Combine harvesters

LEXION

670  650
The LEXION name stands for the ability to cope with any challenge, to perform to the highest standards and to deliver clear, measurable results. The LEXION embodies not only the experience gained in the course of 75 years of combine production at CLAAS, but also valuable input from customers and an understanding of the challenges which the future holds.
LEXION – a commitment.

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Greater support for the operator. The LEXION pulls out all the stops to maintain a high level of operator motivation and sustained productivity – even when working days are particularly long.

For optimal working conditions.

The LEXION gives the operator freedom of movement, a clear control layout and excellent visibility on all sides. The air conditioning maintains a consistent, comfortable atmosphere, which together with superb soundproofing and a three-position adjustable steering column provides first-class working conditions.
Cushions, supports, ventilates and keeps you warm: the deluxe operator’s seat.

Full support for dynamic, active work while seated. Active comfort control ensures optimal ventilation and sweat removal without subjecting the operator to unhealthy draughts. The air suspension seat with automatic height control adjusts automatically to the operator’s weight and effectively absorbs vibrations up to 40%. A pneumatic, two-part lumbar support keeps your back in shape while the automatic thermostat for the seat’s heating keeps you warm and comfortable. The leather seat is also air-suspended, heated and ventilated.

Fully featured:
trainee’s seat with integrated cooler.

- Integrated armrest at left on door
- Foldable backrest as a table
- Large in-cab refrigerator, with capacity of 43 litres and a bottle holder
- Many other stowage compartments

Turns night into day at the flick of a switch.

The lighting systems ensure the best visibility for the entire work area and machine parts even at night. Intelligent features, such as the afterlight function, make for a complete package. Powerful H9 and xenon lights turn night into day.

- Up to ten work lights
- Lighting for folding front attachments
- Side lights, stubble lights, steering axle lights
- Automatic lighting of the discharge auger tube
- Automatic reversing lights
- Lighting for the cleaning system, grain tank and returns
- Service lights below the side panels
- Mobile work light

For more information, please visit: go.claas.com/newlexion
EASY. Simply more.
The name says it all.

All the electronics expertise of CLAAS can be summarised in a word: EASY.

That stands for Efficient Agriculture Systems, and it lives up to the name. Equipment settings, guidance systems, software solutions and more: EASY makes it all simple. Your systems can be matched perfectly with each other, enabling you to get the best performance from your combines and top results for your operation.

Go on. Go easy.

The EASY concept is made up of four components, each providing specialist competence and together forming a strong team.

– on board – Control and performance optimisation of the combine from the cab
– on field – Increased productivity directly in the field
– on track – Equipment monitoring and remote diagnostics
– on farm – Software solutions for your operation
More informed, more monitoring.

All’s clear on the operating panel!

Integrated with the operator’s seat, its flexible functions can be adapted as needed. Function switches include:

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Keeping the operator in the picture at all times.

Information, registration, control and monitoring are the tasks of the CEBIS electronic on-board information system. It is distinguished by its clear, logical organisation of functions in the menu structure.

A brief glance at the CEBIS display gives an overview of the current processes and conditions: all the relevant information for driving or harvesting is summarised clearly on the screen. Warning messages are given audibly as a buzz tone and visually as icons and text.

An eye-catching 21 cm screen.

The 8.4" colour CEBIS screen offers an ideal view thanks to its ball coupling mount which enables the monitor to be adjusted as required by the operator. It can be adjusted for angle as well as horizontally and vertically.

Clear, simple and fast operation.

− The basic machine settings in working mode are made via the CEBIS rotary switch (B)
− An additional HOTKEY rotary switch allows fast access to other functions (E)
− The position of the rotary switch is shown on the CEBIS display (H)
− The CEBIS and HOTKEY rotary/push switches (A / D) are used for menu navigation and making changes to settings
− A Compact Flash Card makes data exchange particularly easy
− The DIRECT ACCESS button provides direct access to the last menu setting. It also offers fast access to the image from the camera

CEBIS on the road.

1 Menu bar
2 Travel speed and rpm
3 Operating hours
4 Fuel level and temperature display as well as contamination level of diesel particulate filter (DPF)

CEBIS in the field.

5 Throughput monitoring
6 Area scaling and yield metering
7 Driving information (up to 40 displays freely selectable)
8 Message window (for alarms and information)
9 Front attachment position (AUTO CONTOUR/ cutting height)
10 Returns check (volume/quality)
CMOTION. One control, greater comfort.

The multifunction control lever, which is integrated in the right armrest of the operator's seat, plays a key role in making the Lexion so user-friendly and comfortable for the operator. The CMOTION has been specially developed for ergonomic operation by the right hand. The innovative, three-finger control concept allows several functions to be controlled intuitively without having to reposition one's hands.

1. Extend grain tank discharge auger
2. Retract grain tank discharge auger
3. Grain tank offloading on / off
4. Cutterbar stop
5. Reel operation
6. Front attachment height control
7. AUTO PILOT (guidance, CRUISE PILOT)

Another toggle switch (8) is situated on the back of the multifunction control lever. With three functions assigned to it, this switch enables either manual lateral control of the cutterbar, changes to values in the HOTKEY menu or manual adjustment of the VARIO cutterbar table.

The choice is yours: multifunction control lever or CMOTION

Toggle switch (8) with triple function
Performance optimisation in CEBIS.

CEBIS allows you to access crop-specific data for the combine and automatically adjust its basic settings. For optimising performance afterwards, CEBIS has a library of measures for various problem cases for all LEXION models.

For example, if sieve losses are too high, the first measure suggested by the system is to open the upper sieve by increments of 1 mm. For this case alone, CEBIS offers eight possible actions which can be performed manually by the operator.

In this way, the operator is provided with comprehensive assistance to get the most from the installed capacity of the machine.
A full overview with just a click of the mouse.

The CLAAS TELEMATICS feature enables you to access all the important data for your combine any time, anywhere via the internet. Enjoy the benefits of TELEMATICS.

Optimise your settings.

Use your personal access to the TELEMATICS web server to quickly compare the performance and harvesting data for your machines so that you can fine tune the settings for the best results under all conditions every day.

Improve work processes.

A report with the operating time analysis and other important evaluations of the machine is sent to you by e-mail each day. This enables you to review the specific data from the previous day and determine when and how efficiently the combine operated before you start work again. In addition, the working tracks of the machine can be viewed together with the event log in order to optimise the transport logistics. TELEMATICS enables planned fleet management and helps avoid unprofitable idle time.
Simplify documentation.

Use TELEMATICS to export the relevant data to your field catalogue and save valuable time. Transfer data on area-specific yields, for example.

Faster service with CLAAS remote diagnostics.

With your consent, TELEMATICS can transmit maintenance and repair data to your CLAAS sales partner. This enables your CLAAS partner to carry out an initial analysis via CDS Remote - when required - to find the causes of faults more quickly and to make optimum preparations to assist you on site as quickly as possible.

Automatic documentation.

This function automatically documents and processes all process data. As an extension to TELEMATICS, automatic documentation transfers (without any intervention by the machine operator) the work data relating to the specific field deployment to the server, where they are interpreted and processed. Data interpretation and processing are based on the field boundaries previously uploaded from your system. Further processing is straightforward, as all machine-relevant data can be exported in IsoXML format.
More potential when you need it.

Fast data processing.

With its extremely fast on-board network, the LEXION is already prepared to meet the far-reaching challenges of the future.

A wealth of information can be printed whenever required.

The working tracks picked up by GPS can also be displayed in CEBIS.
Job management.

You can manage your jobs with CEBIS. Moreover, with AGROCOM MAP START software from CLAAS you can prepare customer and parcel data to be run and processed with CEBIS.

- All data is backed up when a specific task is completed or the working day comes to an end
- The data can be printed out on the combine or transferred with a data card
- All data can be viewed and processed further on a PC
- Daily counts, crop counts and total counts can also be displayed and printed in CEBIS

Yield mapping.

Building on the foundation of the job management functions, you can use your LEXION to perform yield mapping. Sensors in the LEXION measure the yield and grain moisture while CEBIS adds geographic coordinates using GPS satellite data.

All measurements are stored on portable chip cards to facilitate transfer. AGROCOM MAP START software is included to enable you to produce informative yield maps to use as a basis for your future production strategy.

