

PICK UP  
DIRECT DISC  
ORBIS  
CONSPEED  
HS2

**CLAAS**

Out in front -  
attachments for the  
JAGUAR.



# Efficient maize harvesting is an art.



Built to meet the challenge.

With their versatile range of front attachments, CLAAS JAGUAR machines harvest an extremely diverse array of crops around the world. The effort put into the continuous development of the powerful front attachments is reflected in their high operating reliability. The development activity focuses in particular on the work quality, wear resistance and performance of the front attachments.



## Contents

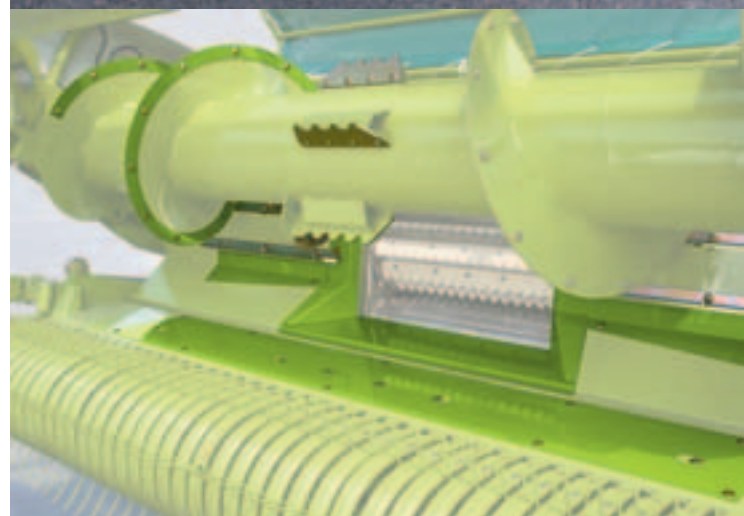
PICK UP 380 / 300	4
PU 300 HD	7
DIRECT DISC 610 / 520	8
ORBIS	12
RU 450	26
CONSPEED, HS2	28
Features	30
Specifications	31

# PICK UP 380 / 300. Get even more out of your JAGUAR.

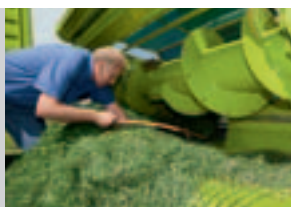
## PICK UP family for the JAGUAR 900 series.

Ever-increasing yields and more powerful forage harvesters make sense only if the crop can be taken up cleanly and the design is both robust and easy to operate. The PICK UP 380 and 300, with working widths of 3.80 metres and 3.00 metres respectively, meet these requirements with a wealth of features.

- Small-diameter rake with four or five rows of tines for perfect crop intake
- Large auger diameter with paddles for optimal crop flow, even at maximum throughput
- Rugged drive line with easy-to-operate, two-speed gearbox
- Wear parts can be replaced easily
- Excellent ground-contour tracking thanks to freely pivoting rake and, in the case of PU 380, with a swivelling frame
- Hydraulic auger elevation for optimal accessibility and easy location of foreign objects, such as metal items and stones



Optimal accessibility when  
searching for foreign objects  
and easy replacement of wear  
parts





### Hitching.

When backing up and hitching the PICK UP to the JAGUAR, the drive train is automatically connected via the quick coupling. The central locking system is easily accessible on the left-hand side. Only two hydraulic lines and one control cable need to be connected. With the parking stands locked into place, the PICK UP is in its work position.

### High performance:

- Twin roller crop press for consistent crop flow
- The castor guide wheels which can be adjusted without tools (hydraulically actuated folding guide wheels are available as an option) are situated on the same axis as the rake for efficient crop intake
- The optional spring-loaded intake auger increases throughput in difficult conditions and when handling large swaths
- Speed of intake auger is adjusted as required



PICK UP 380 with mechanically swivelling frame



PICK UP 380 / 300 for JAGUAR 900 series



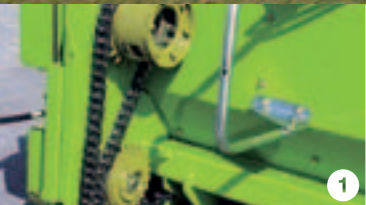
The CLAAS CAM PILOT helps you harvest with fewer losses.

