Forage harvesters

JAGUAR

990 980 970 960 950 940 930

990 TERRA TRAC 960 TERRA TRAC

CLAAS

The JAGUAR.
The secret of its success.

Unstoppable: making improvements where they have the greatest impact.

The JAGUAR allows you to keep operating costs down. Its strengths lie in its economical fuel consumption, its many operator assistance systems, the outstanding forage quality it produces and its high reliability. It all adds up to an investment that pays.

Throughput.
Front attachments, crop flow and the transverse engine are optimally matched to produce outstandingly high throughput – the result of more than 50 years of experience in forest harvester technology.

Chop quality.
The new V-FLEX chopping cylinder, the V-MAX and the V-CLASSIC cylinder deliver precise chop quality. Optimal kernel processing is ensured by the MULTI CROP CRACKER system. The results can then be checked extremely quickly by using CLAAS connect for kernel processing analysis.

Efficiency.
Efficiency is improved both by innovative assistance systems, such as CEMOS AUTO PERFORMANCE, and by an intelligent drive system. Greater working widths also contribute to the significantly enhanced cost-effectiveness of these machines.

Comfort and convenience.
Spacious and very quiet, the cab of the JAGUAR minimises stress on the operator. CEBIS helps keep an eye on everything – a real advantage during long working days.

NEW

At home in every field.
The CLAAS JAGUAR 900 series.

Configure your JAGUAR 900 GREEN EYE to meet your specific requirements and benefit from savings as you gear up for the next season!
www.claas.com

Discover the exclusive GREEN EYE equipment package, complete with matching design, for the JAGUAR 900 series. Developed for maximum throughput, optimal chop quality, the best in operator comfort and convenience features and high efficiency, the package offers you savings on components that provide you with reliable support in the course of your daily work.

Our exclusives

Fully equipped cab

GREEN EYE equipment package

V-FLEX chopping cylinder

PREMIUM LINE crop flow with shear bar

Variable front attachment drive

Optimal crop flow begins with the front attachment.

Unique.
Maximum engine output and maximum working width. Transport width of just 3 m for transfers from field to field.

At work all over the world.

The need for ever higher yields means that the demands placed on forage harvesters are also increasing. Clean crop intake, robust technology and versatility are the all-important factors. With its extensive line-up of front attachments, the JAGUAR is today at work around the world, harvesting a very wide range of crops. The front attachments can be fitted and removed easily, are driven via quick-release couplers and impress with their outstanding ground adaptation.

PICK UP 380 / 300.
- Two independently controlled drives for intake auger and pick-up, adjusted automatically in accordance with length of cut and ground speed
- New net cover to avoid losses, wide cover prevents dust from blocking operator's view
- ACTIVE CONTOUR for automatic ground adaptation
- Newly designed, robust intake auger featuring flights with a progressively shallow end pitch and four paddles

DIRECT DISC 600 / 500 and 600 P / 500 P.
- Roller crop press for extremely even transfer of crop flow
- MAX CUT mower bed for very clean crop cutting
- Paddle roller for optimal crop flow in short crops
- Very large intake auger for high throughput

ORBIS 900 / 750 / 600 / 600 SD / 450.
- Maize front attachments with working widths from 4.5 to 9.0 m
- No need to get down from cab with automatic transport protection for ORBIS 900-600
- ORBIS 900-450 with 3 m transport width
- AUTO CONTOUR available for automatic ground adaptation and automatic steering system

Adapter for ROVIO.
- Fast and convenient connection of combine harvester front attachments, such as maize pickers for harvesting maize cob silage
- Integrated feed roller for even crop flow
- Drive connection to JAGUAR made via quick-release coupler

High performance and low consumption.

1. Two front attachment drives.
- Standard drive is direct via the quick release coupler. With constant or variable speed for optimal chopping quality through appropriately adjusted, consistent crop feed from the front attachment to the feed rollers
- Option: additional, second variable drive with independent adjustment of the speed of the pick-up reel. For the most efficient forage intake and a crop feed matched to the current performance of the machine

2. Feeder unit.
- Hydraulic precompression for excellent chopped material quality
- Chopping cylinder is easily accessible through QUICK ACCESS

3. V-FLEX and V-MAX chopping cylinders
- For high throughput
- Designed for flexible use and low maintenance
- No need to readjust knives

4. MULTI CROP CRACKER.
- For high-quality maize silage processing
- From extremely short lengths of cut up to SHREDLAGE® with lengths up to 30 mm

5. Adjustable crop acceleration.
- Accelerator clearance can be set from the cab

Straight, fast crop flow saves energy.

The optimised crop flow of the JAGUAR increases your daily output to a considerable degree. The crop flows in a straight line through the entire machine without any awkward angles. It is accelerated further at each step and is centred progressively by the V-shaped arrangement of the knives and accelerator paddles. As well as making for highly reliable operation, this results in maximum throughput while keeping the power requirement to a minimum – thereby leading to impressive fuel savings in terms of litres per tonne.

SHREDLAGE®

Drive power is tailored to the requirements of each front attachment.

Front attachment drive.

All the front attachment drives are integrated in the main drive train. In this way, the front attachment drive, feeder drive, chopping cylinder speed, accelerator and corncracker are able to react equally to engine speed variations. The advantage for you is that a constant length of cut is always maintained.

1. Mechanical drive, suitable for all front attachments.
- For conventional use with no automated speed adjustment in constant harvesting conditions
- Chopping cylinder shaft driven entirely mechanically at constant speed
- Engaged via a belt clutch to the quick-release coupler

2. Split-power front attachment drive.
- Mechanical drive via the chopping cylinder shaft with additional hydrostatic support and maximum power transmission at constant speed
- Suitable for direct mechanical drive of DIRECT DISC and maize picker
- Hydraulic drive with variable speed adjustment for PICK UP and ORBIS is enabled by removing the right-hand drive belt
- Variable speed adjustment can be automated for an even crop flow delivering top-quality chopped material

3. Variable front attachment drive for ORBIS maize front attachments and PICK UP.
- All-hydrostatic drive
- Manual or automatic speed adjustment in accordance with the preset length of cut with low power requirement
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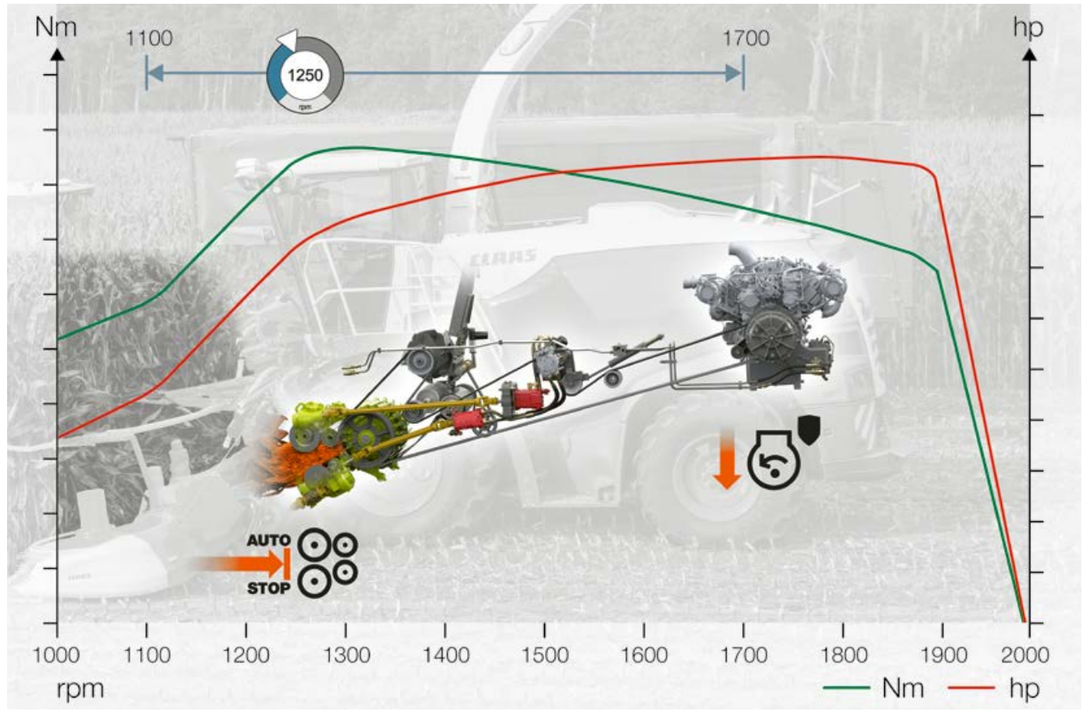
4. Two independently variable front attachment drives.
- Variable drive for intake auger via quick release coupler with speed adjusted automatically in accordance with the length of cut and ground speed
- Hydraulic drive for pick-up with automatic speed adjustment in accordance with the ground speed

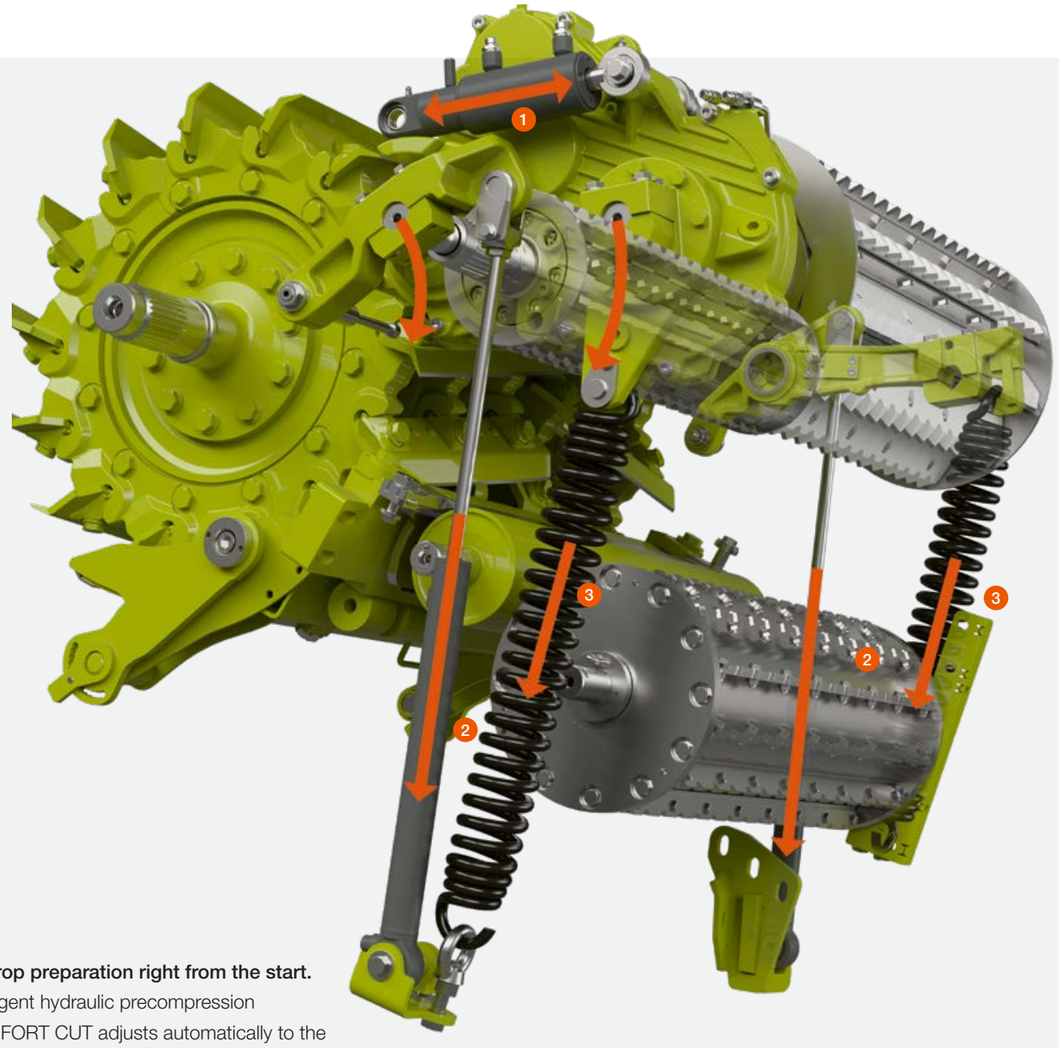


CEMOS AUTO CROP FLOW.
The crop feed can be stopped automatically when detection of a preset engine speed causes the feeder unit and front attachment to be switched off. In this way, it is possible to avoid downtime in critical harvesting conditions.

Adjusted automatically – pick-up performance and intake auger speed.
- Even crop flow with extremely high or changing yield and different harvesting speeds
- Efficient crop intake under all operating conditions

CEMOS AUTO CROP FLOW.
- Crop feed is stopped automatically
- Minimum engine speed can be set as required between 1,100 and 1,700 rpm

Good forage needs plenty of pressure.



Ideal crop preparation right from the start.

- Intelligent hydraulic precompression
- COMFORT CUT adjusts automatically to the engine speed and chopping cylinder speed
- Length of cut set on basis of dry matter content (optional)

1 Damper for even distribution of the precompression force on both rollers
2 Hydraulic precompression for application of specific precompression pressure to the crop
3 Tension springs for perfect crop take-up and precompression

Intelligent hydraulic precompression.

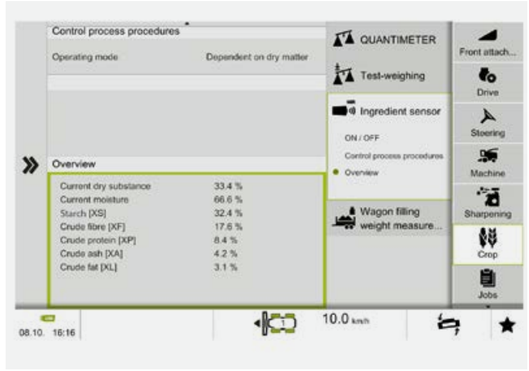
Acting via two hydraulic rams with pressure accumulators, the rear upper precompression roller applies a specific degree of pressure to the crop. Special control characteristics are used to adjust the precompression pressure automatically to different crops and changes in the thickness of the crop flow.