CRUISE PILOT: automatic forward travel control.

The CLAAS CRUISE PILOT automatically controls the harvesting speed for the best results on the basis of the engine load. Depending on the travel mode, the system uses various machine parameters simultaneously for control: ground speed, crop volume in the feeder housing and grain losses.

The following travel modes are available, the parameters always being adjusted on the basis of the engine load:
- Constant speed – specified target speed
- Constant throughput – specified target throughput
- Constant throughput with losses – specified target throughput and loss rate

The factor responsible for restricting the harvesting speed, e.g. engine load, losses or throughput, is indicated in CEBIS.

To enable superior control of the LEXION’s power, you can set a maximum speed and five control response levels with quick, easy operation via the HOTKEY.

You benefit from the CRUISE PILOT’s anticipatory working behaviour, which responds before peak system loads occur. This keeps your LEXION running automatically at the upper limit of productivity at all times and gives better harvest results.
More precise guidance.

LASER PILOT.

The electro-optical sensors of the LASER PILOT use pulses of light to scan between the crop and stubble and guide the LEXION automatically along the edge.

The LASER PILOT can be folded away for transport and is available for both the left and right side of the cutterbar. Its optimal positioning on the cutterbar side close to the crop edge enables a good viewing angle and ensures high functional reliability even with laid crops and slopes.

AUTO PILOT.

Two digital sensors, incorporated in one of the picker units, record the position of the LEXION and automatically guide it on the best path through the rows of maize in all field conditions. In this way, AUTO PILOT contributes to greater performance and efficiency.

Choose from three automatic guidance systems.

All the LEXION models can be equipped with three automatic guidance systems which can be selected as needed according to application.

- GPS PILOT – the satellite-supported guidance system
- LASER PILOT – the electro-optical guidance system
- AUTO PILOT – the electro-mechanical guidance system

The way you want it.

Portable displays from CLAAS offer a flexible control option for ISOBUS and guidance 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 LEXION with the equipment you need, straight from the factory or as a retrofit option:

- S10: high-resolution 10.4” touchscreen terminal with guidance and ISOBUS functions: up to four cameras can be viewed
- S7: high-resolution 7” touchscreen terminal with guidance functions
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.

How you benefit.

- High functional reliability and safety regardless of visibility conditions
- Optimal use of the full width of the cutterbar
- Greater precision for mapping areas and yields
- Reduced fuel consumption
- Reduced turning times
- Increased seasonal performance
- Significant reduction in workload for the operator, enabling greater concentration on threshing

GPS PILOT FLEX.

The GPS PILOT can be used not only with hydraulically actuated steering, but also with the GPS PILOT FLEX automatic steering wheel. This steering wheel allows you to operate the machine with a high degree of accuracy. The great advantage of the GPS PILOT FLEX is its versatility.

- No need to touch the hydraulics
- Guidance system can quickly be moved between different machines

The electric steering wheel transfers steering commands from the terminal and navigation controller to the steering axle in order to steer the machine.
Committed to meeting diverse harvesting requirements.

The cutterbars.

Greater scope for matching your requirements. Whatever the harvesting task, your LEXION is ideally equipped.
CERIO / standard cutterbar

VARIO cutterbar

Rapeseed cutterbar

Rice cutterbar

Folding cutterbar

FLEX soybean cutterbar

CONSPED / CONSPED LINEAR

SUNSPEED

SWATH UP

MAXFLO
More performance from the feeder.

Universal feeder housing.

The universal feeder housing works for all crops, avoiding time-consuming changeovers. A shallow intake angle to the threshing parts facilitates optimal crop flow. Rugged intake chains with feeder slats ensure high stability, and a replaceable wear plate guarantees long service life. There is a hydraulic ram on both the right and left sides for controlling the AUTO CONTOUR.

The feeder housing can be equipped with an additional middle support roller. Greater support of the feeder slats in the guide roller increases stability and optimises the guidance of the chain. In addition, an enclosed guide roller is available for use in dry and low-straw conditions.

HP feeder housing.

The HP (header pitch) feeder housing allows fast and simple manual or hydraulic adjustment of the cutting angle to adapt to all field conditions. From the central position the cutting angle can be moved 8° back and 11° forward.

Cutterbar brake.

Effective protection against foreign bodies and other causes of damage: the cutterbar brake (1) allows the front attachment to be stopped immediately if necessary by means of the multifunction control lever. As the cutterbar brake is fitted directly on the feeder housing, only a small mass has to be braked. This means less braking torque and less wear.

Hydraulic reverse.

Blockages are taken care of easily; the hydraulic system (2) enables protective reversing with high starting torque. The hydraulic reverse can be actuated conveniently with a toggle switch in the cab. The direction of rotation of the hydraulic reel drive also changes automatically, providing additional support for the reversing procedure.
Straight cutterbar drive.

Reduce fuel consumption without reducing power – the straight cutterbar drive plays a key role in making this possible. The great benefit of this design is that it allows the power to be used to the full. Combine performance is increasing all the time, and with it the volume that has to be transported through the feeder housing. Drive systems have to be able to meet these growing requirements.

The LEXION drives impress with outputs of 80 kW (constant), 120 kW (variable), or 150 kW (step drive) as well as variators with belts up to 51 mm wide and powerbands with up to four grooves. This means that CLAAS is able to offer the right drive for every application profile and can therefore ensure top throughput rates.
More good reasons for CLAAS attachments.

Cutterbars for every crop.

In all harvest regions around the world, there is a CLAAS cutterbar to handle the job for any threshable crop: grains like wheat, rye, barley, oats and triticale or rapeseed, maize, sunflowers, rice, soybeans, flax, beans, lentils, grass and clover seed or millet. Benefit from the unique combination of high-quality performance and equipment features.

Replacement knife bar and crop lifters.

All CLAAS cutterbars are factory-equipped with a replacement knife bar. The knife sections are made of hardened material and are therefore extremely durable.

The use of crop lifters enables loss-free pickup of laid crops in particular while reducing the intake of stones. Crop lifter replacements can be carried conveniently on the rear side of the cutterbar.

MultiCoupler.

The central connection coupling for all the hydraulic and electronic connections to the cutterbar.

- You gain valuable time due to shorter attachment and removal procedures
- No danger of confusion thanks to the integrated design
- Easy to connect, even under pressure
- Environmentally friendly with no oil leakage

Central locking system.

A single lever on the left side of the cutterbar operates all locks simultaneously.

Automatic soft start system.

Gradual running up of the cutterbar avoids peak loads on drives.

Hydrostatic reel drive.

A variable displacement pump on the basic machine supplies a maximum torque of 1000 Nm at the reel. The reel speed is automatically adjusted independently of the ground speed.

- Plenty of pulling power thanks to high torque
- Greater efficiency than gear pumps
- A closed hydraulic circuit ensures better reel rotation
- Fast adjustment of the reel speed
- Large reel clearance height
Versatile road transport trailers.

Like the cutterbars themselves, the CLAAS trailers are also extremely versatile. Once the supports have been adjusted, every SUNSPEED and certain CONSPEED and CONSPEED LINEAR models can be transported safely. This means that you can transport up to four different front attachments with just one trailer - and save on costs and storage space at the same time.

Single-axle trailers are available for cutterbar widths of 3.7 m to 6.6 m; single and twin-axle trailers are available for cutterbars 7.5 m wide and twin-axle trailers are available for cutterbar widths from 9 m to 12 m. Depending on the specific trailer, braked and unbraked variants as well as 25 km/h and 30 km/h variants are available. With the LEXION 670 TERRA TRAC, for example, you can transport your cutterbar safely at 30 km/h.
More impressive performance in rapeseed.

Even crop flow.

The VARIO high-performance cutterbar feeds the crop evenly to the threshing system. This is the only way to enhance performance and fully utilise the machine’s technical performance potential. Furthermore, it reduces fuel consumption and helps the operator to boost productivity significantly. Additional advantages include:

- Adjusts to handle different stalk lengths perfectly
- High RPM stability in the engine, threshing and separation units and the cleaning system
- Extremely consistent performance
- No load peaks in the threshing equipment
- Protection of the drives

High-performance cutterbar V 1050.

