

The revolution continues.

The new LEXION 5000-6000.



The new LEXION. We put our heart into it.

Last year saw the launch of a totally new concept in combine design, the new LEXION APS SYNFLOW HYBRID, introduced to the market after 8 years of endurance testing across 10 countries.

This year we continue that revolution in technological advancement with the introduction of the new LEXION APS SYNFLOW STRAW WALKER 5000-6000 series. With many of the innovative features on the new HYBRID range now fully integrated into the new straw walker range, the 5000 and 6000 combines offer an entirely new level of proficiency. Throughput, threshing capability, comfort and reliability have all been enhanced to provide greater precision in the field. You could say, we've given the combine a new heart – the APS SYNFLOW – and its every beat improves the performance of your machine.

At CLAAS we are passionate about agriculture, we continually strive to build the very best in order that your harvest is as productive as possible. We've listened to what our customers have said and with the new 5000-6000 range we believe we have revolutionised straw walker harvesting performance.

The heart is new in LEXION, but we've kept the soul unchanged.



Jeremy Wiggins
Chief Customer Officer,
CLAAS UK



755 mm 1

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

Automatic adjustment

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



8

Gentle on grains and straw

Parallel and synchronised adjustment of all concaves.

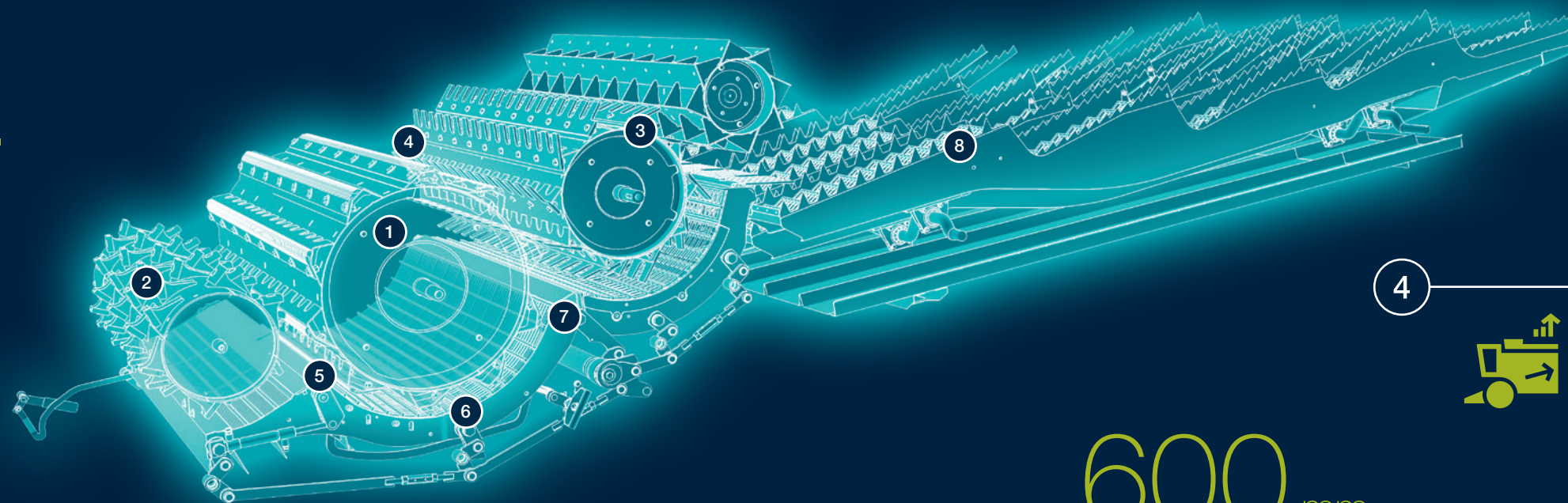


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Innovation. Always at the cutting edge.

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

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.



6

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.



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.

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 **12.3 m**
working width

105°
pivot angle for the grain tank
unloading tube

Up to **13,500 l**
grain tank capacity

Up to **507 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 far greater 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.

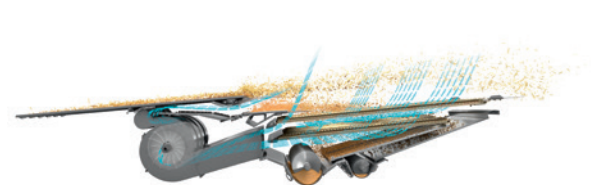


DYNAMIC POWER. More intelligence for the engine.

- 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 6900 with APS SYNFLOW WALKER threshing unit and VARIO cutterbar for more throughput

40 km/h
speed

40 km/h ground speed for LEXION 5000-6000: 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.

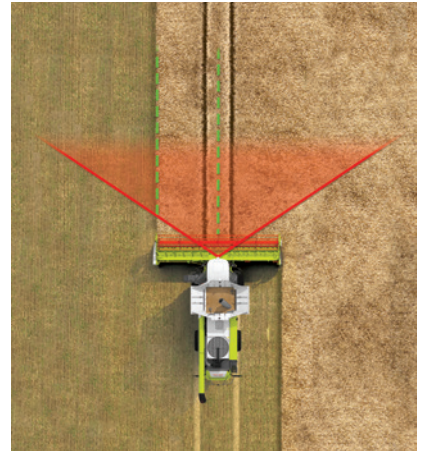


CEMOS AUTOMATIC.
The intelligent operator assistance system.

- Includes AUTO THRESHING and AUTO CLEANING
- 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.

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



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

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





**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



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

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



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.

