

ORBIS
900 750 600 450

CLAAS

More bite.



Efficient maize harvesting is an art.



ORBIS 750



ORBIS 450



ORBIS 900



ORBIS 600

ORBIS is the new row-independent maize header from CLAAS, and opens up entirely new dimensions in terms of efficiency and flexibility.

Larger working widths

than ever before – with ORBIS.

Page 4

Excellent, precise chopping quality

ORBIS always feeds the crop lengthways to the JAGUAR.

Page 5

Light-running drive

significantly reduces the power requirement and fuel consumption.

Page 6

New header suspension

guarantees excellent ground-contour tracking.

Page 10

Contents

Smart ideas throughout	4
Light-running drive	6
New structure	8
Perfect ground-contour tracking	10
Great versatility	12
A full view of the road	14
Maintenance	16
Features	19
Specifications	20



Up to 9 m working width.

ORBIS is the new row-independent maize header from CLAAS – a technological innovation that incorporates a completely new design and a superb drive based on the experience we have gained from around the globe. Its outstanding features and excellent reliability ensure success every time during the maize harvest.

A central locking system ensures that the ORBIS is securely connected to the JAGUAR. Power is transmitted smoothly via a quick coupler or, in the JAGUAR 900 – 830 range, via a drive shaft.





No more bottlenecks in the maize harvest.



Smooth crop flow.

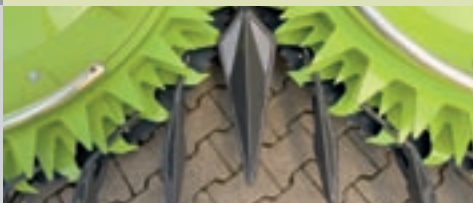
The crop is laid flat and the stems are always fed to the JAGUAR lengthways. This guarantees an impressively consistent chopping quality.

Compact dimensions.

The ORBIS is characterised by excellent, unrestricted visibility and low axle loads. The extremely short structure facilitates simple manoeuvring even when cornering tightly.

