

# True revolutions start in the heart.

The all-new LEXION 8000-6000.



# The new LEXION. We put our heart into it.

Our passion for building combine harvesters dates back to 1936, since when we have continuously shaped the history of harvesting technology. Indeed, no other company has played such a significant role as CLAAS has in the development of today's combine harvesters. But there is more to what we do than advancing technology – we understand the needs of our customers. This is why much of what farmers and contractors tell us feeds into our development process. The demands of digitization, technical advances and climate change are also constantly driving us forward.

These challenges have made us what we are today: the partner of choice for revolutionary harvesting technology. We put our heart into creating trendsetting products which not only increase our customers' yields, but also make their daily work easier. So that they can always make the most of their resources.

This means that the new LEXION is much more than just the latest model of the series. It is the only combine harvester in its class which we have redesigned and redeveloped from the ground up in close cooperation with farmers, contractors and operators. Together, we have created a real revolution. But this is not just the consequence of our principle of always wanting to improve things. It is also the result of our sheer enthusiasm and passion for agriculture – because we know that true revolutions start in the heart.



**Cathrina Claas-Mühlhäuser**  
Chair of the Supervisory Board

How do we innovate at CLAAS?  
Simply by always working to make  
harvesting technology not just better,  
faster and more efficient, but a  
little different, too.

Front: LEXION 8700 with APS SYNFLOW HYBRID and VARIO 1230  
Rear: LEXION 6800 with APS SYNFLOW WALKER and VARIO 930



# 755 mm

1

Large threshing drum: threshing drum 26% bigger for optimal crop flow.

### 10% more throughput

8

New rotor concaves and extended 4D-cleaning system: 10% more throughput with the lowest fuel consumption and top straw quality.



