

LEXION  
780 770 760 750  
Stage IIIb (Tier 4)

**CLAAS**

LEXION –  
a commitment.



Harvest must be so easy.

*CEMOS AUTOMATIC*





Your ideal: a combine that harvests automatically.

And now it's become reality.  
The new LEXION.

Discover, experience and use this world first developed by CLAAS: the first combine model series which optimises its settings automatically in accordance with the harvesting conditions. Continuously, practically second by second.

CEMOS AUTOMATIC is the name of the system that continuously and automatically adjusts the residual grain separation and cleaning in line with the current harvesting conditions. This intelligent control system enables maximum throughput with top grain quality and cleanness while keeping fuel consumption to a minimum.

All the operator has to do is activate the automatic system. In combination with GPS PILOT for automatic steering and CRUISE PILOT for automatic forward travel control, the new LEXION is the world's first combine which is able to harvest automatically.

So you can concentrate on harvesting instead of adjusting.  
75 years of CLAAS combines

Note: This brochure uses QR codes, which you can use to access additional animated content online using your smartphone. If you are unable to use QR codes, simply enter the accompanying URL into your web browser.



[go.claas.com/newlexion](http://go.claas.com/newlexion)

The maximum.  
LEXION 780.



Sometimes, more is more.

The LEXION 770, recognised as the world's top performing combine, has now been surpassed. The new LEXION 780 takes functionality, power, endurance, versatility and convenience to new, unprecedented heights. It is simply outstanding.

- Higher engine output
- Larger separation area
- Larger grain tank
- Higher discharge rate
- DYNAMIC COOLING – fuel-saving cooling system with variable fan
- Unique, patented 4-link axle
- World first – CEMOS AUTOMATIC

LEXION 780.

A maximum of combine strengths – combined for the best results.

LEXION – a commitment.



LEXION 770 TERRA TRAC

01.09.2011, 09.46 –  
02.09.2011, 06.34

8 hours world record:  
Crop yield: 675.84 t (+22.5%)  
Throughput: 84.48 t/h  
Fuel consumption: 1.15 l/t (-10.8%)

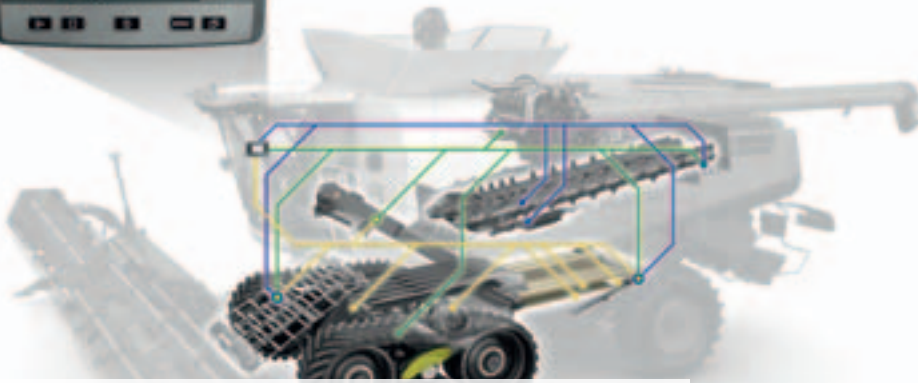
20 hours in action:  
Crop yield: 1361.99 t  
Throughput: 70.94 t/h  
Fuel consumption: 1.20 l/t



[go.claas.com/  
lexionworldrecord](http://go.claas.com/lexionworldrecord)



- CEMOS AUTO SEPARATION
- CEMOS AUTO CLEANING
- CRUISE PILOT



New: CEMOS AUTOMATIC – harvesting instead of adjusting.



New: 4-link axle with 30" tyres – for greater stability and load capacity with maximum ground protection.



New: increased grain tank capacity with increased discharge rate – more grain in the tank.





New: increased engine output with reduced consumption – Stage IIIb (Tier 4i) emission standard.



New: DYNAMIC COOLING – new cooling concept with adjustable fan.



New: central lubrication system – for even less maintenance effort.

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Committed to operator  
comfort. The cab.







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.

Comfort cab



## For optimal working conditions.

With even more space than the previous model, the new LEXION gives the operator freedom of movement, an overview of controls and excellent visibility on all sides. The air conditioning provides 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.

## Fully featured: passenger seat with integrated cooler.

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



[go.claas.com/lexioncabin](https://go.claas.com/lexioncabin)



# More space. More comfort. A more productive workplace.



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

The operating panel gives a good overview and enables simple control of the working lights. The light settings can be adjusted easily in CEBIS.



The refrigerator (A) and passenger seat (B) make a major contribution to the excellent standard of comfort. The steering column can be adjusted three ways (C).



Cab  
Lighting

# 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, steering 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 – combine control and performance optimisation from the cab
- on field – increased productivity directly in the field
- on track – equipment monitoring and remote diagnosis
- on farm – software solutions for your operation



Go on. Go easy.

# EASY

Efficient Agriculture  
Systems by CLAAS.



Even better adjustment to changing conditions. Increase productivity. Optimise performance. EASY makes it possible.

EASY  
Efficient Agriculture Systems  
by CLAAS

# A world first: CEMOS AUTOMATIC.



## Monitoring the whole picture.

Operating a combine harvester is a highly complex task with up to 50 settings from the reel to the chopper which influence the harvest result. The operator must continually monitor and assess about a dozen process variables. Few would be able to keep an eye on everything at the same time to get the most from the machine: and that's where CEMOS AUTOMATIC comes in.

## CEMOS and CEMOS AUTOMATIC.

LEXION – a commitment: to optimising and simplifying the harvesting process as far as possible. In a world first, CLAAS has succeeded in concentrating in this unique system all the experience acquired in the course of 75 years of combine development. The operator aboard the machine can call up this wealth of know-how at any time. The first stage was the introduction of CEMOS as a dialogue-based system which allows the operator to establish the correct machine setting for a given situation (page 18/19). Now, in the second stage, CEMOS AUTOMATIC takes over the task of applying the correct setting itself: continuously, autonomously and automatically.



CEMOS AUTOMATIC can be activated extremely easily using the AUTO PILOT button on the multifunction control lever.



## Harvesting instead of adjusting.

CEMOS AUTOMATIC continuously adjusts residual grain separation and cleaning and thereby permanently optimises the machine for the prevailing harvesting conditions. As a result, the machine is able to automatically deliver maximum throughput while maintaining the highest standards of grain and sample quality while keeping fuel consumption to a minimum. All the operator has to do is activate the automatic functions. The machine then adjusts the following system settings automatically:

- Rotor speed (residual grain separation)
- Rotor flap position (residual grain separation)
- Fan speed (cleaning system)
- Upper sieve opening (cleaning system)
- Lower sieve opening (cleaning system)

In the LEXION, CLAAS is now able to offer you a combine that harvests automatically. This is made possible by CEMOS AUTOMATIC in combination with GPS PILOT for automatic steering and CRUISE PILOT for throughput control.

## CEBIS MOBILE keeps you in the picture.

The operation of CEMOS AUTOMATIC is shown on the CEBIS MOBILE terminal. The work profile display provides an overview of all the combine's systems so that the operator can monitor the automatic settings at all times.



[go.claas.com/  
lexion700cemosautomatic](http://go.claas.com/lexion700cemosautomatic)

CEMOS AUTOMATIC



## Functional principle.

Simple, but remarkably effective: when the combine starts work in the field, CEMOS AUTOMATIC configures the machine to comply with certain preset values, quickly establishing the optimal setting for the work systems. Taking account of the changing harvesting conditions throughout the course of the day, this optimum setting is repeatedly checked and continuously adjusted. In this way, CEMOS AUTOMATIC carries out continuous readjustment on a scale which no operator would be able to achieve manually.

## The operator has full control all the time.

The CEMOS AUTOMATIC software operates systematically on the basis of the CEMOS software. The operator can intervene at any time and use the dialogue with CEMOS to establish the correct setting. CEMOS AUTOMATIC remains active in this situation.

Of course, it is still possible to carry out continuous manual adjustment of residual grain separation and cleaning in CEBIS. Doing so causes CEMOS AUTOMATIC to shut down temporarily. Operating the AUTO PILOT button on the multifunction control lever/CMOTION reactivates CEMOS AUTOMATIC.

Furthermore, it is possible to fully enable or disable the automatic function. It is also possible to activate or deactivate CEMOS AUTOMATIC separately for residual grain separation and cleaning.



[go.claas.com/  
lexion700cemosautomaticdemo](https://go.claas.com/lexion700cemosautomaticdemo)





# More adjustment per second. CEMOS AUTOMATIC.



## Four optimisation strategies.

The operator has a choice of four optimisation strategies:

- Maximum throughput
- Minimal fuel consumption
- High grain quality
- Optimum balance

By selecting one of these strategies, the operator specifies the result which CEMOS AUTOMATIC is to attain. In order to do this, CEMOS AUTOMATIC adjusts the residual grain separation and cleaning settings.



CEMOS AUTOMATIC display in CEBIS

CEMOS AUTOMATIC



### CEMOS has the right setting.

The CLAAS Electronic Machine Optimisation System (CEMOS) fulfils the wish for an assistant capable of finding the right combine settings every time, balancing performance, quality, safety and efficiency. The specified values from CLAAS in the crop log are a good average value for nearly all harvesting conditions, but there's usually room for optimisation. CEMOS helps to utilise this potential consistently.

### Tried and tested.

CEMOS has proven outstandingly successful in practical use. Our customers have confirmed the increase in throughput many times over. Another recognised benefit for the operator is the learning effect which results from the continuous communication with CEMOS.

### A working dialogue.

The operator assistance system runs on the external terminal (CEBIS MOBILE). CEMOS guides the operator to the best settings using a screen dialogue.

The optimisation occurs in three steps:

- 1 The operator requests a suggestion for a setting (for example, to reduce losses)
- 2 CEMOS makes a logical setting suggestion
- 3 The operator accepts this setting suggestion or rejects it

Steps 2 and 3 are repeated until the operator is satisfied with the result or CEMOS has no further suggestions. Equipment adjustments (such as fan speed) are performed by CEMOS where possible but must always be confirmed by the operator. There are no automatic adjustments without operator control. Nearly every CEMOS dialogue offers comprehensive help. If a manual adjustment must be made, CEMOS uses a graphic to explain the setting procedure to the operator.



CEMOS AUTOMATIC and CEMOS operations are shown on the CEBIS MOBILE colour display. Simultaneous operation with GPS PILOT is possible.

# More dialogue. CEMOS.



## Operators benefit, results improve.

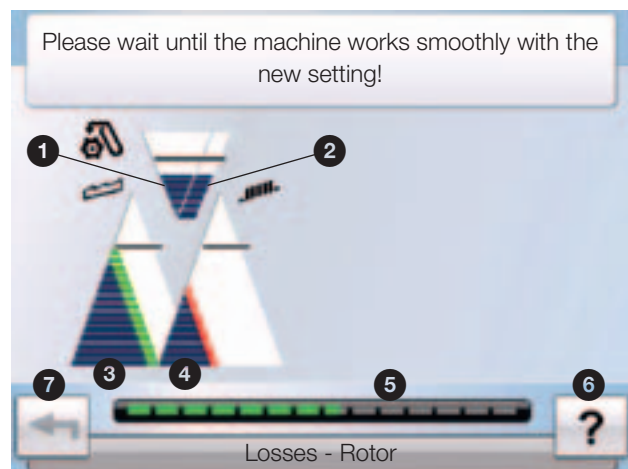
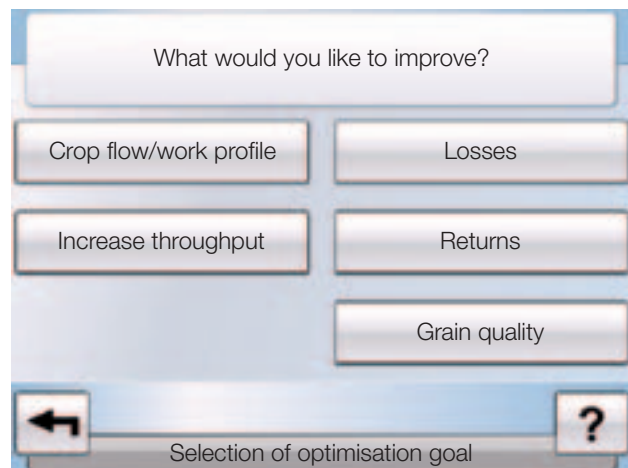
CEMOS is a convincing, reliable partner for the operator, motivating him to optimise combine performance by adapting the settings to the situation, providing a sense of security and increasing skills through ongoing learning.