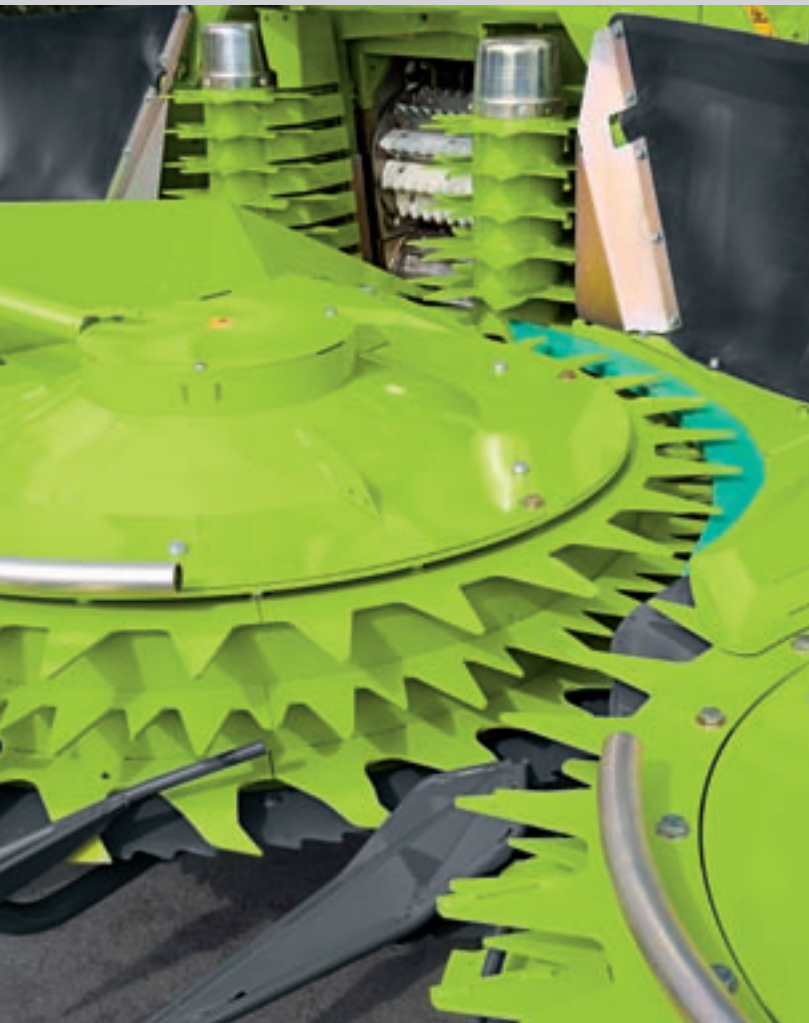
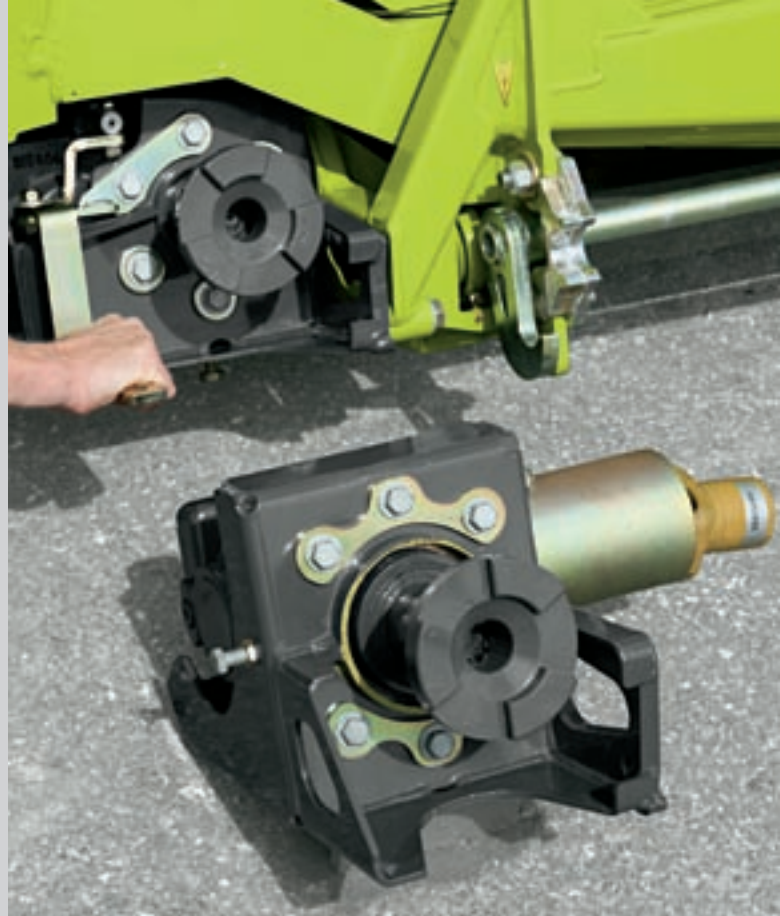
Light-running drive.

The extremely low power requirement significantly reduces diesel consumption and enhances the overall performance of the forage harvester. The low starting torque enables you to engage and reverse under full load without any problems, leading to increased performance overall.



Smart ideas throughout

Save power and fuel.



Drive requires less power.

The JAGUAR transmits its power to the ORBIS maize header mechanically. However, ORBIS doesn't require a huge amount of power. The new drive concept has fewer transmission stages, and the low starting torque is a major asset.

- Reduced diesel consumption, thanks to low power requirement
- Engage or reverse under full load
- The drive elements are individually protected
- Input transmission with two speed settings for optimum adjustment to different harvest conditions
 - Optional: Two-speed input transmission (standard speed / speed -20%)
 - Optional: Clutchless reverser (standard speed or +13%)
- The vertical intake augers can be operated at two speeds to adjust to the chop length
- The laid maize augers can be switched on or off individually to ensure an optimum crop flow
- Easy access to all drive modules

You can easily switch between the two intake capstan speeds, and the drive for the laid maize augers can be switched on or off as required.





Smooth crop transfer from the
transport discs to the intake rollers.

Light-running drive



3-tier structure.

