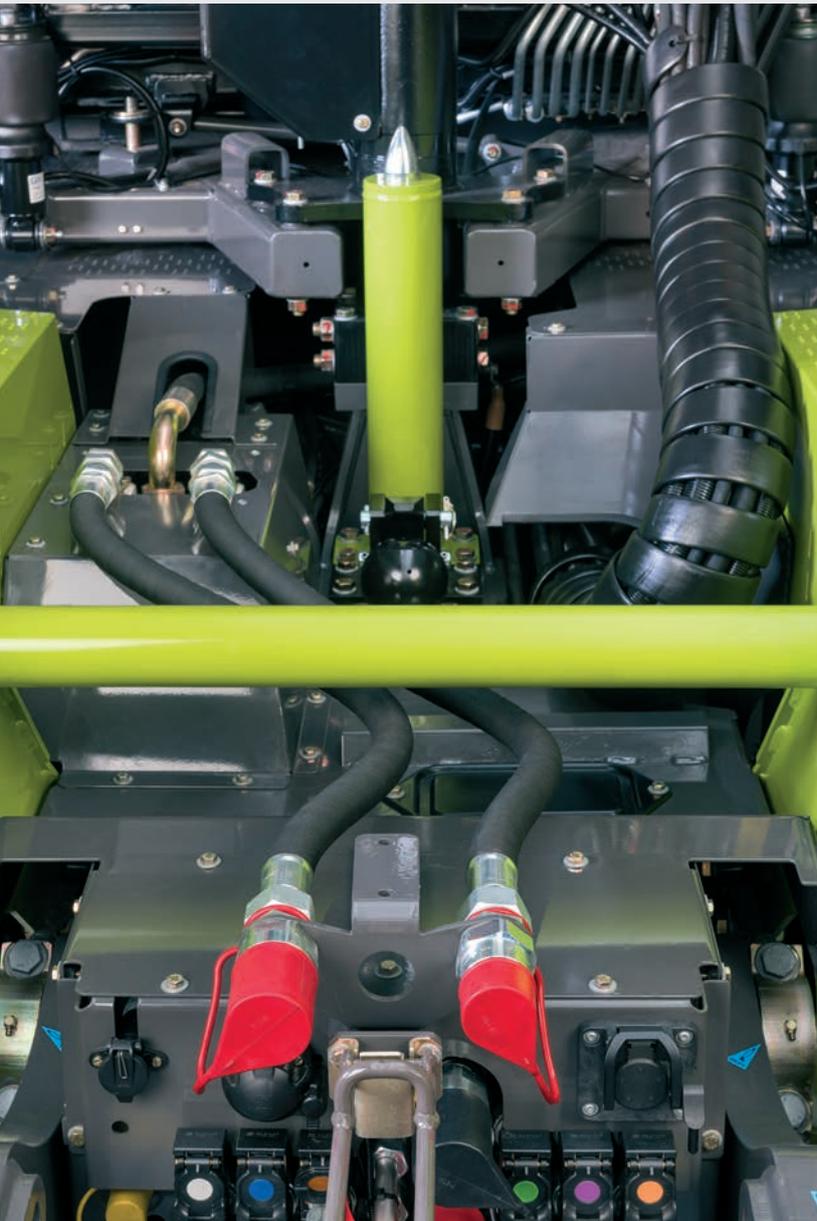
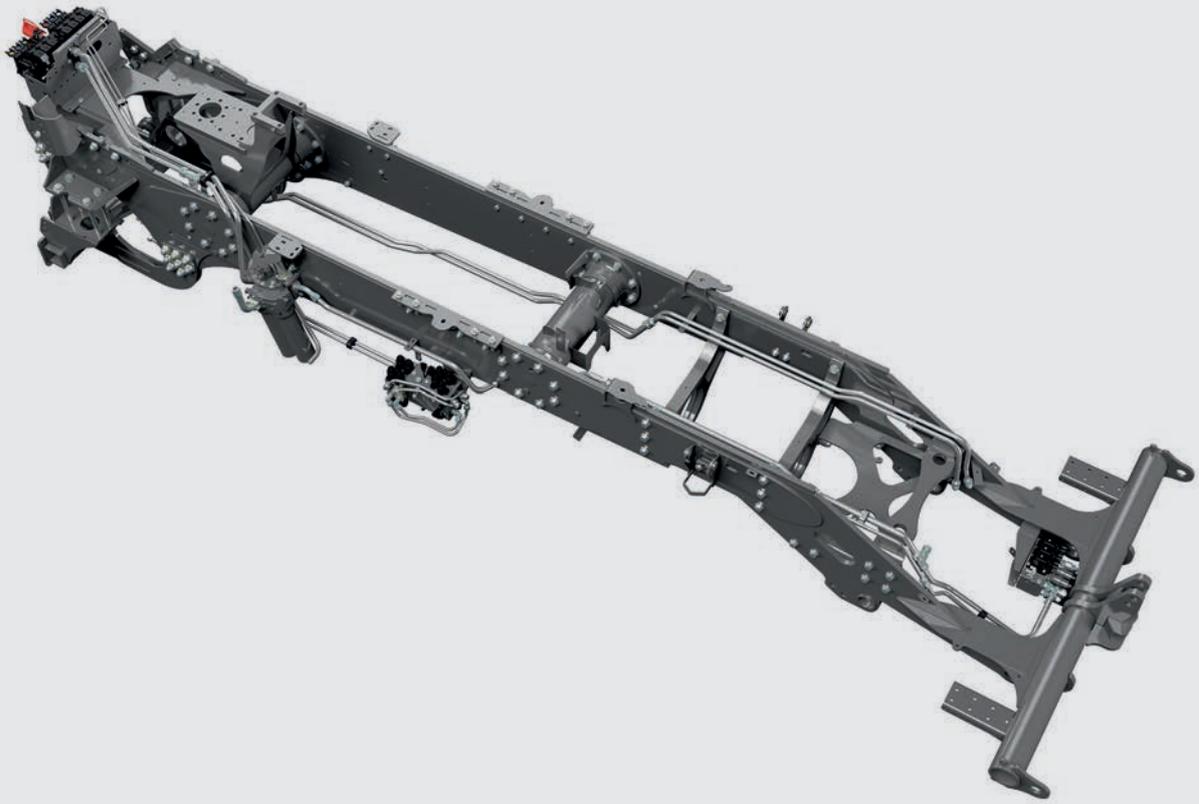
Front: fixed or variable.