## CEMOS at work.

CEMOS uses colour to present the setting suggestion for modification of throughput monitoring: green = positive change, red = negative change.

The menu structure:

- 1 Returns volume
- 2 Grain content in returns
- 3 Residual grain separation throughput monitoring
- 4 Cleaning throughput monitoring
- 5 Status display
- 6 Extensive help function
- 7 Exit menu



Top award at Agritechnica 2009:  
CEMOS was awarded the gold medal by the German Agricultural Society (DLG)

[go.claas.com/cemosdemo](http://go.claas.com/cemosdemo)

CEMOS

# More informed, more monitoring.



## 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.

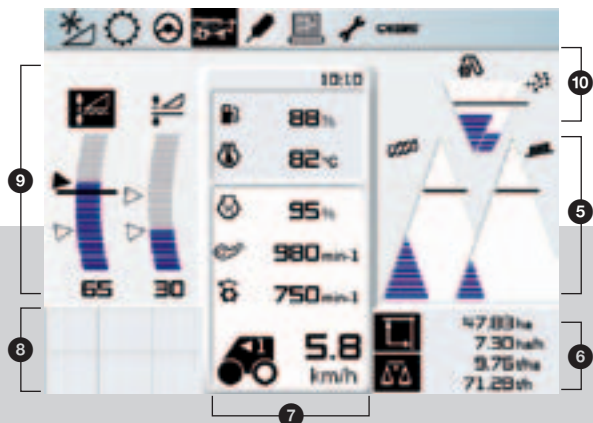
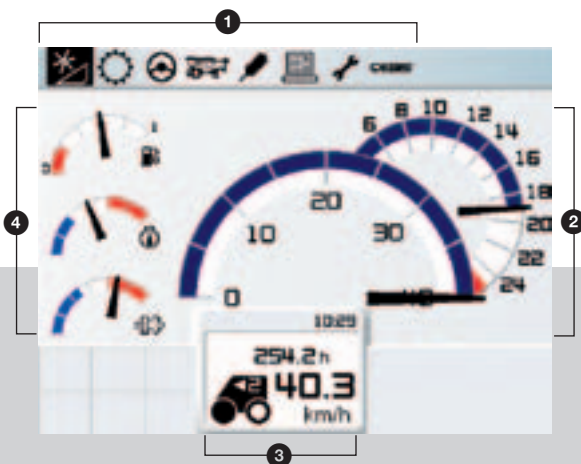
A brief glance at the CEBIS display gives an overview of the current processes and conditions: all the relevant information for driving or harvesting is summarised clearly on the screen. Warning messages are given audibly as a buzz tone and visually as icons and text.

## CEBIS on the road.

- 1 Menu bar
- 2 Ground 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)





## An eye-catching 21 cm diagonal 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 inclination 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 increment control buttons (A/D) are used for menu navigation and making changes to settings
- A Compact Flash Card makes data exchange particularly easy
- New: the QUICK ACCESS button provides direct access to the last menu setting. It also offers fast access to the image from the camera

## All's clear on the operating panel!

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

- A CEBIS increment control
- B CEBIS rotary switch
- C Escape
- D HOTKEY increment control
- E HOTKEY rotary switch
- F Info button
- G QUICK ACCESS button
- H CEBIS screen
- I Front attachment on/off
- J Threshing unit on/off
- K Front attachment reverser
- L Rapeseed knife, left, on/off
- M Lateral adjustment of cutterbar/ changes to values in hotkey menu/ longitudinal position of VARIO cutterbar table
- N Gear shift
- O Parking brake
- P LASER PILOT left/right preselection
- Q All-wheel drive
- R Diesel engine speed (three steps)
- S Grain tank cover open



CEBIS controls

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CEBIS screen  
Control panel



## Comprehensive information.

CEBIS is simple to use, allowing a wealth of equipment information to be displayed and printed in addition to performing full control and monitoring.

- Automatic crop setting
- CRUISE PILOT – automatic forward travel control
- GPS PILOT, LASER PILOT, AUTO PILOT – automatic steering
- Automated cutterbar control
- QUANTIMETER – yield determination/moisture measurement
- Area counter
- Fuel consumption
- Yield mapping – crop log
- Performance display – remaining diesel running time/ range/grain tank fill level
- Job management
- Maintenance interval display and tasks
- On-board diagnostics, alarm lists and alarm history
- Speed monitoring, slippage display (for the threshing drum, for example)



The BUSINESS package for your LEXION 780 and 770: CLAAS TELEMATICS, yield mapping, crop log and fuel consumption recording. All equipment packages can be found on page 84.

# More functions at your fingertips.



## 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 new 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 Front attachment height control
- 2 AUTO PILOT (steering, CRUISE PILOT, CEMOS AUTOMATIC)
- 3 Extend the grain tank discharge auger
- 4 Retract the grain tank discharge auger
- 5 Cutterbar stop
- 6 Reel operation
- 7 Grain tank offloading on/off

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.



CEBIS  
Multifunction control lever  
CMOTION

# More information. CLAAS TELEMATICS.



## 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 CLAAS TELEMATICS.

## Optimise your settings.

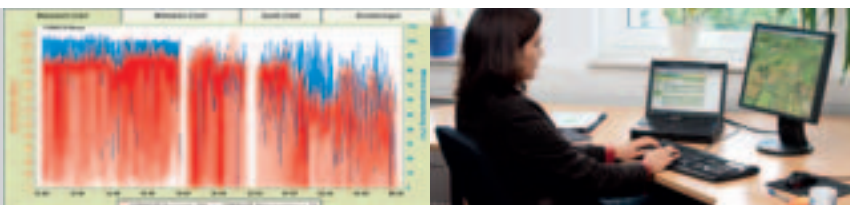
Quickly compare the performance and harvesting data for your combines on the Internet so you can fine tune the settings for the best results under all conditions every day.

## Improve work processes.

A report with the operating time analysis and other important evaluations of the machine is sent 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 threshing again. In addition, the working tracks of the combine can be viewed together with the event log in order to optimise the transport logistics. CLAAS TELEMATICS enables planned fleet management and avoids unprofitable idle time because job orders issued in the job management module can be monitored online.

## 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. What's more, maps for yields, moisture and losses can be displayed graphically for quicker analysis.

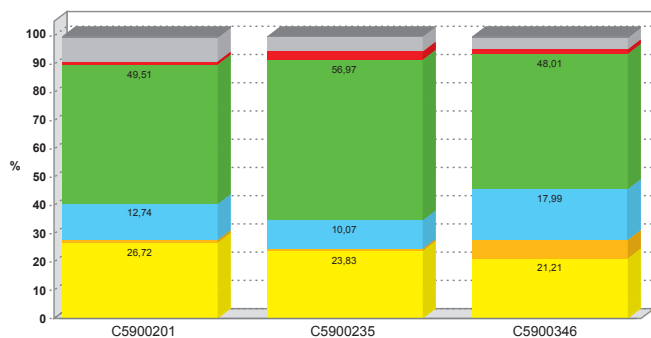


Operator, farmer and dealer service can monitor all the machine data simultaneously.





## Operating time analysis.



## Faster service with CLAAS remote diagnostics.

CLAAS TELEMATICS can transmit service data to your CLAAS dealer if you wish. This enables your CLAAS service team to perform an initial diagnosis remotely if required, identify causes more quickly and prepare to provide the most effective assistance in the field as quickly as possible.

How you benefit:

- Readout of stored errors
- Checking of combine parameters such as hydraulic pressure
- Checking sensor systems for engine speed, etc.
- Configuring the combine
- Machine location can be determined quickly

Status	C5900201	C5900235	C5900346
Total time	100.00%	100.00%	100.00%
Offloading during operation	26.72%	23.83%	21.21%
Offloading while stopped	0.98%	0.78%	6.54%
Turning time	12.74%	10.07%	17.99%
Processing time	49.51%	56.97%	48.01%
Idle time	1.02%	2.84%	1.54%
Engine off	8.41%	5.19%	3.97%
Other time	0.62%	0.32%	0.74 %

The location and path of the combine are shown against the background of satellite photos from Google™ Earth.



CLAAS TELEMATICS



### Electronics system.

Data can be processed and sent faster than ever. The electronics system improves the function of the entire electronic control of the LEXION. With its extremely fast on-board network, the LEXION is already prepared to meet the far-reaching challenges of the future.

- 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.

### Job management.

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



All electronic connections meet in the cab.



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



# Greater potential when you need it.



## CRUISE PILOT: automatic forward travel control.

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



A wealth of information can be printed whenever required.

Job management  
Yield mapping  
CRUISE PILOT

# More precise steering.



Choose from three automatic steering systems.

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

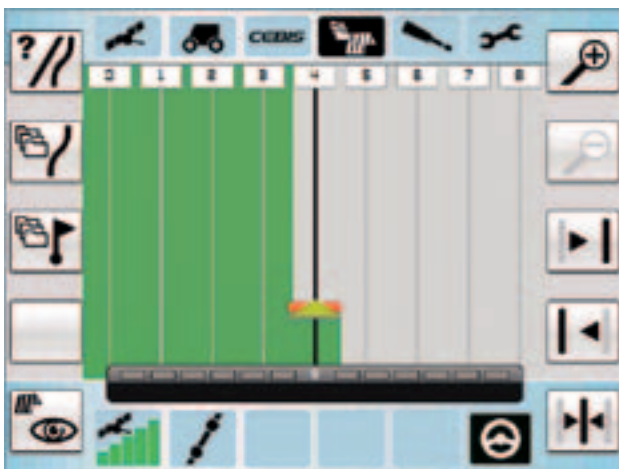
- GPS PILOT – the satellite-supported guidance system
- LASER PILOT – the electro-optical guidance system
- AUTO PILOT – the electro-mechanical guidance system

## GPS PILOT.

The satellite-guided GPS PILOT uses global positioning system signals to guide the LEXION automatically along the cut edge of the crop with up to 2 cm accuracy. Simply divide your field into identically sized sections using GPS PILOT. No more time wasted on unproductive cutting of leftover strips.

GPS PILOT uses the multifunctional CEBIS MOBILE colour display; concurrent operation of CEMOS software is possible.

The ISOBUS-enabled CEBIS MOBILE can be put to use quickly and easily. After the harvest, it can be used for GPS steering of tractors or as an ISOBUS terminal for controlling implements.



GPS PILOT is shown on the CEBIS MOBILE colour display.





## 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.

### 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



LASER  
PILOT

AUTO  
PILOT



Automatic guidance systems

Committed to meeting diverse  
harvesting requirements.  
The cutterbars.



Standard cutterbar



VARIO cutterbar



Rapeseed cutterbar



Rice cutterbar



Folding cutterbar



MAXFLEX soybean cutterbar



CONSPEED



SUNSPEED



RAKE UP



MAXFLO



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

Front attachments

# Higher feeder performance.



## 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 cylinder on both the right and left sides for controlling the AUTO CONTOUR.