The CLAAS CAM PILOT assumes the task of steering the 900-series JAGUAR when the PICK UP is fitted, which means that working speeds of up to 15 km/h can be achieved without fatigue. What's more, the driver can focus more fully on filling up the trailer without crop losses. The CAM PILOT detects the swaths in three dimensions and automatically applies the appropriate steering input. The CAM PILOT is also activated in the usual way by using the speed control lever, and is deactivated again whenever the steering wheel is turned.



Guide wheels can be folded hydraulically or manually

# PU 300 HD.



## PU 300 HD for JAGUAR 800 series.

Characteristics of the proven PU 300 HD:

- High throughput for JAGUAR 900–830
- Small-diameter rake with four rows of tines for perfect crop intake
- Large auger diameter with paddles for optimal crop flow
- Twin roller crop press for optimal crop flow
- Castor guide wheels (which can be adjusted without tools) are situated on the same axis as the rake for optimal ground contour tracking
- Drive via drive shaft
- With hydraulic auger elevation for optimal accessibility when searching for foreign objects

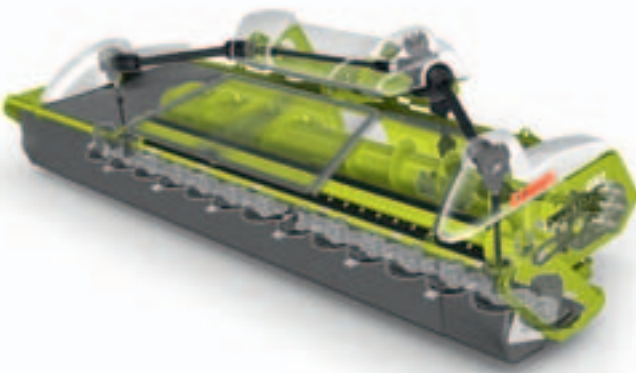
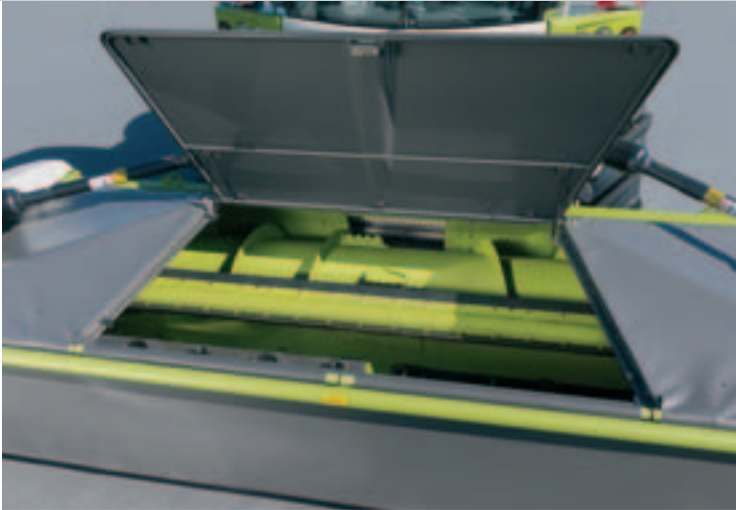
- 1 Heavy-duty chain drive
- 2 Central land wheel for optimal ground contour tracking

PU 300 HD  
for 800-series JAGUAR

# DIRECT DISC 610 / 520.

Whole crop harvesting with DIRECT DISC 610 and 520 for the JAGUAR 900 series.

Whether you're intending to use milk ripe plants for high-grade animal feed or as biomass for energy production, this front attachment means you can mow and chop in a single pass. The crop is first cut by the disc mower, after which it is fed directly to the intake auger via a paddle roller. From there, it is fed to the chopper intake.