### MULTICROP

7

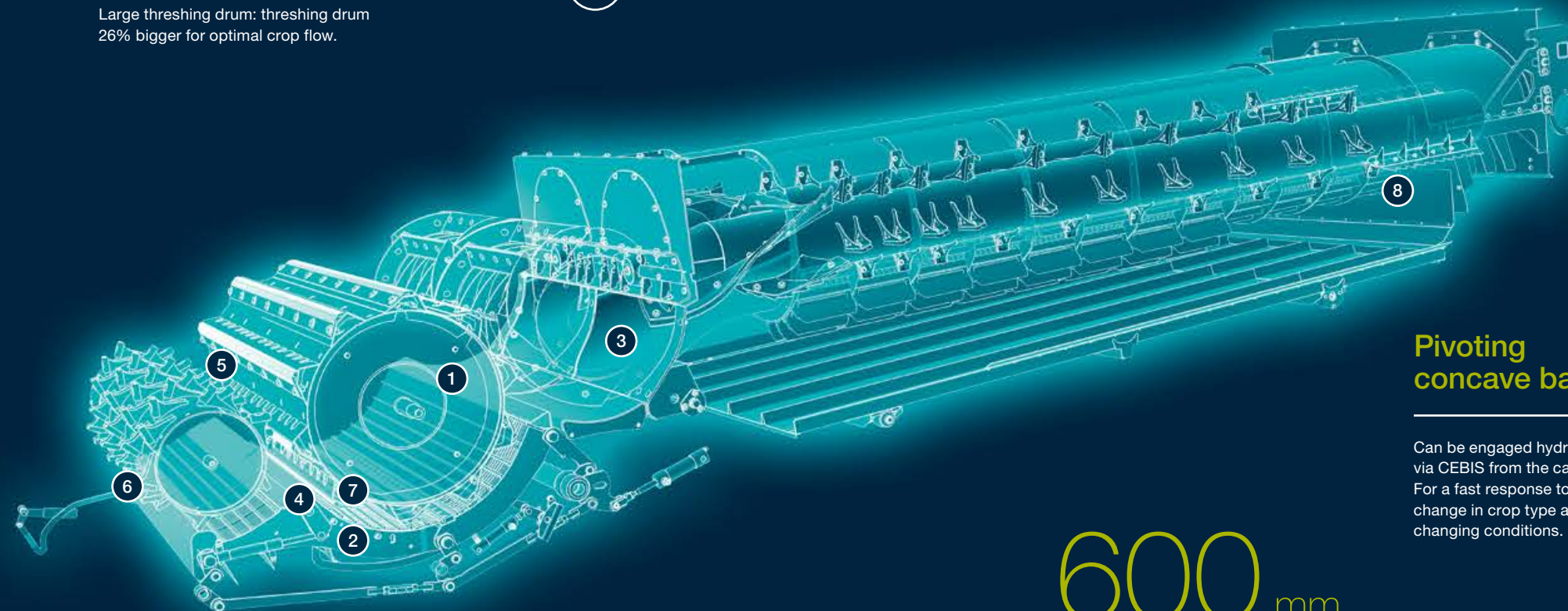


The easy procedure for changing the crop type by replacing the preconcave segments and the threshing concave segment keeps changeover times to a minimum.

## The heart of the matter. Where it all happens.

### APS SYNFLOW HYBRID.

A revolution always starts with the idea of bringing fundamental change to the established way of doing things. In the case of the new LEXION 8000 / 7000, there are multiple revolutions on board: the APS SYNFLOW HYBRID threshing technology – which was developed by CLAAS in 1995 – has been reworked from the ground up. The combination of the APS SYNFLOW threshing unit and ROTO PLUS secondary separation makes the APS SYNFLOW HYBRID threshing unit the trendsetter for its class.



### Maximum separation performance

6

Smooth acceleration of the crop flow to as much as 20 m/s by APS SYNFLOW for maximum separation performance.



### Pivoting concave bar

4

Can be engaged hydraulically via CEBIS from the cab. For a fast response to a change in crop type and changing conditions.



### Straight and fuel-saving crop flow

5



No unnecessary changes of speed or direction, centrifugal forces are maintained for gentle straw handling.

### Hydraulic threshing concave flap

2



Can be engaged from the cab or manually from the outside.

# 600 mm

3

Large feed drum: feed drum 37% bigger for optimal crop flow.




Experience perfect crop flow in action.

755 mm 1


Large threshing drum: threshing drum 26% bigger for optimal crop flow.

**Automatic adjustment** 8

All settings for the threshing unit are applied by CEMOS AUTO THRESHING.