The feeder housing can be equipped with an additional middle support roll. 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.

## New: MONTANA feeder housing up to 9 m wide.

Based on the axle position, the innovative MULTI CONTOUR system moves the pivoting frame, adjusts the cutting angle and performs all the familiar AUTO CONTOUR functions.

The new MONTANA feeder housing is equipped with a horizontal cylinder for cutting angle adjustment as well as two vertical cylinders for AUTO CONTOUR control and side slope levelling. The new, reinforced design enables harvesting with a VARIO cutterbar up to 9 metres wide.

## HP feeder housing.

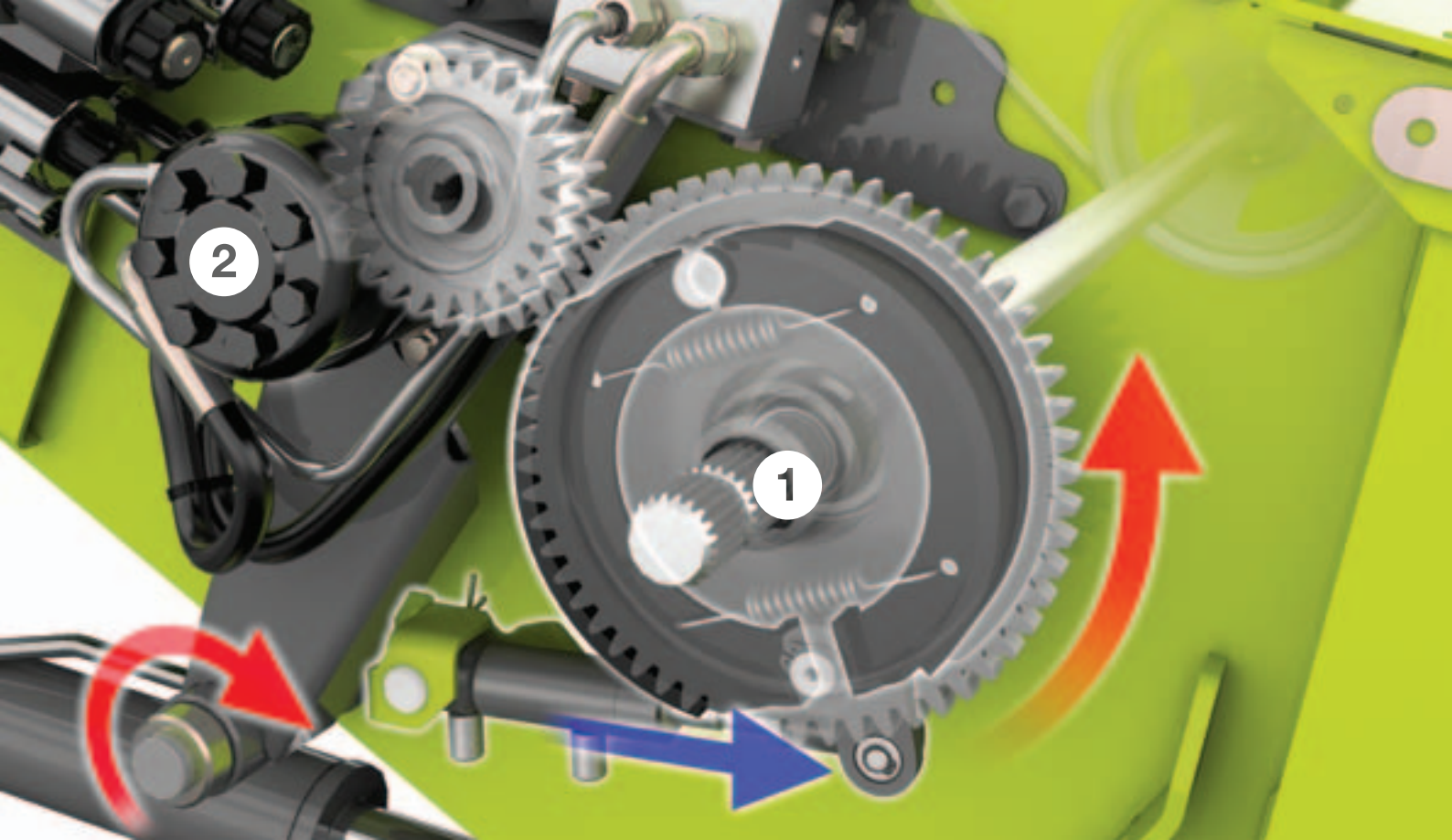
The HP (header pitch) feeder housing allows fast, simple adjustment of the cutting angle to adapt to all field conditions. From the central position the cutting angle can be moved 8° back and 11° forward.

The AUTO CONTOUR cylinder ensures a clean cut



Position display of the cutterbar lateral control in CEBIS





### New: 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 new LEXION drives impress with outputs of 80 kW (constant), 120 kW (variable), 150 kW (step drive) or 200 kW (variable) as well as variators with belts up to 66 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.

### New: 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 new 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.



For a clear view: dust extraction at the feeder housing

Feeder housing



### 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.

### 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.

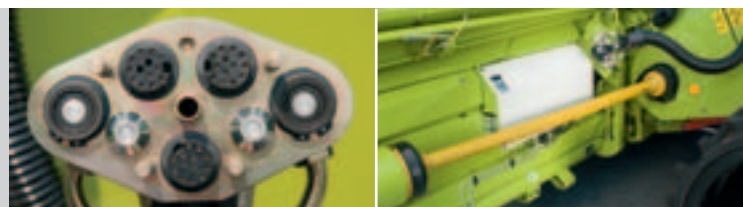
A single lever on the left side of the cutterbar operates all locks simultaneously.

### 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.

Greater convenience with the MultiCoupler and central locking.



# More good reasons for CLAAS attachments.

## 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 40 km/h variants are available. With the LEXION 760 TERRA TRAC, for example, you can transport your cutterbar safely at 40 km/h.



Additional crop lifters stored directly on the cutterbar.



Cutterbar convenience

# Higher 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

## New: the reels for V 900 and V 750.

Significantly reduced risk of wrapping: the enhanced reel design with optimised reel tine carriers from the V 1200 and V 1050 high-performance cutterbars has also been adopted for the V 900 and V 750.

## V 1200 und V 1050 high-performance cutterbars.

- 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
- 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

V 1200 and V 1050 transmission drive





## 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 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.

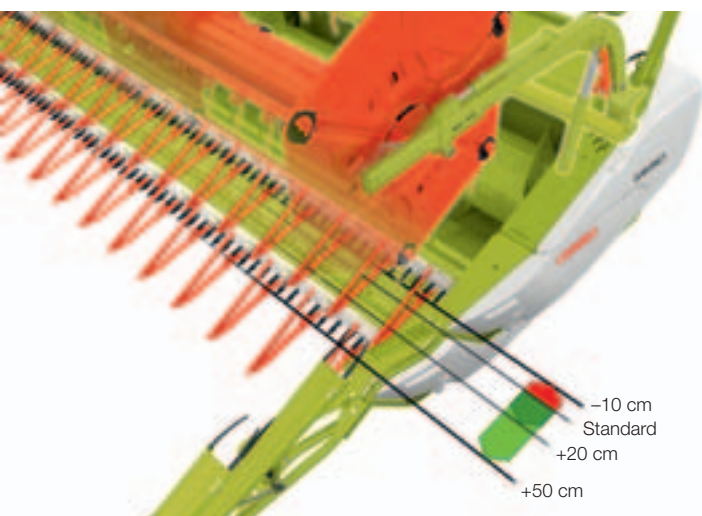
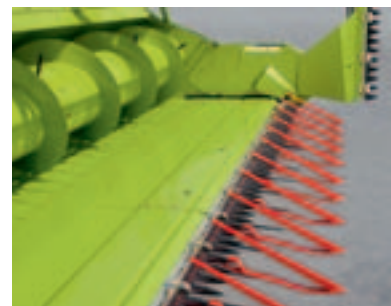
Knife position -10 cm



Knife position +20 cm



Knife position +50 cm



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 rapeseed kit can be stored in a box on the trailer for road transport, saving a great deal of weight on the cutterbar.



VARIO cutterbar  
Rapeseed 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 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.



Hardened intake auger



The deflector protects against wrapping



# More expertise for rice and soybeans.

The MAXFLEX soybean 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.

MAXFLEX cutterbars from CLAAS are equipped with a flexible knife bar which compensates automatically for the slightest ground contours. The knife bar can flex up to 180 mm. The intake auger, reel and knife bar are divided. Together with the cutting angle adjustment on the HP feeder housing, this enables intake losses to be avoided under all field conditions.

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



Rice cutterbar  
MAXFLEX

# More picking power.

## 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 harvesters 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 with conical snapping rollers.

Each picker unit has a compact, integrated transmission 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 with 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 refitted for sunflower harvesting with a kit. Knives are mounted over the snapping rollers and lateral cover extensions as well as an attachment on the back of the CONSPEED are added. The chain is turned and the guide changed.



CONSPEED  
CONSPEED LINEAR



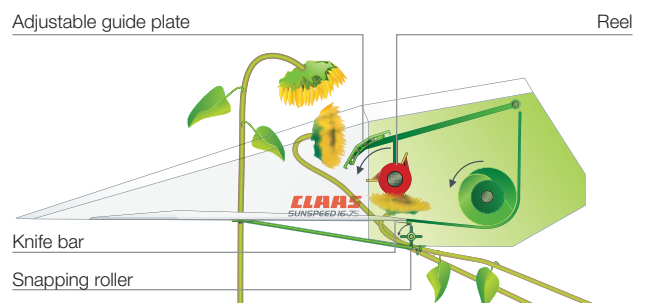
## The effective SUNSPEED principle.

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



Snapping roller



Adjustable shuttles



# More flexibility.

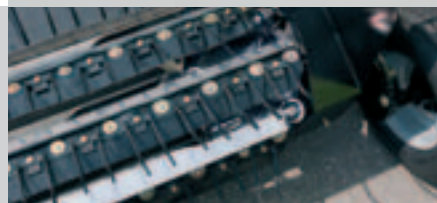
## RAKE UP: the specialist.

In areas which are unsuited to direct threshing the LEXION once again proves its reliability under all imaginable conditions. The RAKE 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.

## RAKE UP – the unique pick-up system.

This front attachment is distinguished by its cam track controlled pick-up. The controlled tines are mounted on six bars and retract downward and sideways when the crop is fed onto the belt. The additional sideways movement enables a loss-free take-up of the crop while also reducing the risk of stones being picked up. The RAKE UP feed belts run in the direction of travel and pass the crop to the intake auger with a two-part compressing rake maintaining an efficient crop flow.

The speed of the intake unit can be adjusted continuously with hydraulic control from the cab. Furthermore, the speed of the intake is adjusted automatically in line with the ground speed.



SUNSPEED  
RAKE UP

# A more reliable crop flow.

## 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.

## Different from 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 guide element feeds the material gently in a cam track.



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 the same direction

Swathing is possible to the right or left. The result is an ideal windrow that can be collected later by the RAKE UP.



The MAXFLO chassis absorbs shocks to the cutterbar.



MAXFLO



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 cylinders 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 slopes and rocky ground. AUTO CONTOUR helps increase performance and make the use of the LEXION pay even greater dividends.



2-way cutterbar cylinders control the ground pressure precisely.



The automatic cutterbar control is activated simply by pressing the button for height adjustment on the multifunction control lever.