- Robust drive concept with dual-sided, synchronised knife drive for optimum low-noise operation
- Linear drive of the divided knife makes for an increased cutting frequency of 1344 strokes per minute
- Centre-bearing supported reel and intake auger for greater stability and optimal crop flow
- Larger 660 mm diameter intake auger for significantly improved anti-wrapping protection and better crop uptake
- Externally adjustable stripper bars for reliable crop flow
- AUTO CONTOUR multi sensor bands for cutterbar guidance: this comprises three pairs of sensor bands at the left, right and centre of the cutterbar
– Enhanced reel design with optimised reel tine carriers and bearings for significantly reduced risk of wrapping
– Hydraulic pump for rapeseed knives that can be switched on and off to reduce the power required and so reduce wear
– Overload protection features protect against damage

Rapeseed requires particular attention.

Ripe rapeseed pods need careful handling during threshing, because they often burst and grains scatter in all directions. Thus the rapeseed deflector and extension are indispensable parts of the rapeseed equipment on VARIO cutterbars to minimise losses. The rapeseed kit can be stored in a box on the trailer for road transport, saving a great deal of weight on the cutterbar.

The right cut.

For grain harvesting, the cutterbar table can be extended by up to 20 cm or shortened by as much as 10 cm to keep the crop flow even and ensure efficient, trouble-free working.

For rapeseed, the cutterbar table can be moved forward by 50 cm – the integrated rapeseed table is ready in no time.

Hydraulically driven side cutters on the right and on the left (the latter can be switched on and off at will) can be fitted quickly and easily without additional tools.

The knife bar comes with an integrated hydraulic drive.
The new generation of CLAAS VARIO and CERIO cutterbars.

VARIO 930 / 770 – The success story continues.

With its two new models, the V 930 and V 770, CLAAS has made systematic enhancements to its proven VARIO cutterbars in order to provide increased throughput, a better crop flow, high reliability, a reduced maintenance requirement, greater flexibility and more comfort/convenience.

The highlights at a glance.

– Integrated rapeseed plates allow infinite adjustment within a range of 70 cm
– Diameter of the intake auger: 660 mm
– Intake auger and knife bar mechanically driven via gearbox and drive shaft
– Reel with optimised reel tine carriers, wear-resistant tine tube bearings and a new design to reduce stalk take-up
– Quick-release mounting system allows dividers and rapeseed knives to be fitted/removed without the need for tools
– Hydraulic pump for rapeseed knives switches off automatically
– LASERPILOT can be folded and adjusted without the need for tools
– Stripper bars adjustable from the outside
– Automatic parking position at the touch of a button
– Angled cross-tube for a better view of the cutterbar table from the cab
Ready for rapeseed harvesting with just a few adjustments.

Converting the V 930 and V 770 cutterbars to harvest rapeseed takes only a matter of minutes. The process involves nothing more than replacing the dividers with the rapeseed knives – a task which can be carried out without the need for tools thanks to the two quick-release mounts. Inserting the rapeseed knives automatically activates the hydraulic pump which drives the side knives. The connection is made simply by means of two flat-seal connectors. An additional cover is fitted on the right-hand side to keep the losses in rapeseed to a minimum.

The end positions of the table and reel are also transmitted automatically from the cutterbar to the combine. Even with the rapeseed equipment fitted, the table can be extended or retracted by 20 cm. The rapeseed knives are carried in a box on the transport trailer and are therefore available for use at any time.

NEW: CERIO 930 and CERIO 770.

Based on the new VARIO cutterbars, the CERIO model series is an alternative for grain harvesting. The table of the CERIO cutterbars can be adjusted manually from – 10 to + 10 cm in order to optimise the crop flow. The adjustment is made by loosening ten bolts in order to allow the table to slide in or out.

The entire frame, the intake auger, the drives and the reel of the CERIO cutterbars are identical to those of the VARIO model series. Similarly, the CERIO cutterbars are equipped with the automatic reel parking function.
More adaptability.
Convenient folding.

Premier division: the folding cutterbar offers numerous advantages.

Narrow roads, challenging lanes, heavy traffic: with its folding cutterbar, the LEXION lets nothing stand in the way of top daily output. The folding cutterbars do away with the need to attach and detach the cutterbar, ensure optimal handling during travel with outstanding visibility and facilitate transfers from one field to the next with practically no interruption in productive working.

How you benefit:

− No additional trailer necessary
− Drastically reduced set-up times
− Tremendous savings of time and costs
− Extremely easy operation
− High operational reliability
− Safer in road traffic
− Greater efficiency
− Better scheduling
Rice cutterbar | Flex cutterbar | Folding cutterbar

Dual blade knife bar.

Rice stalks are extremely tough. To achieve clean, top quality cutting results at a high rate in this hard, unforgiving crop, all the rice cutterbars are equipped with a dual blade knife bar. The specially hardened knife blades are particularly durable.

Hardened intake auger.

The intensive irrigation of rice fields leads to high levels of dirt particles on the plants, which is particularly tough on combines during harvesting operations. To protect against wear, the edges of the hardened intake auger are sintered. Special deflectors on its sides reliably prevent wrapping. Altogether, these features ensure smooth crop flow and high throughput.

The new V 930, V 770 and CERIO cutterbars are also available as HD versions. A rice harvesting system is available for retrofitting.

FLEX cutterbar:
down-to-earth quality.

Legumes such as soybeans grow in pods close to the ground. Thus to prevent substantial losses during harvesting, the crops must be cut as close as possible to the ground to ensure that every last pod gets picked up by the machine.

FLEX soybean cutterbars by CLAAS are equipped with a flexible knife bar that automatically adapts to the slightest ground contours. The knife bar can flex up to 100 mm. The intake auger, reel and knife bar are divided. Together with the cutting angle adjustment on the HP feeder housing, this prevents intake losses under all field conditions.

These cutterbars are also suited for peas and other specialised crops such as clover.

The deflector protects against wrapping

Hardened intake auger
Committed to higher picking performance: CONSPEED and CONSPEED LINEAR.

Picking at a high rate while handling the ears of maize gently has a critical influence on the combine’s throughput. The CONSPEED and CONSPEED LINEAR maize pickers meet these requirements and are optimally adapted to the performance of the LEXION. The display of the snapping plate spacing in CEBIS is also ideal.

Make the most of the maximum efficiency of the CONSPEED:

- Snapping rollers with tungsten carbide coated knives
- Electrohydraulic snapping plate adjustment
- Horizontal chopper
- Reliable drives using only shafts and gears
- Durable, non-corroding plastic covers
- Automatic machine guidance via AUTO PILOT
- Simple rpm adjustment
- Can be adapted to all field conditions

A horizontal rotating knife under each snapping unit chops stalks finely so they will decompose quickly.
The CONSPEED principle: conical snapping rollers.

Each picker unit has a compact, integrated gearbox for the snapping rollers, intake chains and the chopper. Each drive unit is individually protected against overload. The picker speed can be adjusted continuously using a front attachment variator. The conical snapping rollers are a particular feature of the CONSPEED. They first pull the maize plants down slowly so the ears contact the snapping plate slowly. The rest of the plant is then drawn down quickly. This design ensures a high picking rate with careful handling of the ears and low grain loss.

Convenient transport to the field and back.

The individual picking units of the hinged 6 and 8-row CONSPEED and CONSPEED LINEAR fold in hydraulically to a transport width of only three metres. This operation is performed from the cab.

The CONSPEED LINEAR principle: linear snapping rollers.

The CONSPEED LINEAR maize picker is driven by spur gears which provide six different picker speeds simply by exchanging two gearwheels. The straight, linear snapping rollers are set forward and are thus particularly rugged.

CONSPEED LINEAR sunflower kit.

The CONSPEED LINEAR maize picker can be converted for sunflower harvesting with a kit. This involves mounting knives over the snapping rollers as well as adding lateral cover extensions and an attachment on the back of the CONSPEED. The chain is turned and the guide changed.
The effective SUNSPEED principle.

The SUNSPEED sunflower cutterbar was developed with the goal of achieving maximum output per unit area with the lowest losses. Particular attention was paid to keeping set-up times as short as possible and making the system extremely easy to operate.