**Gentle on grains and straw** 7

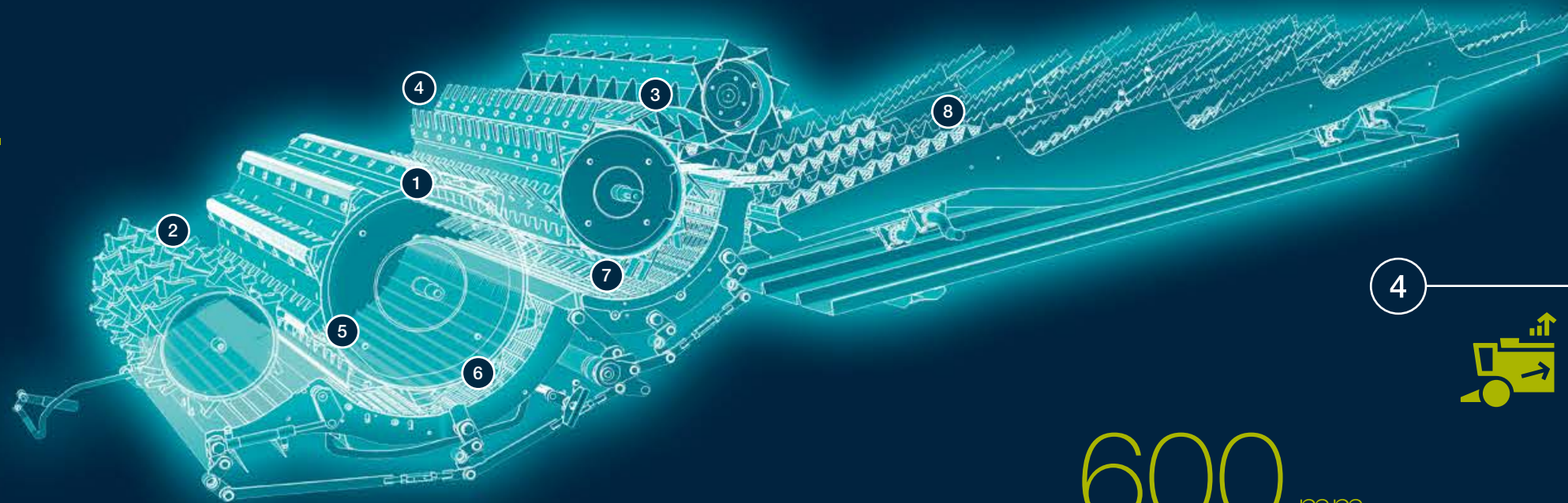


Parallel and synchronised adjustment of preconcave, separator concave and threshing concave.


# Innovation. Always at the cutting edge.

## APS SYNFLOW WALKER.

The key to lasting success is to stay hungry and to refuse to settle for the first solution that presents itself. It was with this principle in mind that we developed the APS SYNFLOW WALKER threshing system which opens up a new category in the straw walker combine harvester segment. It brings together the accelerated crop flow provided by APS with an additional separator drum after the threshing drum. In this way, you can benefit from exceptional throughput with excellent straw quality at the same time.



**Maximum separation performance** 2



Smooth acceleration of crop flow to as much as 20 m/s by APS SYNFLOW across all concave areas.

**600 mm** 3


Large, additional separator drum with active separation delivers greater throughput.

**Smooth and even crop flow** 4




Synchronised setting of speed for smooth crop flow in all speed ranges.

**Hydraulic threshing concave flap** 6



Can be engaged hydraulically from the cab or manually from the outside. For a fast response to a change in crop type or the conditions in the field.

**Pivoting concave bar** 5



Can be operated via CEBIS and can be engaged hydraulically from the cab. For a fast response to a change in crop type or the conditions in the field.



Experience perfect crop flow in action.

## Revolutions you can see. And which speak for themselves.

The new LEXION makes its mark not only with its internal revolution but with its external appearance, too. The new design is implemented consistently on the basis of a Y-shape which is open to the front and which symbolises both power and down-to-earth values. The colours CLAAS light grey and seed green with lava red highlights complete the design statement. Many new features, such as the more spacious cab or larger tyres, are integrated harmoniously in the overall concept. So you can be certain that, as well as enabling efficient harvesting, the new LEXION has what it takes to attract envious glances, too.

Up to **1.75 m**  
tyres on the  
steering axle

**100 %**  
of machines with  
DYNAMIC COOLING

Up to **13.80 m**  
working width

**105°**  
pivot angle for the grain tank  
unloading tube

Up to **18,000 l**  
grain tank capacity

Up to **571 hp**  
engine output



# The anticipation grows. And so does the performance.

Can the most productive combine harvester in the world be made even better? It can: thanks to the APS SYNFLOW threshing technology, you can achieve up to 25% more throughput. But that's only part of the story: a wide range of high-performance engines and drive systems as well as practical operator assistance systems make the new LEXION the most efficient version ever. In every field. In all harvesting conditions.



### DYNAMIC POWER. More intelligence for the engine.

- DYNAMIC POWER automatically adjusts the output to the field conditions when the engine is operating under partial load and delivers maximum efficiency at full load
- Fuel saving of 10% when operating under partial load, e.g. when swathing
- Maximum output automatically remains active during unloading

### DYNAMIC COOLING. Keeps its cool in every situation.

- Variable fan drive for cooling on demand
- Full fan speed only under full load
- Air flow with curtain effect actively minimises extent to which dust is able to rise
- Requires 20 kW less engine output through dynamic cooling and therefore saves fuel
- Standard on every LEXION



### JET STREAM. Impeccable cleaning.

- Dual-ventilated straw walker step for intensive pre-cleaning
- High standard of cleaning provided by powerful yet compact cleaning system
- Reduced sieve loading
- Standard on all machines



LEXION 8700 with APS SYNFLOW HYBRID threshing unit and VARIO cutterbar for 10% more throughput

40 km/h  
speed

40 km/h ground speed for LEXION 8000-6000: reduces transit time on the road and extends working time in the field.