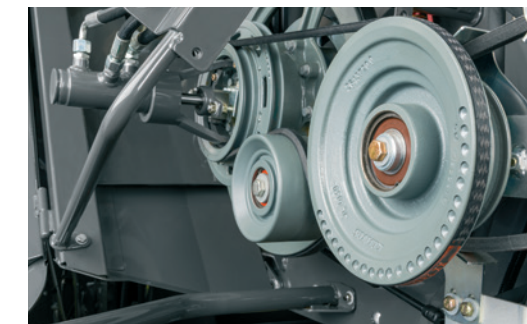
More power – less wear.

- 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

Technical data 5000 / 6000

| LEXION | | 6900 / 6900 TERRA TRAC | 6800 / 6800 TERRA TRAC | 6700 / 6700 TERRA TRAC | 6600 |
|---|----------------|------------------------|-------------------------|-------------------------|-------------------------|
| Threshing system | | | | | |
| APS SYNFLOW WALKER | | ● | ● | ● | ● |
| Threshing drum width | mm | 1700 | 1700 | 1700 | 1700 |
| Threshing drum diameter | mm | 755 | 755 | 755 | 755 |
| Secondary separation | | | | | |
| Separator drum diameter | mm | 600 | 600 | 600 | 600 |
| Synchronised adjustment of separator drum speed | | ● | ● | ● | ● |
| Synchronised concave adjustment, separator drum | | ● | ● | ● | ● |
| Straw walker | No. | 6 | 6 | 6 | 6 |
| Straw walker length | mm | 3800 | 3800 | 3800 | 3800 |
| Total secondary separation area | m ² | 7.62 | 7.62 | 7.62 | 7.62 |
| Crop cleaning | | | | | |
| JET STREAM | | ● | ● | ● | ● |
| 3D-cleaning system | | ○ | ○ | ○ | ○ |
| Grain tank | | | | | |
| Capacity | l | 12500 / 13500 | 11000 / 12500 | 10000 / 11000 | 9000 / 10000 |
| Unloading rate | l/s | 130 / 180 | 110 / 130 | 110 / 130 | 110 |
| Engine Stage V | | | | | |
| Manufacturer / Type | | MAN D26 | Mercedes-Benz OM 470 LA | Mercedes-Benz OM 470 LA | Mercedes-Benz OM 936 LA |
| Cylinders / displacement | No./l | 6 / 12.4 | 6 / 10.7 | 6 / 10.7 | 6 / 7.7 |
| Maximum output (ECE R120) | kW/hp | 373 / 507 | 340 / 462 | 300 / 408 | 260 / 354 |
| DYNAMIC POWER | | ● | ● | ● | ● |
| Running gear | | | | | |
| 40 km/h | | ○ | ○ | ○ | - |
| Differential lock for wheeled machine | | ○ | ○ | ○ | ○ |
| Operator assistance systems | | | | | |
| CEMOS DIALOG | | ○ | ○ | ○ | ○ |
| CEMOS AUTOMATIC | | ○ | ○ | ○ | ○ |
| Data management | | | | | |
| TELEMATICS | | ● | ● | ● | ● |
| Remote Service | | ○ | ○ | ○ | ○ |

¹ TERRA TRAC

● Standard ○ Option – Not available

| LEXION | | 5500 TERRA TRAC | 5400 | 5300 |
|---|----------------|-------------------------|-------------------------|-------------------------|
| Threshing system | | | | |
| APS SYNFLOW WALKER | | ● | ● | ● |
| Threshing drum width | mm | 1420 | 1420 | 1420 |
| Threshing drum diameter | mm | 755 | 755 | 755 |
| Secondary separation | | | | |
| Separator drum diameter | mm | 600 | 600 | 600 |
| Synchronised adjustment of separator drum speed | | ● | ● | ● |
| Synchronised concave adjustment, separator drum | | ● | ● | ● |
| Straw walker | No. | 5 | 5 | 5 |
| Straw walker length | mm | 3800 | 3800 | 3800 |
| Total secondary separation area | m ² | 6.37 | 6.37 | 6.37 |
| Crop cleaning | | | | |
| JET STREAM | | ● | ● | ● |
| 3D-cleaning system | | ○ | ○ | ○ |
| Grain tank | | | | |
| Capacity | l | 10000 / 11000 | 10000 | 9000 / 10000 |
| Unloading rate | l/s | 110 / 130 | 110 | 110 |
| Engine Stage V | | | | |
| Manufacturer / Type | | Mercedes-Benz OM 470 LA | Mercedes-Benz OM 936 LA | Mercedes-Benz OM 936 LA |
| Cylinders / displacement | No./l | 6 / 10.7 | 6 / 7.7 | 6 / 7.7 |
| Maximum output (ECE R120) | kW/hp | 300 / 408 | 260 / 354 | 230 / 313 |
| DYNAMIC POWER | | ● | ● | ● |
| Running gear | | | | |
| 40 km/h | | ○ | ○ | - |
| Differential lock for wheeled machine | | ○ | ○ | ○ |
| Operator assistance systems | | | | |
| CEMOS DIALOG | | ○ | ○ | ○ |
| CEMOS AUTOMATIC | | ○ | ○ | ○ |
| Data management | | | | |
| TELEMATICS | | ● | ● | ● |
| Remote Service | | ○ | ○ | ○ |

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A dark, starry night sky over a field of golden-brown grass. The sky is a deep, dark blue, dotted with numerous small, bright stars. The field below is a mix of dark and light brown, suggesting a field of mature crops or grass. The horizon is a dark, silhouetted line of land.

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