CLAAS offers two different front weights: one is designed to be fixed permanently in place and one can be attached via the front hydraulics. Both weigh 4,000 lbs (1,800 kg). The ballasting can be increased to 7,500 lbs (3.2 t) by adding four additional weights.

Rear: a range of options.

A 440 lb (200 kg) base plate can be installed over the rear axle by means of a simple locking system. A total weight of 11,000 lbs (3.4 t) can be achieved by installing up to eight additional weights in this way.





The facts.

The XERION is equipped with three hydraulic choices to ensure that it always has enough in reserve, even for complex tasks.

Base system.

Standard hydraulics means plenty of flow and control to accomplish most tasks. Fully configurable, this system can provide:

- 2900 PSI operating pressure
- 51.5 gpm max. supply volume

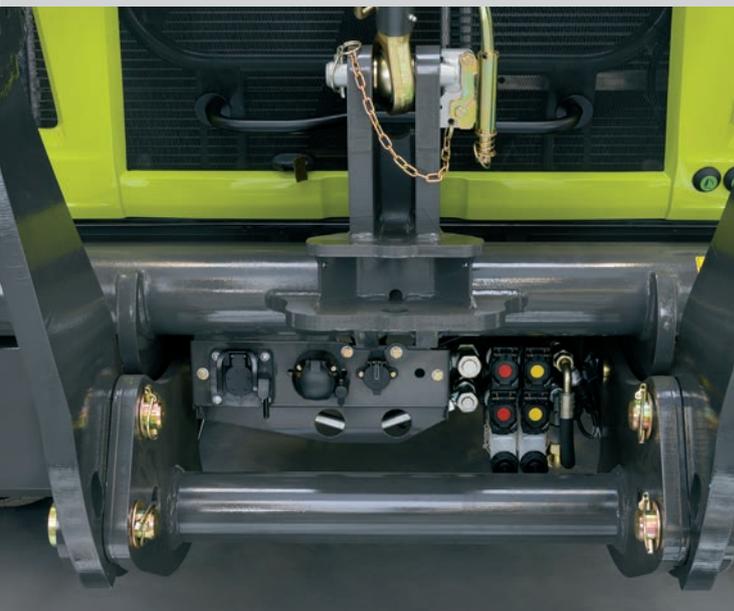
Twin Priority Hydraulic System.

For demanding hydraulic applications like air seeders, the optional Twin Priority Hydraulic System provides up to 72.5 gpm through two separate pumps. This way, two valves can provide priority flow to air delivery fans to ensure accurate and consistent operation.

Strong power hydraulics.

On the ZF Ecom 4.5 transmission there is an auxiliary drive which can deliver 66 gpm at 3,770 PSI via a separate load sense pump. This third hydraulic circuit can provide up to 120 hp (90 kW) of additional output as a hydraulic PTO.

Keep up the pressure. The hydraulics.



Connections at the front.

Two double-acting spool valves are available at the front of the XERION if a front linkage is installed.



Connections at the rear.

Six double-acting spool valves are available at the rear when a linkage is fitted, and up to seven are available when specified without.

Power-Beyond for greater efficiency.

The Power-Beyond connections with large-diameter lines and flat couplings provide a high oil delivery rate to attached implements with low losses.

Option	Total Flow	Configuration	Max Pressure	Control	Application
Standard	51.5 gpm	one pump @ 51.5 gpm	2900 PSI	CEBIS	General Use
Twin Priority	72.5 gpm	one pump @ 51.5 gpm one pump @ 21 gpm	2900 PSI / 2900 PSI	CEBIS	High Flow (air seeders)
Power Hydraulics	117.5 gpm	one pump @ 51.5 gpm one pump @ 66 gpm	2900 PSI / 3770 PSI	CEBIS / ISO device	Continuous use (agitation pumps & remote drives)

Loves heavy work. Front and rear linkage.

Fully integrated.

The front linkage is fully integrated into the frame. The lower links fold in easily to reduce the vehicle length. Further benefits include:

- Continuous 18,000 lb (8.1 t) lift capacity
- Vibration damping
- Robust design
- Quick and easy to attach front weights



Everything under control.

The CMOTION handle allows you to control the front and rear linkage easily with your thumb without having to move your hand.