Up to 2.15 m  
tyres

Tyre diameters of up to 2.15 m for the front wheels and 1.75 m for the rear: gentle on the soil and well matched to the large grain tank capacity.

180 l/s  
grain tank unloading

With high-speed unloading rate of 180 l/s. Available with grain tank capacity of 13,500 l and above.



**TELEMATICS.**  
Makes the most of your data.

Data transmission system used around the world for fleet management, machine optimisation, remote diagnostics and documentation.



**The new QUANTIMETER.**  
Precise measurement of all data.

- Independent of bulk density and volume
- Significantly reduced calibration effort
- Precise recording of yield data

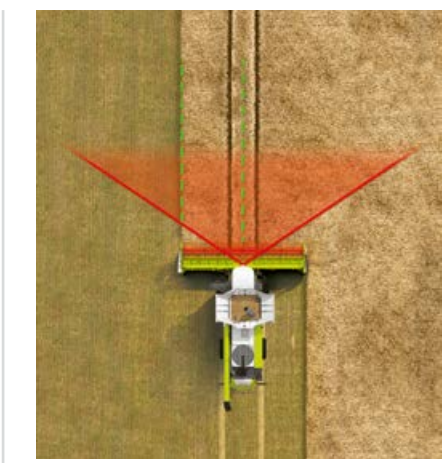
# Giving you that extra edge. Where it really counts.

When it comes to the most critical phase of the year, every millimetre counts. Because harvesting with the highest precision is the key to running your business more efficiently. That is why we have developed a series of intelligent operator assistance systems for the new LEXION. With their support, you can harvest with even greater precision and get the most out of every field.



**CEMOS AUTOMATIC.**  
The intelligent operator assistance system.

- Includes AUTO THRESHING, AUTO CLEANING and AUTO SEPARATION
- Continuously optimises the combine harvester and autonomously tests different settings (self-learning process)
- Supported by the artificial intelligence of CEMOS AUTOMATIC, the LEXION autonomously determines the best setting for the field.



**FIELD SCANNER.**  
Precise guidance.

- New sensor for LASER PILOT function reduces operator's workload
- For precise running along the edge of the crop and tramlines
- Makes use of the full width of the cutterbar and minimises the number of passes
- Does not depend on correction signals and their reception
- Fitted centrally on the cab roof

**Remote Service.**  
The intelligently networked fleet.

- Intelligent networking of your CLAAS machines
- Distributors and service partners can access your machine and your specific data directly
- For faster and direct maintenance and service
- We cover the cost of Remote Service for five years

# The time is ripe. For stress-free working.

From early morning to late at night: harvesting brings with it special challenges, not only for the machines, but for the people who operate them, too. To make daily work in the field as pleasant as possible, everything in the new LEXION is designed for convenience: the intelligent control concept supports the operator during every stage of the harvesting process. All these measures share the same objective: to make work as stress-free as possible and so achieve optimum performance.

## Operated from the cab. Climb in and get going.

- The pivoting concave bar, threshing concave flap and threshing drum speed reduction gearbox can be operated hydraulically from the cab
- Unique options for adjusting the threshing unit from the cab
- Fast reaction to changes in crop variety, type or moisture in the course of the day

## Fast crop type change. Easier than ever.

- The threshing concave segment can simply be pulled out to the side and replaced
- Preconcave segments can be accessed and changed through the stone trap
- Threshing drum speed reduction gear selection can be made without tools
- Optional: possible for crop type to be changed hydraulically from the cab



1. New CEBIS with touchscreen
2. CMOTION multi function lever
3. CEBIS control panel
4. Radio and telephone control panel
5. Direct adjustment switches
6. Front attachment and threshing unit switches
7. CEBIS MOBILE







**Low-maintenance.  
Always ready for action.**

- Hydraulic belt tensioners for the main belts
- Central lubrication system supplies all lubrication service points, even the variators



**Clean sweep.  
Perfect for field and machine.**

- Horizontal DYNAMIC COOLING system reduces the effort required to clean the air filter
- Reserves ensure sufficient cleaning capacity under all conditions
- Curtain effect of airflow keeps dust on the ground so that the engine compartment stays clean



# Sustained high performance. That you can rely on.

Achieving the best yield calls for more than just the right mixture of know-how and experience. Above all, you need harvesting machines which you can rely on, come what may. With its high-quality components and the intelligence of its whole design concept featuring practical operator assistance systems, the new LEXION is the most reliable combine harvester of all time. So you will always be able to keep your cool during the hottest phase of the year.