However difficult the harvesting conditions may be, the 3-tier structure of the ORBIS transport discs ensures a clean and even crop flow every time.

- The synchronised rotation of the large cutting and transport discs guarantees a consistent and gentle crop transfer
- Thanks to the small distance between the cutting edge and the discs, ORBIS always leaves behind a uniform stubble height
- Sturdy tubular bars prevent the cobs from falling out, keeping losses to a minimum
- The blades are always sharp, thanks to the self-sharpening action

Optional equipment.

- Optional conveyor caps improve crop flow in laid maize or other difficult harvesting conditions
- The bolt-on guide fingers optimise crop uptake in a variety of harvesting conditions
- Guide finger extensions improve crop uptake in laid crops



High quality work.

A sharp cut and
a reliable transfer.



Versatile harvesting
Consistent and gentle
crop transfer

Excels on all types of terrain.





Perfect ground-contour tracking.

The header suspension ensures that ORBIS maintains an ideal lateral balance and adjusts itself to the field contours. This leads to an appreciable reduction in wear and increases reliability.

The swivel-mounted frame is connected to the main frame by three arms, which has the following advantages:

- Low friction
- Light-footed
- Hugs the ground contours

The adjustable central damper has a defined central position to ensure safety and stability in all applications.

- Minimum bounce, even on slopes
- Mechanical lateral balance when CLAAS CONTOUR comes into contact with the ground
- Automatic lateral balance with CLAAS AUTO CONTOUR by means of outer sensor skids
- No need to lock the frame when driving on the road



Ground-contour tracking



The range of crops that ORBIS can harvest is growing.

ORBIS can be adapted to these crops with very few technical modifications, enabling you to harvest sorghum, sunflowers and whole crop silage as well as maize.

The CLAAS ORBIS is available with a variety of equipment options. This means that your purchasing decision can take account of whether you will need to adjust the speed to different operating conditions.

Harvesting whole crop silage.



ORBIS - great versatility.



Harvesting sorghum.

Versatility

Highly efficient in the field,
narrow on the road.



CLAAS AUTO PILOT.

Two mechanical sensors identify a row of maize, send steering signals to the machine and guide it along the row. This greatly reduces the workload for the driver.





Folding outer sections.

For road travel, you can cut the width of the ORBIS right back. On the ORBIS 600 and the ORBIS 450, the side units are simply folded up vertically, while on the ORBIS 900 and ORBIS 750, they are folded over one another.

- The new suspended-frame geometry automatically neutralises the lateral tilt
- The folding geometry passes over dead centre so that the ORBIS header is located securely in both the working and transport positions
- The folding protective bar with built-in lighting is easy to install
- Thanks to the additional running gear, ORBIS 900 is safe to drive on the road at speeds of up to 40 km/h
- The easy-to-mount feature and automatic locking enable you to move quickly between fields

A full view of the road

Minimum wear and low maintenance requirements – what more could you ask for?

Guaranteed durability.

Every minute counts in the short forage harvesting period. Time-consuming maintenance work is a nuisance and also a cost factor, since it reduces the number of productive hours – and also your profit margin.

With ORBIS, wear-resistant parts ensure high long-term reliability:

- The knives have tungsten carbide coating to increase their service life
- The speed differential to the transport disc creates a self sharpening action
- The cutting and transport discs have a modular structure consisting of six segments and provide exceptional ease of access





Maintenance costs cut to the bone.

CLAAS engineers have done all they can to keep your maintenance requirements to a minimum.

- Lubrication is only required every 250 operating hours
- All lubrication points are easily accessible
- You can put in 1,000 hours of operation before the transmission oil needs to be changed
- All wear parts can be replaced quickly and easily