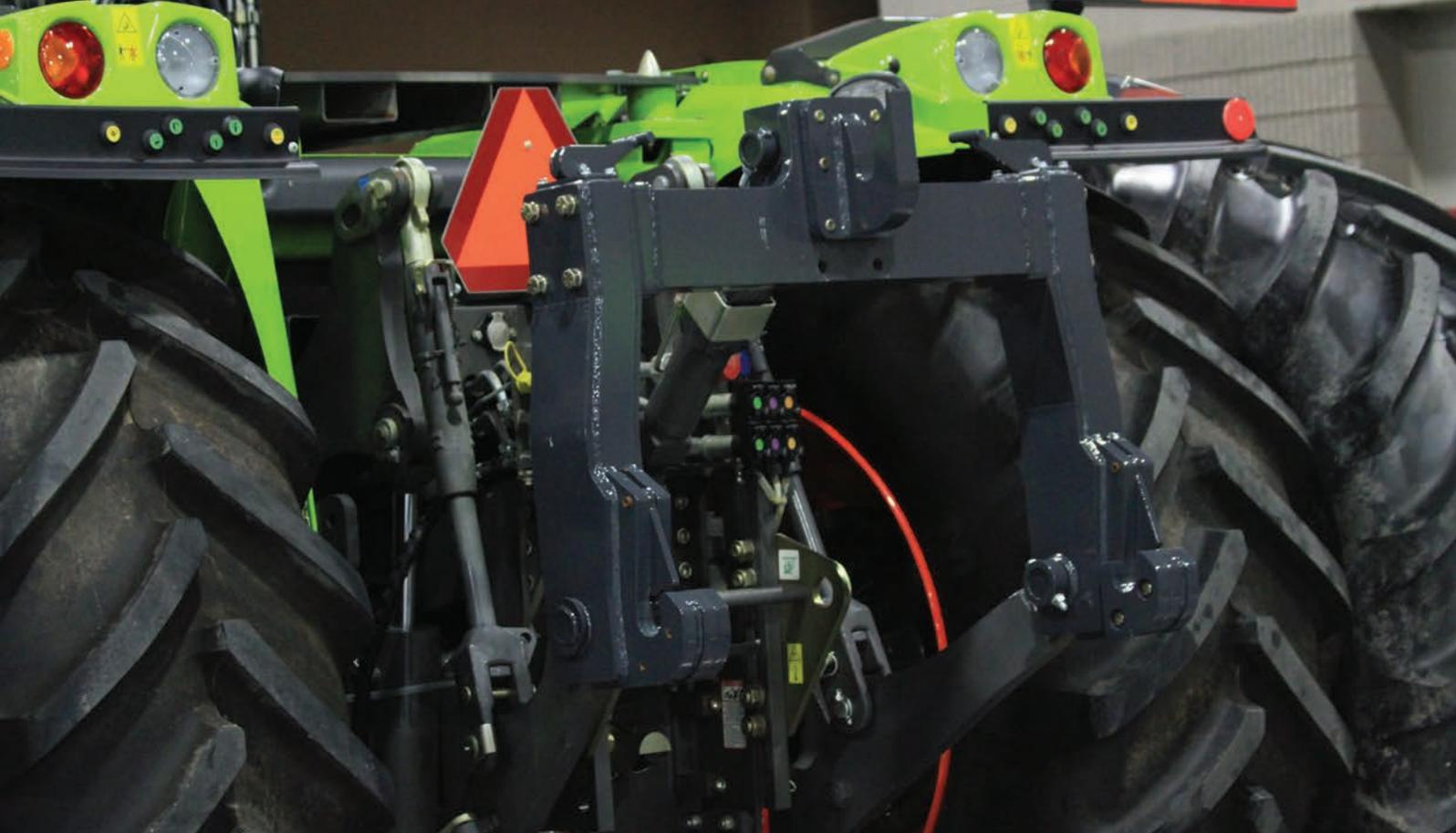


Many options.

The front linkage is operated electronically. Your hand remains on the CMOTION multifunction control lever while you operate all the functions. All settings can be adjusted quickly and easily on the CEBIS control terminal.

Front lift

- Working position for area calculation
- Lifting height limit
- Drop rate
- Lifting speed



Continuous power.

The 3-point hitch on the rear linkage is fitted with category 4N links with ball ends. A Cat 4N quick hitch is also provided.

- Double-acting rams
- Continuous 22,480 lb (10 t) lift capacity
- Vibration damping

The top link.

For the top attachment point on the 3-point hitch at the rear, CLAAS offers a mechanical top link with category 4 (heavy duty) hitch points or a hydraulic top link with category 3 or 4 hitch points.

A strong attachment. The hitch points.

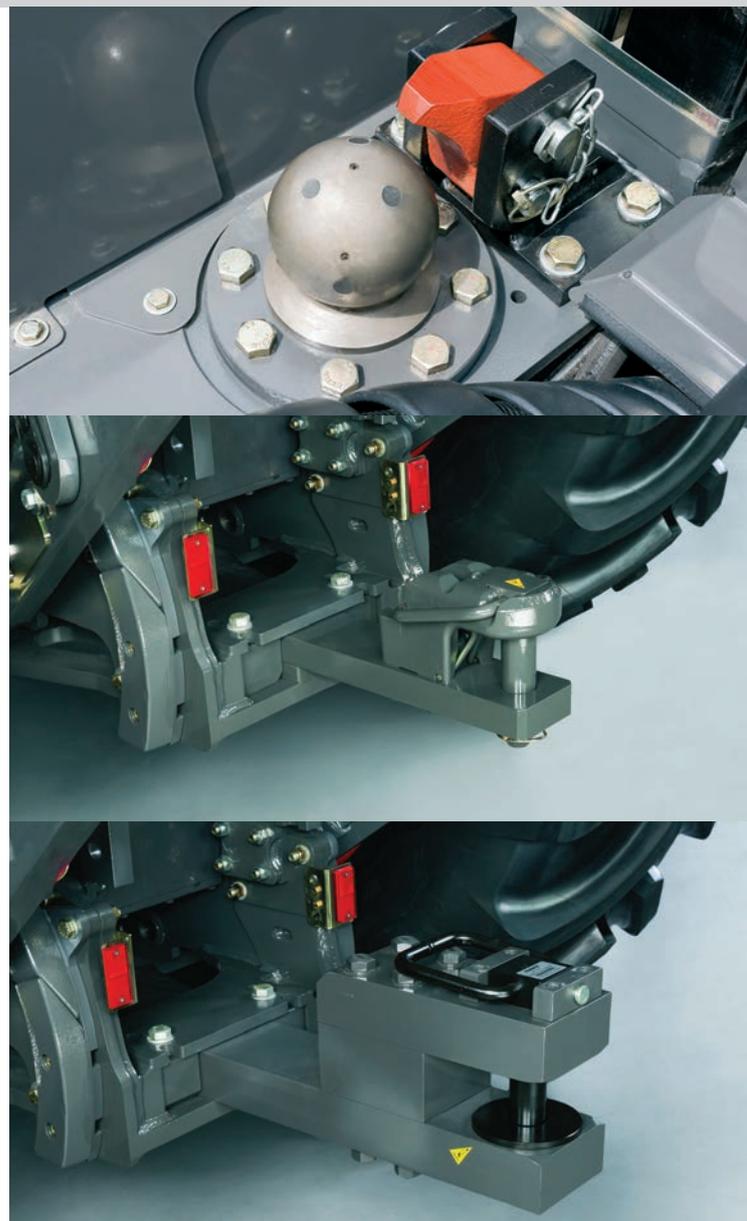
Mid mounted ball.