Even when there is only a thin crop flow, the precompression roller always exerts the same pressure on the crop layer. This produces consistently good chop quality.

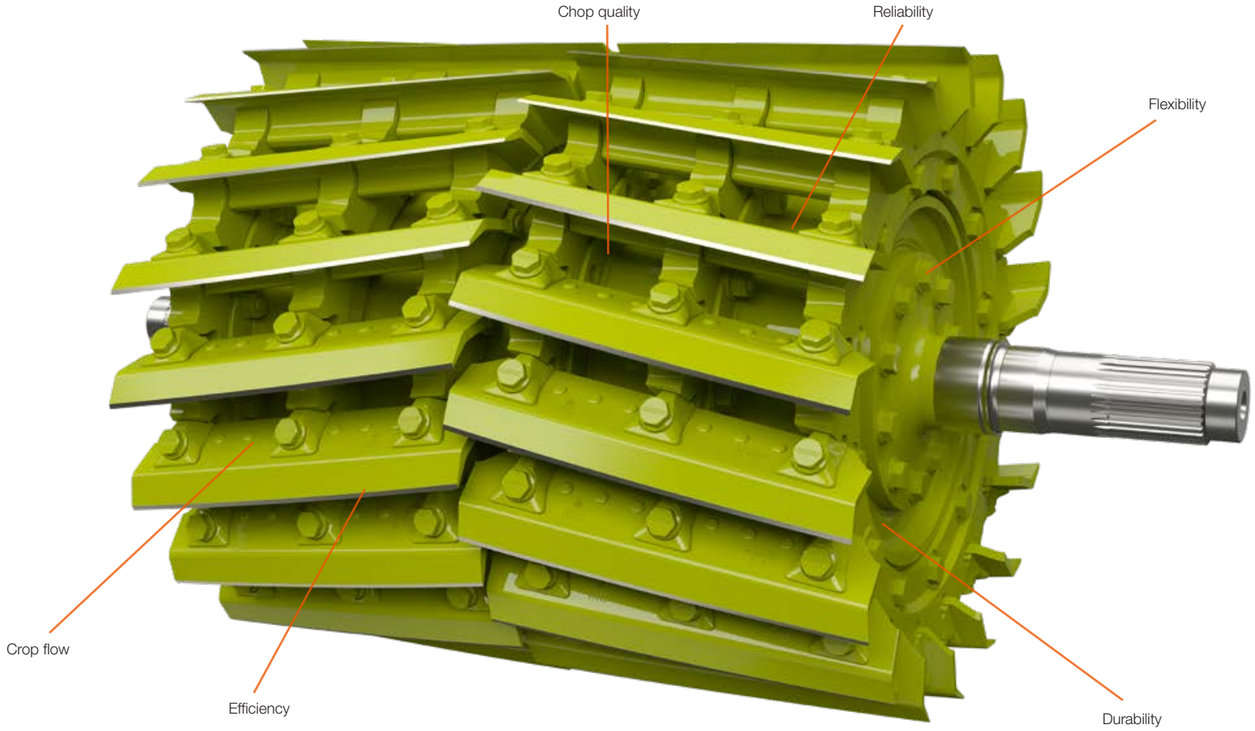
Consistently high-quality chopped material.

COMFORT CUT, the infinitely variable length of cut adjustment which can be automated, maintains a constant length of cut at all times. The COMFORT CUT drive adjusts automatically to any changes in the engine speed or the speed of the chopping cylinder. CEBIS provides you with a convenient interface for setting the required length of cut. Using the optional NUTRIMETER, you can adjust the LOC in accordance with the measured dry matter content. In this way, the JAGUAR automatically produces perfect silage for compression in the clamp.

- Ideal preparation of the harvested crop through hydraulic precompression control for consistently high-quality chopped material
- Very smooth crop flow
- Constant length of cut, even if there are variations in the engine speed
- NUTRIMETER enables automatic length of cut control in accordance with the dry matter
- Very convenient maintenance through hydraulic lifting of the precompression rollers



Chop quality par excellence.
The V-FLEX chopping cylinder.

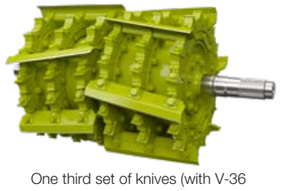


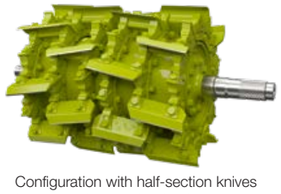
Excellent chop quality, reliability, robustness, flexibility and efficiency as well as comfort and convenience – these are the characteristics that make the V-FLEX chopping cylinder so impressive.
All four knife configuration variants with 36, 28, 24 and 20 knives can be offered on one cylinder body. A new development is the option of using half-section knives: these double the length of cut while maintaining a symmetrical crop discharge and providing an extremely smooth crop flow during grass harvesting. They also enable the use of a corncracker with long lengths of cut.

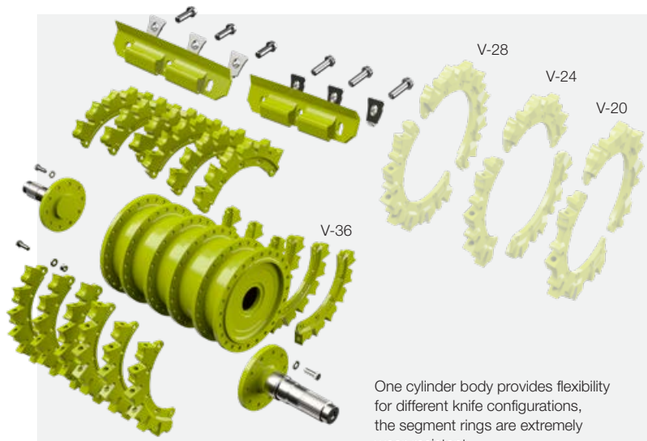
The 10° knife angle makes for easy cutting. As well as being more efficient, this design contributes to very precise and consistent chop quality. The knives are attached solidly with three bolts each but are still very easy to fit and do not require any adjustment. With their 23 mm wide wear coating, the V-FLEX knives are designed for a very long service life. As well as benefiting from the convenience of the fast knife fitting system, users will also appreciate in particular the low noise level which has been optimised by as much as 3-4 dBA.


Full set of knives for short to medium lengths of cut.

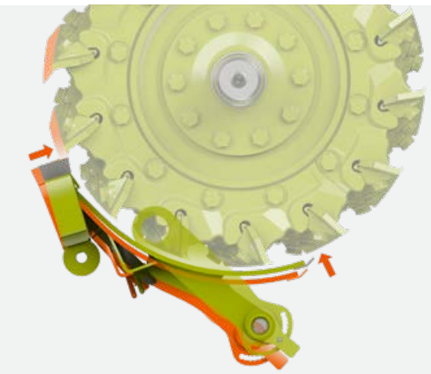

Half set of knives for double the length of cut when operating without a corncracker.


One third set of knives (with V-36 only) for very long lengths of cut with symmetrical crop discharge.


Configuration with half-section knives for double the length of cut and very smooth, uniform crop discharge.



One cylinder body provides flexibility for different knife configurations, the segment rings are extremely wear-resistant.


For reliable crop transfer, the chopping cylinder concave is adjusted at the same time as the shear bar.


V-FLEX knives are available as universal knives and maize knives.
– Integrated paddles
– 23 mm wide wear coating


V-FLEX half-section knives are available as universal knives and maize knives through CLAAS Service and Parts.

Lengths of cut supported by the chopping cylinders.

V-FLEX / V-MAX	rpm	1/1	1/2	1/3	mm 1 – 5 – 10 – 15 – 20 – 25 – 30 – 35 – 40 – 45 – 50
V-20	12000	20 (2x10)	–	–	5 - 26.5
	6000	–	10 (2x5)	–	10 - 53
V-24	14400	24 (2x12)	–	–	4 - 22
	7200	–	12 (2x6)	–	8 - 44
V-28	16800	28 (2x14)	–	–	4 - 18.5
	8400	–	14 (2x7)	–	8 - 37
V-36	21600	36 (2x18)	–	–	3.5 - 14.5
	10800	–	18 (2x9)	–	7 - 29
	7200	–	–	12 (2x6)	10.5 - 43.5
V-42*	25200	42 (2x21)	–	–	3.5 - 12.5
	8400	–	–	14 (2x7)	8 - 37

Reliability.

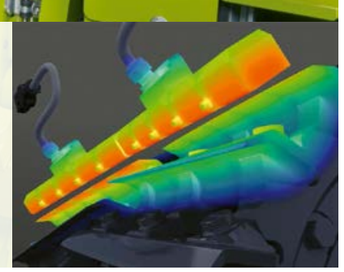
"We chop forage for 110 dairy farms, so the reliability and flexibility really make all the difference. The extended wear coating on the knives is also very good and results in a noticeable increase in their service life."

Contractor Danell Brothers, California, USA

* Available for V-MAX chopping cylinders only

NEW

Knife sharpening only when necessary.



Knife condition monitoring
via magnetic induction

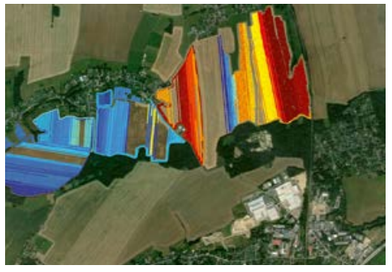
CEMOS AUTO KNIFE CONDITION.

Continuously monitors the condition of the knives during chopping.

The system recommends the optimal time for sharpening and the number of sharpening cycles required to restore the full degree of sharpness. The operator first programs the system with the desired knife condition and the appropriate sharpening interval for the harvest conditions. CEBIS keeps him informed about the current sharpness level throughout the process.

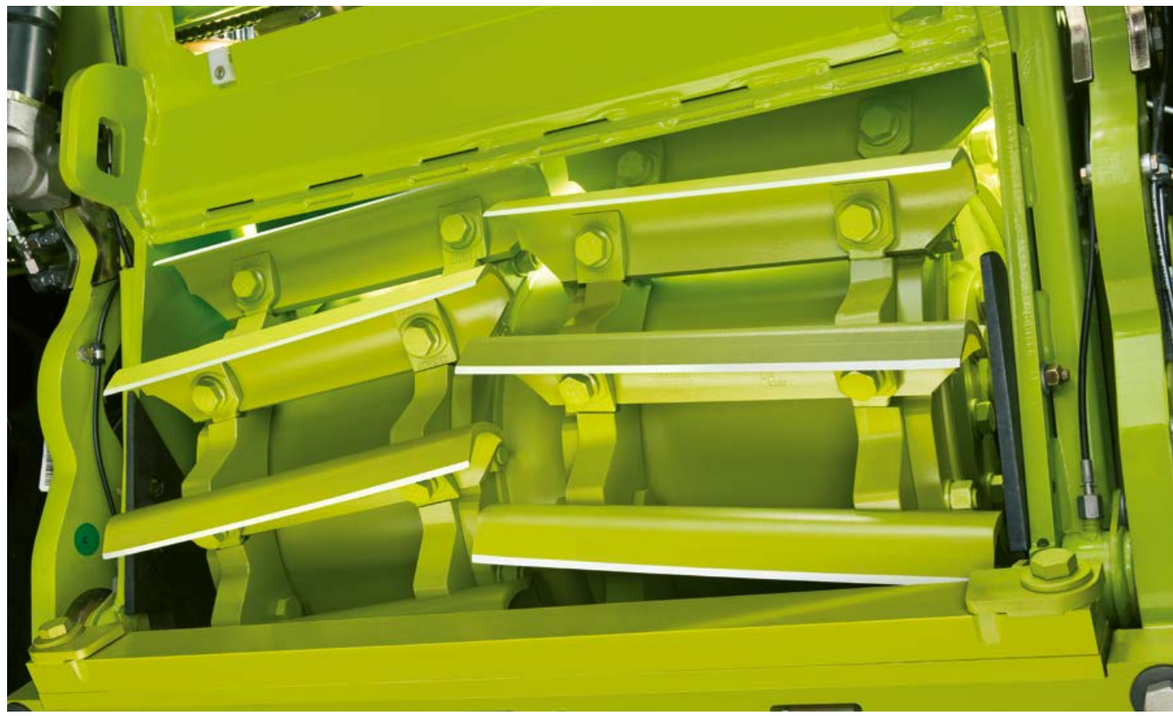
Advantages:

- Consistently high chop quality
- Higher throughput
- Reduced fuel consumption
- Optimal knife utilisation
- Geo-referenced knife condition map in CLAAS connect



Comprehensive view of chop quality and efficiency.

- CEMOS AUTO KNIFE CONDITION for perfect calculation of knife blade thickness
- Precise shear bar adjustment and accurate display of knife wear level
- Hydraulic clamping system for shear bar allows quick adjustment and reliable knife gap setting
- Fast work: knife sharpening and precise adjustment of the shear bar in just one minute
- Chopping cylinder concave adjusts automatically for even crop delivery under all harvesting conditions
- Reliable protection against dirt and noise
- User-friendly, simple operation



V-MAX chopping cylinder.

Available with 42, 36, 28, 24 or 20 knives, the V-MAX chopping cylinder is ideally matched to your requirements. With 42 knives and a cutting frequency increased to 25,200 cuts per minute, the V-MAX 42 chopping cylinder is able to deliver particularly high throughput.

Using the full engine output, it is able to deliver short lengths of cut from 3.5 to 12.5 mm with precision. Greater lengths can be produced by reducing the number of knives to one third. The V-MAX 42 is available as an option for the JAGUAR 990, 980 and 970.

High performance. High cutting frequency.

- V-MAX 42 chopping cylinder for very high throughput with short lengths of cut
- High strength is provided by the direct transmission of the chopping force to the star-shaped cylinder
- Easy to fit: just two bolts per knife, no adjustment or readjustment is required

Specialists deliver top-quality results.

MCC CLASSIC.
The conventional MCC CLASSIC has the proven sawtooth profile and operates with a standard speed difference of 40%. This system can be used successfully when harvesting short maize for biogas plants or producing silage for dairy cattle and finishing beef bulls. The kernel processing score can be increased by adjusting the speed difference.

NEW: For optimal processing of fine-kernel crops such as sorghum, CLAAS offers very fine meshed rollers through CLAAS Service and Parts.