Drive via quick-connect coupler



Paddle roller height is adjusted hydraulically





Knives can be changed quickly



DIRECT DISC 610 / 520  
for 900-series JAGUAR

## Simply hitch up for flawless harvesting.

- Driven via quick-connect coupler: simply hitch up and lock
- Cutting is handled by two proven P-CUT mower heads with SAFETY LINK modules for safe mowing
- The standard-fit quick knife change dramatically reduces maintenance times
- Direct drive of conveying elements on activation of mowers via hydraulic coupling for reliable power transfer
- Paddle roller with three-stage height adjustment (continuous hydraulic adjustment available as an option) for perfect adaptation to the harvesting conditions
- Optional feeding drums for optimal crop flow in difficult harvesting conditions
- Three speeds of conveying elements for a smooth crop flow
- Ideal ground contour tracking with CONTOUR ground-pressure control and swivel-mounted frame for excellent work quality
- Reversible conveying elements
- Safe road transport at up to 40 km/h on the trailer



# DIRECT DISC 520.



## DIRECT DISC 520 for JAGUAR 800 series.

The conveying elements are driven via the chop length gearbox. Power is transmitted to the mower unit via a belt driven directly by the knife drum shaft on the forager. This arrangement ensures a high level of drive power and a constant speed for the mower unit.

- Proven DISCO P-CUT mower head with SAFETY LINK modules for safe mowing
- The quick knife change dramatically reduces maintenance times
- The paddle roller is hydraulically height-adjustable for perfect adaptation to the harvesting conditions
- Optional feeding drums for optimal crop flow in difficult harvesting conditions
- Two speeds for paddle roller and intake auger
- Ideal ground contour tracking with CONTOUR ground-pressure control and swivel-mounted frame for excellent work quality
- Reversible conveying elements
- Safe road transport at up to 40 km/h on the trailer



Perfect work quality

DIRECT DISC 520  
for 800-series JAGUAR

# ORBIS 900 / 750 / 600 / 450. Row-independent harvesting.

Up to 9.0 m working width.

The ORBIS row-independent maize header from CLAAS combines completely new design and drive ideas with the experience we have gained around the globe. Its outstanding features and excellent reliability ensure success 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.





### Smooth crop flow.

The crop is laid flat and the stems are always fed to the JAGUAR lengthways. This ensures impressively precise chopping quality.

### Compact dimensions.

The ORBIS is characterised by excellent, unrestricted visibility and low axle loads. The extremely short structure facilitates simple manoeuvring, even in tight turns.

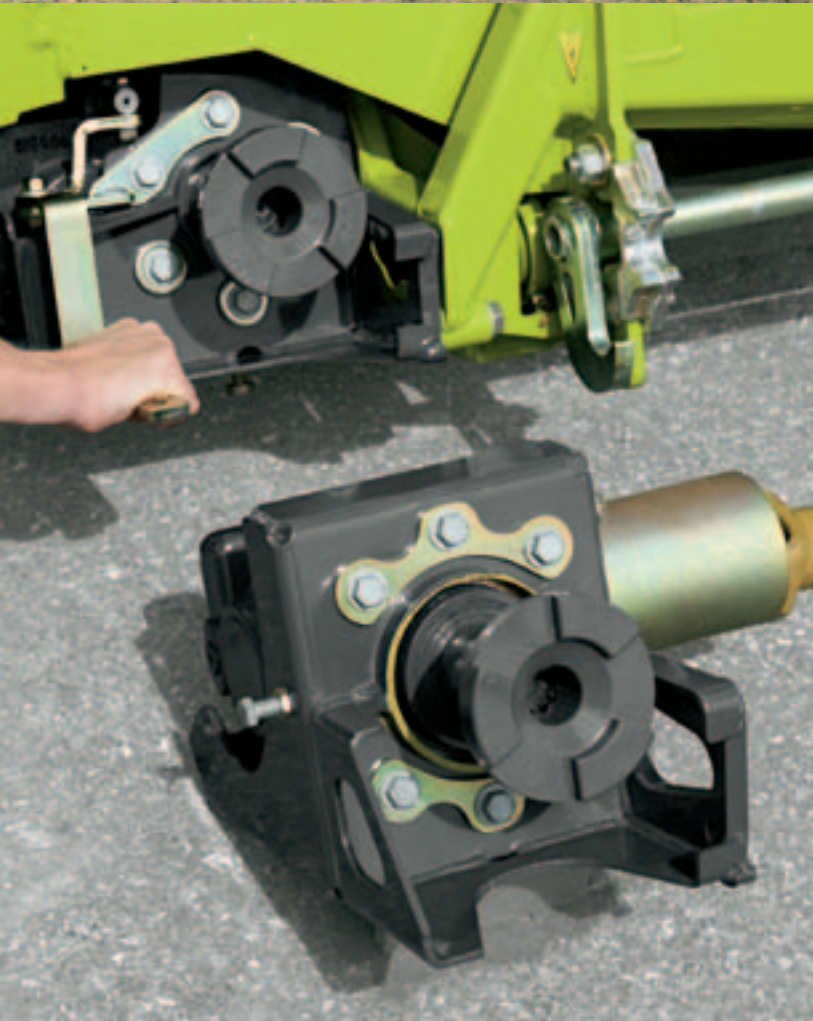
### Free-running drive.