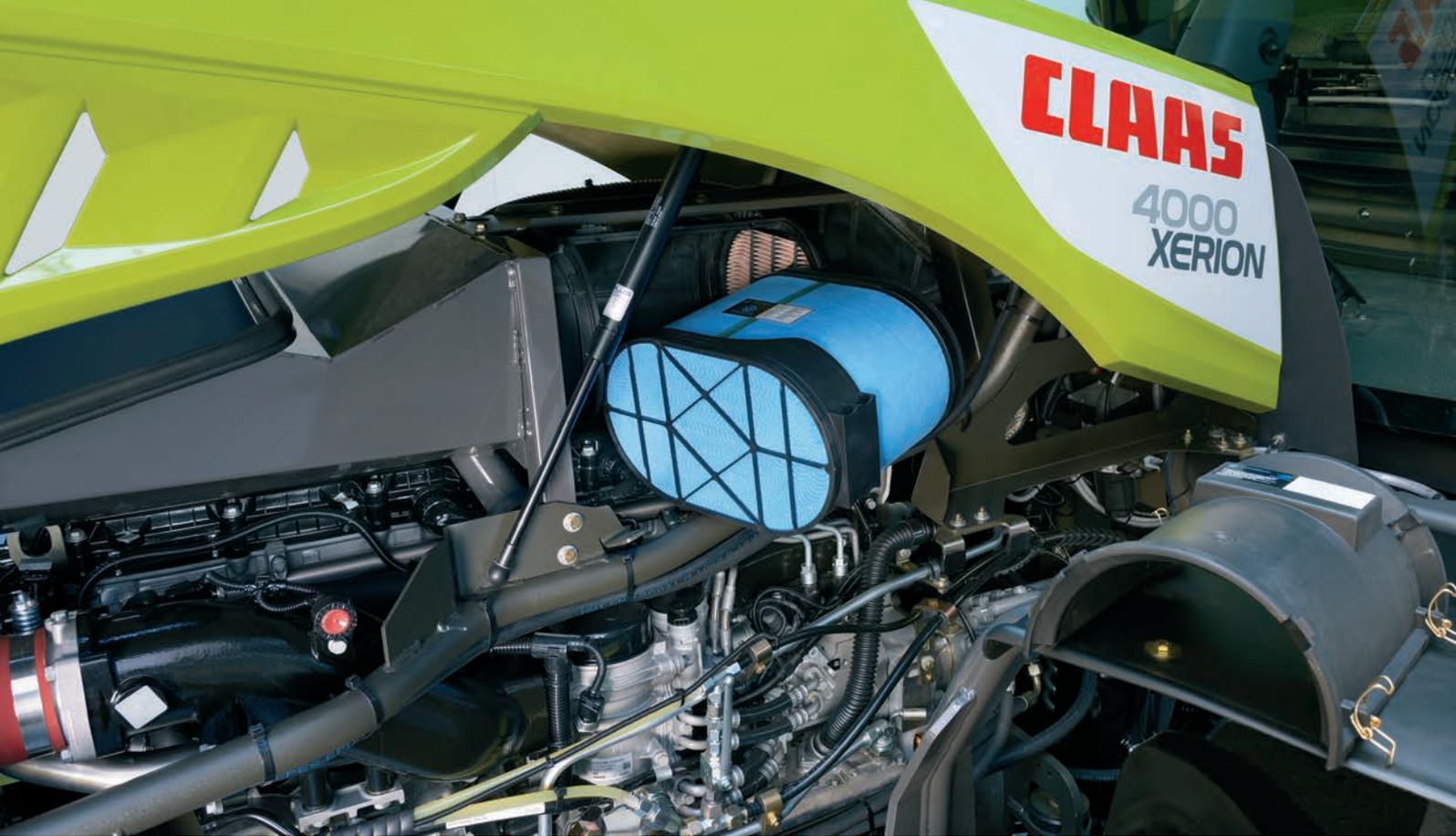
As implements get larger, the axle loads increase. When a standard style drawbar is used, it concentrates all the weight to the rear axle. The 110 mm ball hitch distributes up to 33,000 lbs over both axles due to its placement.

Drawbar options.

The standard drawbar incorporates an auto pin function for ease of hook-up. With 11,000 lbs of vertical load capacity, it can handle most common farm implements.

When using implements with high vertical loads such as large grain carts, tow between air tanks, slurry tankers, and large spreader boxes, the heavy-duty drawbar is available. With over 23,000 lbs of vertical load capacity and ability to handle 2 and 2.75 inch draw pins, this is the heaviest drawbar in the industry.

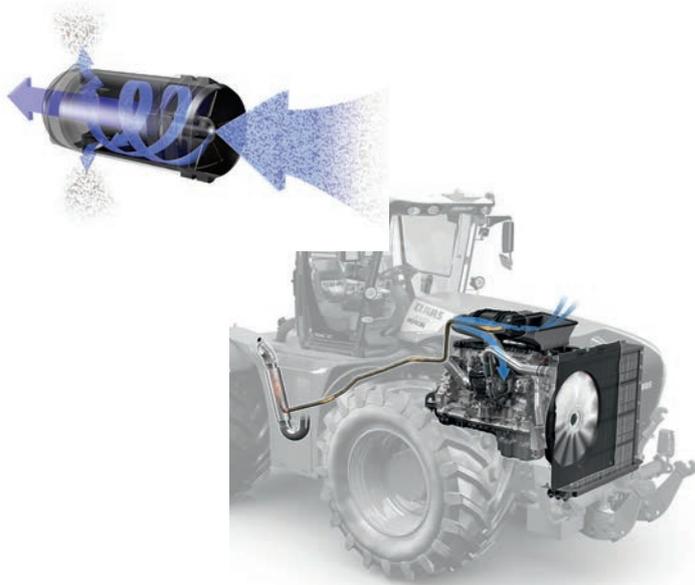




Fast maintenance.

- Oil-change interval for transmission, hydraulic and axle oil: 1,500 hours
- Easy access to engine oil filter
- One-piece hood for easy access to all service points
- The new engine air intake system increases the service life of the filter cartridge
- Service notifications are displayed on the CEBIS
- Robust, easily accessible battery compartment
- Coolant reservoir can be accessed when the hood is closed

These features combine to make daily service and maintenance tasks much easier.