The sunflower stems are first captured by the shuttles. An adjustable guide plate ensures that the sunflower heads are pushed to the front. At the same time, the snapping roller under the knife bar pushes the stalks down. It is impossible for them to be cut too early as this only takes place once the special reel has captured the sunflower heads. The precisely cut heads are then passed to the intake auger and feeder housing. The entire process is conducted on a row-independent basis in the most diverse harvesting conditions and ensures a high level of grain cleanness and low wear.
SUNSPEED adapts.

- Reel height and speed can be adjusted hydraulically
- Adjustable guide plates keep the stalks securely positioned so only the sunflower seed heads are harvested
- The gap between the shuttles can be adapted to the relative stalk diameter via adjustable rails – nothing gets jammed and harvesting runs like clockwork
- The angle of the shuttles is also adjustable, so they can be adapted to the most diverse harvesting conditions

The specialist: SWATH UP.

In areas which are unsuited to direct threshing the LEXION once again proves its reliability under all imaginable conditions. The SWATH UP enables nearly all windrowed crops to be picked up. This is an extraordinarily efficient concept, particularly for crops such as rapeseed and grass seed.

Perfect pick-up at high speeds.

Two consecutive conveyors pick up the crop. The first belt equipped with plastic tines ensures a clean pick-up; the second belt then conveys the crop flow to the intake auger. Thanks to the large overlap between the two belts, the crop reaches the feeder housing without any losses. The straightforward design ensures long operating times and a low maintenance requirement.
An exceptional transport system.

The MAXFLO proves its special efficiency above all in places with average yields. The idea is simple: the crop is cut by the knife bar and brought to the feeder housing on conveyor belts as opposed to the usual combination of cutterbar and intake auger. This principle ensures that even low quantities of material are harvested reliably.

Unlike the usual systems.

In the middle of the cutterbar, the crop is not brought to the feeder housing on a belt running in the direction of travel. With MAXFLO, feed augers mounted laterally on the intake auger pick up the material and with the support of a guide element deliver it in a cam track to the intake auger and from there to the feeder housing. This design from CLAAS ensures a particularly even flow of crop.

The speed of the feed belts can be adjusted continuously in CEBIS.
How the technology works.

- The drive to the synchronised, counter-directional knives is transmitted by drive shafts on the left and right on the feeder housing
- The feed augers in the cutterbar are driven by gears or hydraulically
- The speed can be adjusted to three settings (150, 200 and 250 rpm)
- The speed of the feed belts in the cutterbar can be adjusted infinitely from the cab by means of CEBIS
- The belts can be reversed
- An overload safety feature protects the linear synchronised knife drive from damage
- The unique form of the centre-bearing supported reel prevents the crop from wrapping
- Rapeseed equipment can also be fitted

Cutterbar guidance with sensors.

Up to six sensor bands on the bottom side of the cutterbar are used for AUTO CONTOUR control and cutterbar guidance. The additional chassis on the MAXFLO absorbs shocks to the cutterbar with a hydraulic cylinder and nitrogen pressure reservoir.

Two in one.

In regions where direct threshing is impossible, the MAXFLO can be used as a swather. A quick, simple changeover enables the MAXFLO to lay the whole crop in a swath:

- Remove the feed auger in the cutterbar
- Move one of the two feed belts with back panel to close the opening of the feeder housing
- Change the direction of one of the two belts so both move laterally in one direction

Swathing is possible to the right or left. The result is an ideal windrow that can be collected later by the SWATH UP.
More intelligence for the cutterbar.

CLAAS CONTOUR ensures excellent adaptation to ground contours.

The cutterbar with CLAAS CONTOUR adjusts automatically to ground irregularities along the direction of travel. You select a contact pressure and CONTOUR ensures that it will be uniformly maintained. Every time the cutterbar is lowered, the preselected cutting height ensures that the specified cutting height is always found automatically.

AUTO CONTOUR: faster and more accurate than ever.

AUTO CONTOUR goes a step further by compensating all ground irregularities, including those which are transverse to the direction of travel. Sensor bands below the cutterbar provide early detection of undulations and trigger the corresponding cutterbar rams on the feeder housing.

- Electronic sensors detect the hydraulic pressure in the system and react quickly
- Valve-controlled, nitrogen-filled accumulators ensure optimal shock absorption with front attachments of different weights

With fully automated comparison of the current status and the setpoint, the AUTO CONTOUR adapts the cutterbar position optimally to the terrain. This greatly simplifies the work of harvesting, particularly with large cutting widths, at night, with laid crops, on side slopes and rocky ground. AUTO CONTOUR helps to increase performance and to make the use of the LEXION pay even greater dividends.

Automatic reel control.

The RPM of the reel and thus its speed adjust automatically and proportionally to the ground speed. The operator can select and save various settings for the ratio of ground speed to reel speed. The reel speed can be adjusted continuously between forward, synchronous and after-running. A digital RPM sensor ensures absolutely exact adjustment of the rotation speed.

Different working heights of the reel can be saved and recalled for various cutting heights. But the reel height can always be adjusted directly.
VARIO automation.

The VARIO cutterbar with automated reel control enables the reel levelling and table position to be saved and recalled by activating the automatic cutterbar control. Manual adjustments can also be made.

Parking position for the V 930 and V 770.

A touch of a button is all it takes for these two VARIO cutterbars to move into the parking position for mounting on the road transport trailer or, after coupling, to move straight into the working position. The threshing system must be switched off before this function can be used.

Automated cutterbar control.

- CONTOUR / AUTO CONTOUR
- Automatic reel speed
- Automatic reel height
- Automatic reel levelling (VARIO only)
- Automatic table position (VARIO only)
- Automatic parking position (V 930 and V 770 only)

Sensor bands detect the position of the front attachment.
Committed to productivity. 
APS with straw walker technology.

More ideas and intelligent solutions that create an integrated system incorporating superior technology. For outstanding seasonal performance.
Threshing system
Unique APS threshing system.

Only CLAAS offers this outstanding high performance patented system with a pre-accelerator in the threshing unit. The decisive competitive edge of CLAAS appears well before the threshing drum, with dramatically improved acceleration of the crop flow from 3 m/s to 20 m/s, which triggers a chain of extremely efficient processes:

- The pre-accelerator separates the crop more thoroughly
- The crop flow is particularly even and up to 33% faster
- Higher centrifugal forces sort considerably more grain
- Up to 30% of all grains are already sorted in the pre-separation concave directly below the accelerator, significantly reducing the load on the main concave

Thus there is a net performance increase of up to 20% with no rise in fuel consumption.

For more information, please visit: go.claas.com/newlexion
Top quality grain with the APS system.

The APS system is equipped with multistage adapters for optimal deawning. With the intensive threshing component and the deawning plates, which can be engaged in just seconds via a lever on the feeder housing, APS ensures outstanding grain quality.

Overload protection increases daily output.

The concave is adjusted hydraulically from the operator’s seat. Parallel concave control provides the best quality of threshing. At the same time, integrated hydraulic overload protection reliably prevents damage from foreign objects and enables you to use the full capacity of the machine without risk.

Closed threshing drum.

Along with the open rasp bar threshing drum there is a closed threshing drum available which can be used for any crop and is distinguished by its optimised crop flow, which ensures even more protective handling of the crop, as well as improved grain quality.

Synchronised function.

The accelerator, threshing drum and impeller can be driven by a central variator. Each change in drum speed causes a corresponding adjustment of the speed of the accelerator and impeller.

The result is protective crop handling with even crop flow throughout.

MULTICROP concave.

The pre-separation concave is designed as a MULTICROP concave so it can handle all types of crops. The three concave segments can be changed rapidly, minimising changeover times between crops and maximising efficiency and profitability.

The large stone trap is easy to open from the side and is self-emptying.

Segments can be changed quickly thanks to the MULTICROP concave
Effective straw walker technology.

The APS threshing system operates so efficiently that only about 10% of the grains run through the residual grain separation stage in the LEXION. 90% of the grains have already been separated from the straw by APS.

The even flow of straw on the open-bottomed straw walkers with an extreme gradient angle ensures that practically all the grain is separated from the straw.

A separate returns pan sends the grains on their way to the preparation floor.

Residual grain separation occurs on a total length of 4400 mm across four straw walker steps. The LEXION 670 and 650 models are equipped with six straw walkers. Centre and side extensions are available. Even large volumes of straw are transported quickly and easily.