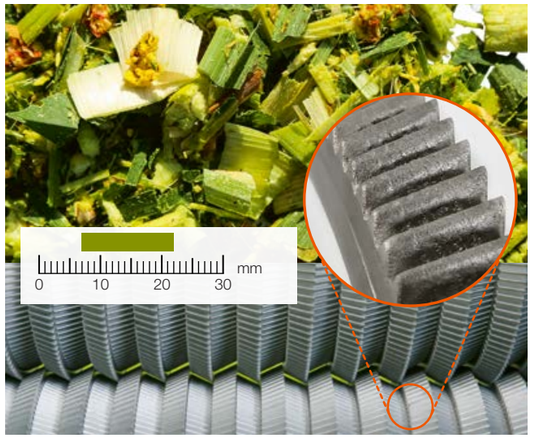
MCC MAX – the power of four.
1 Maximum service life through high level of wear protection with Busa®CLAD coating
2 Maximum kernel processing with 40% speed difference
3 Highest possible throughput with JAGUAR 990 with engine output up to 925 hp
4 Maximum flexibility to meet different requirements

3,160 hectares of maize in three harvests.
Contractor Meyer from Meppen-Apeldorn will use the MCC MAX for a fourth maize harvest.

MULTI CROP CRACKER modes of action	MCC M CLASSIC (recommended < 585 hp)	MCC L CLASSIC (recommended > 585 hp)
Number of teeth per roller and diameter for crop take-up and kernel size	80 / 100 with 196 mm Ø for coarse maize	100 / 125 with 250 mm Ø for coarse maize
	100 / 100 with 196 mm Ø for fine maize	125 / 125 with 250 mm Ø for fine maize
	125 / 125 with 196 mm Ø for WCS / MCS	150 / 150 with 250 mm Ø for WCS / MCS
	–	125 / 190 with 250 mm Ø for sorghum (moist)*
	–	190 / 190 with 250 mm Ø for sorghum (dry)*
Roller speed difference for frictional effect	30% ex factory	40% ex factory
Adjustable cracker roller gap	o	o
Engagement of ring segments for cutting effect	–	–
Slanting of ring segment teeth for shear effect	–	–
Counterdirectional spiral groove for peeling effect	–	–

* Only available through CLAAS Service and Parts

o Option – Not available



MCC MAX.
The MCC MAX rollers have 30 ring segments with a sawtooth profile. The arrangement and special geometry of the ring segments cause the crop to be processed not only by crushing and friction, but also by cutting and shearing forces. This breaks down the maize kernels more intensively and shreds the stalk fragments.

Compared with conventional corncrackers, the MCC MAX has a much wider field of application with regard to lengths of cut and dry matter. At the same time, it delivers processing results of extremely high quality. Its forage processing capability meets the most diverse customer requirements without the need for any change to the machine's equipment.

MCC SHREDLAGE®.
Originally developed in the US, this technology is used on many farms around the world in the extremely long length-of-cut range from 26 to 30 mm.

The rollers have a sawtooth profile with an additional counter-directional spiral groove and operate with a speed difference of 50%. In this way, the MCC SHREDLAGE® is able to grind the maize kernels thoroughly, chop up the cob fragments completely and shred the leaves effectively. In addition to these processing actions, the spiral groove subjects the stalk material to a lateral effect which causes the bark to be rubbed off the stalk. At the same time, the soft inner core is split lengthways. SHREDLAGE® silage can be compressed very well as the material meshes during storage and rebound effects are minimal.

MCC MAX	MCC SHREDLAGE®
120 / 130 for 245 / 265 mm Ø	95 / 120 for 196 mm Ø
	110 / 145 for 250 mm Ø
–	–
–	–
–	–
40% ex factory	50% ex factory
o	o
o	–
o	–
–	o

o Option – Not available

SHREDLAGE® for quality milk and meat.

SHREDLAGE® quality begins with the forage harvesting process.
The intensive processing of the crop increases the surface of the chopped material. This results in significantly improved bacterial fermentation during ensiling and, above all, during digestion in the rumen.

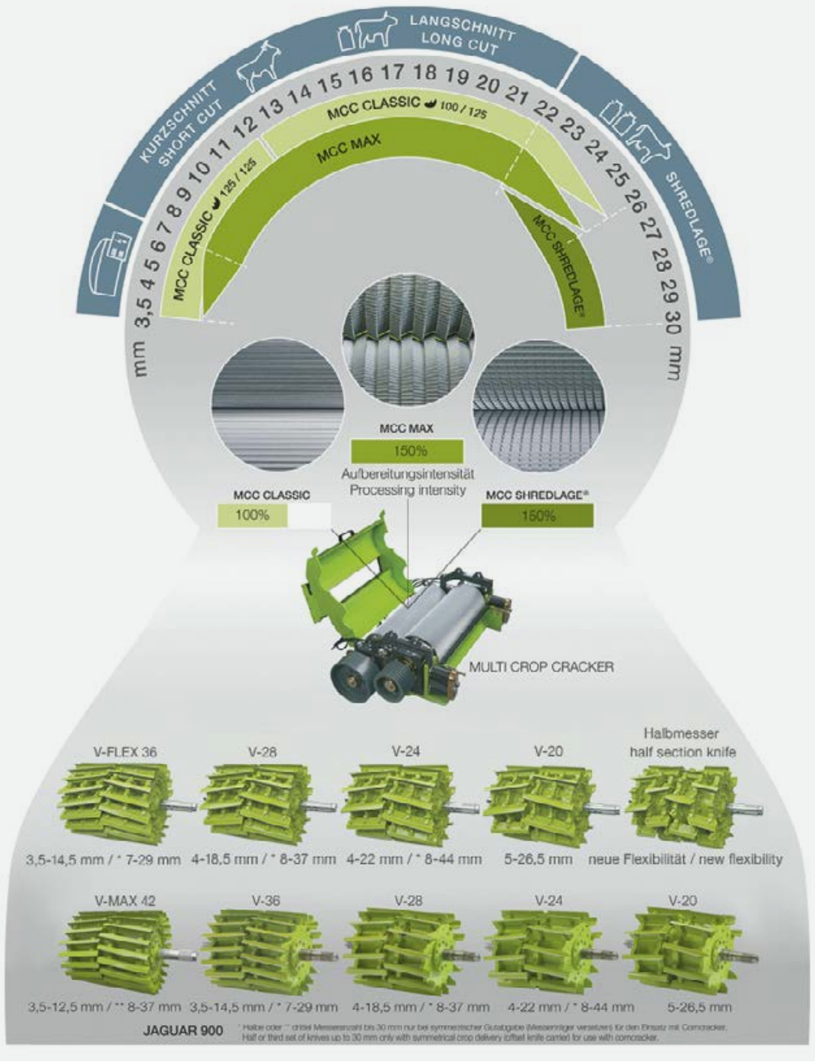
Trials conducted by the University of Wisconsin in Madison have shown that SHREDLAGE® drastically increases the physical effectiveness of maize silage while also improving the availability of the starch content. Furthermore, the rumen-friendly structure of the silage promotes herd health.

SHREDLAGE® also for finishing bulls.
The almost complete absence of any examination of the effects of feeding finishing bulls with SHREDLAGE® prompted Osnabrück University of Applied Sciences to conduct the first such feed trial with 72 Fleckvieh bulls. Feeding with SHREDLAGE® has a positive effect on the carcass yield. Higher conformation results in superior grading and a significantly lower fat score.

Improved livestock health is only one of many advantages which SHREDLAGE® has to offer you. As the availability of starch is optimised, you can reduce the quantity of feed concentrate used. It is also possible to limit or even eliminate the use of fibre supplements such as straw.

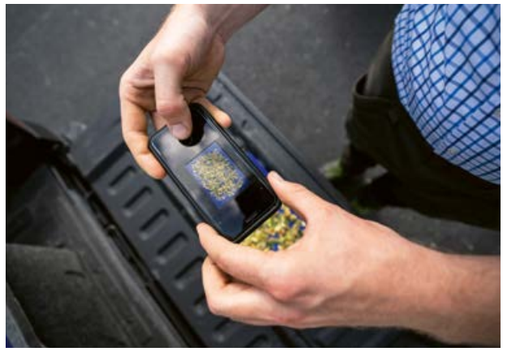
The right gap setting cuts costs.
The size of the gap between the rollers determines how intensively the chopped material is processed. The principle to follow here is: only as intensive as necessary. The smaller the gap, the more intensively the crop is processed and the higher the energy requirement of your JAGUAR. This, in turn, means that you will incur higher harvesting costs.

MULTI CROP CRACKER for the best forage.
- For very high throughput with optimal processing of the chopped material
- Rugged design through large bearing units and sealed housing
- With maintenance-free belt under constant hydraulic tension for maximum power transmission
- Easily accessible for maintenance or changing rollers



CLAAS connect determines the kernel processing score.

A4 analysis tray



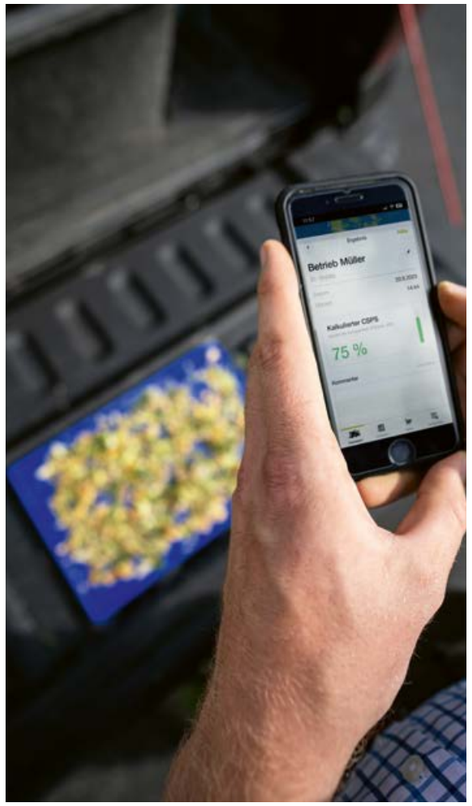
Photographing the spot sample

Collecting the spot sample

NEW: The lab in your pocket.

Using the kernel processing analysis app on a smartphone, farmers and contractors can check the quality of kernel processing in the chopped maize silage. This approach provides an easy way of assessing the quality of maize kernel processing while the harvest is still in progress. Lengthy – and by no means highly precise – laboratory analysis is therefore no longer required.

Test results show that the accuracy of on-the-spot CLAAS kernel processing analysis is comparable to that obtained with laboratory tests. The advantage for you is that you receive the CSPS figure (the Corn Silage Processing Score indicating the degree of maize kernel processing) resulting from the analysis straight away. You can therefore evaluate the quality of the maize kernel processing on the spot and optimise the JAGUAR settings if necessary. The values obtained are also documented by the system.



In order to determine the CSPS score, the user starts by taking a one-litre sample. From this, he then selects at least five to ten smaller individual samples to be photographed with the CLAAS connect smartphone app.

In preparation for being photographed, each sample is placed loosely on an approximately DIN A4-sized blue tray. This intermediate step is necessary so that the image analysis algorithms can use the contrast and reference size of the tray to identify and quantify the kernel constituents in the sample.

Once all the pictures have been transmitted to the central server, the CSPS score which has been determined is received on the user's smartphone in a very short time. Calibration of the AI-based analysis software was performed by analysing a very large number of reference samples in officially approved laboratories. The kernel processing analysis is an AI-based application in CLAAS connect which makes it possible to obtain a very fast verdict on the standard of kernel processing in maize.

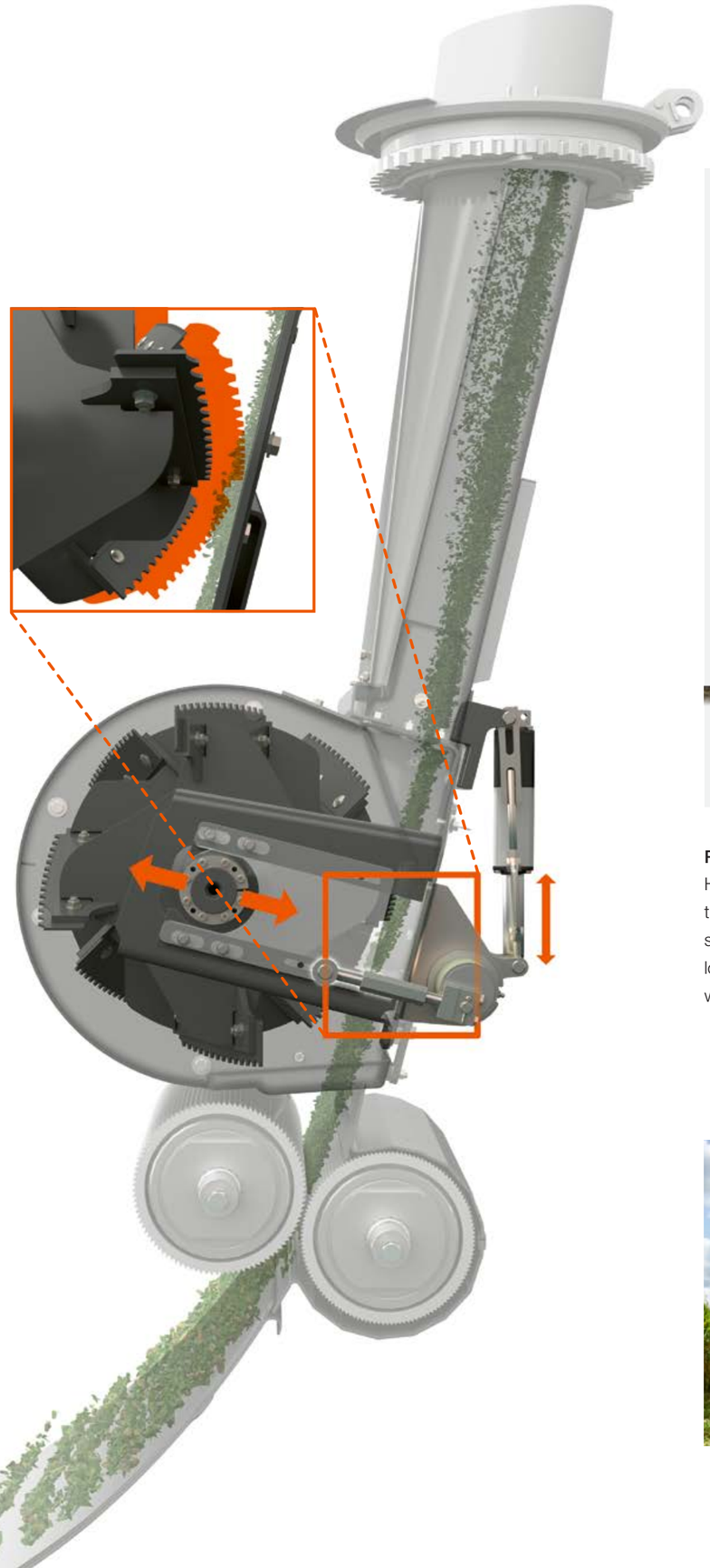
Collect your crop quickly and reliably.