Ultra-convenient reverse-drive system.

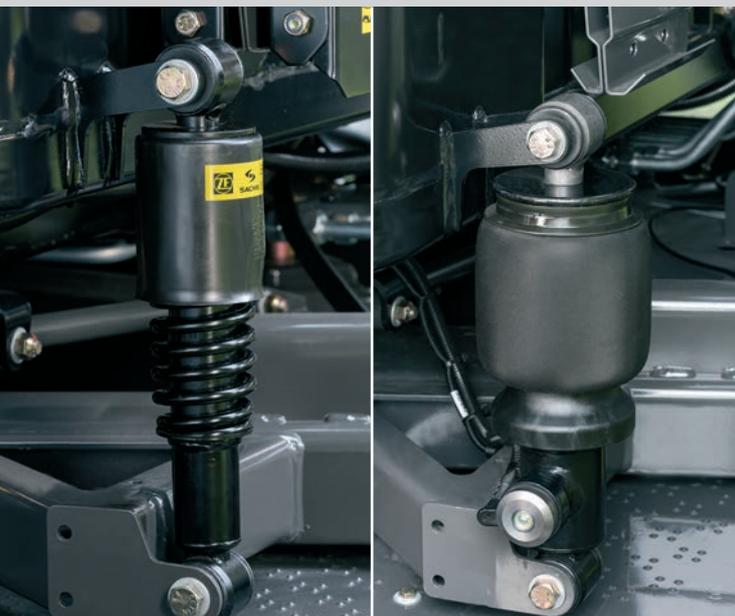
The cab on the XERION TRAC VC (Variable Cab) can be rotated through 180° in less than 30 seconds by the press of a button. This new position at the rear of the tractor gives the driver an excellent view of rear-mounted attachments. All the controls move as well – automatically. For tasks such as silo work, snow blowing or mulching, this convenience is unique.

Magnificent view.

The spacious cab offers unbeatable all-round visibility thanks to its large windows and 4-pillar design.

And long working days are no problem with a maximum noise level of 69 dB.

Business class. The cab.



Intelligent suspension.

All XERION tractors are equipped with mechanical suspension as standard for a smooth ride while operating in uneven field conditions.

The new semi-active cab suspension option enhances driving comfort in all applications. The dampers are electronically controlled and automatically adjust the suspension to the current driving situation.

Lighting.

The XERION lighting system is based on two different voltage networks. The road driving lights are powered by a voltage of 12 V and the working headlights by a 24 V system.

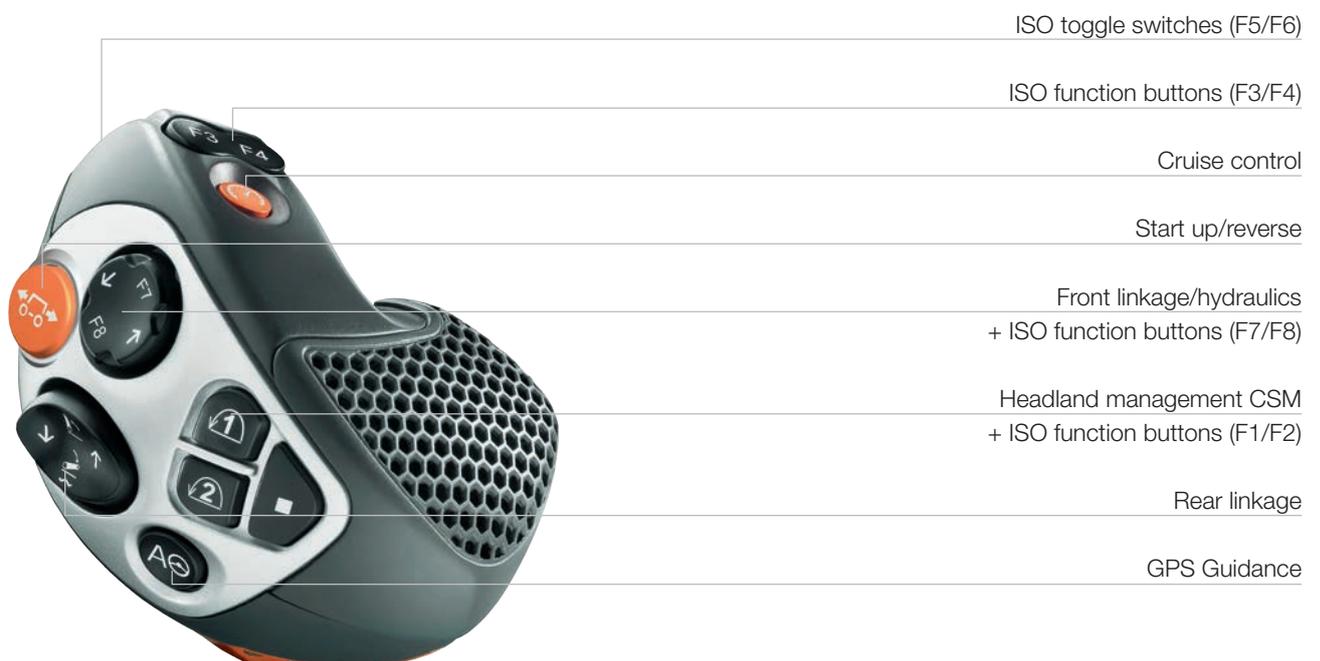
- Up to twelve work lights at the front
- Up to eight work lights at the rear
- New LED option provides brighter output and longer life



Everything close at hand. The armrest.

Ergonomic.

The adjustable armrest is designed so that the driver's arm and hand remain relaxed and comfortable while controlling the XERION. Even when operating the CMOTION multifunction control lever, your arm does not get tired.





Control panel.

The control panel is equipped with additional function switches which are identified by self-explanatory symbols.

- 1 Speed range switch
- 2 Reversible fan
- 3 Parking brake/neutral
- 4 Differential locks (automatic)
- 5 Differential locks (manual)
- 6 Engine-speed memory
- 7 Hydraulic spool valves
- 8 PTO
- 9 Power hydraulics (auxiliary drive)
- 10 Position control, rear linkage
- 11 ELECTROPILOT (red and yellow spool valves)
- 12 E-gas (manual engine speed adjustment)





Always in the know.