For more information, please visit: go.claas.com/newlexion
MSS loosens things up.

Thorough loosening of the straw mass is critical for high separation efficiency, particularly under difficult field conditions such as wet straw or green growth. This is why all LEXION straw walker combines are equipped with the multifinger separation system (MSS), a drum with controlled tines positioned over the straw walkers. It ensures effective residual grain separation under all conditions.

MSS increases output.

MSS actively fluffs the crop with multiple controlled tines which dig into the straw. The tines reach in to the mat of straw from above and aerate it whilst simultaneously speeding it up and effecting active control of the crop flow. The straw mat is thinned, making it easier for the remaining grains to fall out. The available length of the straw walkers is used more effectively, whilst the structure and quality of the straw is optimised. The operation speed of the tines can be adapted to differing harvest conditions.

Fast, easy adjustment of the tines.
More thorough cleaning. For impressive results.

Electric sieve adjustment

Divided preparation floor that can be pulled out towards the front

Two-stage pre-cleaning.

A dual-ventilated straw walker step ensures intensive pre-cleaning. The multi-stage turbine fan, which is continuously adjustable from the cab, creates the necessary air flow. The fans ensure constant air pressure with uniform distribution, even with varying sieve loads, effectively increasing the cleaning capacity.

Preparation floor.

Pre-sorting of the grains (bottom) and chaff and broken straw (top) takes place on the preparation floor. The resulting reduction in the load on the upper sieve increases the cleaning capacity. The six individual plastic elements can be easily pulled out to the front for cleaning the preparation floor after harvesting is completed.

Electric sieve adjustment.

For convenience, even the sieve can be adjusted electrically from the cab.

- Easy and convenient
- No need to exit the cab
- Immediate result monitoring

For more information, please visit: go.claas.com/newlexion
The 3D-cleaning system.

- Dynamic side slope levelling via active control of the upper sieve
- Completely consistent performance on side slopes up to 20%
- No wear - completely maintenance free
- Fast, simple retrofitting
- Together with the AUTO CONTOUR, it is the ideal "hillside package"

Returns and the GRAINMETER.

The fill level and composition of the returns enable conclusions to be drawn about the best equipment settings to use. The cab also enables the operator to view the well-lit returns directly whilst seated.

In all LEXION models, the fill level indicator (1) can be complemented by the GRAINMETER. The electronic returns quality display also allows convenient checking of the proportion of grain (2) in the returns in CEBIS.

This data enables the operator to optimise the equipment settings manually to utilise the full production capacity of the LEXION.
More grain in the tank.

Grain tank capacity of up to 11,000 l.

After the threshing, residual grain separation and cleaning systems have done their work, the cleaned grain is collected in the expandable grain tank. With the volume now increased once again to as much as 11,000 litres, the LEXION demonstrates its capacity for high productivity, enhanced by many other strengths.

The choice is yours.

With the LEXION, you can select whichever grain tank capacity best meets your requirements:

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharging rate (l/s)</th>
<th>Grain tank capacity</th>
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<tbody>
<tr>
<td>LEXION 670</td>
<td>110</td>
<td>10000</td>
</tr>
<tr>
<td>LEXION 650</td>
<td>110</td>
<td>9000/10000</td>
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</table>

PROFI CAM – everything in view.

All LEXION models can be equipped with a PROFI CAM at the end of the grain tank discharge auger tube. This camera position has been chosen precisely to allow up to three processes to be monitored simultaneously on a colour display from the comfort of the cab:

- Grain tank discharge auger tube deployed: transfer process
- Grain tank discharge auger tube retracted: distribution of chopped material
- Grain tank discharge auger tube retracted: rear of machine during reversing or on-road operation

Up to four cameras can be connected to the system and simultaneously feed their images to the colour monitor in the cab.
CEBIS rear camera.

The image from the camera fitted on the rear hood is fed straight to the CEBIS screen. There is no need for an additional screen in the cab.

The image from the camera is displayed automatically on the CEBIS screen as soon as the multifunction control lever or CMOTION is used to move the LEXION backwards (1). It is also possible to use the DIRECT ACCESS button (2) to call up the image from the camera.
More effective spreading.

Efficient power spreader.

The power spreader ensures perfect, top-quality straw spreading with two counter-directional discharge rotors. The entire mixture of chopped material and chaff is removed from circulation, accelerated once more and evenly distributed across the entire working width. Performance map controlled motion of the inner and outer deflectors ensures optimal spreading quality.

All this enables the LEXION to achieve efficient straw spreading with a minimal use of power, even under such unfavourable conditions as heavy straw volumes, high side winds or steep slopes. The spreading width can be adjusted overall and for each side individually in CEBIS.

Fast-drying swaths of straw.

Thanks to the protective threshing and separation process, the straw retains its full original structure, which is ideal for high-bedding straw. When the straw chopper is switched off, the swath is laid loosely, allowing it to dry quickly and be baled easily.

For more information, please visit: go.claas.com/newlexion

The chopper is set for straw deposition electrohydraulically at the push of a button.
Convenient yield checking.

The large window in the back wall of the cab allows convenient visual inspection of the harvested crop. The interior of the grain tank is illuminated for work at night. An inspection port provides constant access so samples can be taken manually any time.

The sample cup, which is always to hand in the space provided in the inspection port, also serves as a calibration container for determining the bulk density.

The QUANTIMETER measures and checks.

The primary functions of the QUANTIMETER are throughput measurement, moisture content measurement and data display in CEBIS. The throughput measurement is grain-specific. The moisture content of the crop is monitored continuously and displayed upon request.

During the volume measurement in the grain elevator, a photo cell records the filling of the individual paddles. Using appropriate correction factors, including the lateral and transverse tilt of the machine among other things, the QUANTIMETER automatically determines the precise quantity harvested.

All data are available in real time through TELEMATICS or can be printed conveniently via CEBIS. Fully automatic chain tensioning for the elevator is standard with the QUANTIMETER.
More effective spreading.

Automatic discharge direction adjustment.

All LEXION models with a power spreader can be equipped with two sensors for automatic adjustment of the direction in which the chopped material is discharged. The sensors are fitted on the light brackets at the left and the right of the machine. The operator can adjust the sensitivity of the sensors easily using CEBIS.

Automatic discharge direction adjustment when operating on sloping terrain.

When the machine is operating on sloping terrain, gravity keeps the sensors at the rear vertical at all times. The automatic discharge direction adjustment also enables consistent distribution of the chopped material across the entire working width (D) when operating on sloping terrain, thereby reducing the operator's workload.
Automatic crosswind compensation.

Crosswinds affect the discharge direction of the chopped material. This results in inconsistent straw distribution and chopped material at the crop edge which can inhibit the crop flow in the cutterbar (A). The remedy: sensors at the rear of the machine detect the strength of the crosswind and adjust the discharge direction of the chopped material to compensate. The advantages are therefore automatic, uniform distribution of the chopped material and a reduced workload for the operator (B).

Even chaff distribution.

From the sieve pan, the short straw and chaff are routed to the chaff spreader or the chaff fan. The chaff spreader is hydraulically driven and spreads the sieve pan discharge evenly behind the machine. The speed and spreading width can be adjusted individually with a flow control valve.

Chaff blower.

The chaff blower goes a step further. It receives the material and conveys it directly to the power spreader. This system has a distinct advantage: the chaff/short straw mixture, which can be as much as 25% of the total throughput, is fed to the active spreading system and distributed over the entire working width.

CLAAS straw management.
With SPECIAL CUT II.

From the straw walkers, the straw moves directly to the chopper, which can be varied in intensity depending on the conditions. Up to 88 closely arranged dual bladed knives, a cross blade and a bank of stationary blades are the recipe for finely chopped straw. The LEXION also has a swivelling grating element for the best straw chopping and spreading. The finely chopped material is subsequently fed to the power spreader.

1. Adjustable cross-cutter
2. Rotor shaft
3. Knives
4. Rasp bar
5. Adjustable friction concave plate
6. Adjustable stationary knife

Manual setting of the direction and width of spreading in CEBIS
Optimal drive for maximum performance: CPS.

At CLAAS, machine development means an ongoing effort to achieve even greater efficiency and reliability as well as greater profitability in the field.