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. As the outstanding chopping quality is maintained even during forage trailer changeovers, overall performance is increased.

Working widths of 4.50 m to 9.0 m



ORBIS



### Drive requires less power.

The JAGUAR transmits its power to the ORBIS maize header mechanically. However, ORBIS does not 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.



Save power  
and fuel.



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

Drive

# A sharp cut and a reliable transfer.

## 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



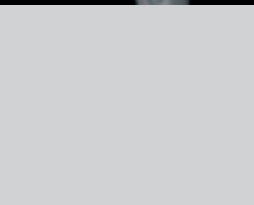
High work quality





## Reliability.

The ORBIS concept featuring large discs is characterised by an extremely high crop flow. The ORBIS handles maize stands of up to 100 t/ha (US or Italian harvesting conditions) perfectly. When harvesting extremely mature maize stands, sturdy tubular bars keep losses to a minimum. In the event of reversing, the plants which have already been cut remain on the large discs and are then drawn in. The low starting torque of the ORBIS means that it can be restarted under full load and at the upper rated speed at any time.



Sturdy tubular bars and reliable plant transport



## 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; this arrangement 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 CONTOUR comes into contact with the ground
- Automatic lateral balance with AUTO CONTOUR by means of outer sensor skids
- No need to lock the frame when driving on the road



Excels in all  
types of terrain.



Ground-contour tracking

# ORBIS - great versatility.



Miscanthus



Silphium perfoliatum

The range of crops that ORBIS can harvest is growing.

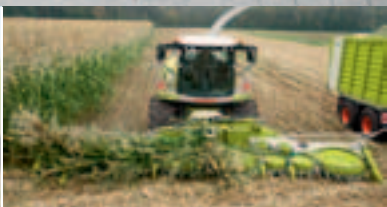
Various attachments and add-ons are available to allow you to optimise your ORBIS for any application.

Additional 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
- A narrow centre point improves the cutting performance in thin-stalked crops
- Additional +13% increase in rotary speed with belt drive makes for improved cutting performance in thin-stalked crops

Harvesting igniscum





Harvesting sorghum

Great versatility



## CLAAS AUTO PILOT.

Two sensor skids each gauge two rows of maize. The signals generated by these sensors are translated into appropriate steering impulses. The Jaguar's steering is automatic up to a speed of 12 km/h. Twin-row sensing allows automatic steering in row widths of 37.5 cm up to 80 cm.

- Maximum driver stress relief
- Increased area output
- Reliable row guidance, even where there are gaps in the crop
- Maintenance-free and low-wear technology



# Highly efficient in the field, narrow on the road.

## Always in the best shape.

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 very easy to fit
- 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



ORBIS 900



ORBIS 450



ORBIS 600



ORBIS 750

A full view of the road

Hardly any wear.  
Low maintenance.  
High reliability.

#### 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 a tungsten carbide coating to increase their service life
- The speed differential of the knife disc to the transport disc creates a self sharpening action
- The knife discs and transport discs have a modular structure comprising six segments and are exceptionally accessible. In the event of damage, it is necessary to replace only the segment concerned rather than the entire unit.







## 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 1000 hours of operation before the transmission oil needs to be changed
- All wear parts can be replaced quickly and easily



Maintenance



The RU 450 is still in demand.

The crop flow concept is based on three large cutting and transport discs and benefits in particular from the straightforward design. The RU 450 has a drive concept which requires very little power. As a result, it is possible to switch the unit on and reverse it under full load while enjoying consistently high chopping quality.

The versatile RU is suitable for a wide range of applications and is therefore available not only for the JAGUAR 800 series, but also for the JAGUAR 900 series.