Acceleration – the energy-saving way.

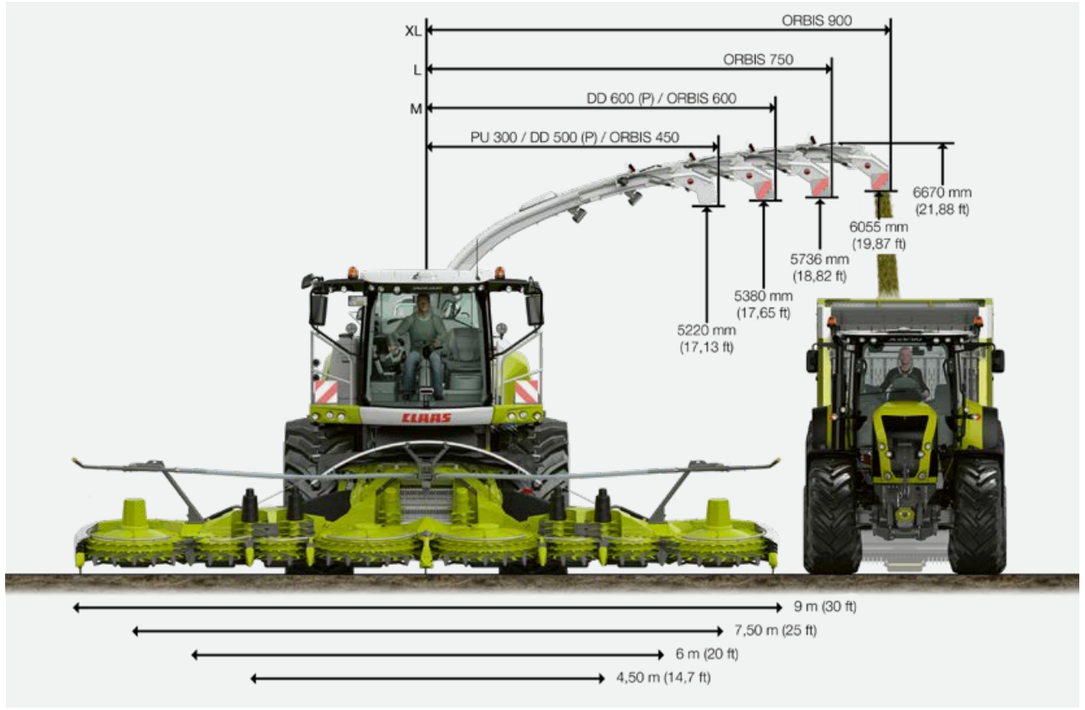
The accelerator is ideally positioned in the JAGUAR. The crop flow does not have to negotiate any awkward angles and is centred by the V-shaped accelerator paddles. This reduces the energy requirement and wear of the side walls.

Discharge rate can be increased easily.
For heavy crops, you can increase the clearance between the accelerator and the rear wall hydraulically by up to 10 mm. This results in a further reduction in the amount of energy required. If, for example, you are working in very dry grass or starting chopping in a new field and require a high discharge rate, the clearance can be reduced drastically. You can even make this adjustment conveniently in CEBIS while travelling and have it applied automatically at the start of the chopping process.

For maintenance tasks, such as replacing wear parts, the crop accelerator can be removed quickly and easily. Two experienced engineers require only about an hour for this.



Easy removal and installation of the accelerator

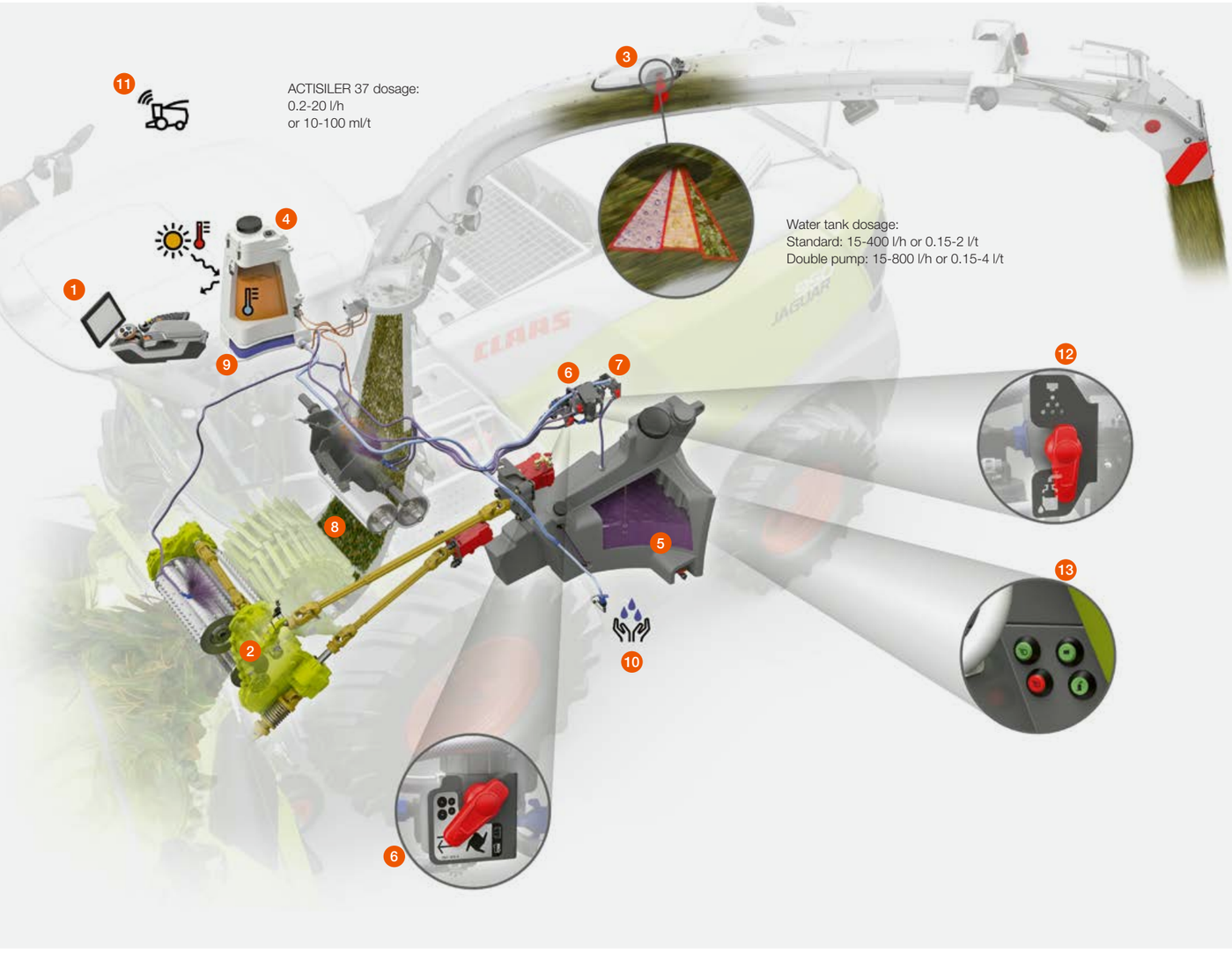


Reliable crop transfer up to a working width of 9 m.
High strength and a low dead weight are the key characteristics of the discharge spout. The highly concentrated crop stream can be directed more reliably, minimising wasteful losses. The modular design enables adaptation to different working widths.

Three extension modules in sizes M, L, and XL allow you to achieve a reliable crop transfer with working widths of up to 9.0 m. The entire back of the discharge spout is bolted so that the back plates also function as wear plates.

Flexible discharge characteristics.
- Low energy required for acceleration
- Discharge rate can be increased directly from the cab if necessary
- Modular design of discharge spout
- Working widths up to 9 m

All additives are dosed precisely.



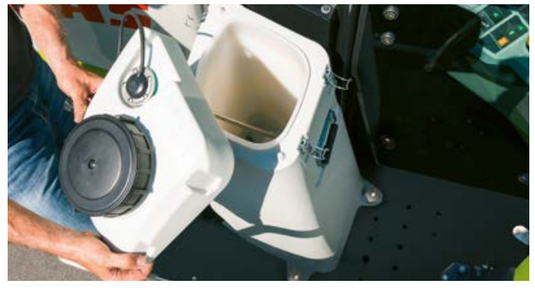
Operator programs CEBIS and the machine.

1 CEBIS specifies corresponding settings
2 QUANTIMETER measures throughput
3 Dry matter is measured and forms the basis for 4, 5 and 6
4 Highly concentrated additive from ACTISILER 37 is dosed automatically
5 Silage additive from water tank is dosed automatically
6 Double pump can inject water or silage additive at the relevant points of the crop flow at a rate of up to 800 l/h
7 Flushing function for silage additive pumps and water inlet for initial filling of system
8 Corncracker gap can be set electrically
9 Flushing function for ACTISILER 37 and water reservoir for hand washing
10 Hand-washing facility
11 Machine connect for data management
12 Onboard refilling of ACTISILER 37 tank from water tank
13 Controlled conveniently from access steps

Concentrate from the thermotank.

The double-wall ACTISILER 37 tank protects your silage additive concentrate from high temperatures. For example, if the tank is filled with concentrate at 19°C, it will rise to a maximum of 23°C over a period of ten working hours when the outside temperature is 40°C.
The ACTISILER 37 system can be refilled with water directly from the large water tank.

Silage additive dosage up to 800 l/h. For extremely high silage additive dosage rates, a second silage additive pump can be used to double the dosage rate from 400 l/h to 800 l/h.
Control and display of this function are, of course, integrated in CEBIS.



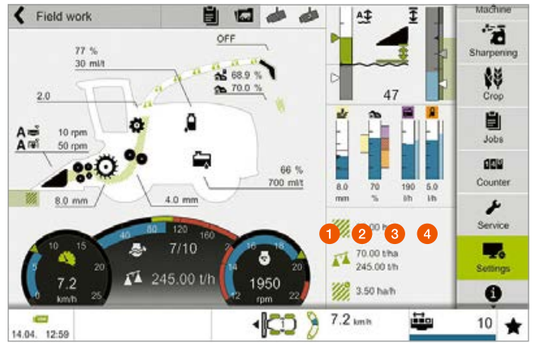
Forage at its finest.

High-quality silage increases the milk yield and stabilises animal health over the long term. The intelligent systems of the JAGUAR form the basis for excellent forage quality: with precisely dosed additives from the 375-litre tank or highly concentrated ones from the new ACTISILER 37. The dry matter content value determined by the near infrared sensor (NUTRIMETER) serves as a reference for setting the length of cut and the additives.

Dosage via CEBIS.

CEBIS provides the operator with a clear overview of the automatic interplay between the measured dry matter content, the length of cut and the silage additive dosage.

1 Length-of-cut indication
2 Dosage applied on basis of current dry matter content
3 Programmed dosage from 375 l tank
4 Programmed ACTISILER 37 dosage



Optimise your silage quality.

App: helps determine the correct silage additive dosage

Filling the silage additive tank

Entering the app's recommendation in CEBIS

Precise dosage with the CLAAS silage additive app.

The app uses the silage additive characteristics, the type of crop and the chosen tank capacity to help you find the correct settings to deliver the required daily dosage. Once you have entered the manufacturer's recommended silage additive instructions and the key data of the JAGUAR, the app calculates the precise dosage for the crop and the harvesting process. The silage additive app is available through CLAAS connect for Android and Apple.

Key data for precise dosage.