# A more intelligent cutterbar.

## 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.

## Automatic functions.

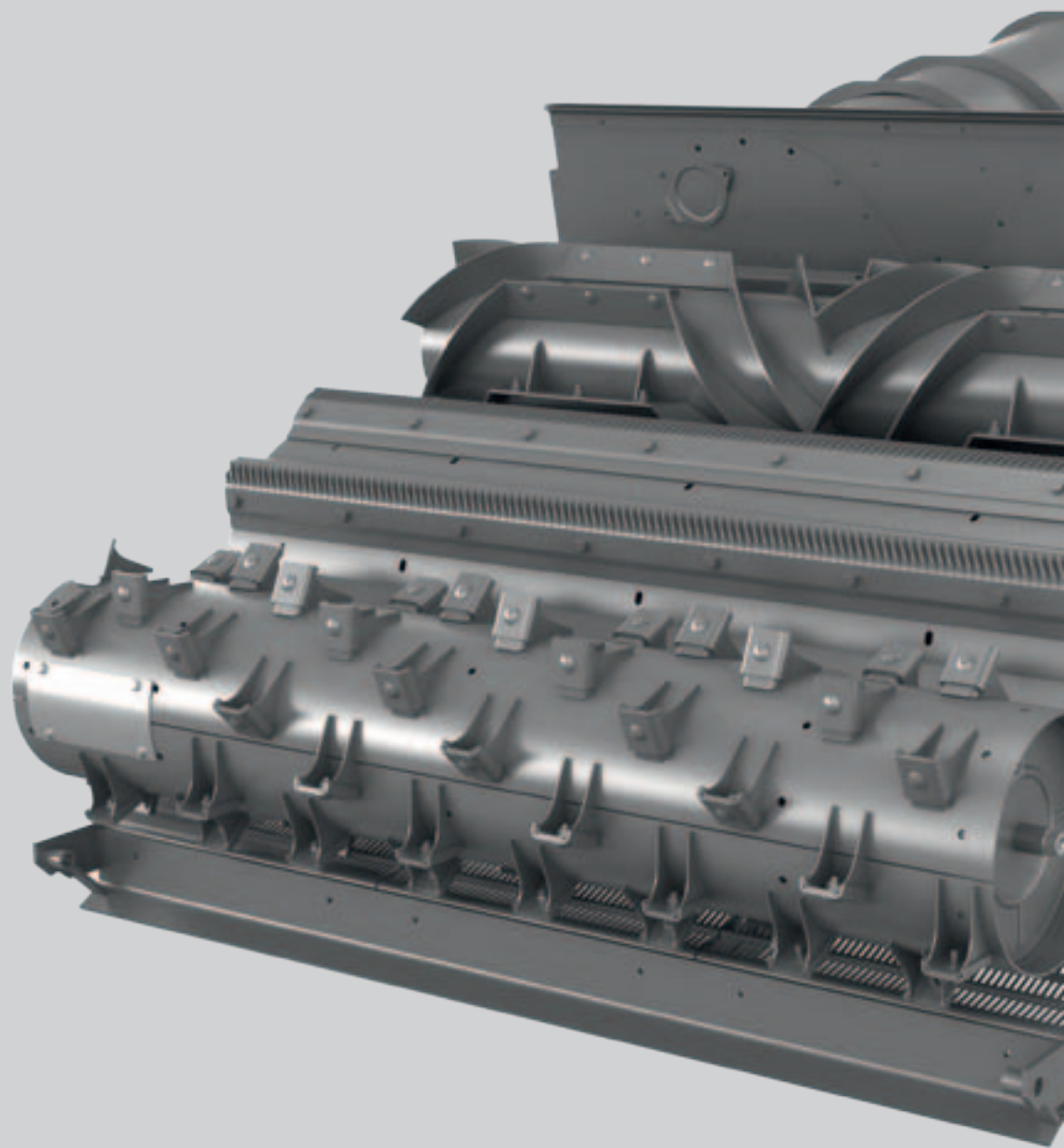
- CONTOUR / AUTO CONTOUR
- Automatic reel speed
- Automatic reel height
- Automatic reel levelling (VARIO only)
- Automatic table position (VARIO only)



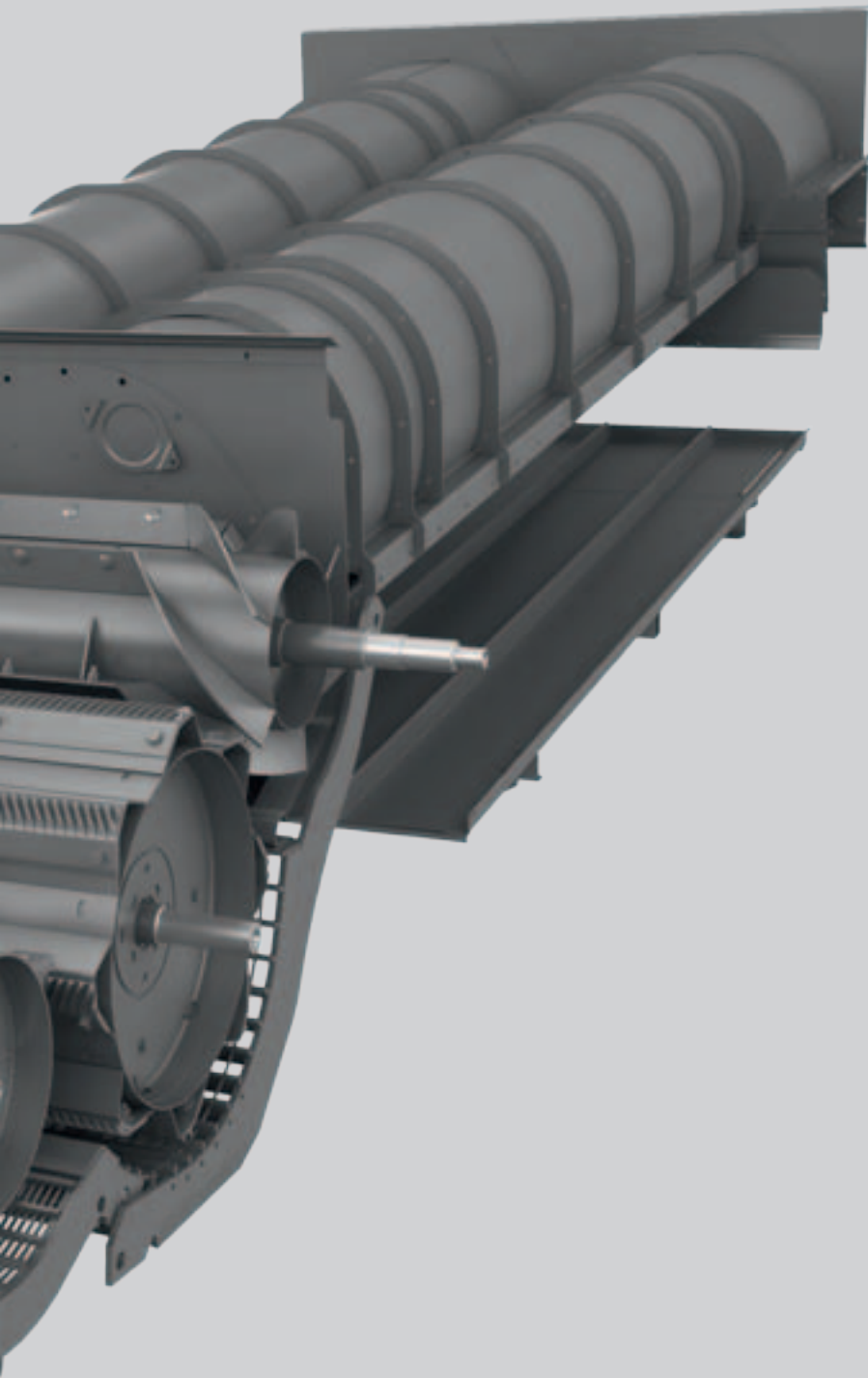
Sensor bands detect the position of the cutterbar.

Automated cutterbar control

Committed to productivity.  
APS HYBRID SYSTEM.





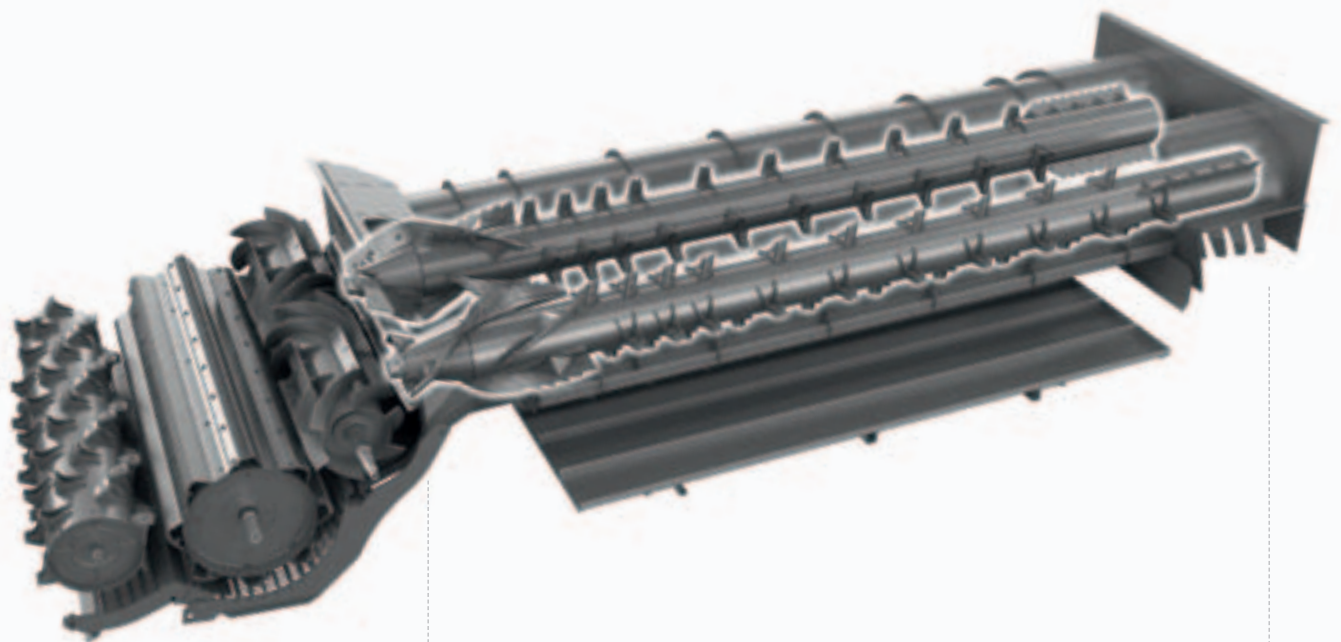


More ideas and intelligent solutions that create an integrated system incorporating superior technology. For outstanding seasonal performance.

Threshing technology

APS HYBRID SYSTEM = APS + ROTO PLUS

# More top technology. APS HYBRID SYSTEM.



Threshing: APS

Separation: ROTO PLUS



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## The APS HYBRID SYSTEM. More than the sum of its high-performance parts.

The APS HYBRID SYSTEM – threshing technology from CLAAS – represents the combination of two outstanding technologies: the tangential APS threshing system and the highly efficient ROTO PLUS residual grain separation system.

Only CLAAS integrates both systems in one machine, with APS giving you a significant competitive edge over other systems.