Information, control and monitoring through the CEBIS electronic on-board information system is simple thanks to its clear, logical setup of functions in the menu structure.

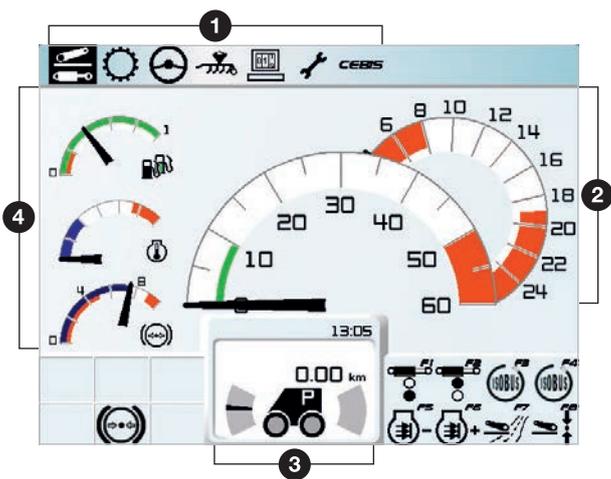
Clear, simple, even faster operation.

In working mode, the basic tractor settings are entered via the CEBIS dial. An additional HOTKEY dial allows quick access to control other functions. The position of the dial is shown on the CEBIS display. The relevant CEBIS or HOTKEY increment control is used to navigate through the menus and change settings.

An eye-catching 8.4 in (21 cm) screen.

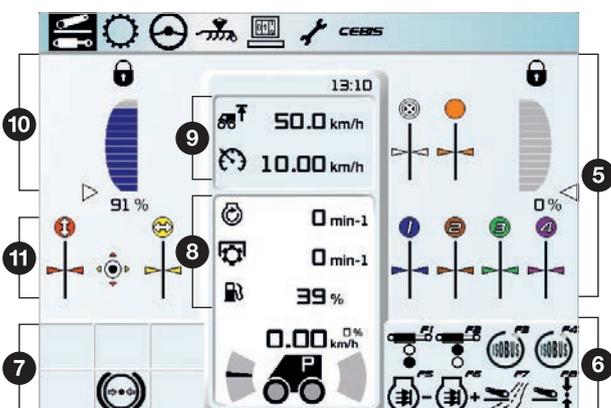
The 8.4" (21 cm) color CEBIS screen offers the perfect view thanks to its easily customized position. A ball coupling mount allows the monitor to be adjusted exactly as the operator requires.

Everything under control. CEBIS.



CEBIS road screen

- 1 Menu bar
- 2 Ground speed and rpm
- 3 Travel information
- 4 Fuel, temperature and air indicator



CEBIS operating screen.

- 5 Rear linkage / rear hydraulics status
- 6 Function button assignment: F1 to F8 on multifunction control lever
- 7 Message window
- 8 Configurable display area
- 9 Variable display area dependent on selected menu item
- 10 Front linkage status
- 11 Front hydraulics status



The name says it all.

The combined electronics expertise of CLAAS can be summed up in a single word: EASY

This acronym stands for Efficient Agriculture Systems – and lives up to its name. Equipment settings, steering systems, software solutions and more: EASY makes it all simple. Your systems are fully integrated, enabling you to get the best performance from your machines and top results for your business.



ISOBUS implement control.

CLAAS is a member of the AEF and is ISOBUS compliant. Electronics increase the safety, effectiveness, precision and efficiency of agricultural equipment. In the past, however, every manufacturer used their own proprietary solutions, which necessitated special adaptation for every combination of tractor and implements. ISOBUS will simplify this by offering a plug and play solution for the future: only one terminal for a large selection of implements, regardless of the manufacturer. The communication between the implement and the farm management system is also standardized and simplified through the use of ISO-XML.



AUTO STEERING optional.

Trimble, Ag Leader, or Reichardt can be used when operating the XERION in standard steer mode.



The XERION has an ISOBUS connector at the front (optional) and rear (standard).

EASY. Simply get more done.



Trimble® ready.

The CLAAS open architecture structure via the CLAAS CANBUS allows Trimble Guidance, Steering, and Field Information Monitoring components to plug and play directly into the XERION. The FmX® offers a full-featured display for your harvesting needs.



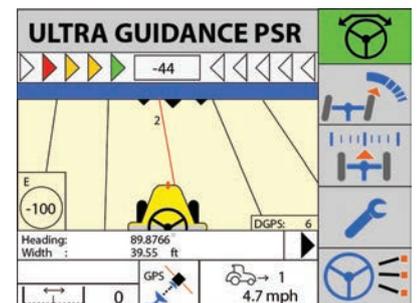
Trimble Farm Works Software.

Farm Works™ Mapping software provides a mapping and field record keeping solution that equips you to make better choices for your operation using yield data to identify areas that deliver consistently high or low yields.



Reichhardt guidance.

CLAAS is also open to the Reichhardt platform for guidance and steering. Reichhardt allows you the freedom of choice to mix and match precision brands to fit your operation's needs. The user interface is compatible with any ISO VT terminal and can be used to interact with the iBox controller. The flexibility can allow you to save money by using components already owned.



Perfect turning maneuvers. CLAAS SEQUENCE MANAGEMENT.

CLAAS SEQUENCE MANAGEMENT.

CSM takes the reins for you. By pressing a button, you can run any previously recorded, routine functions.