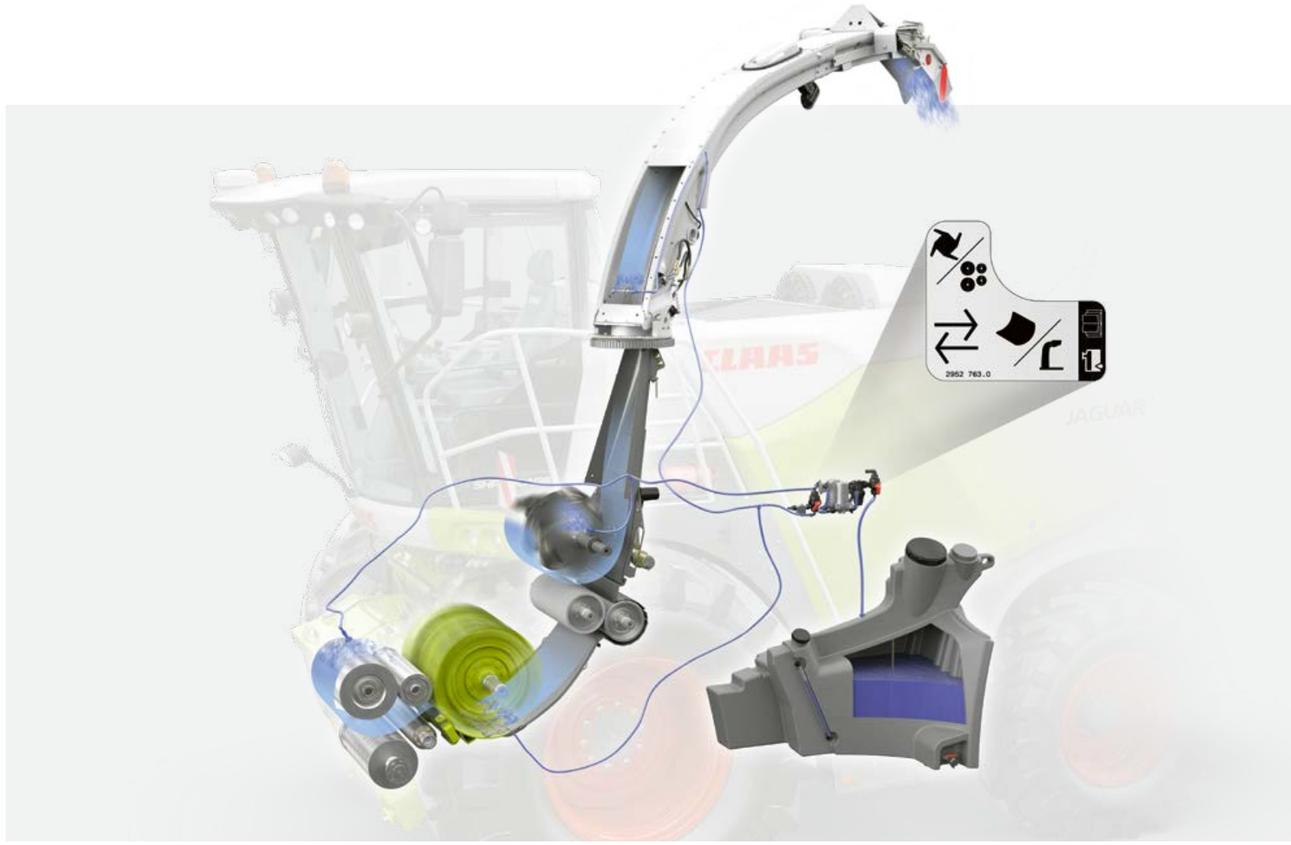
– What is the estimated yield (t/ha)?
– What is the size of the area to be harvested (ha)?
– What quantity of silage additive is recommended (g/t)?
– What is the quantity of silage additive in a pack (g)?

Matched to the specific situation.

Once the app has shown you how much silage additive you require, you can determine the dosage. To do this, you need more information:

– Which silage additive system is to be used (ACTISILER or silage water tank)?
– How full is the tank concerned?
– What is the working width (m)?
– What is the estimated working speed (km/h)?
– Is dosing to be performed in l/t or in l/h during chopping?

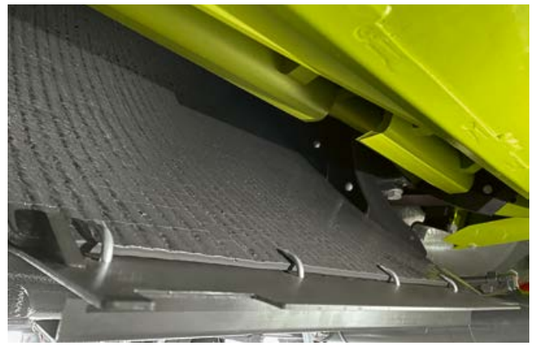
It only remains for you to enter the calculated dosage in CEBIS. Corrections can be entered at any time while chopping is underway.



Water to prevent crop flow issues.

If you are harvesting crops with a high sugar content, the programmed injection of water at specific points in the crop flow path — such as the feeder unit, guide plate, accelerator and discharge spout — reduces the build-up of sticky material.

Whenever the crop flow ceases, at the headland, for example, or during forage trailer changeovers, water can be injected automatically. The water from the 375-litre tank moistens the sticky material in the crop flow path. When the crop starts flowing again, the harvested material cleans the crop flow path. It is then possible to perform an additional injection of silage additive using the ACTISILER 37 tank.



NEW

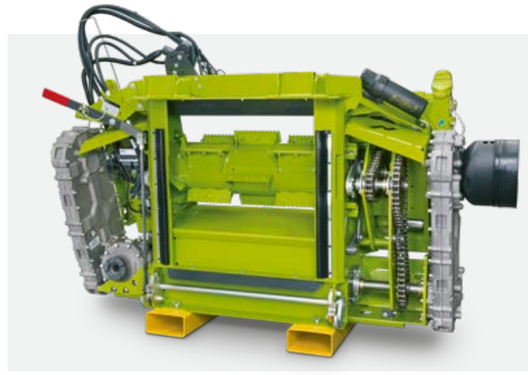
Adapter for maize cob silage (MCS) harvesting

MCS is forage with a high energy concentration used for milk and meat production.

The new adapter impresses with its perfect crop flow, high throughput and reliable performance.

- Easy adaptation to JAGUAR with power transmission via quick release coupler
- Integrated electrical and hydraulic supply package with multicoupler and central locking
- Integrated lateral compensation for optimal ground contour adaptation by the AUTO CONTOUR system
- Aggressive feeder drum for even and high-throughput crop transfer to the JAGUAR
- Robust design and sturdy transmission for sustained power transfer to the maize picker

The wide feed drum with offset paddles adjusts to the material feed height by means of its floating mounting, thereby ensuring that the harvested material is transferred evenly to the JAGUAR.

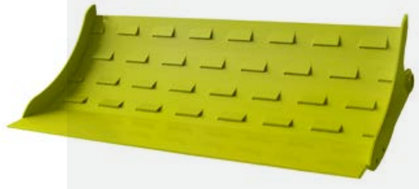


Engagement of the drive is automatic via quick coupler. Power transfer to the maize picker is handled by a robust spur gearbox while the drive to the feed drum is transmitted by a high-performance 80-HD chain drive.

For ideal ground adaptation, the adapter plate is guided hydraulically via the integrated tilting frame with robust rollers. Uniform stubble height with AUTO CONTOUR.

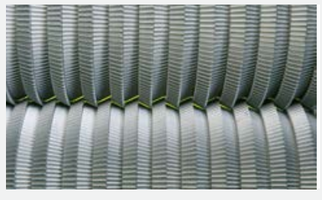
CLAAS offers various equipment options for intensive kernel processing.

- Use of an aggressive chopping cylinder concave
- Speed difference increased by 60% when using the MULTI CROP CRACKER CLASSIC
- MULTI CROP CRACKER CLASSIC rollers with 150 or 190 teeth, fine toothing on the roller circumference
- Use of the MULTI CROP CRACKER MAX



Aggressive chopping cylinder concave

MCC CLASSIC 60% speed difference



MCC MAX for particularly intensive processing

The power you need with the fuel savings you like.

CPS | CLAAS POWER SYSTEMS

Our driving force: the interplay of select components.

Your CLAAS machine is much more than the sum of its individual parts. Top performance is only possible when all the parts are ideally matched and work together optimally.

In CLAAS POWER SYSTEMS (CPS), we have brought together select components to create an intelligent drive system that sets new standards. Full engine output only when you need it. Drives that are suited to the way your machines are used. Fuel-saving technology which quickly pays off.

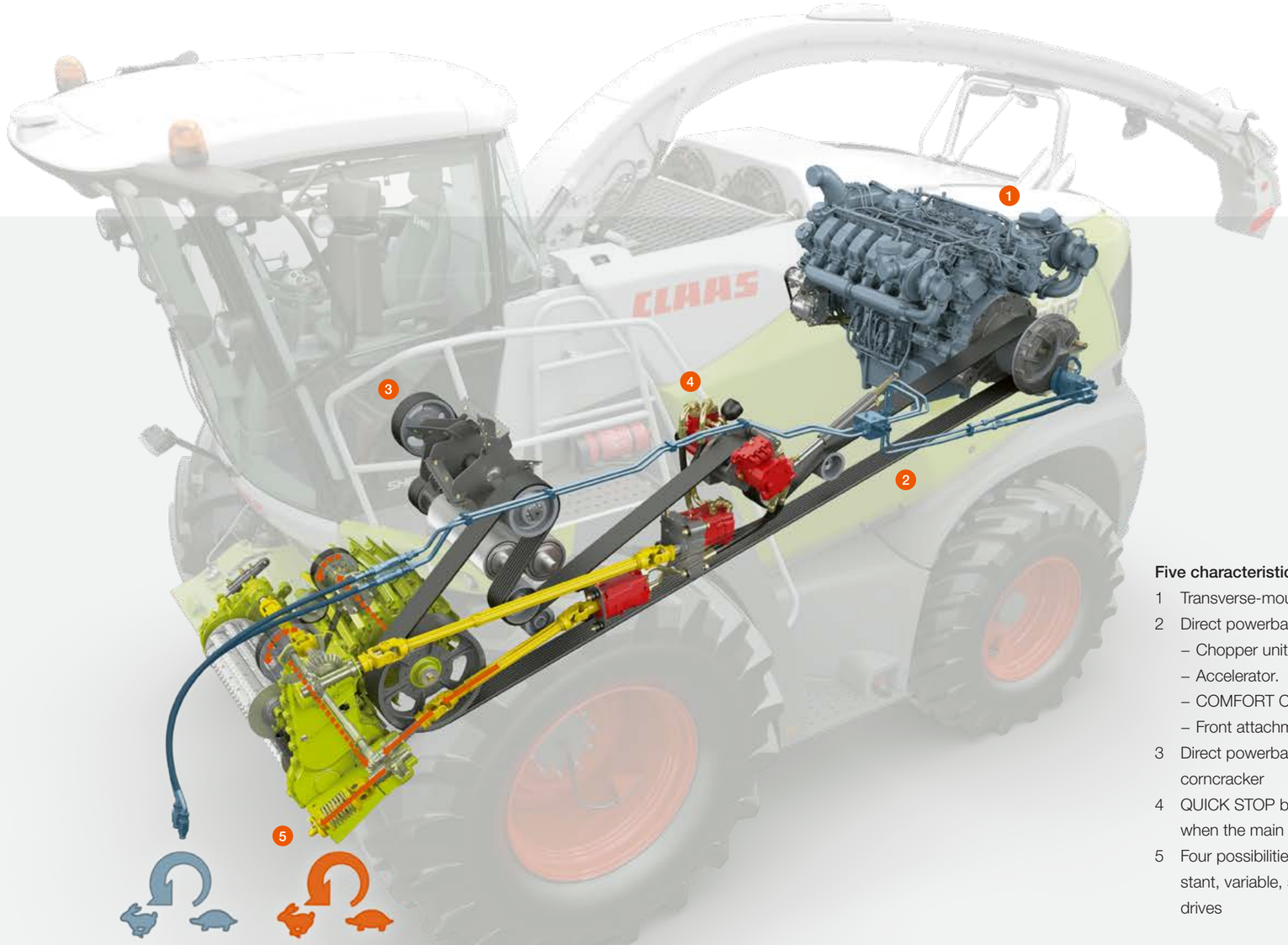
Its drive is brilliant.

Power used efficiently.

The highly efficient JAGUAR drive system impresses through its simplicity. The chopping mechanism is driven directly by the engine via a long, maintenance-free powerband.

– The COMFORT CUT precompression roller drive is integrated in the main drive.
– The whole feeder unit is designed for maximum reliability, outstanding durability and a long service life, with rugged drives, large bearings and gears.

– The front attachments are connected to the JAGUAR by means of a quick-release coupler and can be driven in standard, split-power or variable mode. A second, independent front attachment drive can be used for the reel of the PICK UP.
– The crop accelerator can be run with a high discharge rate or, to save energy, with a wider clearance setting.



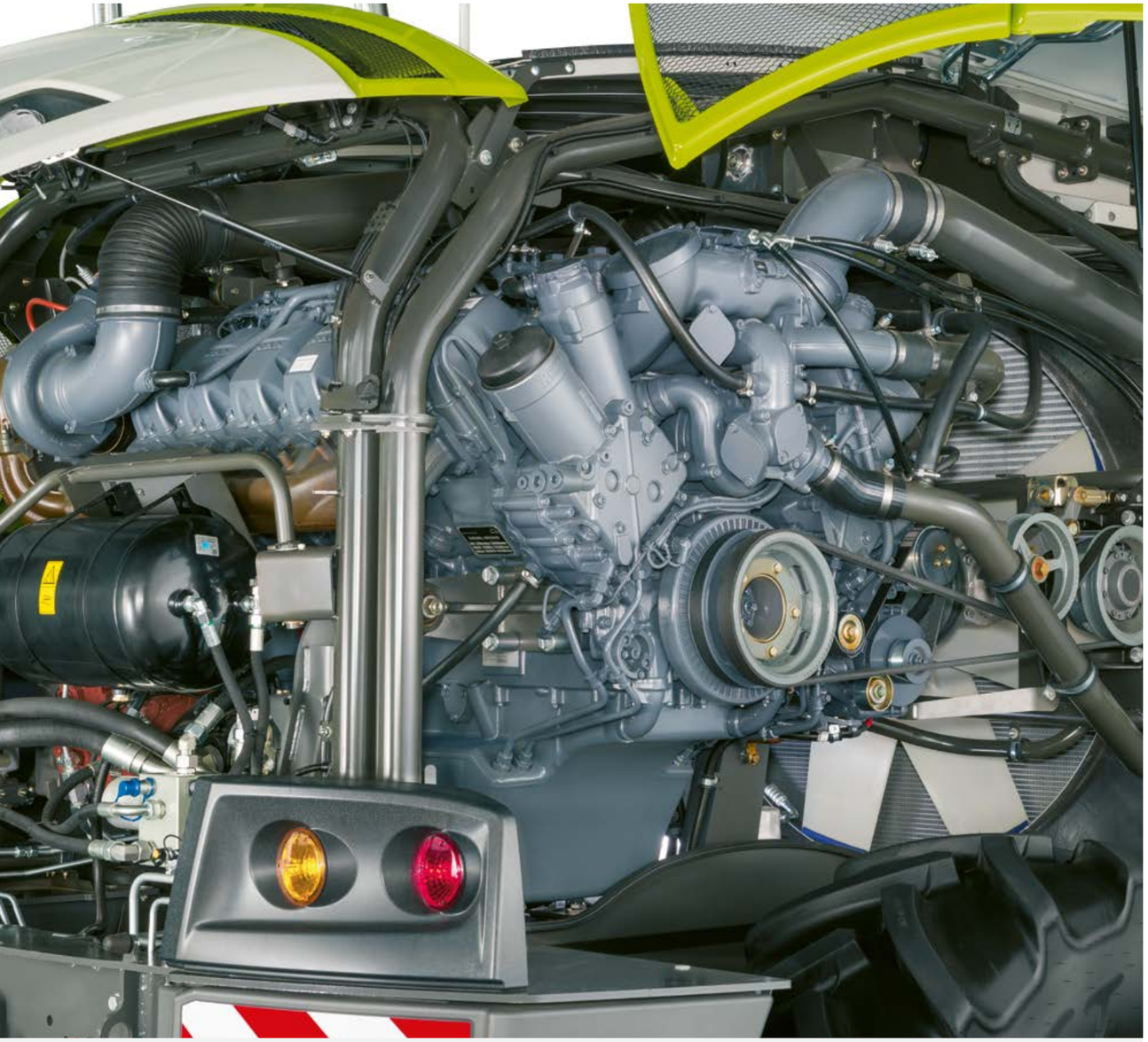
Five characteristics that deliver efficient performance.