Of course, this applies to all aspects of a CLAAS combine harvester. The drive system is of decisive importance – and requires much more than just a powerful engine.

In CLAAS POWER SYSTEMS, we have brought together the best components to create a drive system in a class of its own. One that always delivers the greatest power when needed. Ideally matched to the work systems and with fuel-saving technology that quickly pays for itself.

It goes without saying that the LEXION also embodies this development philosophy: the combination of experience gained over 75 years of combine production and 15 years of LEXION development has resulted in the best ever CLAAS drive system that delivers the best working results.

More technological landmarks and engineering refinements: for maximum reliability even under extreme conditions. The LEXION is ready.
Advanced, high-performance engines.

Outstanding power delivery with low fuel consumption is assured by high-performance Caterpillar engines with the hydraulic electronic unit injection (HEUI) system. The pressure, timing and duration of injection are determined by the engine control unit independent of the speed. This gives the LEXION enough power to handle long, productive jobs easily, even under difficult field conditions.

- CAT C 13 engine with displacement of 12.5 l
- CAT C 9.3 engine with displacement of 9.3 l (LEXION 650)
- Emissions standard Stage IIIA (Tier 3)
- Optimised combustion process
- Improved engine running characteristics
- Low fuel consumption
- Optimal power transmission
- Up to 800 litre fuel tank capacity
- Tested by CLAAS POWER SYSTEMS

The fuel tank: capacity of up to 800 l
Planar dust extraction.

Already proven in the LEXION 700 series, planar dust extraction now also ensures high-performance cooling in the 600 models with plenty of reserve cooling power.

As air is being drawn in at the top, an automatic dust extraction system ensures continuous cleaning of the radiator. The dust is extracted downwards. Soiling of the cooling fins is reduced significantly.

Enhanced performance calls for reserves.

Extremely high throughput requires corresponding reserves of power. The electronic engine control in the LEXION is able to deliver a power boost from the optimised engines if a drop in speed occurs. The engine power curve has also been optimised for even better power delivery with reduced fuel consumption and a rated speed of 1900 rpm.

For more information, please visit: go.claas.com/newlexion
More ground protection in the field.

Thoroughly proven in practical use.
CLAAS has offered its proprietary TERRA TRAC system for over 20 years and there are now countless TERRA TRAC drives in use around the world. The CLAAS TERRA TRAC has proven itself in practical use in the most challenging conditions time and time again.

At home on any road.
Today’s traffic conditions are making it increasingly difficult to transport large machines on public roads. What’s more, the authorised width of vehicles transported on public roads is restricted by the respective road traffic regulations of each country.

A total of three different TERRA TRAC tracks in three widths are available for the LEXION 670. This means that there is a suitable TERRA TRAC for every requirement.
A new dimension of comfort.

Your LEXION moves gently over the field on the sophisticated TERRA TRAC system which features independent suspension for all its components (drive wheel, land wheel and support rollers). This reduces shocks to the body and machinery, increases operator comfort and ensures better stability on curves.

Automatic level compensation. Hydropneumatic suspension.

- The hydropneumatic suspension can be raised or lowered during operation by filling or emptying the hydraulic rams
- The drive wheel, land wheel and support rollers are counter-directionally pivot-mounted; hydraulic rams with an integrated pressure reservoir support the suspension
- This results in automatic levelling at speeds above 2 km/h for improved stability on corners

At a glance: the TERRA TRAC crawler track assembly.

Taking care of the soil and preventing compaction during harvesting means you won’t have to worry about crop loss in the future.

- Transport width 3.49 m
- Ground protection: 66% less pressure on the soil than with wheeled machines
- Improved traction (maize/rice/wet conditions/slopes)
- Greater stability on slopes (side slopes)
- Less drive resistance, less slippage, lower fuel consumption
- Longer operating times, better seasonal performance
- Completely suited for road travel at 30 km/h

Three different chassis heights can be set in CEBIS to adjust the machine’s ground clearance.

For more information, please visit: go.claas.com/newlexion
More speed on the road.

More time to work.

Every minute a combine harvester saves in road travel improves performance in the field. The LEXION 670 TT attains a top speed of 30 km/h on the road.

This means that your LEXION can travel from field to field quickly with a high level of driving safety, excellent comfort and outstanding directional stability. The system was recognised for these qualities in 2011 when it was awarded a silver SIMA Innovation Award. TERRA TRAC allows you to spend more time on the fields and significantly increases results for the season. Better adaptation to ground contours, uniform stubble height, less equipment stress and 30% lower ground pressure peaks make the difference clear. Soil protection means greater profit.

Hydrostatic ground drive.

The hydrostatic ground drive of the LEXION can be controlled extremely easily with the multifunction control lever without the need to operate a clutch or change gear. The series of hydrostatic drives is characterised by increased efficiency. You benefit, as the power saved is available for use by the rest of the machine, the overall result being more efficient operation.

All models have an electrohydraulic control system. Furthermore, the 670 and 650 can also be equipped with the CRUISE PILOT for automatic forward travel control. But whether used in manual or automatic mode, the LEXION drives like a luxury car with such a high level of operating comfort that performance is enhanced immediately.

Your option for extra power: all-wheel drive. Depending on the model, it is possible to select an on-road top speed of 20, 25 or 30 km/h.

For more information, please visit: go.claas.com/newlexion
When driving in road traffic, the LEXION 670 model automatically reduces the engine speed based on the position of the ground speed control lever for even lower fuel consumption during travel. Of course, the full engine power at rated speed is available when moving off.

A touch of a button is all that is required to summon up the full power of the LEXION to ensure that it can continue to operate in the most challenging ground conditions. The all-wheel drive works reliably and is maintenance-free. The two hydrostatic motors, which are notable for their increased efficiency, are fitted centrally in the axle.
Tyre technology for long-term ground protection.

Intensive joint efforts between CLAAS and renowned tyre manufacturers have led to the development of this tyre technology.

Outstanding benefits: the tyres improve on-road mobility. Their significantly greater contact area provides more traction, less slippage and lower fuel consumption for travel, and the lower tyre pressure reduces ground compaction, making a sustainable contribution to improving soil structure.

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>Standard tyres</th>
<th>MICHELIN CerexBib</th>
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<tbody>
<tr>
<td>680/85 R 32</td>
<td>2.9 bar</td>
<td>1.8 bar</td>
</tr>
<tr>
<td>800/70 R 32</td>
<td>2.4 bar</td>
<td>1.6 bar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>Standard tyres</th>
<th>SVT CH0 Continental</th>
</tr>
</thead>
<tbody>
<tr>
<td>800/70 R 32</td>
<td>2.4 bar</td>
<td>1.6 bar</td>
</tr>
</tbody>
</table>

Facts and figures:

- Tyre pressure can be reduced by between 0.6 and 1.1 bar with full load capacity compared to standard tyres of the same size – this represents a reduction of 35%
- The tyres have the contact area of standard tyres two sizes larger, providing 22% more ground contact with the same transport width
- Tyres on drive axle: 800/70 R 32 and 680/85 R 32, tyres on steering axle: 620/70 R 26 and 520/80 R 26

Reduced transport width with increased contact area
Low maintenance.

The LEXION also impresses as a model of restraint where maintenance requirements are concerned. Service intervals are long: 1000 hours for the oil in the working hydraulics. And when it’s time to do the job, easy access to all maintenance points makes the task fast and simple.

- The hinged radiator cover of the planar extraction system pivots all the way up
- Mobile, foldable ladder for simple access to the engine compartment and other maintenance areas
- Fully folding rear hood
- Compressed air system with compressed air hose and gun for convenient cleaning
- Lubrication banks for faster access to lubrication service points
- Storage box, for example for the toolbox
- Unique side panel design (aluminium sandwich construction) for even simpler access

The central lubrication system.

The central lubrication system supplies grease to practically all lubrication service points as required. Lubrication points and intervals only need to be programmed once. In contrast to individual manual lubrication, the grease is transported from the central reservoir and distributed to the lubrication service points.

How you benefit:

- Reliable and controlled lubrication of all points while machine is running
- Service life of pins and bearings is extended
- Cost savings through reduced grease consumption and reduced wear
- Reduced maintenance work and costs

Large maintenance doors at all points, lightweight and easy to open
More service from us.
More success for you.