CSM offers:

- Recording of up to four sequences per implement
- Sequence activation on CMOTION
- Sequence display on CEBIS
- Time or distance related recording
- Sequences can be changed or optimized retrospectively

The following functions can be combined in any order:

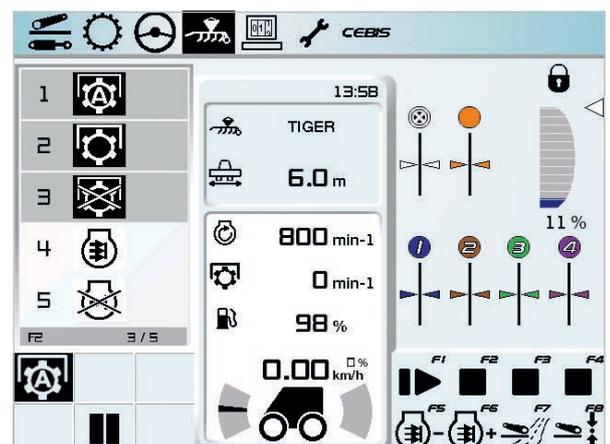
- Spool valves with time and flow control
- Four-wheel drive, differential lock
- Front and rear hydraulics
- Rear PTO
- Engine speed memory
- Cruise control value

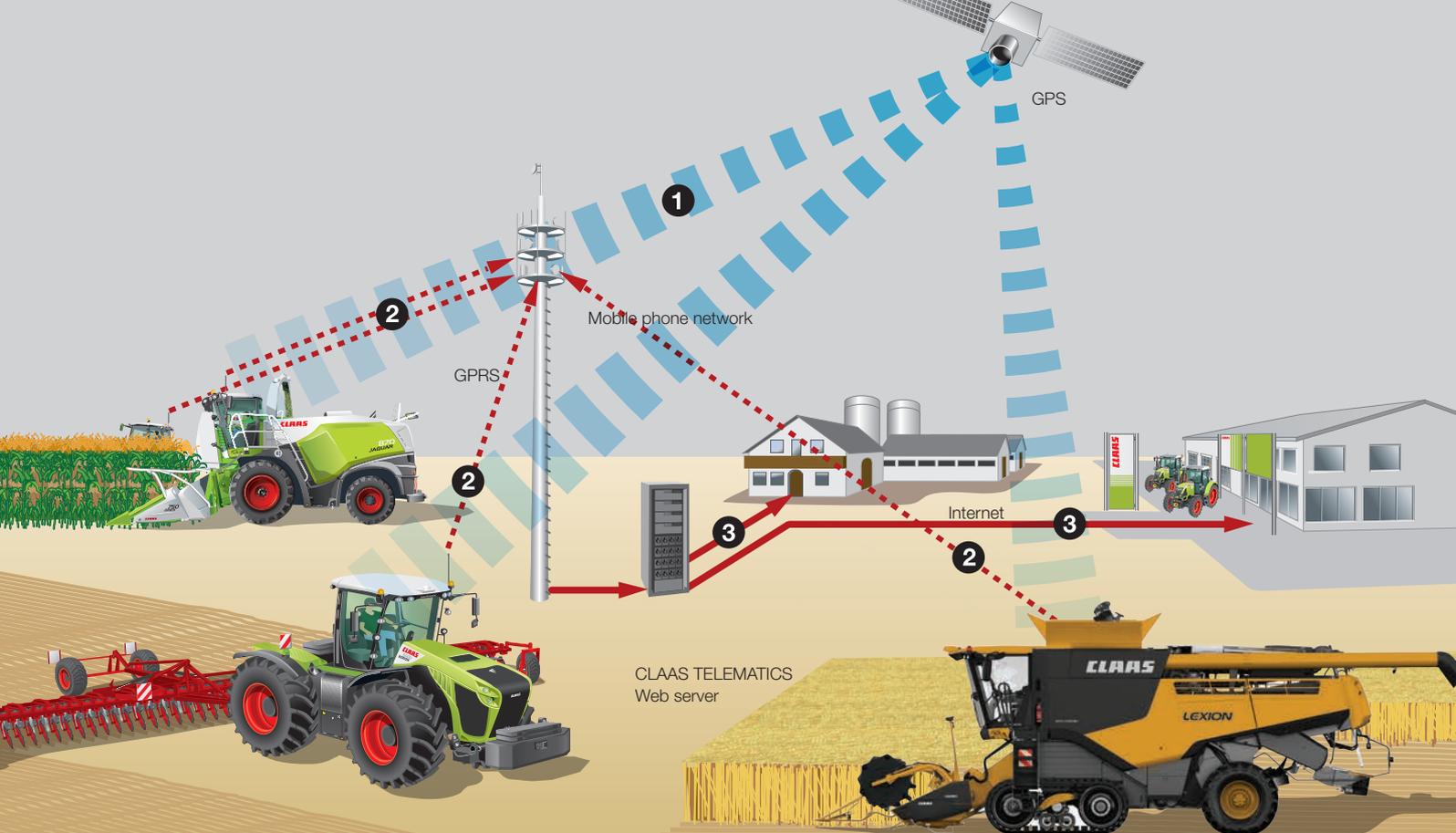


Easy to record and run.

Sequences are set on a distance- or time-related basis, even when the machine is stationary. A step by step guide in CEBIS walks you through the recording process. You can also pause and restart sequences at the push of a button.

Recorded sequences can be changed to refine them. Steps can be added and deleted or changed and adapted in minute detail, allowing times, distances and flow volumes to be tailored to current conditions.





TELEMATICS: All data in real time.

CLAAS TELEMATICS allows you to monitor all of your performance data and the position of your machine from any location, whether from the office or the workshop, wherever Internet access is available.

GPS positioning enables the exact location of the XERION in the field or on the road to be determined. Even when you're on the move, you have full access to all the information you require via a mobile connection.

Monitoring, analysis and comparison provide the ideal basis for sound business decisions to be made to increase the capacity utilization of machines for enhanced efficiency.

TONI (TELEMATICS ON IMPLEMENT).

TONI is an extension of TELEMATICS. It enables the user to use data from the attached implement in addition to tractor data. The only requirements are that the tractor is ISOBUS-compatible and that the implement is controlled via ISOBUS.