1 Transverse-mounted engines
2 Direct powerband drive from engine to
  – Chopper unit
  – Accelerator.
  – COMFORT CUT
  – Front attachment drive
3 Direct powerband drive from accelerator to corncracker
4 QUICK STOP brings the crop flow to a halt quickly when the main drive is disengaged
5 Four possibilities for the front attachment drive: constant, variable, split-power or two independent variable drives

More throughput. Less fuel.

– The JAGUAR main drive: direct, powerful, robust and requires little maintenance
– The drive system: a highly efficient design

Up to 925 hp
to get the job done.



MAN V12 D2662

MAN S6 D4276

Mercedes-Benz OM 473 LA

Mercedes-Benz OM 471 LA

Power and intelligence from MAN and Mercedes-Benz.

All the engines meet the requirements of the Stage V emission standard. The exhaust emissions of the JAGUAR 960-930 models are cleaned by exhaust gas recirculation as well as by selective catalytic reduction (SCR) in combination with a diesel particulate filter. The JAGUAR 990-980 models use an SCR system on its own while the JAGUAR 970 features exhaust gas recirculation and an SCR system. The JAGUAR 970 is equipped with a MAN 6-cylinder in-line engine with 790 hp and a displacement of 16.15 l. The displacement of almost 3 l per cylinder promises a stable power curve with sustained torque. This means that you can make your way through the densest maize crop without any difficulty.

- Common rail, high-pressure injection technology (up to 2,500 bar)
- Torque is consistent over a wide engine speed range
- Low weight thanks to high power density
- Very low fuel consumption
- Emission standard Stage V
- DYNAMIC COOLING variable fan drive
- Effective cooling through large surface area of radiator screen

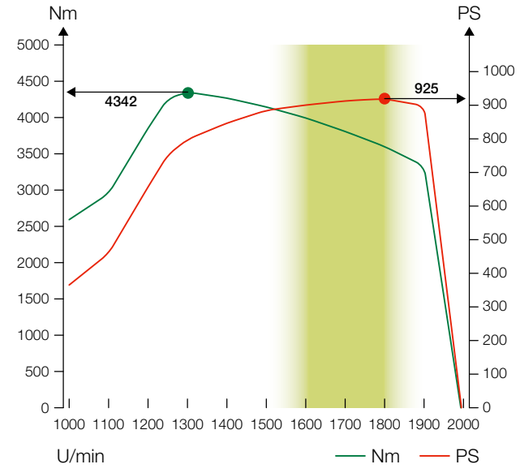
Sustainability.

Ex factory, the machine is supplied with its fuel tank filled with HVO fuel (DIN EN 15940). HVO (Hydro-treated Vegetable Oil) is a synthetic diesel fuel which causes lower pollutant emissions than fossil-based diesel as it is free of aromatics and sulphur compounds.

Characteristics:

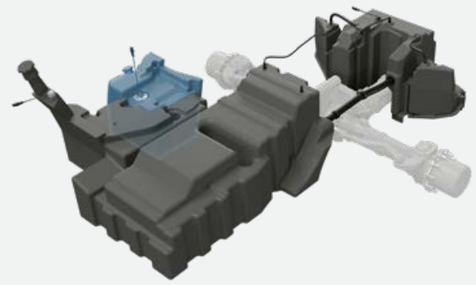
- Fuel consumption is unchanged
- HVO and diesel are fully miscible
- Engine noise is reduced by smoother combustion
- Reduced CO_2-emissions

High engine output - JAGUAR 990.



JAGUAR engines	Type	Stage V kW	Stage V hp	Displacement litres
990 with MAN V12	D2862	680	925	24.24
980 with MAN V12	D2862	625	850	24.24
970 with MAN S6	D4276	581	790	16.15
960 with MB S6	OM 473 LA	480	653	15.60
950 with MB S6	OM 473 LA	430	585	15.60
940 with MB S6	OM 471 LA	390	530	12.80
930 with MB S6	OM 471 LA	340	462	12.80

High-capacity fuel tank



JAGUAR	Fuel tank	Auxiliary fuel tank	Total fuel	Urea tank	HVO ready
990-930	1100 l	400 l	1500 l	130 l	●

NEW

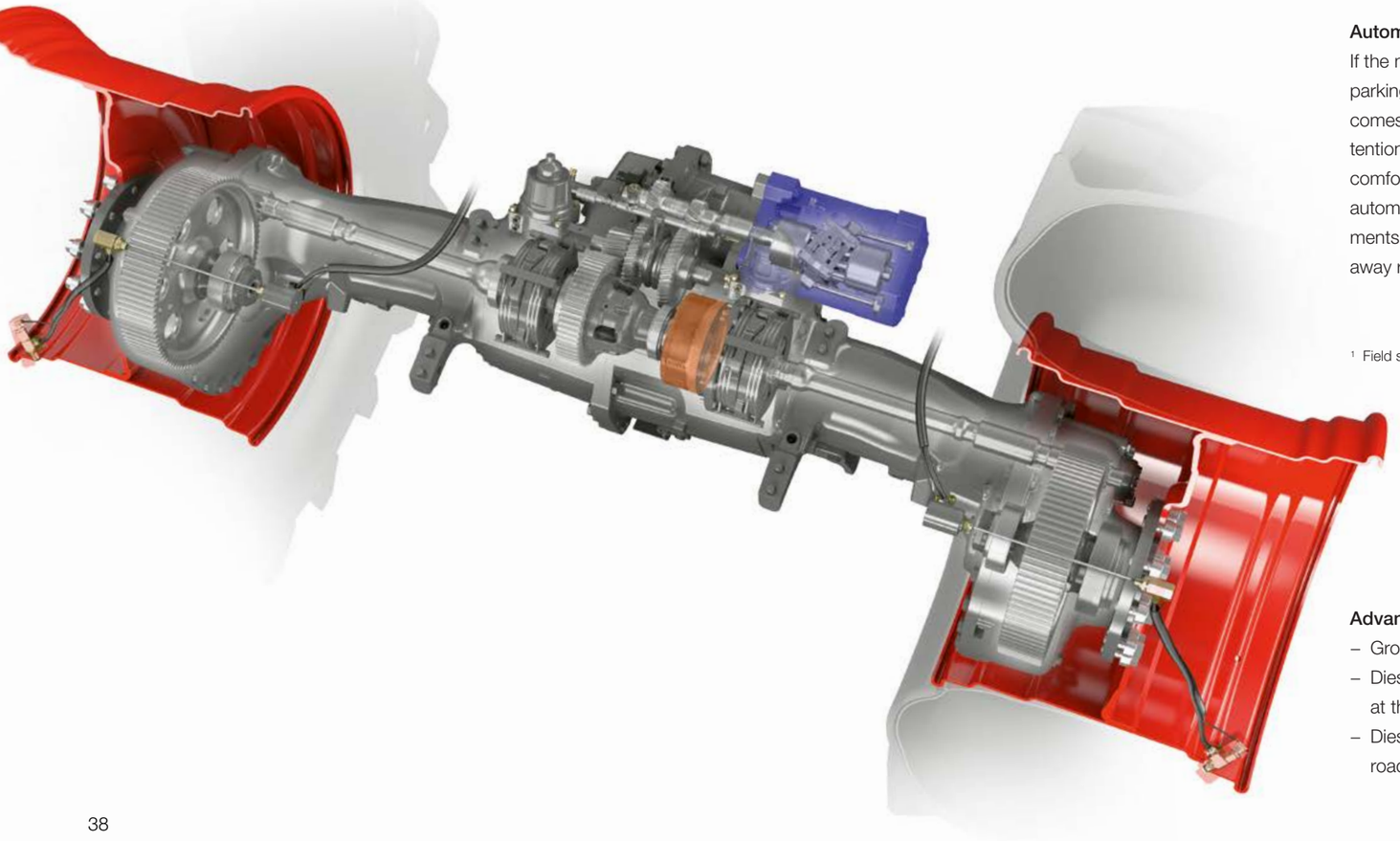
Putting the power down where it's needed.

Front axle with double hydrostatic motor.
The JAGUAR is equipped as standard with a double hydrostatic motor at the front axle. It has a wide speed range and pulls away powerfully on the road, in the field and on slopes. Its two-speed gearbox not only gives it plenty of tractive force, but also allows it to reach speeds of up to 40 km/h.

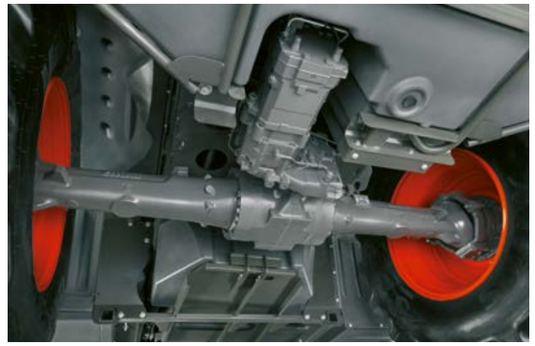
The wheeled machine is capable of speeds of up to 22 km/h in first gear. This increases its operational flexibility and makes for greater comfort and convenience during field work. Automatic engine speed reduction saves fuel and reduces engine noise with speeds dropping as low as 1,400 rpm when turning at the headland and even 1,200 rpm when stopping for a trailer changeover. During road travel, the engine speed is reduced to as little as 1,290 rpm.

Limited slip differential lock with three settings.
For improved traction, you can simply lock the drive axles by means of a multi-disc clutch. You have a choice of three settings:

1 The automatic engagement system recognises when a wheel on the drive axle is slipping and locks the front axle automatically. This setting is recommended when harvesting with AUTO PILOT.
2 The automatic disengagement system normally keeps the clutch closed. It opens it again if the speed exceeds 15 km/h, if there is a steering input or if braking occurs.
3 Manual engagement is suitable for short-term use in very heavy-going and difficult terrain.



Tyre pressure control system for front and rear axle.
When operating on ground that is wet or which provides poor traction, you can adjust the tyre pressure accordingly (optional feature). Furthermore, adjustment for road travel and field work takes place automatically. Reduced tyre pressure means that the machine is very gentle on the soil while delivering maximum traction and reducing your fuel consumption by up to 5%[1].



POWER TRAC for additional tractive force just when you need it in the field.
When the machine is operating in field mode, the multi-disc clutch allows you to engage 40% more tractive force at the touch of a button. The rear axle with its 9.5 t load capacity and its inboard, protected wheel angle sensors is extremely robust. The track width can be increased with appropriate spacers.

Automatic parking brake for enhanced safety.
If the multifunction control lever is in the neutral position, the parking brake is actuated automatically when the machine comes to a standstill. This prevents it from rolling away unintentionally on a slope. Furthermore, you can change gear comfortably without having to use the brake pedal. With the automatic parking brake function deactivated, front attachments can be coupled easily thanks to the very sensitive pull-away response.

Large tyres for high ground clearance.
On standard tyres, the JAGUAR has ground clearance of up to 450 mm. If you wish to have even greater ground clearance, you can specify the optional, large tyres: these have a maximum size of 900/60 R 38 and a diameter of 2.05 m at the front and a maximum size of 620/70 R 30 at the rear. The turning radius is approximately 12.50 m.

[1] Field study by the South Westphalia University of Applied Sciences

Advantages of JAGUAR TERRA TRAC:
- Ground speed of up to 15.5 km/h in first gear
- Diesel engine speed reduced to 1,400 rpm when turning at the headland and 1,200 rpm when stationary
- Diesel engine speed reduced to 1,750 rpm during road travel

The soil is your greatest asset.

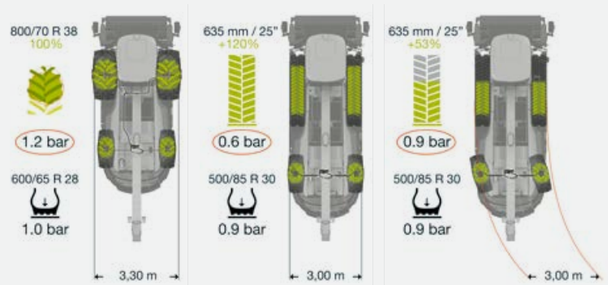
Soil protection and top performance go together.

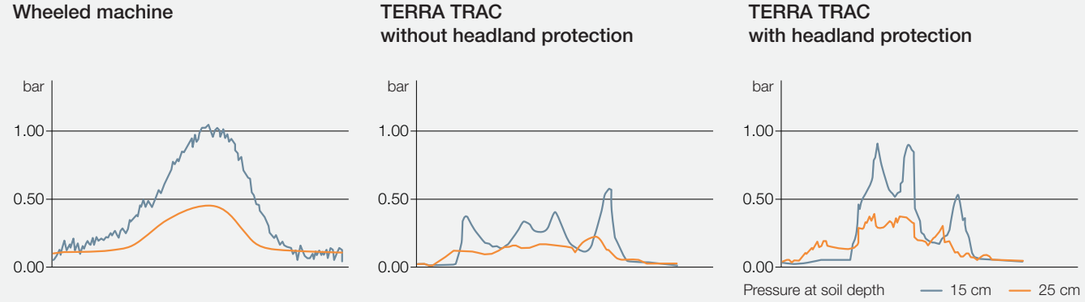
Like the familiar JAGUAR 960 TERRA TRAC, the JAGUAR 990 is also available with crawler tracks. With its patented kinematics, this drive system exerts significantly less ground pressure than a wheeled machine. Make use of the advantages of the crawler track system on all surfaces throughout the whole year:

- Reduces soil compaction in the field
- Stable on slopes
- High on traction for heavy-duty working
- Comfortable driving experience
- Narrow on the road

Three track widths are available:

- 635 mm up to 3.00 m machine width
- 735 mm up to 3.35 m machine width
- 890 mm up to 3.49 m machine width





Even more gentle on the headland.
Studies of soil compaction and grass cover damage show that the results obtained for the JAGUAR TERRA TRAC when turning are almost as good as those for a wheeled machine, provided the former is equipped with headland protection.