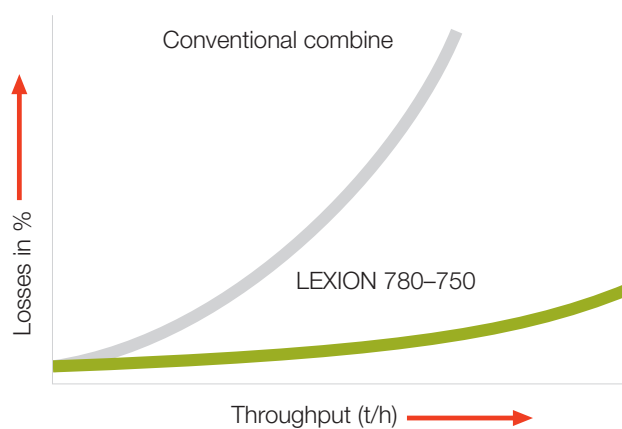
This powerful duo offers you unbeatable advantages:

- Drum speed adjustment in the threshing system independent of rotor speed
- Individual adaptation of the entire process to changing field conditions over the course of the day
- Protective threshing with top throughput

## Far ahead of the others.

With its effective residual grain separation system, crop flow speeds 10 times faster between the rotors and concaves and the high centrifugal force, the LEXION with the APS HYBRID SYSTEM offers separation qualities that differ fundamentally from straw walkers.

Take advantage of the unbeatable combination of APS + ROTO PLUS.



With conventional combine harvesters, the percentage losses increase sharply above a certain level of throughput, because the residual grain separation is the factor limiting performance. The effective residual grain separation of the ROTO PLUS system in the new LEXION enables much higher operating capacities without increased loss rates.

APS HYBRID 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.

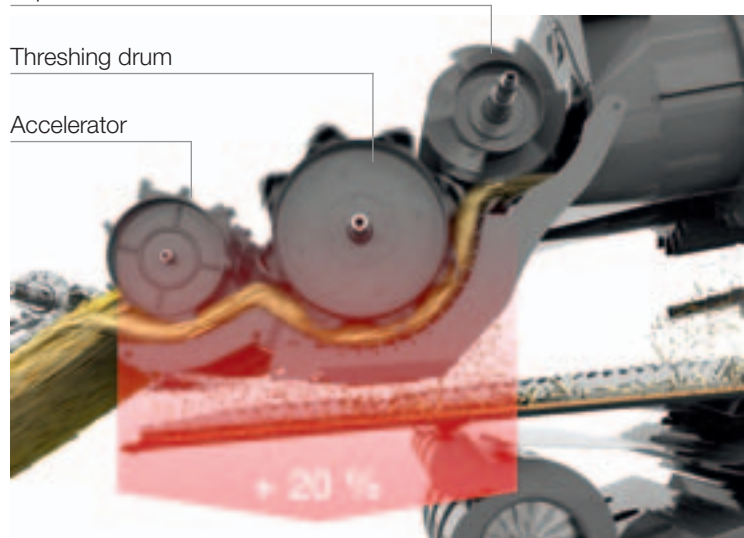
### Closed threshing drum.

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.

Impeller

Threshing drum

Accelerator



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.

# Greater pre-acceleration. APS.

## 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.

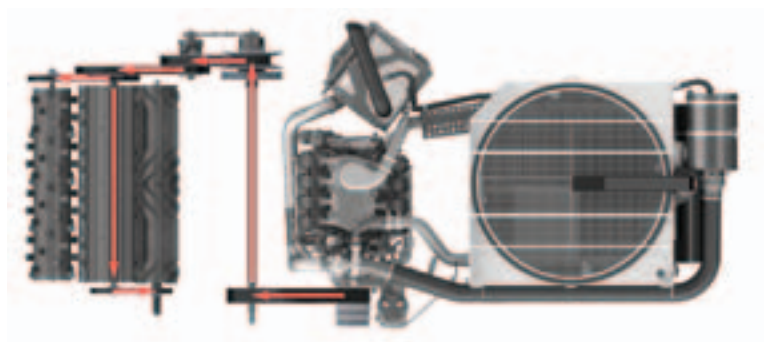
## Top quality grain with the APS system.

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.

## 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.



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



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APS threshing system

# Even further ahead in residual grain separation. ROTO PLUS.

## A superior integrated concept.

The unique APS enhanced by the exclusive ROTO PLUS concept results in the superior technology of the APS HYBRID SYSTEM, which once more impressively demonstrates the CLAAS advantage.



## ROTO PLUS post-threshing grain separation.

The even feed of the APS creates ideal conditions for the separation of the remaining grain with ROTO PLUS. The principle behind ROTO PLUS is simple but extremely effective. The impeller of the APS threshing unit divides the straw into two flows of material and feeds them to the two counter-rotating, high performance rotors.

## High-performance rotors.

Eccentrically mounted rotors generate tremendous centrifugal force to separate the remaining grains from the straw. With a diameter of 445 mm and a length of 4.20 m each, the rotors in the LEXION provide a huge separation area.

The mixture of grain, straw and chaff first reaches the preparation floor through the returns pan before passing over the straw walker steps to the sieve pan. This significantly reduces the load on the sieve pan.



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Hydraulically adjustable rotor flaps are used to adjust the separation area





### Conveniently adjustable rotor flaps.

All LEXION models have hydraulically operated shutters to adjust the rotor separation area. The HOTKEY rotary switch is turned to reduce the open separation area of the rotary sieves in steps simply and easily from the cab. This reduces the sieve load under very dry conditions and under wet field conditions the large separation area achieves more effective separation of residual grain. The result of variable rotor separation area adjustment is maximum throughput under all harvesting conditions.

Automatic control by CEMOS AUTOMATIC.

### Continuously adjustable variator.

The rotor speed can be continually adjusted with ease from the operator's seat with the CEBIS rotary switch in the LEXION 770–750 models, anywhere from 350 to 1050 rpm regardless of the threshing drum speed. This allows quick adjustment of the rotation speed to different crops as well as harvesting and straw conditions, making it easy to achieve the best work rates with the combine.

Automatic control by CEMOS AUTOMATIC.

### Committed to new dimensions of productivity. The LEXION 780 flagship model.

The performance of the ROTO PLUS residual grain separation has been aligned with the exceptionally high throughput of the LEXION 780: the speed of the two rotors has been increased to between 450 and 1250 rpm. Furthermore, an extra (sixth) rotary sieve installed under the rotors increases the separation area – and so enables even higher separation performance.



ROTO PLUS



## JET STREAM.

The JET STREAM cleaning system is designed especially to work with the ROTO PLUS residual grain separation system.

- Dual ventilation step
- Height of the first step: 150 mm
- The long flow compensation channel ensures a consistent, extremely strong air blast
- 8-stage turbine fan (LEXION 780/770)
- 6-stage turbine fan (LEXION 760/750)
- Electrical sieve adjustment from the cab

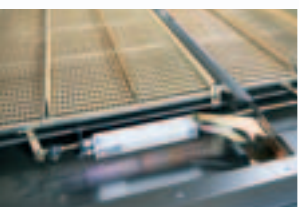
Automatic control by CEMOS AUTOMATIC.

## Dual ventilation.

A dual ventilated step ensures intensive pre-cleaning while the multi-stage turbine fans, which can be adjusted continuously from the cab, create the necessary air flow.

## Preparation floor.

Pre-sorting of the grains (top) and chaff and broken straw (bottom) takes place on the preparation floor. The resulting reduction in the load on the upper sieve increases the cleaning capacity. The six (LEXION 780/770) individual plastic elements - or four in the case of the LEXION 760/750 - can be easily pulled out to the front for cleaning the preparation floor after harvesting is completed.



Electric sieve adjustment



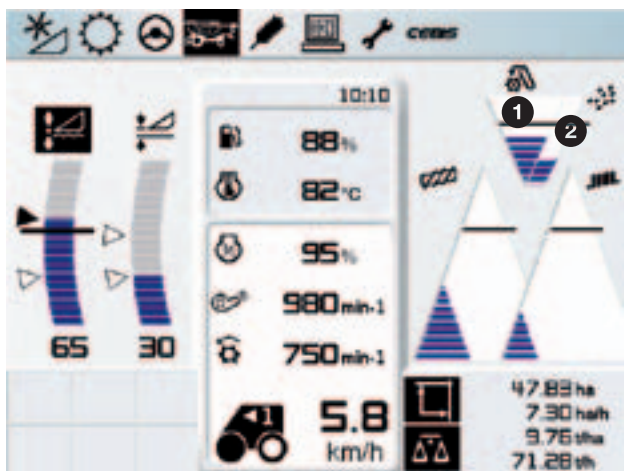
Divided grain pan that can be removed from the front



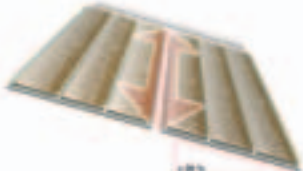
# Even better cleaning. For impressive results.

## 3-D cleaning system.

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



Without 3-D



With 3-D



## 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 or with the help of CEMOS to utilise the full production capacity of the LEXION.

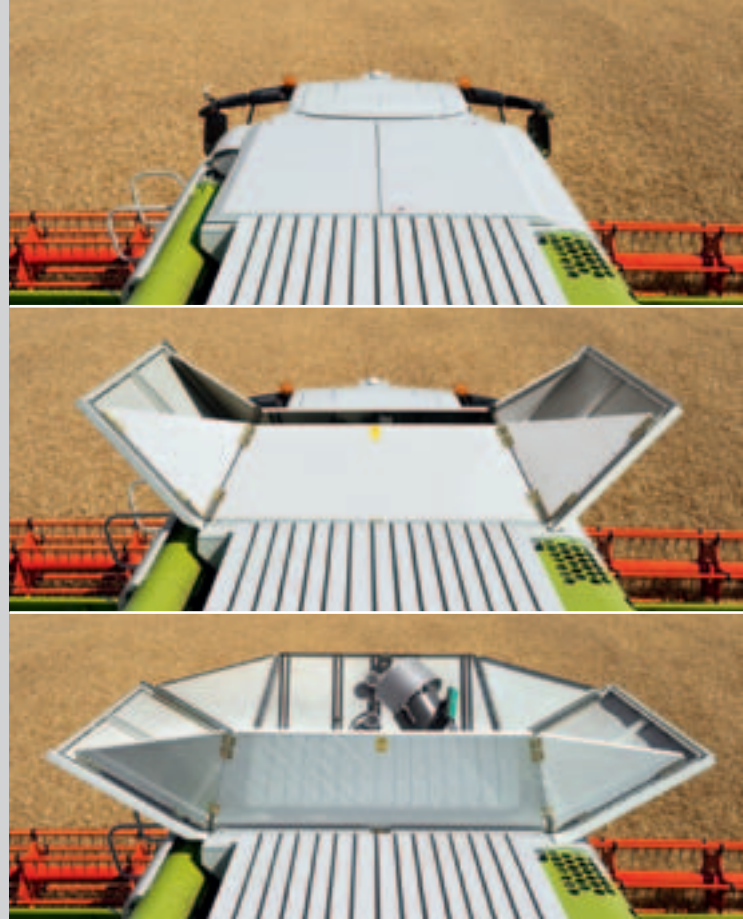
Automatic control by CEMOS AUTOMATIC.



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Cleaning system

# More grain in the tank.



## Grain tank capacity of up to 12,500 l.

After the threshing unit, residual grain separation and cleaning systems have done their work, the cleaned grain is collected in the expandable grain tank. Here too, with a large volume of up to 12,500 litres, the LEXION demonstrates its capacity for high performance, enhanced by numerous other strengths.

## Faster discharge.

The high performance turret auger delivers up to 130 litres per second from the grain tank, reducing the time to offload crop and allowing the operator to spend more time threshing. The smooth sides and shape of the grain tank ensure that it is emptied completely.

## PROFI CAM – everything in view.

All LEXION models can be equipped with a PROFI CAM on the edge 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.



Simple, complete emptying of the grain tank



PROFI CAM



### 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 CLAAS TELEMATICS or can be printed conveniently via CEBIS. Fully automatic chain tensioning for the elevator is standard with the QUANTIMETER.



Convenient sampling



Relevant data can be printed directly in the cab

Grain tank  
Grain collection  
QUANTIMETER



### CLAAS straw management. With SPECIAL CUT II.

From the rotors, the straw moves directly to the chopper, which can be varied in intensity depending on the conditions. Up to 108 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 "Fine Chop Step" for the best straw chopping quality. The finely chopped material is subsequently fed to the power spreader.