Good reasons to use CLAAS TELEMATICS / TONI:

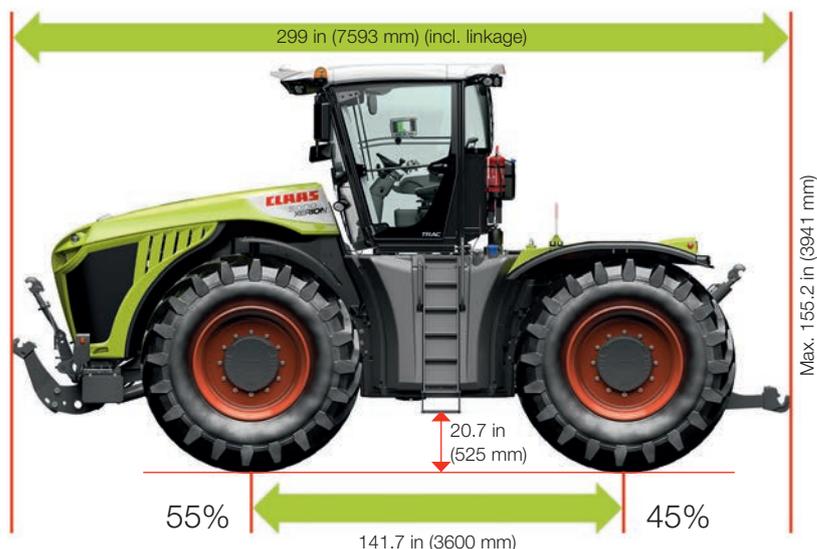
- Improve work processes: operating time analysis
- Optimize settings: remote monitoring
- Simplify documentation: data collection
- Faster servicing: remote diagnostics

- 1 Machines receive signals transmitted by GPS satellites.
- 2 Machines send the GPS coordinates, machine-related performance data and reports to the TELEMATICS web server via the mobile phone network.
- 3 This data is directly accessible to farms or service partners via the Internet.



King of the road.

TRAC / TRAC VC



XERION

		5000	4500	4000
Engine				
Manufacturer		Mercedes	Mercedes	Mercedes
Number of cylinders/intake		6	6	6
Cubic capacity	l	12.8	12.8	10.6
Nominal engine speed	rpm	1900	1900	1900
Lower engine idling speed	rpm	800	800	800
Upper engine idling speed	rpm	1976	1976	1976
Output at nominal engine speed (ECE R 120) ²	hp (kW)	517 (380)	476 (350)	422 (310)
Max. output (ECE R 120) ²	hp (kW)	530 (390)	490 (360)	435 (320)
Max. torque (ECE R 120) ²	lbf-ft (Nm)	1807 (2450)	1696 (2300)	1548 (2100)
Fuel tank	gal (l)	245 (900)	245 (900)	245 (900)
Urea tank	gal (l)	31.7 (120)	31.7 (120)	31.7 (120)
Electrical system				
Alternator	A/V	150/24 + 240/12	150/24 + 240/12	150/24 + 240/12
Batteries	Ah/V		4 x 75 Ah, total 150/24, 150/12	
CMATIC transmission				
Transmission manufacturer			ZF	
Transmission type			Hydrostatic-mechanical, Continuously Variable	
Output			All-wheel drive, permanent	
Max. speed	mph (km/h)	31 (50)	31 (50)	31 (50)
Eccom 5.0: rigid (without longitudinal differential)		Std	Std	N/A
Eccom 4.5: 100% lockable, multi disc construction		Opt	Opt	Std
Power Take Off				
Power @ 1000 PTO rpm	hp (kW)	472 (352.7)	433 (323.2)	380 (283.8)
PTO speed @ 1730 engine rpm	rpm	1000	1000	1000
Automatic PTO engagement/disengagement			Standard	

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

XERION

		5000	4500	4000
Powered steered axles				
Differential locks		100% lockable, electrohydraulic actuation, multi disc construction, with automatic function		
Brakes				
Service brake		Hydraulically actuated wet multi-disc brakes, auxiliary-power-reinforced, acting on all wheels		
Parking brake		Electrohydraulically disengaged spring-loaded brake		
Hydraulics				
Max. hydraulic tank capacity	gal (l)	31.5 (120)	31.5 (120)	31.5 (120)
System type		Closed Center - pressure and flow compensating		
Main circuit (linkage, auxiliary spool valves)				
Max. operating pressure	PSI (bar)	2900 (200)	2900 (200)	2900 (200)
Std. flow rate	gal/min (l/min)	51.5 (195)	51.5 (195)	51.5 (195)
Optional „twin priority“ flow rate	gal/min (l/min)	72.5 (275)	72.5 (275)	72.5 (275)
Number of spool valves		Max. 7 rear, max. 3 front		
Max. flow rate per valve	gal/min (l/min)	27.7 (105)	27.7 (105)	27.7 (105)
Power hydraulic system (optional - continuous flow use only)				
Operating pressure	PSI (bar)	3770 (260)	3770 (260)	3770 (260)
Max. flow rate	gal/min (l/min)	66 (250) at 1650 rpm	66 (250) at 1650 rpm	66 (250) at 1650 rpm
Max. hydraulic output, total	hp (kW)	120 (90)	120 (90)	120 (90)
Front linkage (optional)				
Category	Mpa (bar)	III N, double-acting		
Continuous lift capacity at ball ends	Lbf (kN)	18209 (81)	18209 (81)	18209 (81)
Shifting function		Raising, lowering (pressing)		
Control function		Position control, vibration damping		
Rear linkage (optional)				
Category		IV N, double-acting		
Continuous lift capacity at ball ends	Lbf (kN)	22480 (100)	22480 (100)	22480 (100)
Shifting function		Raising, lowering (pressing)		
Control function		Position, Draft, and Active Transport		
Dimensions and weights				
Overall length including power lift	in (mm)	299 (7,593)	299 (7,593)	299 (7,593)
Overall width	in (mm)	117.3 (2,980)	117.3 (2,980)	117.3 (2,980)
Overall height	in (mm)	153.2 (3,891)	153.2 (3,891)	153.2 (3,891)
Wheelbase	in (mm)	141.7 (3,600)	141.7 (3,600)	141.7 (3,600)
Ground clearance	in (mm)	17.9 (455)	17.9 (455)	17.9 (455)
Smallest turning circle	ft (m)	49 (15)	49 (15)	49 (15)
TRAC VC tare weight (with 800/70R38 single tires/full tank/front & rear linkage)	lb (kg)	38,470 (17,450)	38,470 (17,450)	37,590 (17,050)

● Standard ○ Optional – Not available

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.



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CL99881002 / 02/2016