# Row-independent harvesting with RU 450.



## Reliable harvesting.

High quality work through reliable plant transport and even stubble. With its aggressive transport disc and its scraper disc, the RU 450 is designed to provide active plant transport under all conditions.

This design is made all the more effective by the counterrotational knife disc and the self-sharpening effect for the knives. After cutting, the maize stems stand on the knife disc and are fed to the intake auger.



## High throughput.

An aggressive crop flow is ensured by the intake auger whose speed can be optimised in line with the set chopping length.



RU 450

# CONSPEED. Harvesting maize cob silage (MCS).



Maize cob silage (MCS) harvesting with the combine picker on the JAGUAR.

MCS is forage with a high energy concentration and is primarily used in cattle farming for milk and meat production.

The following additional equipment is recommended for high-quality WCS or MCS silage harvesting:

- All-plant silage / MCS friction bar wedge installed behind the mounting block
- All-plant silage / MCS friction concave plate
- CORN CRACKER with fine meshed rollers and 60 % speed difference

CLAAS Adapter.

The adapter allows the CONSPEED maize picker to be attached to the JAGUAR. The robust transfer gearbox transmits the drive from the chop length gearbox. The adapter has a feed roller designed to produce a perfect crop flow from the front attachment to the JAGUAR intake.



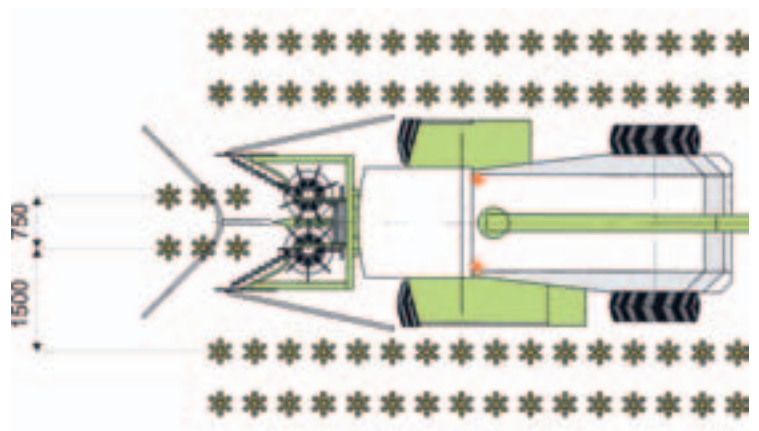
CORN CRACKER

# Chopping wood with HS2.



## Another role for the JAGUAR.

The JAGUAR 800 series can be equipped with a special wood-harvesting attachment. Hydraulically driven saw blades cut wood stems up to 70 mm in diameter in two rows. Finger-shaped transport drums feed the stems to an aggressive intake roller which in turn passes the crop on to the precompression rollers of the JAGUAR. The knife drum is equipped with universal knives. Furthermore, the JAGUAR is fitted with special narrow forest tyres to enable it to operate between the rows with ease.



CONSPEED  
HS2



## PREMIUM LINE for ORBIS

Part number	Description	Remarks
00 0383 148 0	Scraper, large knife disc, anti-clockwise	For ORBIS 900 / 750 / 600 / 450
00 0383 147 0	Scraper, large knife disc, anti-clockwise	For ORBIS 900 / 750 / 600 / 450
00 0498 380 0	Wear plate, sliding skid, large	For ORBIS 900 / 750 / 600 / 450
00 0499 006 0	Wear plate under knife disc	For ORBIS 900 / 750 / 600
00 0383 288 0	Intake drum, upper right	For ORBIS 900 / 750 / 600
00 0383 286 0	Intake drum, lower right	For ORBIS 900 / 750 / 600
00 0383 287 0	Intake drum, upper left	For ORBIS 900 / 750 / 600
00 0383 285 0	Intake drum, lower left	For ORBIS 900 / 750 / 600
00 0498 382 0	Wear plate, sliding skid, small	For ORBIS 900 / 750 / 600
00 0383 145 0	Scraper, small knife disc	For ORBIS 900 / 750 / 600
00 1319 479 0	Steel guide strip, centre left lower	For ORBIS 900 / 750
00 1319 480 0	Steel guide strip, centre left upper	For ORBIS 900 / 750
00 1319 835 0	Steel guide strip, small disc	For ORBIS 900 / 750
00 1319 481 0	Steel guide strip, centre right upper	For ORBIS 900 / 750
00 1319 487 0	Steel guide strip, centre left upper	For ORBIS 600 / 450
00 1319 485 0	Steel guide strip, centre left lower	For ORBIS 600 / 450
00 1319 825 0	Protection under ORBIS for drive, centre	For ORBIS 600 / 450
00 1319 486 0	Steel guide strip, centre right upper	For ORBIS 600 / 450
00 1319 669 0	Steel guide strip, outer	For ORBIS 750