### 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.



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



[go.claas.com/lexion700specialcut](http://go.claas.com/lexion700specialcut)

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



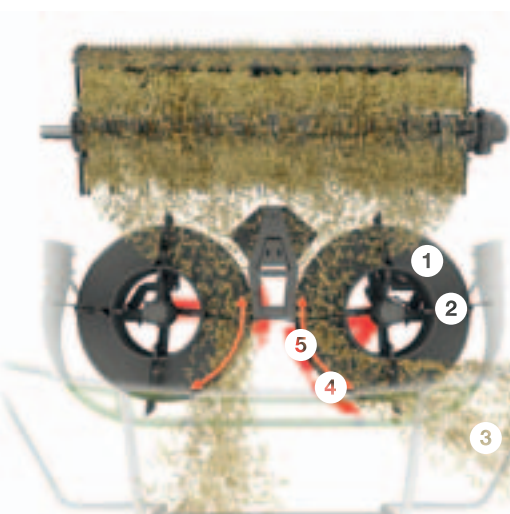
# More effective spreading.

## Even chaff distribution.

From the sieve pans, 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.



- 1 Spreading rotor
- 2 Paddle
- 3 Material flow
- 4 Outer deflector
- 5 Inner deflector



Setting the direction and width of spreading in CEBIS

Straw management

# Committed to performance. CLAAS POWER SYSTEMS (CPS).

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.

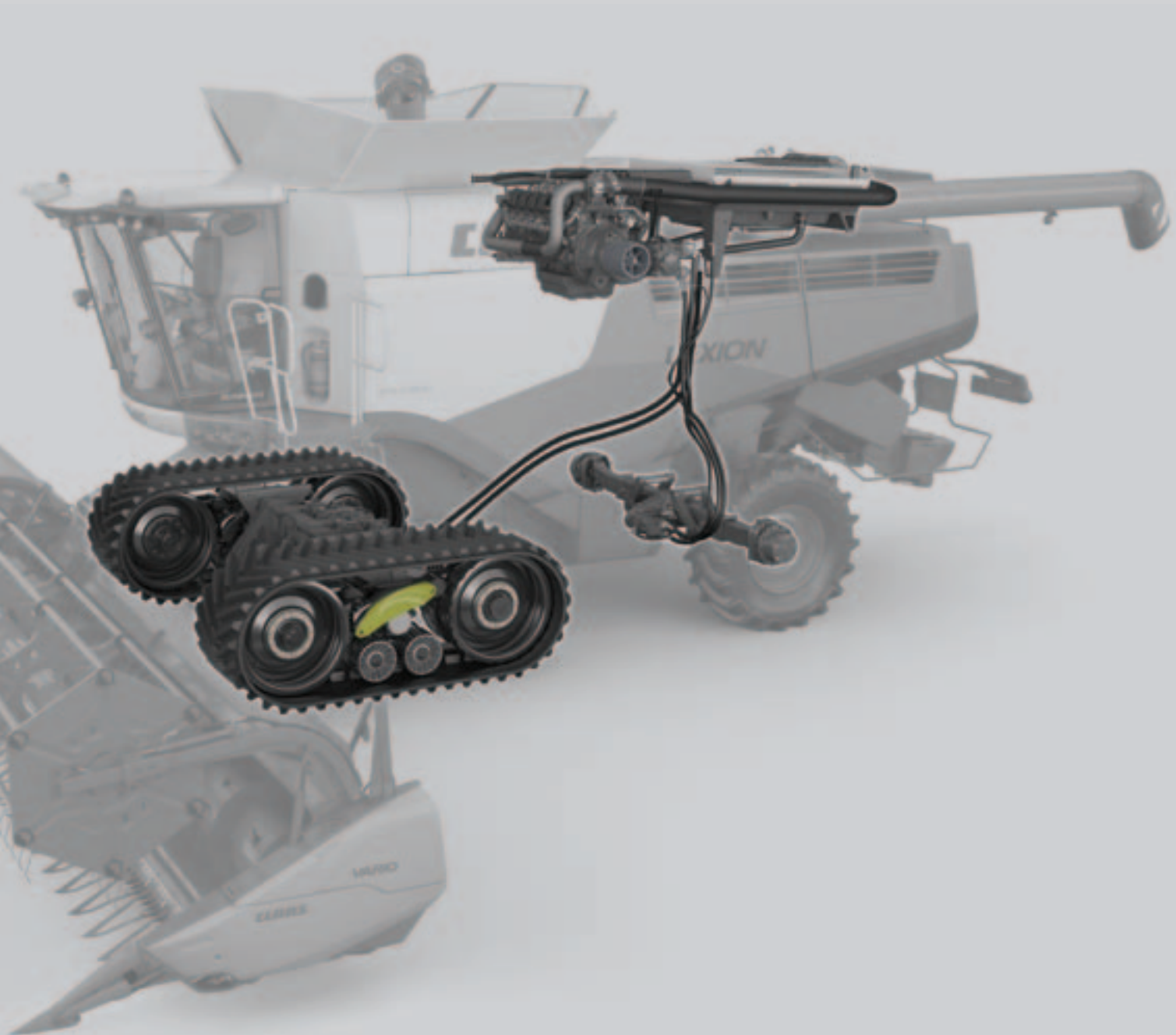
Of course, this applies to all aspects of a CLAAS combine harvester. The drive system is of decisive importance – and requires much more than just a powerful engine.

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 new 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.

**CPS** | CLAAS  
POWER  
SYSTEMS





More technological landmarks and engineering refinements: for maximum reliability even under extreme conditions. The LEXION is ready.

CLAAS POWER SYSTEMS

# More power reserves. The engines.

## Advanced, high-performance engines.

Outstanding power delivery with low fuel consumption is assured with selected premium engines from Mercedes-Benz and Caterpillar.

Solenoid-valve-controlled single injection pumps together with electronic engine management (from Mercedes-Benz) or the hydraulic electronic unit injection (HEUI) system mean you can rely on the drive technology in the new LEXION. It delivers sustained, productive performance with ease even under difficult field conditions.

- Mercedes-Benz engine OM 502, V 8/16 l (LEXION 780/770)
- Caterpillar engine C 13, S 6/12.5 l (LEXION 760/750)
- Emissions standard Stage IIIb (Tier 4i)
- Optimised combustion process
- Improved engine running characteristics
- Low fuel consumption
- Optimal power transmission
- Fuel tank capacity up to 1150 litres
- Tested by CLAAS POWER SYSTEMS



[go.claas.com/scr](http://go.claas.com/scr)



[go.claas.com/egr-dpf](http://go.claas.com/egr-dpf)





### Enhanced performance calls for reserves.

Extremely high throughput requires corresponding reserves of power. The electronic engine control in the LEXION delivers 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 the sake of the environment.

The high-performance engines in the LEXION comply with the new Stage IIIb (Tier 4i) emissions standard thanks to an exhaust aftertreatment system.

### Conversion of nitrogen oxides by SCR.

The Mercedes-Benz engines in the LEXION 780 and 770 comply with this standard thanks to a selective catalytic reduction (SCR) exhaust aftertreatment system. This process converts the nitrogen oxides in the exhaust flow into pure nitrogen and water. The urea solution necessary for this is carried in an 80-litre tank.

### Exhaust-gas recirculation (EGR) with DPF.

The Caterpillar engines in the LEXION 760 and 750 comply with the new emissions standard thanks to exhaust gas recirculation (EGR) with a diesel particulate filter (DPF). The exhaust gas recirculation principle works by mixing a proportion of the engine exhaust gas with the intake air. This reduces the combustion temperature in the engine which in turn largely prevents the formation of nitrogen oxides. In addition, the particulate content in the exhaust emissions is reduced by being trapped in the diesel particulate filter. The filter is cleaned by a regular regeneration process which can be fully automated in the case of the LEXION.



All LEXION models with SCR technology are equipped with three batteries: two wired in series for the 24-volt engine electronics and one for the 12-volt on-board electronics.

Engine



## New: DYNAMIC COOLING.

The LEXION 780/770/760 models are equipped with a cooling system of a completely new design. It is optimally situated in a horizontal position behind the engine compartment. A large rotating sieve with a diameter of 1.6 metres ensures that it is able to take in sufficient fresh air at all times. Permanent cleaning is performed by an automatic dust extraction system. The large radiator package has sufficient reserves to ensure continuous cooling while also providing the benefit of extended cleaning intervals.

## Save fuel through variable fan drive.

Unique among combine harvesters, all LEXION models are equipped with a variable fan drive whose speed is adjusted automatically in accordance with the degree of cooling required. This makes it possible to save power which the rest of the machine can call on. This intelligent system only draws power when it really requires it.

## It's curtains for heat build-up.

The new design of the cooling system provides an ideal air flow. Air is drawn in at the top, passes downwards through the radiator and is then vented through the engine compartment and side cooling fins.

This creates a particularly useful curtain effect. The air flow actively inhibits dust from rising, thus preventing soiling of the radiator and effectively functioning as a permanent cleaning system. This has two advantages for you: you can count on sufficient cooling at all times while also benefiting from long maintenance intervals.

DYNAMIC COOLING – high-capacity cooling system with variable fan drive



[go.claas.com/lexion700dynamiccooling](http://go.claas.com/lexion700dynamiccooling)

# A more intelligent way to keep cool. DYNAMIC COOLING.



## Planar dust extraction in the LEXION 750.

This reliable system has already proven highly effective in larger models: with planar dust extraction, the LEXION 750 now also benefits from high-performance cooling and comfortable reserves of cooling capacity.

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.



The ideal air flow creates a useful curtain effect with continuous cleaning of the engine compartment.



DYNAMIC COOLING

# More performance on steep slopes.



The working hydraulics:  
more lifting power, faster response.

The outstanding performance of the LEXION is now better than ever on steep slopes as well. New working hydraulics offer improved operation of the entire MONTANA control system:

- Higher efficiency of the working hydraulics thanks to an axial variable displacement pump (LS pump)
- Operating pressure 200 bar (+ 10%)
- Oil displacement of the working pump: 120 l/min (+ 50%)
- Greater front attachment lift capacity: +10% weight/+50% faster response (proportional valve technology)
- Maximum reversing power even when idling, 10% more torque
- Synthetic oil with a high viscosity index provides better friction characteristics
- Low noise thanks to constant system pressure
- Efficient pump distributor gear



Operating panel with  
MONTANA control system



The positions of the axial cylinder  
and the pivoting frame are  
displayed in CEBIS.



### Threshing just like on level ground.

The drive shaft is the key component of the LEXION MONTANA. Hydraulic swing cylinders turn the portals to adjust the wheels to the ground. The MONTANA chassis compensates cross tilt up to 17% and longitudinal tilt up to 6%, so even in steep areas high threshing output and effective work are possible just like on level ground. The operator is in an optimal, comfortable seated position in any slope situation, enabling even long working days to be handled without stress.

### MULTI CONTOUR.

Based on the axle position, the innovative MULTI CONTOUR system moves the pivoting frame, adjusts the cutting angle and performs all the familiar AUTO CONTOUR functions.

### 3-D cleaning for extra reliability.

In the LEXION MONTANA as well, the 3-D cleaning system ensures good performance on side slopes above 17%.

### The advantages of MONTANA at a glance:

- Side slope levelling up to 17%
- Longitudinal levelling up to 6%
- Suitable for cutterbars up to 9 metres wide
- Improved traction thanks to a differential lock
- Easier operation
- Improved functionality of the entire MONTANA control system thanks to working hydraulics
- 30 km/h hydrostatic ground drive
- Drives smoothly
- More comfort for the operator
- Same performance as on level fields



The differential lock enables the combine to move forward safely even on very steep slopes. The wet hydraulic multiple disc brake provides additional safety.