Headland protection automatically pushes down the middle track rollers of the crawler track unit when a certain steering angle is reached. Only the drive wheel and the middle track rollers remain in contact with the ground. This reduces the track contact area by a third when cornering and has been demonstrated to prevent the tracks from applying a shearing force to the grass cover.

100% contact area: the track roller is in full contact with the ground.

66% contact area: the track roller is raised when negotiating curves.

Efficiency
meets intuition.

There is nothing to distract you.

You will find that you can operate the JAGUAR intuitively in next to no time. The low noise level in the cab and the optimal view of the field allow you to concentrate fully on the task in hand while the steering column and operator's seat can be adjusted to meet your requirements precisely.

Key functions are controlled by means of the CMOTION multifunction lever and a small number of central controls which are laid out logically. All machine functions can be accessed quickly and easily via the CEBIS touchscreen.

Easier than ever.

Respond faster via the touchscreen.

The JAGUAR can be operated without previous knowledge. This means that even new operators can quickly handle the machine safely and reliably and make use of its performance capacity.

The touchscreen CEBIS gives you fast access to all the machine functions. The most important adjustments can even be made directly by means of switches on the armrest. Precise operation is ensured, even during a bumpy ride across a field or when an inexperienced operator is at the controls. You can adjust and operate your JAGUAR in four different ways, as required.

A JAGUAR fits the way you work perfectly.
- The clear menu system provides scope for personalised display options.
- Fast access is made easy by the CMOTION control lever.
- The position of the monitor can be adjusted as required for an optimal view.

1 CEBIS touchscreen.
CEBIS responds immediately to a simple tap on the touchscreen. You have direct access to all the machine functions – such as CEMOS AUTO PERFORMANCE.

2 CMOTION favourites management.
Seven settings can be programmed as favourites and accessed by rocker switches on the CMOTION control lever. You can therefore concentrate on watching the front attachment and crop flow.

3 CEBIS rotary/push switch and pushbuttons.
Even when operating in bumpy terrain, you can easily navigate the CEBIS control panel using rotary/push switches and the Escape and Favourites buttons – e.g. to adjust the shear bar.

4 Direct adjustment via switches.
You operate predefined basic functions directly by means of assigned switches – e.g. to adjust the working width with the section switch.

A cab that's a pleasure to work in.

The clear and intuitive controls make for easier harvesting, even on long working days. The choice of user-friendly entertainment and communication systems makes work seem almost like a hobby.

Hands-free functionality, navigation, playing music – in combination with Apple CarPlay / Android Auto, the sound and entertainment package makes work more enjoyable. The subwoofer lends the sound the right depth and forceful bass delivery.

CLAAS offers preparation for installation of these items as an additional equipment option. It is then simplicity itself for your CLAAS distributor to retrofit the cab with a radio with a 6-inch touchscreen.

Everything you need for convenient, high-quality communication and entertainment is provided.

- DAB+ radio for clear reception of national stations
- Gooseneck microphone to ensure that you are heard loud and clear
- Inductive charger for wireless phone charging
- Additional USB-C ports to charge other devices
- Large cupholders for your drinks
- Integrated compressed air gun quickly cleans sand or dust out of the cab

Intuitive and comfortable, our quietest cab.

Your workplace in the JAGUAR.

In the JAGUAR, there is simply nothing to distract you. You have the space you need, are shielded from noise and have a clear view all-round.

- Spacious cab with two seats
- Excellent seating comfort with a choice of comfort seat, leather seat or heated and ventilated premium seat
- LED work lights (characteristics similar to daylight) on cab roof, at the rear and on the discharge spout for optimal monitoring of harvesting operations

Developed for extended working.

- Very quiet and spacious workplace
- Simple, intuitive operation
- Very good view in the field and on the road
- Equipped to a high standard for high comfort

Ergonomic comfort cab.
The steering column and operator's seat can be adjusted to suit each and every operator. Thanks to the clearly laid-out displays and controls, you will feel at home in the JAGUAR in no time.

Wide range of equipment variants.
Roller sunblinds, air conditioning, a radio and a coolbox help to keep you fresh and alert, no matter how long you are on board.

Good communication.
The radio tuning and volume controls as well as those for the telephone (via Bluetooth) are integrated in the armrest.

Lighting as bright as day.
LED work lights on the cab roof and at the rear turn night into day for you. The LED spotlight on the discharge spout pivots with the crop flow.
LED road lights are optional.

Designed for a pleasant working experience that also saves time and fuel.

Make life easier for your operators.

Although they vary depending on the individual farm and task concerned, the demands made on operators can be very high and are constantly increasing. CLAAS operator assistance systems have been developed to make your operators safer and more proficient, to make your harvesting run more smoothly and to reduce your costs. As a result, you are able to make more efficient use of the JAGUAR throughout the whole working day.

We have an outstanding support team for you.

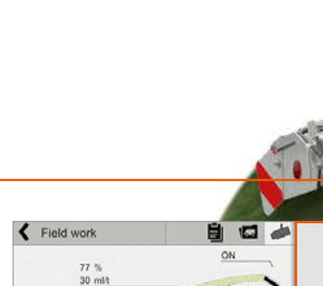
DLG silver award for CEMOS AUTO PERFORMANCE.

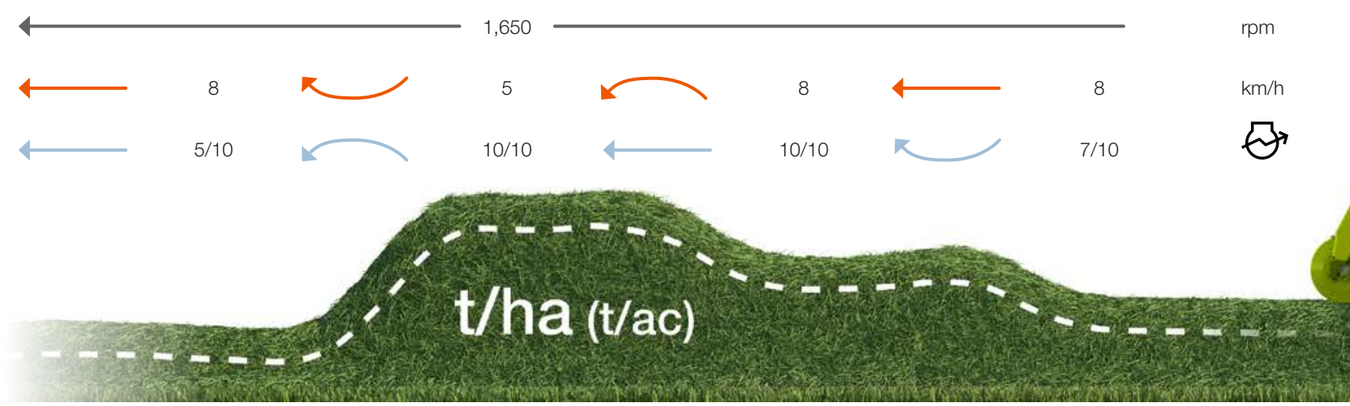
CEMOS is the CLAAS Electronic Machine Optimisation System, within which CEMOS AUTOMATIC groups together all the functions which automatically optimise the machine and a particular process. CEMOS AUTO PERFORMANCE is an intelligent engine management and ground drive system for the JAGUAR which was awarded a DLG silver medal.

With CEMOS switched on, you can harvest even more efficiently – an improvement in the area/hour (ha/h) rate of up to 7% with a 12% fuel saving is possible. In order to increase efficiency and reduce fuel consumption, the JAGUAR maintains the engine speed set by the operator and adjusts the engine output and ground speed in accordance with the volume harvested. When the volume harvested increases, the ground speed is reduced. A reduction in the volume harvested results in the automatic reduction of the engine output.

Five advantages of CEMOS AUTO PERFORMANCE:
- A consistent engine speed for a consistent harvesting process
- Even crop flow for highly reliable operation
- Lower fuel consumption as a result of operating in an efficient engine speed range, especially under partial load
- Pleasant driving characteristics without sudden load changes
- Operator's workload is reduced in demanding harvesting situations

Easy operation with the CMOTION control lever.
CEMOS is activated via the practical dual-function Auto button. First, a single press of the button switches on the automatic steering system. Once the machine has driven into the crop, CEMOS can be activated by a second press of the button. With the machine now in the crop, CEMOS is able to configure it more rapidly to ensure stable performance in the optimal operating range.





Steering assistants for outstanding harvesting precision.

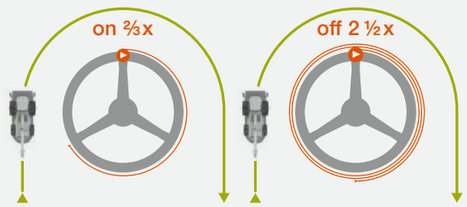
Easy steering.
Precise steering is decisive for the efficiency of your entire harvest operation. Enhancements to steering systems can even enable dynamic steering and so significantly increase driving comfort when turning at the headland. Automatic steering systems, such as CAM PILOT, AUTO PILOT and the satellite-based GPS PILOT can greatly reduce the burden on your operators.

Dynamic steering for the JAGUAR.
The machine takes about five steering wheel turns to go from lock to lock. However, many operators prefer a reduced steering effort when they have to turn at the end of the field. The dynamic steering system makes it possible to go from straight-ahead running to full lock in only ⅔ of a steering wheel turn when travelling below 10 km/h. The intensity of the dynamic steering response can be adjusted as required in CEBIS. The system allows individualised settings to be programmed, with different responses possible on the basis of whether the front attachment is in the working position or not.

Vision-based with CAM PILOT.
The CAM PILOT assumes control of steering the JAGUAR in combination with the PICK UP. The swath is detected as a three-dimensional image by a twin-lens camera. Corresponding signals are transmitted to the steering mechanism in the event of deviations in the swath shape or direction. The steering axle then responds to these steering commands. This makes for reduced operator workload at speeds up to 15 km/h.

Sensor-based with AUTO PILOT.
Row-independent maize front attachments also usually follow maize in rows, a task in which they are assisted by the AUTO PILOT. Two sensor arms each scan a row of maize. The signals they generate are translated into corrective steering impulses. Twin-row sensing allows automatic steering in row widths from 37.5 cm up to 80 cm.

Dynamic steering.



With dynamic steering: ⅔ of a steering wheel turn to full lock

Without dynamic mode: 2 ½ steering wheel turns to full lock

CEMIS 1200 terminal with intuitive control.

You can count on the support of the CEMIS 1200 terminal for precision GPS tracking and job management.
- Bright 12-inch display
- Fast touchscreen operation
- Freely configurable working areas

Online job management between office and machine.
With CEMIS 1200 and an active Machine connect licence, you can handle your job management via your mobile phone connection in just a few clicks. Plan jobs, including reference tracks, in CLAAS connect and transfer them straight to the machine. On completion, the operator uses the same quick and easy method to send the job data, including the yield data, back to the office.

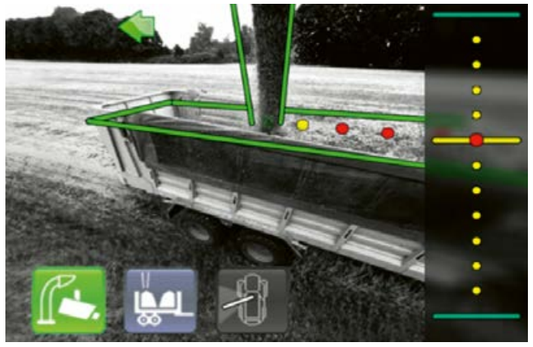
Satellite-based with GPS PILOT.
Using satellite signals, the GPS PILOT guides the JAGUAR with unsurpassed precision in parallel lines, along curved contours defined by the crop edge or along reference tracks which have been defined by the operator. It is possible for the operator to make use of the full working width and to reduce overlaps to a significant degree. The system works at night or in low visibility just as precisely as it does in full daylight. Existing GPS track lines in ISO XML format – produced by a swather during grass harvesting or generated during maize sowing, for example – can be used with the GPS steering system of the JAGUAR.

Antenna and receiver are housed together in the roof unit. The SAT-900 GNSS receiver is provided with SATCOR 15 by Trimble RTX as standard.
- 5-year licence for use of SATCOR 15 by Trimble RTX
- Pass-to-pass accuracy +/-15 cm
- Pass-to-pass accuracy as high as 2 cm is available as an option

SAT-900 antenna and receiver in one unit – with anti-theft protection

Chop more, stress less.

Only an automatic system can fill a trailer as reliably as this.



AUTO FILL for automatic trailer filling.
AUTO FILL is based on digital 3D image analysis. The system takes care of controlling the position of the discharge spout to the side or the rear. In chopping start-up mode, you choose the direction in which discharging is to take place. For automatic filling to the rear, only the desired impact point needs to be specified. In crosswinds or on steep slopes, the impact point can be corrected. You can always see the target impact point indicated on the AUTO FILL camera image.

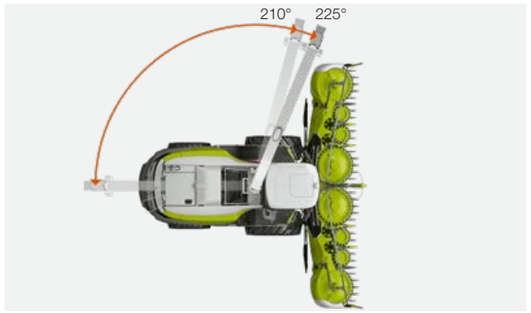
OPTI FILL for maximum operating convenience.
The optimised spout control system makes it easy to manage the discharge process, even without AUTO FILL. A large swivel angle of up to 225° ensures that you have an optimal view of the process. When the discharge spout is swivelled, the end flap is adjusted automatically in such a way that the discharge takes place parallel to the direction of travel.