**New drive concept.**

**More power – less wear.**

- Powerband main drive for maximum efficiency
- Main drive with dry clutch for gentle engagement of all components
- Integrated overload protection for greater safety in the field

**Long service life.**

**Ready for today and the future.**

- Reinforced variators with new bearings and lubrication
- Variators optimised for more frequent adjustment by CEMOS AUTOMATIC
- All drives in the new LEXION are designed for higher throughput



Tested for use  
all over the world

Over **6,000**  
hours

of endurance testing

**8** years

of testing in the field

In **10** countries  
in the most  
varied conditions and  
crop types

LEXION		8700 / 8700 TERRA TRAC	7700 / 7700 TERRA TRAC	7600 / 7600 TERRA TRAC
<b>Threshing system</b>				
APS SYNFLOW HYBRID		●	●	●
Threshing drum width	mm	1700	1420	1420
Threshing drum diameter	mm	755	755	755
Feed drum diameter	mm	600	600	600
<b>Secondary separation</b>				
Rotors	No.	2	2	2
Rotor length	mm	4200	4200	4200
Rotor diameter	mm	445	445	445
Rotor sieves	No.	6	5	5
Hydraulic rotor flaps		○	○	○
<b>Crop cleaning</b>				
JET STREAM		●	●	●
3D-cleaning system		○	○	○
4D-cleaning system		○	○	○
<b>Grain tank</b>				
Capacity	l	15000 / 18000 <sup>1</sup>	12500 / 13500	11000 / 12500
Unloading rate	l/s	130 / 180	130 / 180	110 / 130
<b>Engine Tier 3</b>				
Manufacturer / Type		Perkins 2206 D	Perkins 2206 D	Perkins 2206 D
Cylinders / displacement	No./l	6 / 12,5	6 / 12,5	6 / 12,4
Maximum output (ECE R120)	kW/hp	420 / 571	385 / 524	339 / 461
DYNAMIC POWER		●	●	●
<b>Running gear</b>				
40 km/h		○	○	○
Differential lock for wheeled machine		○	○	○
<b>Operator assistance systems</b>				
CEMOS DIALOG		○	○	○
CEMOS AUTOMATIC		○	○	○
<b>Data management</b>				
TELEMATICS		●	●	●
Remote Service		○	○	○

<sup>1</sup> TERRA TRAC

● Standard ○ Option – Not available

LEXION		6800 / 6800 TERRA TRAC	6700 / 6700 TERRA TRAC
<b>Threshing system</b>			
APS SYNFLOW WALKER		●	●
Threshing drum width	mm	1700	1700
Threshing drum diameter	mm	755	755
<b>Secondary separation</b>			
Separator drum diameter	mm	600	600
Synchronised adjustment of separator drum speed		●	●
Synchronised concave adjustment, separator drum		●	●
straw walker	No.	6	6
Straw walker length	mm	3800	3800
Total secondary separation area	m <sup>2</sup>	7.62	7.62
<b>Crop cleaning</b>			
JET STREAM		●	●
3D-cleaning system		○	○
<b>Grain tank</b>			
Capacity	l	12500 / 13500	11000 / 12500
Unloading rate	l/s	130 / 180	110 / 130
<b>Engine Tier 3</b>			
Manufacturer / Type		Perkins 2206 D	Perkins 2206 D
Cylinders / displacement	No./l	6 / 12,5	6 / 12,5
Maximum output (ECE R120)	kW/hp	339 / 461	308 / 419
DYNAMIC POWER		●	●
<b>Running gear</b>			
40 km/h		○	○
Differential lock for wheeled machine		○	○
<b>Operator assistance systems</b>			
CEMOS DIALOG		○	○
CEMOS AUTOMATIC		○	○
<b>Data management</b>			
TELEMATICS		●	●
Remote Service		○	○

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



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

LRC / 102032000419 PP LC 0519 / 00 0259 243 0

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