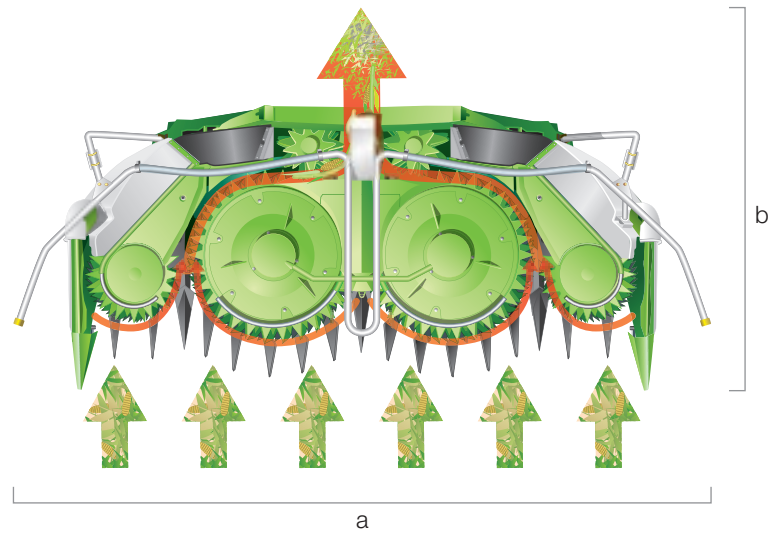


Maintenance

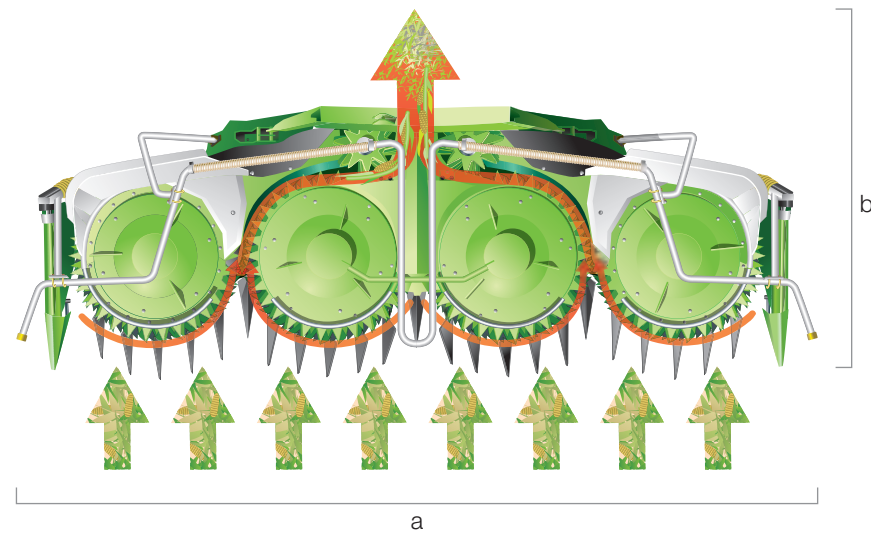


ORBIS

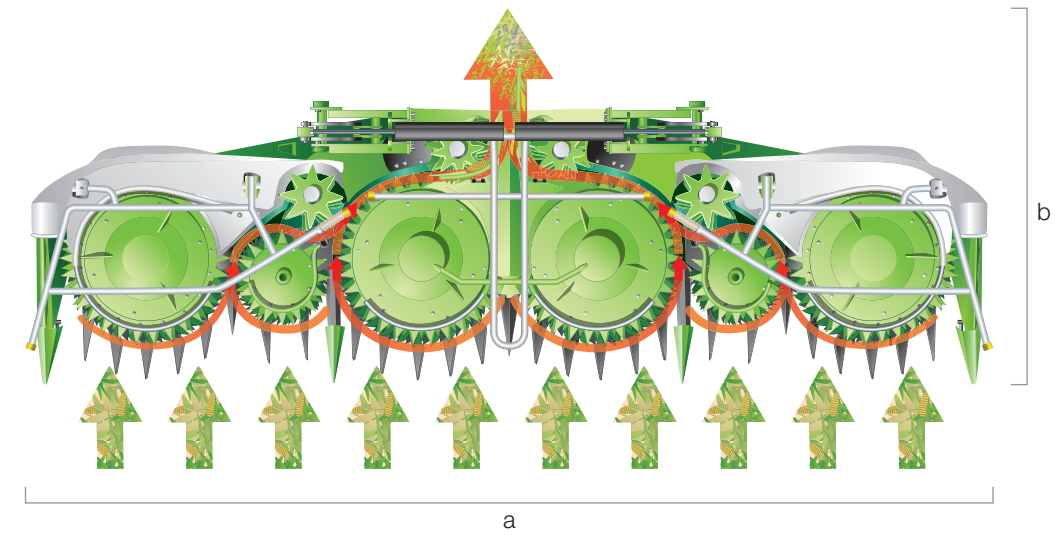
		900	750	600	450
Working width (a)	mm	9170	7600	6150	4750
Transport width	mm	3290	3000	3000	3000
Length (b)	mm	2450	2450	2350	2400
Height	mm	1425	1425	1350	1500
Weight (approx.)	kg	4000	3300	2700	2255