MONTANA



### 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 four different TERRA TRAC tracks in three widths are available for the various LEXION models. 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 cylinders
- The drive wheel, land wheel and support rollers are counter-directionally pivot-mounted; hydraulic cylinders with an integrated pressure reservoir support the suspension
- This results in automatic levelling at speeds above 2 km/h for improved stability on curves



[go.claas.com/terratractfunction](https://go.claas.com/terratractfunction)

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

# More ground protection in the field.



635 mm



735 mm



890 mm



890 mm, rice

A TERRA TRAC Rice with a drive width of 890 mm and speeds of 30 and 40 km/h is available for the LEXION 760.

Ground protection  
TERRA TRAC

# More speed on the road.

40 km/h on the road - LEXION 760 TERRA TRAC is world's fastest combine.

Every minute a combine harvester saves in road travel improves performance in the field. If there were a world championship, the LEXION 760 TERRA TRAC would be the undisputed favourite as the fastest combine harvester in the world with the unsurpassed road speed of 40 km/h (25 mph).

Faster than any other combine harvester.

The new generation TERRA TRAC takes your LEXION from field to field faster than any other combine harvester, with greater driving safety, 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.

LEXION 760



The TERRA TRAC with hydropneumatic suspension was recognised with the silver "SIMA Innovation Award" in 2011.



LEXION 760 TERRA TRAC – the fastest combine harvester in the world





LEXION 780/770



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 only 3.29 m (LEXION 760)
- Transport width 3.49 m (LEXION 780/770)
- Ground protection: 66% less pressure on the soil than with wheeled machines
- Improved traction (maize/rice/wet conditions/slopes)
- Greater stability on slopes (transverse slopes)
- Less drive resistance, less slippage, lower fuel consumption
- Longer operating times, better seasonal performance
- Fully suitable for road travel at 30 or 40 km/h



[go.claas.com/terratractransportwidth](http://go.claas.com/terratractransportwidth)

TERRA TRAC



#### Four links for exceptional manoeuvrability.

LEXION – a commitment: to the active pursuit of new solutions. This new design, developed and patented by CLAAS, sets new standards with two outstanding advantages. It ensures unrestricted mobility, even with large tyres up to 1.65 metres high (30"). And it provides exceptionally high stability and load-bearing capability.

Rather than responding to uneven terrain like a conventional swing axle with just a swing motion about the suspension point, the new 4-link axle also features a lateral movement. This gives the 4-link axle considerably greater flexibility with a small turning radius.

#### New from CLAAS: 30" tyres up to 1.65 m high.

The greater contact area results in a reduced track depth. So you are protecting the ground not only with TERRA TRAC at the front, but with the unique CLAAS 30" tyres on the rear wheels.

- Tyre size 500/85 R 30
- Tyre height up to 1.65 m

Unique 30" tyres for  
excellent ground protection



A world first.  
The 4-link axle.



[go.claas.com/lexion4linkaxle](http://go.claas.com/lexion4linkaxle)

4-link axle

# A superior driving experience.

## 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 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.

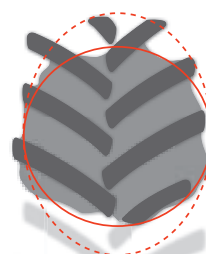
Tyre size	Standard tyres	MICHELIN CerexBib
680/85 R 32	2.9 bar	1.8 bar
800/70 R 32	2.4 bar	1.6 bar

Tyre size	Standard tyres	SVT CHO Continental
800/70 R 32	2.4 bar	1.6 bar

## 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

Standard tyres



5857 cm<sup>2</sup> 2.4 bar

800/70 R 32 / 9000 kg  
External width of LEXION 760:  
3.48 m

MICHELIN CerexBib  
ULTRAFLEX Technologies



7314 cm<sup>2</sup> 1.6 bar

IF 800/70 R 32 / 9000 kg  
External width of LEXION 760:  
3.48 m



Reduced tyre pressure for less soil compaction.



Reduced transport width with increased contact area.



## Hydrostatic ground drive. New series.

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 new 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.

Thanks to the electrohydraulic control system, the LEXION can be equipped with the CRUISE PILOT for automatic forward travel control. But whether used in manual or automatic mode, it drives like a luxury car with such a high level of operating comfort that performance is enhanced immediately.

Depending on the model, it is possible to select an on-road top speed of 20, 25, 30 or 40 km/h.

## Drives like an automobile.

When driving in road traffic, the LEXION 780/770/760/760 MONTANA models automatically reduce 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.

## New: differential lock.

If, under extremely wet conditions, the wheels begin to slip and spin, the differential lock can be used to redirect the drive torque: from the wheel which is spinning to the one with better traction. The ability to enhance traction in this way ensures that progress can continue to be made even when the ground is wet.

The wheeled versions of the LEXION 780 and 770 can be equipped with the differential lock.



Drives like an automobile: the reduction in the engine speed during on-road driving saves fuel.

Tyre technology  
Ground drive



### New: POWER TRAC.

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: with maximum pulling power yet reduced fuel consumption. The all-wheel drive operates reliably and is maintenance-free.

### The new drive concept:

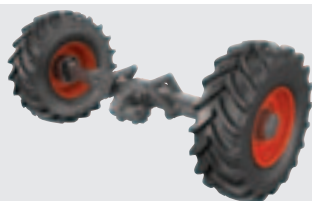
- Additional traction is provided by a second hydrostatic drive on the rear axle
- All-wheel drive can be engaged while on the move
- Classic two-wheel drive possible by mechanically disengaging rear-wheel drive: offers increased efficiency during on-road operation
- More pulling power

### New: 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.

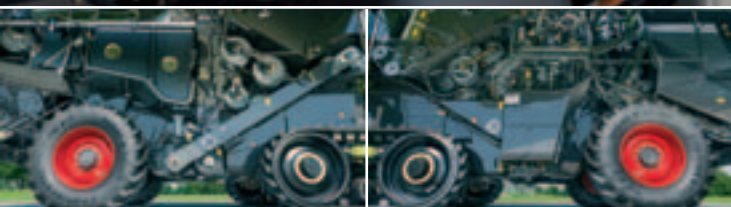
### How you benefit:

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



Intelligent all-wheel drive for maximum traction and minimal slipping

# More pulling power. Less maintenance.



## 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.

- Hinged radiator for fast, manual cleaning
- Mobile, foldable ladder for easy 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
- Central lubrication system or lubrication banks for fast access to lubrication service points
- Storage box, for example for the toolbox
- Unique side panel design (aluminium sandwich construction) for even simpler access

Large maintenance doors at all points,  
lightweight and easy to open

POWER TRAC  
Central Lubrication  
Maintenance

# More service from us. More success for you.

## Support around the clock.

You can depend on professional, reliable support from the FIRST CLAAS SERVICE® team at all times. Around the clock, CLAAS importers and dealers around the world supply spare parts quickly and offer reliable customer service.

## We're there wherever you are.

Our central spare parts warehouse delivers all ORIGINAL CLAAS parts quickly and reliably throughout the world. The large number of CLAAS partners ensures that they'll reach their destination in a very short time, no matter where you are.

## Our diagnostics are reliable.

The vast experience of our service specialists together with cutting edge diagnostic systems, such as CDS, guarantees spot-on troubleshooting as well as reliable configuration and updates by CEBIS.







## We speak the same language.

CLAAS dealers are among the world's most capable agricultural engineering companies. Not only are they highly trained and equipped with the right tools, they also have detailed knowledge of how farmers and contractors work. They understand your expectations and can meet your requirements for professional expertise and reliability.

## Service is close even when far away.

Every minute counts during the harvest. With CLAAS remote diagnostics you gain valuable time, and so do we. Our service staff have direct access via the internet to all the performance and electronic data of your LEXION, often enabling the problem to be solved remotely. If a service technician is required on site, we have all the necessary information in advance and can send any spare parts required right away.

## Invest in the best. Invest in success!

CLAAS offers you the highest level of safety and professional expertise with service packages you can rely on and the individual CLAAS MAXI CARE® programme.

With our post-harvest and annual checks to ensure maximum performance, service contracts at fixed prices for greater reliability and a flexible selection of extended warranty options, you can keep your costs transparent and predictable.

The comprehensive package for maintenance and repair:

- Post-harvest/annual check: proper inspection keeps you better prepared
- Maintenance contracts. FIRST CLAAS quality with maintenance at a fixed price.
- MAXI CARE® – reliable all-round protection