## PREMIUM LINE for DIRECT DISC

Part number	Description	Remarks
00 0905 014 0	Mowing disc for bolt-on knives	For DD 520
00 0137 448 0	Mowing disc for quick knife change system	For DD 520 / 610

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.

## Adaptation of front attachments for use with JAGUAR

	PU 300 HD	PICK UP 380 / 300	DIRECT DISC 610 520	ORBIS 900	ORBIS 750 / 600 / 450	RU 450	CONSPPEED maize picker with adapter	HS2
<b>JAGUAR</b>								
900 series	–	●	● ● ● ●	● ●		● ○		–
800 series	●	○	– ●	– ●	●	● ○		●

## Pickup front attachments

PICK UP		380	300	PU 300 HD
Working width	mm	3800	3000	3000
Transport width	mm	3970	3000	3000
Length	mm	1500	1500	1450
Height	mm	1400	1400	1300
Weight	kg	1500	1200	970

## Direct cutterbars

DIRECT DISC		610	520	520 (for 800-series JAGUAR)
Working width	mm	5950	5125	5125
Transport length on trailer	mm	10,900	10,000	10,000
Length	mm	2350	2350	2440
Height	mm	1730	1730	1440
Weight	kg	2700	2600	2700

## Maize header

ORBIS		900	750	600	450	RU 450
Working width	mm	9170	7600	6150	4750	4500
Transport width	mm	3290	3000	3000	3000	3000
Length	mm	2450	2450	2350	2400	2900
Height	mm	1425	1425	1350	1500	2100
Weight	kg	4000	3300	2700	2255	2300

## Wood harvesting front attachment

	HS2
Working width	mm 3500
2-row working	mm 750
Max. stem diameter	mm 70
Distance between tramlines	mm 1500
Transport width	mm 3000
Length	mm 1500
Height	mm 1800
Weight	kg 1400

● Adaptation possible ○ Adaptation possible with conversion kit – Adaptation impossible  
(Please refer to price list for equipment and adaptation characteristics)

# Your benefits.

## Common features:

- The availability of appropriate front attachments for different crops opens up flexible opportunities for machine use
- Can be attached to and removed from the JAGUAR easily
- Driven via quick-connect coupler or drive shaft
- Can be engaged and reversed under full load and at upper rated engine speed
- Outstanding ground-contour tracking through CONTOUR and AUTO CONTOUR ground pressure control
- Safe and comfortable on-road travel with vibration damping

## PICK UP:

- Ideal ground-contour tracking as pick up is free to swivel as required and castor guide wheels are optimally positioned
- Wear components can be replaced quickly
- Twin roller crop press for optimal crop flow
- Hydraulic auger elevation for optimal accessibility when searching for foreign objects

## DIRECT DISC:

- Proven P-CUT mower head with quick knife change system
- Hydraulic height adjustment of paddle roller for optimal configuration for different crop types
- Consistent and continuous crop flow

## ORBIS:

- Extremely free-running drive with low starting torque and low power requirement
- Designed for high throughput
- Universally suitable for harvesting stalked crops
- High work quality
- Very low maintenance requirement

## CONSPEED:

- The adapter allows the maize picker to be attached for harvesting maize cob silage (MCS)
- Powerful yet gentle picking with CONSPEED

## HS2:

- Even greater use can be made of the capacity of the JAGUAR 800 series by harvesting short-rotation plantations
- Clean, precise cutting of the crop thanks to high circumferential speed of the saw blades
- Reliable and powerful intake for high throughput and high work quality



CLAAS UK  
Saxham  
Bury St. Edmunds  
Suffolk  
IP28 6QZ  
Tel 01284 763100  
claas.co.uk  
info-uk@claas.com  
261012130612 KK DC 0213