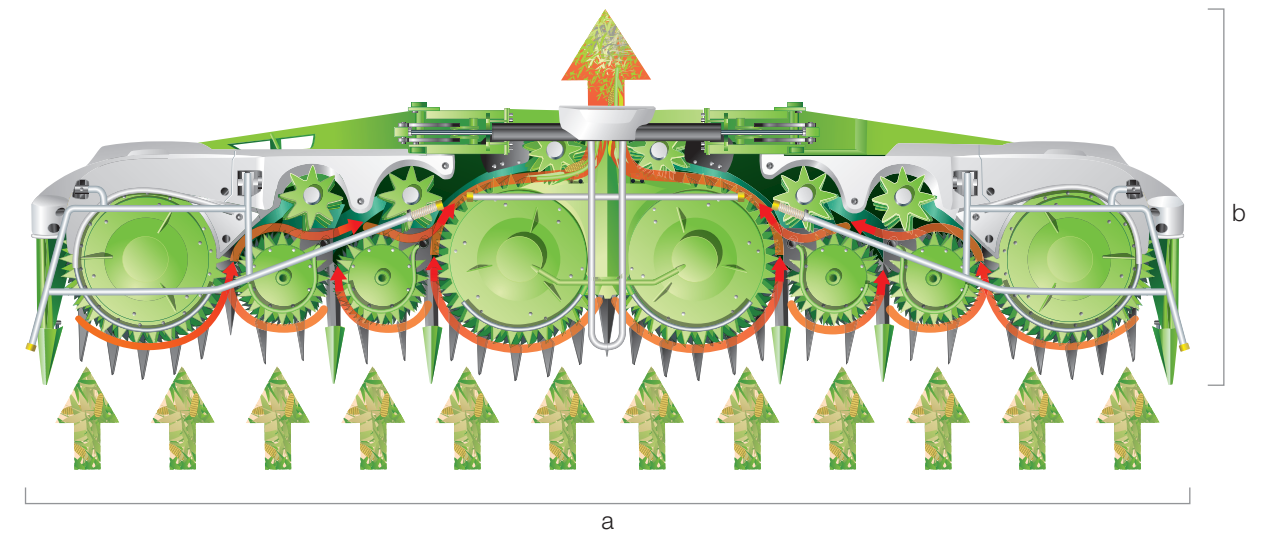
ORBIS 450



ORBIS 600



ORBIS 750



ORBIS 900



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.

Simple maintenance
Specifications

More bite in the maize harvest.

Innovative technology.

- Up to 9 m working width
- Quick coupling connection
- Light-running, energy-saving drive
- 3-tier structure of the ORBIS transport discs ensures an even crop flow
- Each tier has a modular structure with excellent accessibility
- The synchronised rotation of the cutting and transport discs ensures a consistent and gentle crop transfer
- The outer sections fold on top of one another (ORBIS 900 and ORBIS 750), or are raised (ORBIS 600 and ORBIS 450)
- Folding protective bar with built-in lighting
- Optimally coordinated cutting and transport disc speeds
- Drive can be engaged or reversed under full load
- Vertical intake augers can be operated at two different speeds
- Main input transmission with two speed levels
- Laid maize augers can be switched on or off individually
- Excellent ground-contour tracking, thanks to the advanced control geometry
- Swivel-mounted frame connected to the main frame by three arms
- Adjustable centre damper with a defined central position
- Low wear and minimum maintenance requirement
- Simple running gear for the ORBIS 900



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