In the best hands.
CLAAS dealers are among the most efficient agricultural technology companies 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.

CLAAS ORIGINAL.
Long live your machine.

Members of the First CLAAS Service teams from CLAAS sales partners worldwide are available round the clock to provide a full spare parts supply and reliable service. They are on hand to assist you at any time, with expert knowledge, experience and a genuine commitment to you and your machine, and can also supply CLAAS ORIGINAL parts, characterised by top quality, superb function and a long service life, within very short timeframes.

We’re there for you wherever you need us.

Our central parts warehouse in Hamm (Germany) delivers all CLAAS ORIGINAL parts quickly and reliably all over the world. The dense network of CLAAS dealers around the world ensures that parts reach their destination as quickly as possible – wherever you happen to be.

Invest in the best.
Invest in success!

Increasing cost pressure and narrow timeframes during the harvesting season call for measures with which you can ensure the availability of your machine – far beyond the first twelve months covered by the statutory warranty. With this in mind, CLAAS offers individual service products with easily predictable costs which ensure that you can count on a high degree of reliability and efficiency. With the CLAAS post-harvest check, maintenance contract and MAXI CARE (warranty extension) service products we can tailor a service package to meet your specific requirements. This allows you to work on the basis of predictable costs while minimising the risk of a machine breakdown.

TELEMATICS.

Thanks to TELEMATICS, our service staff have access to all the performance and electronic data of your CLAAS machine via GPRS and the internet. This means that problems can often be resolved remotely, thus reducing annoying downtime.
More equipment.
<table>
<thead>
<tr>
<th></th>
<th>Feature</th>
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<tr>
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<td>GPS PILOT</td>
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<td>2</td>
<td>Comfort cab</td>
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<td>3</td>
<td>CEBIS</td>
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<td>4</td>
<td>Folding dividers</td>
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<td>LASER PILOT</td>
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<td>6</td>
<td>MultiCoupler</td>
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<td>7</td>
<td>VARIO cutterbar table</td>
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<td>Hydrostatic reel drive</td>
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<td>AUTO CONTOUR</td>
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<td>Caterpillar engine</td>
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<td>MULTIFINGER SEPARATION SYSTEM (MSS)</td>
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<td>High-performance straw walker</td>
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<td>APS threshing system</td>
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<td>PROFI CAM</td>
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<td>SPECIAL CUT II chopper</td>
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<td>17</td>
<td>Chaff blower</td>
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<tr>
<td>18</td>
<td>All-wheel-drive axle</td>
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<td>19</td>
<td>3D-cleaning system.</td>
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<td>Tyre technology / TERRA TRAC</td>
</tr>
<tr>
<td>22</td>
<td>Turbine fan</td>
</tr>
</tbody>
</table>
More impressive results in any crop.
LEXION – a commitment.
The benefits.

Cab.
- The new soundproofed comfort cab provides an exceptionally quiet environment to enable you to focus on your work
- Visual returns check from operator’s seat and GRAINMETER for electronic monitoring
- EASY: CEBIS, CRUISE PILOT, automatic guidance and TELEMATICS ensure outstandingly convenient control and easy monitoring
- Yield mapping and measurement as well as comprehensive job management

Cutterbars.
- VARIO cutterbars in widths up to 10.67 m facilitate up to 10% better performance by optimising the crop flow
- NEW: V 930 and V 770 VARIO cutterbars with integrated rapeseed plates and a table with an adjustment range of 70 cm
- AUTO CONTOUR is an intelligently controlled cutterbar which automatically compensates for surface irregularities in the direction of travel as well as those in the transverse direction
- The standard and VARIO cutterbar, CERIO cutterbars, rice cutterbar, rapeseed cutterbar, folding cutterbar, FLEX soybean cutterbar, CONSPEED, SUNSPEED, SWATH UP and MAXFLO ensure high flexibility

Threshing technology.
- Up to 20% more throughput with the APS threshing system
- 11,000 litre grain tank, discharging rate up to 110 l/s
- 3D-cleaning system for slopes up to 20%
- Professional straw processing with SPECIAL CUT II and power spreader with automatic discharge direction adjustment for even spreading of straw over the entire working width

CPS – CLAAS POWER SYSTEMS.
- Caterpillar engines provide reliable reserves of power, even under the toughest field conditions
- High-performance working hydraulics for even faster operation of the AUTO CONTOUR cutterbar control
- TERRA TRAC and tyre technology for optimal ground protection
- Easy and convenient access to maintenance points

For more information, please visit: go.claas.com/newlexion
<table>
<thead>
<tr>
<th>Cutterbars</th>
<th>Front attachments</th>
<th>VARIO cutterbars: V 1050, VARIO 930, VARIO 770, V 660, V 600, V 540</th>
<th>CERIO cutterbars: CERIO 930, CERIO 770</th>
<th>Standard cutterbars: C 660, C 600, C 540</th>
<th>Rapeseed attachments: For all standard and VARIO cutterbars, not available for CERIO cutterbars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folding cutterbars</td>
<td>VARIO cutterbars</td>
<td>C 540, C 450</td>
<td>CERIO cutterbars</td>
<td>CERIO 930, CERIO 770</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Mize picker</td>
<td>VARIO cutterbars</td>
<td>6, 8 and 12 row</td>
<td>CERIO cutterbars</td>
<td>12 and 16 row</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>SUNSPeed</td>
<td>VARIO cutterbars</td>
<td>12 and 16 row</td>
<td>CERIO cutterbars</td>
<td>CERIO 930, CERIO 770</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>FLEX cutterbars</td>
<td>VARIO cutterbars</td>
<td>S 900, S 750, S 600, S 510, S 450</td>
<td>CERIO cutterbars</td>
<td>CERIO 930, CERIO 770</td>
<td>Standard cutterbars</td>
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<tr>
<td>MAXFLEX</td>
<td>VARIO cutterbars</td>
<td>1200, 1050, C 900</td>
<td>CERIO cutterbars</td>
<td>CERIO 930, CERIO 770</td>
<td>Standard cutterbars</td>
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<tr>
<td>Standard cutterbars</td>
<td>VARIO cutterbars</td>
<td>R 660, R 600, R 540, R 480, R 430</td>
<td>CERIO cutterbars</td>
<td>CERIO 930, CERIO 770</td>
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</tr>
<tr>
<td>VARIO rice cutterbars</td>
<td>VARIO cutterbars</td>
<td>V 930 and V 770 as HD versions with rice harvesting accessory pack, V 660, V 600, V 540</td>
<td>CERIO rice cutterbars</td>
<td>CERIO 930 and 770 available as HD versions with rice harvesting accessory pack</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>SAWTOOTH</td>
<td>VARIO cutterbars</td>
<td>SAWTOOTH UP, 450</td>
<td>Standard cutterbars</td>
<td>SAWTOOTH UP, 450</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Variable speed drive front attachment (electrohydraulic)</td>
<td>VARIO cutterbars</td>
<td>rpm 284–430</td>
<td>Standard cutterbars</td>
<td>rpm 284–430</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Front attachment slip drive</td>
<td>VARIO cutterbars</td>
<td>rpm 332, 420</td>
<td>Standard cutterbars</td>
<td>rpm 332, 420</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Standard cutterbars</td>
<td>VARIO cutterbars</td>
<td>Effective cutting widths V 1050 (10.67 m), VARIO 930 (8.22 m), VARIO 770 (7.70 m)</td>
<td>CERIO cutterbars</td>
<td>Effective cutting widths C 660 (6.68 m), C 600 (6.07 m), C 540 (5.46 m)</td>
<td>Standard cutterbars</td>
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<tr>
<td>Drive</td>
<td>VARIO cutterbars</td>
<td>Synchronised gear drives on both sides</td>
<td>CERIO cutterbars</td>
<td>Single-side gear drive</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Folding dividers</td>
<td>VARIO cutterbars</td>
<td>● ●</td>
<td>CERIO cutterbars</td>
<td>● ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Spacing: knife bar – intake auger</td>
<td>VARIO cutterbars</td>
<td>480–780, for rapeseed 1080</td>
<td>CERIO cutterbars</td>
<td>480–780, for rapeseed 1080</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Knife bar</td>
<td>VARIO cutterbars</td>
<td>Divided, synchronised drive on both sides</td>
<td>CERIO cutterbars</td>
<td>Divided, synchronised drive on both sides</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Cutting frequency</td>
<td>VARIO cutterbars</td>
<td>1234 strokes/min</td>
<td>CERIO cutterbars</td>
<td>1218 strokes/min</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Reel and auger bearing</td>
<td>VARIO cutterbars</td>
<td>Divided reel and intake auger with central bearing</td>
<td>CERIO cutterbars</td>
<td>Divided reel and intake auger with central bearing</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Intake auger diameter</td>
<td>VARIO cutterbars</td>
<td>660</td>
<td>CERIO cutterbars</td>
<td>660</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Automated cutterbar control</td>
<td>VARIO cutterbars</td>
<td>● o ●</td>
<td>CERIO cutterbars</td>
<td>● o ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>CONTOUR</td>
<td>VARIO cutterbars</td>
<td>● o ●</td>
<td>CERIO cutterbars</td>
<td>● o ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>AUTO CONTOUR</td>
<td>VARIO cutterbars</td>
<td>● o ●</td>
<td>CERIO cutterbars</td>
<td>● o ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Reel speed control</td>
<td>VARIO cutterbars</td>
<td>● ●</td>
<td>CERIO cutterbars</td>
<td>● ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Reel height adjustment</td>
<td>VARIO cutterbars</td>
<td>● ●</td>
<td>CERIO cutterbars</td>
<td>● ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Table positioning</td>
<td>VARIO cutterbars</td>
<td>● ●</td>
<td>CERIO cutterbars</td>
<td>● ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Parked position</td>
<td>VARIO cutterbars</td>
<td>● ○</td>
<td>CERIO cutterbars</td>
<td>● ○</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Replacement knife bar</td>
<td>VARIO cutterbars</td>
<td>● ●</td>
<td>CERIO cutterbars</td>
<td>● ●</td>
<td>Standard cutterbars</td>
</tr>
<tr>
<td>Crop lifters</td>
<td>VARIO cutterbars</td>
<td>● ●</td>
<td>CERIO cutterbars</td>
<td>● ●</td>
<td>Standard cutterbars</td>
</tr>
</tbody>
</table>
CLAAS continually develops its products to meet customers' requirements, so 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 consult 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 hazards, never remove these protective panels yourself. Please refer to the relevant instructions in the operator’s manual in this regard.