FIRST CLAAS SERVICE®  
MAXI CARE®

# More equipment.

GPS PILOT

Comfort cab

LASER PILOT

Centre-bearing supported  
reel and intake auger

Folding dividers

Stripper bars adjustable from the back

Divided knife bar

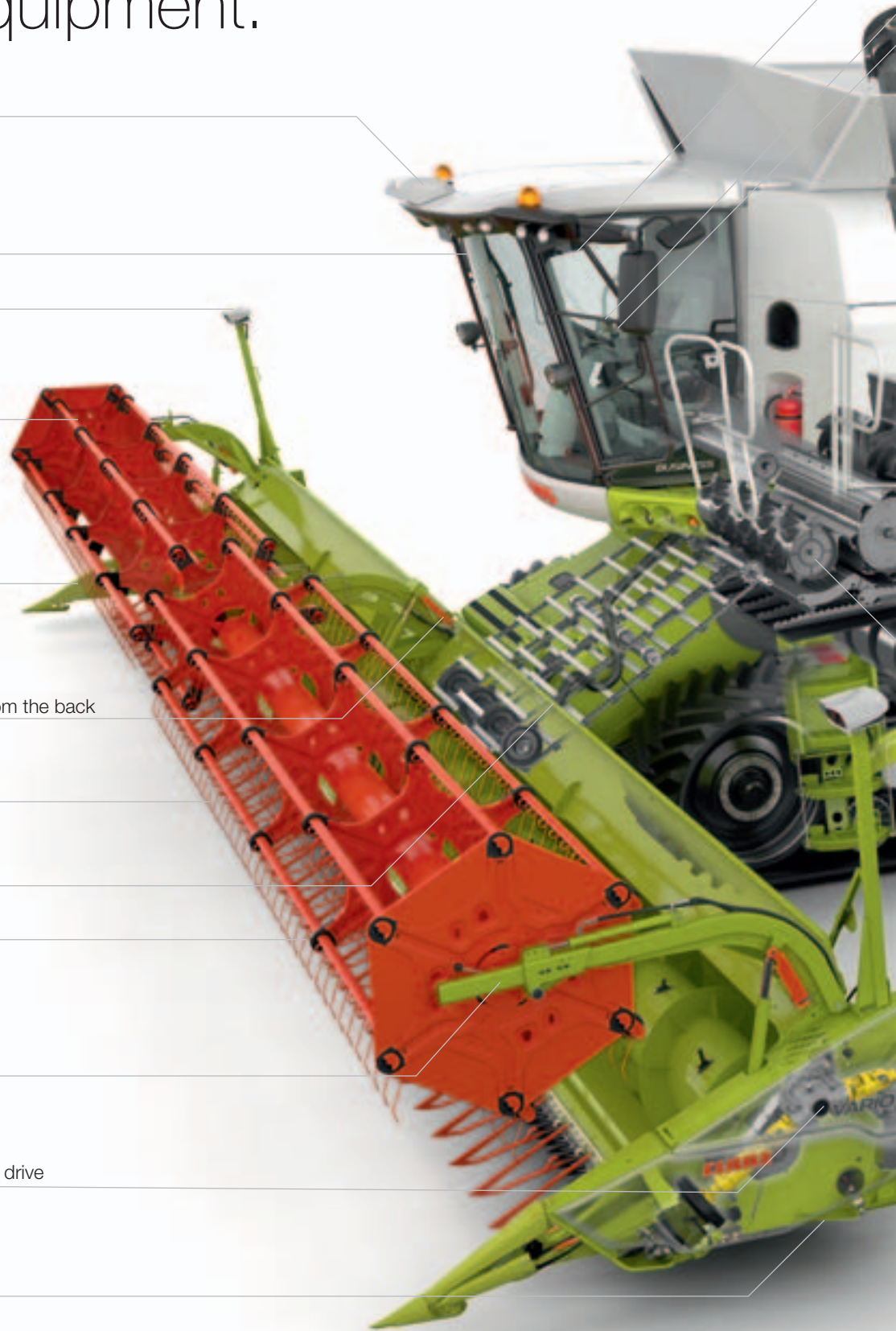
MultiCoupler

VARIO cutterbar table

Hydrostatic reel drive

Synchronised transmission drive

AUTO CONTOUR



CEMOS AUTOMATIC

CEMOS

CEBIS

DYNAMIC COOLING – cooling system with variable fan

PROFI CAM

ROTO PLUS

Mercedes-Benz or  
Caterpillar engine

Power spreader

SPECIAL CUT II chopper

Chaff blower

4-link axle with  
30" tyres up to 1.65 m in height

JET STREAM 3-D cleaning system

Separate returns pan

Turbine fan

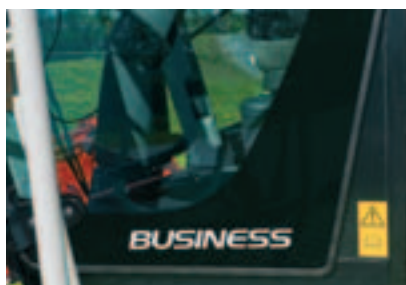
APS threshing system

TERRA TRAC / Tyre technology

The new LEXION  
at a glance

# A greater choice of equipment.

Depending on the model concerned, two or three different equipment packages are available for the LEXION range. As well as ensuring that you are ideally equipped for every application they offer cost savings compared with the price of an equivalent array of individual options.



## BUSINESS package<sup>1</sup>

- **CLAAS TELEMATICS**  
Availability of machine data via the internet
- **Yield mapping**  
Relevant data recorded on the machine for straightforward preparation of yield maps
- **Crop log**  
Crop-related data collection
- **Fuel consumption measurement**  
Precise measurement of fuel consumption



## Comfort package

- **Automatic climate control with heating**  
Optimum cab temperature through fully automatic climate control
- **Deluxe operator's seat**  
Ventilated, heated, automatic adjustment to operator's weight as well as vibration suppression
- **Refrigerator**  
43-litre capacity for chilled food and drinks
- **CD/MP3 radio with hands-free function**  
Impressive sound quality and Bluetooth hands-free function
- **Trailer coupling, automatic**  
Fast and reliable coupling of the road transport trailer



## Light & Sight package

- **GRAINMETER**  
Measurement and display of the grain content in the returns in order to optimise throughput
- **Electrically adjustable rear-view mirrors**  
Convenient adjustment of rear-view mirrors from operator's seat for optimal visibility
- **Xenon High End working lights**  
Optimal visibility in the working area, even after dark
- **Roller blinds for side windows**  
Prevention of dazzle for greater comfort when working
- **PROFI CAM**  
Outstanding view when offloading, distributing chopped material and reversing

<sup>1</sup> LEXION 780 and 770 only

# LEXION – a commitment.

## The arguments.

### Cab.

- The new soundproofed deluxe 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
- World first: CEMOS AUTOMATIC – continuous automatic adjustment of residual grain separation and cleaning
- EASY: CEBIS, CEMOS, CEMOS AUTOMATIC, CRUISE PILOT, automatic steering and CLAAS TELEMATICS guarantee unique comfort in steering and control
- Yield mapping and measurement as well as comprehensive order management

### Cutterbars.

- VARIO cutterbars in widths up to 12 m facilitate up to 10% better performance by optimising the crop flow
- 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, rice cutterbar, rapeseed cutterbar, MAXFLEX soybean cutterbar, CONSPEED, SUNSPEED, RAKE UP and MAXFLO ensure high flexibility

### Threshing technology.

- Up to 20% more throughput with the APS threshing system – improved grain quality through new, closed threshing drum
- APS + ROTO PLUS = APS HYBRID SYSTEM: an original only from CLAAS
- JET STREAM cleaning system plus 3-D cleaning for slopes up to 20%
- 12,500 litre grain tank, discharging rate up to 130 l/s
- Professional straw processing with SPECIAL CUT II and power spreader for even spreading of straw over the entire working width

### CPS – CLAAS POWER SYSTEMS.

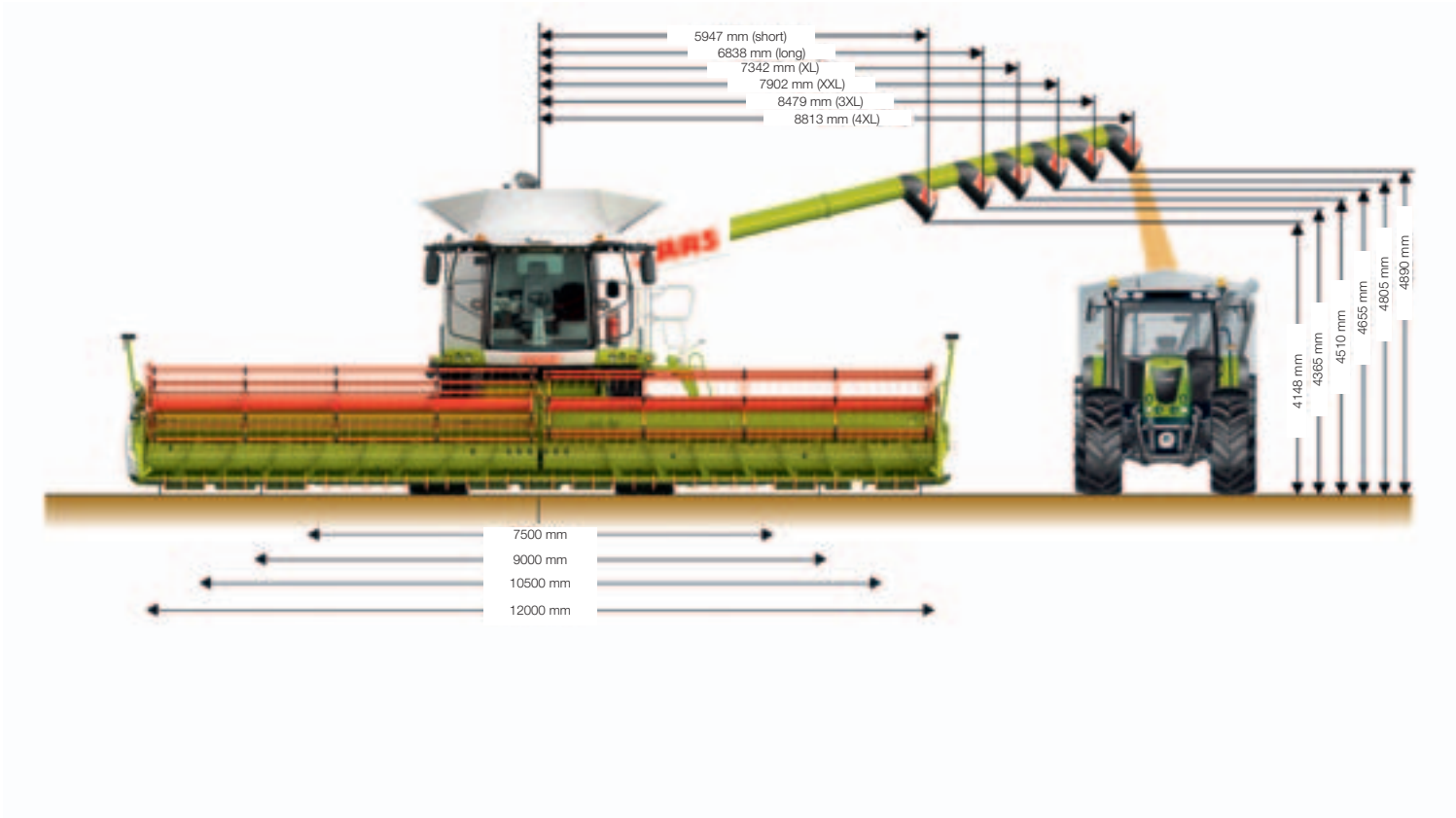
- Mercedes-Benz OM 502 or Caterpillar C 13 compliant with the latest emission standards provide reliable reserves of power
- DYNAMIC COOLING – new cooling system with variable fan drive
- High-performance working hydraulics for even faster operation of the MONTANA control system as well as AUTO CONTOUR
- High on-road speed saves time: electrohydraulic ground drive capable of up to 40 km/h
- TERRA TRAC and tyre technology for optimal ground protection
- New, unique 4-link axle with tyres measuring up to 1.65 m in height (30")
- POWER TRAC all-wheel drive and differential lock for progress under the most difficult conditions
- Central lubrication system for even less maintenance effort



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

Equipment packages  
Arguments

More height and width for comfortable offloading.





# Cutterbars

## Front attachment selection

VARIO cutterbars	V 1200, V 1050, V 900, V 750, V 660, V 600, V 540
Standard cutterbars	C 900, C 750, C 660, C 600
Rapeseed attachment	For all standard and VARIO cutterbars
Folding cutterbars	C 540, C 450
Maize harvester	6, 8 and 12 row
SUNSPEED	12 and 16 row
FLEX cutterbars	S 900, S 750, S 600, S 510, S 450
MAXFLEX	1200, 1050
MAXFLO	1200, 1050, 900
Standard rice cutterbars	R 750, R 660, R 600, R 540, R 490, R 430 (LEXION 770, LEXION 760, LEXION 760 TERRA TRAC Rice)
VARIO rice cutterbars	V 750, V 660, V 600, V 540 (LEXION 770, LEXION 760, LEXION 760 TERRA TRAC Rice)
RAKE UP	P 420
Variable speed drive front attachment (electrohydraulic)	rpm 284–420
Front attachment step drive	rpm 332, 420
Instant cutterbar brake	○

## Standard cutterbars

Effective cutting widths	C 900 (9.12 m), C 750 (7.60 m), C 660 (6.68 m), C 600 (6.07 m)
Drive	Single-side belt drive
Folding divider	●
Spacing of knife bar to intake auger	mm 580
Cutting frequency	strokes/min 1120
Multifinger intake auger	●
Hydraulic reverser	●
Hydrostatic reel drive	rpm 8–60
Automatic functions	
CONTOUR	○
AUTO CONTOUR	●
Reel speed control	●
Reel height adjustment	●
Replacement knife bar	●
Crop lifters	●

## VARIO cutterbars

Effective cutting widths	V 1200 (11.97 m), V 1050 (10.67 m)	V 900 (9.12 m), V 750 (7.60 m), V 660 (6.68 m), V 600 (6.07 m), V 540 (5.46 m)
Drive	Synchronised transmission drives on both sides	Single-side belt drive
Folding dividers	●	●
Spacing of knife bar to intake auger	mm 480–780, for rapeseed 1080	480–780, for rapeseed 1080
Knife bar	Divided, synchronised drive on both sides	Undivided
Cutting frequency	strokes/min 1334	1120
Reel and auger bearing	Divided reel and intake auger with central bearing	Single-unit reel and auger
Intake auger diameter	660	580
Automatic functions		
CONTOUR	○	○
AUTO CONTOUR	●	●
Reel speed control	●	●
Reel height adjustment	●	●
Reel levelling system	●	●
Table positioning	●	●
Replacement knife bar	●	●
Crop lifters	●	●

● Standard ○ Option



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