### Engine

**Manufacturer:** Caterpillar  
**Model:** C 13  
**Cylinders / displacement:** S 6/12.5  
**Engine control:** Electronic  
**Maximum output (ECE R 120):** kW/hp 308/419  
**Emissions standard:** Stage IIIb (Tier 3)  
**Fuel consumption measurement:** ○ ○  
**Fuel tank capacity:** l 800  
**Planar radiator screen cleaning:** ● ●

### Chopper

**Special Cut II 88-blade straw chopper:** ○ ○  
**Special Cut II 72-blade straw chopper:** – –  
**Standard Cut 64-blade straw chopper:** ○ ○  
**Standard Cut 52-blade straw chopper:** – –  
**Power spreader:** ○ ○  
**Hydraulic positioning:** ● ●  
**Chaff spreader:** ○ ○  
**Chaff blower with power spreader:** ○ ○  
**Automatic discharge direction adjustment:** ○ ○

### Running gear

**TERRA TRAC crawler tracks with hydropneumatic suspension:** ● (TERRA TRAC)  
**4-TRAC all-wheel drive:** ○ ○  
**30 km/h:** ○ –  
**Car-like driving characteristics:** ● –

### Weights

- **Wheeled machine without front attachment, straw chopper and chaff spreader, full fuel tank:** kg 14800

### Tyre on the drive axle

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>ø cat.</th>
<th>External width</th>
</tr>
</thead>
<tbody>
<tr>
<td>900/60/R 32</td>
<td>m 1.95</td>
<td>3.90/3.90</td>
</tr>
<tr>
<td>IF800/70 R 32 MI</td>
<td>m 1.95</td>
<td>3.78/3.78</td>
</tr>
<tr>
<td>800/70 R 32 CHO</td>
<td>m 1.95</td>
<td>3.78/3.78</td>
</tr>
<tr>
<td>710/75 R 34 MI</td>
<td>m 1.95</td>
<td>3.65/3.65</td>
</tr>
<tr>
<td>IF680/85 R 32 MI</td>
<td>m 1.95</td>
<td>3.50/3.50</td>
</tr>
<tr>
<td>680/85 R 32</td>
<td>m 1.95</td>
<td>3.50/3.50</td>
</tr>
<tr>
<td>800/65 R 32</td>
<td>m 1.85</td>
<td>3.86/3.86</td>
</tr>
<tr>
<td>650/75 R 32</td>
<td>m 1.85</td>
<td>3.49/3.49</td>
</tr>
<tr>
<td>30.5L R 32</td>
<td>m 1.85</td>
<td>–/–</td>
</tr>
<tr>
<td>TERRA TRAC 635 mm</td>
<td>m –</td>
<td>3.49/–</td>
</tr>
<tr>
<td>TERRA TRAC 735 mm</td>
<td>m –</td>
<td>3.79/–</td>
</tr>
<tr>
<td>TERRA TRAC 890 mm</td>
<td>m –</td>
<td>3.99/–</td>
</tr>
</tbody>
</table>

### Tyre on the steering axle

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>ø cat.</th>
<th>External width</th>
</tr>
</thead>
<tbody>
<tr>
<td>600/65 R 28 IMP</td>
<td>m 1.50</td>
<td>3.80/3.80</td>
</tr>
<tr>
<td>VF520/75 R 26 MI</td>
<td>m 1.50</td>
<td>3.49/3.49</td>
</tr>
<tr>
<td>500/85 R 24 IMP</td>
<td>m 1.50</td>
<td>3.50/3.50</td>
</tr>
<tr>
<td>600/55-26.5 IMP</td>
<td>m 1.35</td>
<td>3.80/3.80</td>
</tr>
<tr>
<td>500/70 R 24 IMP</td>
<td>m 1.35</td>
<td>3.49/3.49</td>
</tr>
<tr>
<td>16.5/85-24 IMP</td>
<td>m 1.35</td>
<td>–/3.49</td>
</tr>
</tbody>
</table>

**Greater height and reach for easy offloading.**

<table>
<thead>
<tr>
<th>Length</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>5947 (short)</td>
<td>4148</td>
</tr>
<tr>
<td>6838 (long)</td>
<td>4365</td>
</tr>
<tr>
<td>7342 (XL)</td>
<td>4510</td>
</tr>
<tr>
<td>7902 (XXL)</td>
<td>4655</td>
</tr>
<tr>
<td>8479 (3XL)</td>
<td>4890</td>
</tr>
<tr>
<td>8813 (4XL)</td>
<td>5134</td>
</tr>
</tbody>
</table>

**Tyre on the steering axle**

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>ø cat.</th>
<th>Ext. width</th>
</tr>
</thead>
<tbody>
<tr>
<td>650/50 R 26</td>
<td>m –</td>
<td>3.30/3.30</td>
</tr>
<tr>
<td>680/70 R 26</td>
<td>m –</td>
<td>3.30/3.30</td>
</tr>
<tr>
<td>710/75 R 34</td>
<td>m –</td>
<td>3.49/3.49</td>
</tr>
<tr>
<td>800/65 R 32</td>
<td>m –</td>
<td>3.50/3.50</td>
</tr>
<tr>
<td>650/75 R 32</td>
<td>m –</td>
<td>3.49/3.49</td>
</tr>
<tr>
<td>TERRA TRAC 635 mm</td>
<td>m –</td>
<td>3.49/3.49</td>
</tr>
<tr>
<td>TERRA TRAC 735 mm</td>
<td>m –</td>
<td>3.79/3.79</td>
</tr>
<tr>
<td>TERRA TRAC 890 mm</td>
<td>m –</td>
<td>3.99/3.99</td>
</tr>
</tbody>
</table>

**Weights**

- **Dry weight (depending on equipment):** kg 14800
- **Wheelie without front attachment, straw chopper and chaff spreader, full fuel tank:** 14800 kg

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**Notes:**
- All technical specifications relating to engines are based on the European emission regulation standards: Stage IIIb (Tier 3).
- 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.