Impact point indication for side discharging.
When the machine is discharging to the side, the operator is given a virtual indication of the impact point of the harvested material. In automatic mode, the discharge stream can target the impact point for efficient trailer filling.

Two permanently programmed spout positions simplify the swivelling process at the end of the field. The discharge spout can also be returned to its parking position automatically at the touch of a button.

Trailer changeover while on the move.
An exclusive function allows the operator to change to a different discharge trailer while AUTO FILL is running. This function is triggered by double-clicking the AUTO FILL button. The end flap opens at a preset angle so that the crop stream is directed accurately to the empty trailer running alongside. While this is happening, AUTO FILL is in standby mode and is reactivated by the operator as soon as the fully laden trailer is no longer picked up by the camera.

Rear discharging.
If there is a changeover from side discharging to rear discharging, as a result of a change of chopping mode, for example, the operator only has to define the impact point by actuating the discharge spout flap.



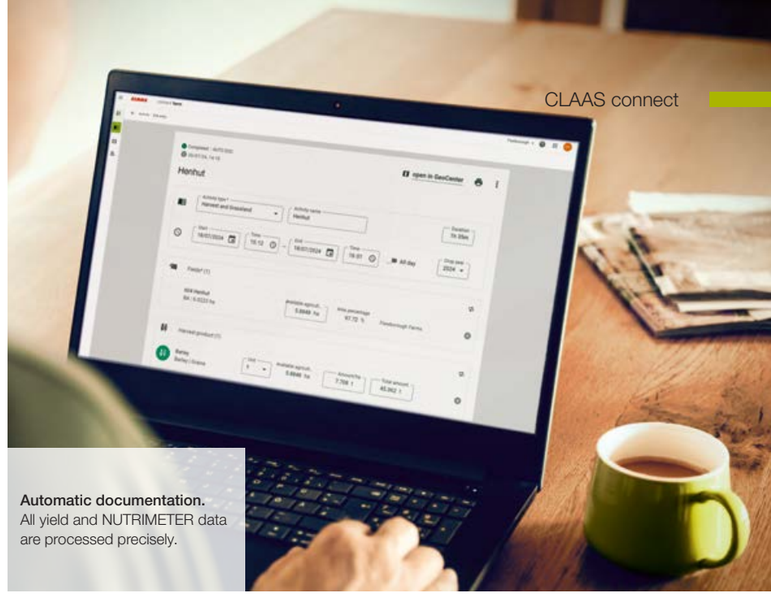
Avoid operator stress and losses.
- Automatic side and rear discharging reduces the operator's workload
- Video display with symbols - indicating the position of the discharge spout, for example
- Accurate guidance of crop stream when changing trailer

CLAAS connect links the JAGUAR with your farm.

With the CLAAS connect app, you are able to benefit from all the advantages of modern farm and fleet management, make greater use of the performance capacity of your machines and reduce your workload at the same time. The app combines digital machine management with documentation, application mapping and yield mapping on a secure, cloud-based platform.

Once installed, the system guides your through the entire farming year and helps boost profitability while supporting your decision making, from sowing to harvesting.

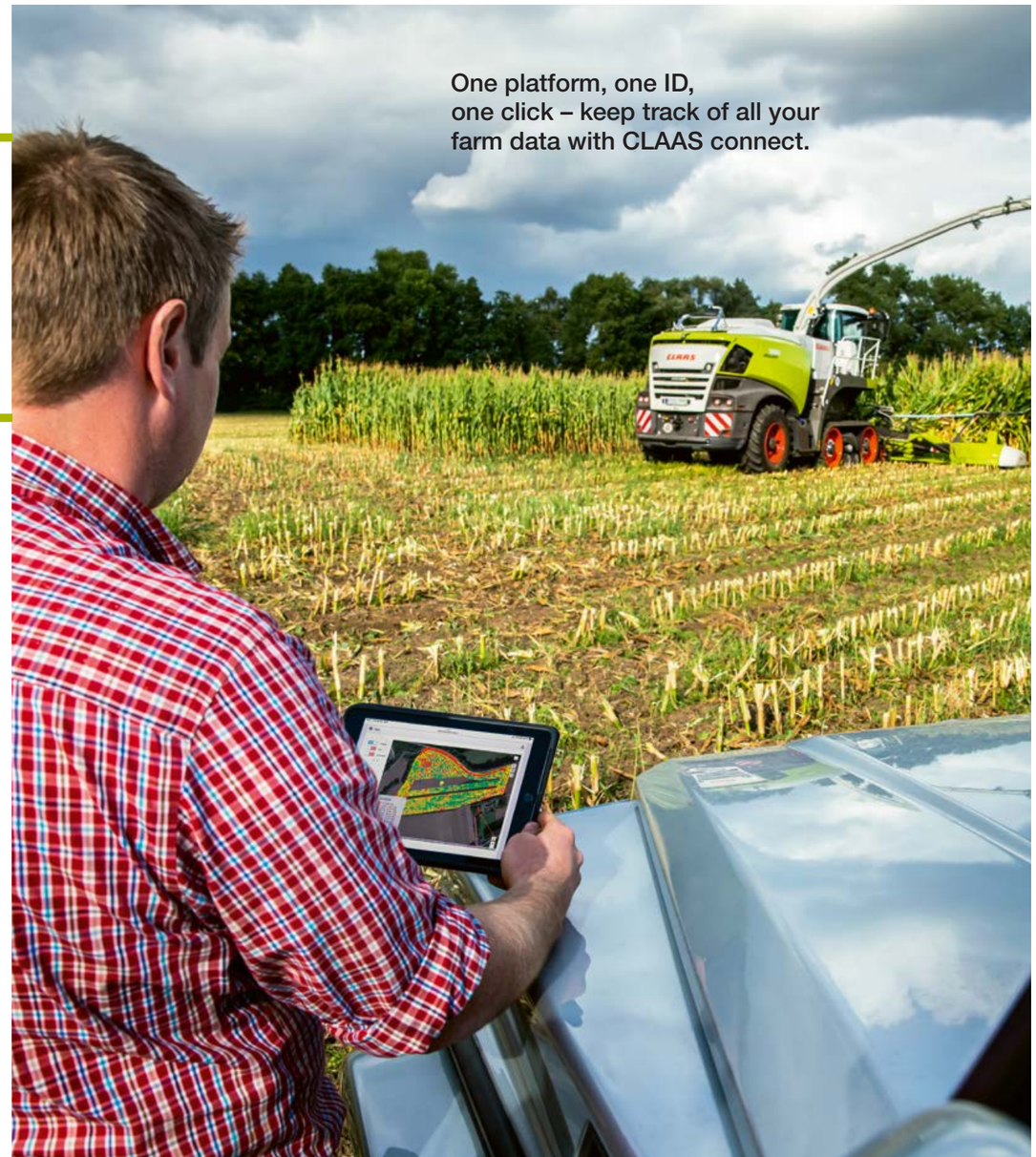
High operational reliability.
You are directly connected to Service support and can order parts and consumables through Parts Doc and Lubricant Advisor.



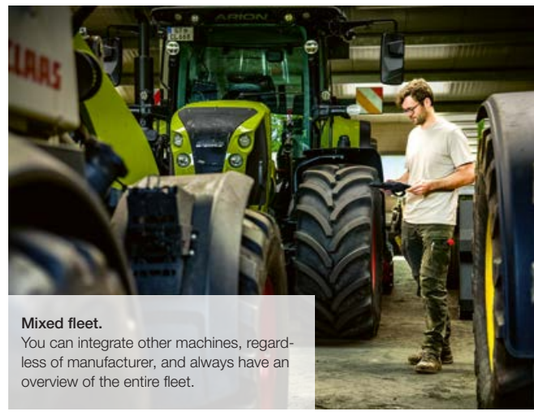
Automatic documentation.
All yield and NUTRIMETER data are processed precisely.

CLAAS connect gives you a global view of your machines and allows you to monitor the progress of work in the field so that you can plan how to use your fleet effectively.

Your work, including yield and NUTRIMETER data, is documented automatically. You can easily plan track lines in the office beforehand and transmit them straight to your machines.



Clear geodata.
You can manage your yield maps and other geodata in a structured way in one place.



Mixed fleet.
You can integrate other machines, regardless of manufacturer, and always have an overview of the entire fleet.

Full performance from your machines.
You can compare machine settings, analyse operating times precisely and calculate the estimated time until completion of the job.

CLAAS connect package

Documentation

- CLAAS connect
- Machine connect

CLAAS connect package - Professional

Documentation + Steering system + Precision farming

- CLAAS connect
- Machine connect
- GPS PILOT CEMIS 1200

CLAAS connect package - Professional with NUTRIMETER

Documentation + Steering system + Precision farming

- CLAAS connect
- Machine connect
- GPS PILOT CEMIS 1200
- NUTRIMETER:
  – Maize constituent measurement
  – Automatic length-of-cut adjustment

In order to benefit from the full functionality of CLAAS connect Farm Management, one CLAAS connect farm licence is required per farm. Please note: list price offers can be found in the configurator.

The JAGUAR determines the forage quality while out in the field.

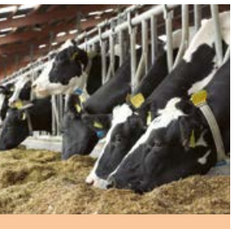
The CLAAS NUTRIMETER is a near infrared sensor that measures the dry matter in your harvested material. It is also able to provide data about the constituents – such as starch, crude protein, crude fibre, crude ash, crude fat and sugar – of various crops. All this happens in real time, providing you with precise data about the quality of the forage while harvesting is still in progress.

The results are displayed directly on the machine in CEMIS 1200 and are transmitted to your office CLAAS connect account to provide you with precise documentation.

With the CLAAS NUTRIMETER you have a reliable near infrared sensor which you can also use as a mobile device.

Sensor-based values (constituents)	Grass	WCS	maize
Dry matter	●	●	●
Moisture	●	●	●
Starch	–	●	●
Crude protein	●	●	●
Crude fibre	●	●	●
Crude ash	●	●	●
Crude fat	●	●	●
Sugar	●	–	–

CLAAS NUTRIMETER. When you want to know exactly what you're dealing with.

Automated processes	Higher silage quality	Precise documentation	Practical benefits
			
Accurate silage additive dosage based on throughput or dry matter content	Fermentation process and aerobic stability are improved	Quantity of silage additive dosed is documented	Silage additive costs of 2-5 € per tonne of fresh mass make precise, strategic dosing a necessity
Automatic length-of-cut control in accordance with dry matter content	Enables uniform compaction and processing	Machine settings available online	For example: automatic adjustment of the length of cut from 30 mm (at 30% DM) to 26 mm (at 35% DM) for optimally processed SHREDLAGE® silage
Dry matter content monitoring for grass, WCS and maize on the spot in the field	Harvesting point is determined on basis of crop maturity	All harvest data available in precise form	A crop which is not in the optimum dry matter range leads to silage effluent formation, starch loss and deficient fermentation
Accurate documentation and precise transmission of harvest data	Direct information for quality control of the silage while it is stored in the clamp	The dry matter content is an important parameter, e.g. for crop sales and feed	For precise and therefore fair billing on the basis of dry matter content
Identification of constituents: starch, crude protein, crude fibre, crude ash, crude fat and sugar	Indispensable knowledge for optimum feed ration composition	Data as basis e.g. for selection of crop variety for next harvest	Guarantees better forage

Precise yield registering with measurement of throughput and constituents.

Practical data management is essential.

Data have long since become an indispensable resource. To profit from their full potential, you should always keep a close eye on the results and know how you can make use of them effectively.

Online registering of the crop yield, moisture content and constituents by means of the QUANTIMETER and NUTRIMETER plays an important role in documenting your machine activity. In order to achieve this, you should ensure that all the systems, machines and work processes are connected in such a way as to provide useful results. The data generated are sent to many different places for analysis.

QUANTIMETER.

Determining the throughput.
The deflection of the precompression rollers is registered and the volume flow measured continuously. Corresponding calibration by counterweighing allows you to achieve a very high degree of accuracy in measuring the throughput. The calibration status is displayed to the operator in CEBIS.

Advantages for you:
- Transparent harvest data for every machine deployment
- No overloading of forage trailers
- Precise data as basis for source stream accounting and fertiliser ordinance

NUTRIMETER.

Determining the dry matter.
The measuring procedure using near infrared spectroscopy runs continuously during the harvesting process. A light source in the discharge spout is directed at the crop as it flows past. The light is reflected back in different ways, depending on the crop moisture level.

As well as providing data on dry matter content, the NUTRIMETER supplies information about the constituents of different crops. The figure for crude ash content, for example, can be used as an indicator for setting the LINER rake height.

Advantages for you:
- Basis for invoicing by dry matter content
- Automatic silage additive dosage and length-of-cut adjustment possible on basis of dry matter content
- Forage quality is already registered during harvesting

Advantages for you:
- Reliable indicator of forage quality
- Quality of different varieties supports decision-making during cropping planning, e.g. on basis of starch content

People and machines you can count on.

Keep downtime to a minimum.

Operating the JAGUAR, you benefit from extremely wear-resistant components which make your machine even more reliable. And from a well thought-out maintenance system that saves a lot of time. From practical details, like the standard compressed-air system which makes cleaning the machine easy. And from the dedicated mechanics of the CLAAS service team, who are there for you 24 hours a day.

A JAGUAR is quick and easy to maintain.

Everything to make maintenance easy.

Large side panels with two opening height detents for shorter or taller staff give you unrestricted access to the cooling system, the corncracker and the accelerator. QUICK ACCESS ensures that the chopping mechanism can be reached quickly and easily. If maintenance is required, the accelerator can be removed by two people in just one hour.
A maintenance-free brake system and long-life hydraulic oil also play their part in saving you time and money.

The seat contact switch automatically switches off the front attachment and main drive.

LED step lighting for safe access to the comfort cab.

QUICK ACCESS lets you inspect the chopping unit in a matter of minutes.

Maintenance lighting as bright as day.
- LED maintenance lighting under the side and rear panels as well as in the stowage compartment
- Hand lamp with magnetic base for front illumination
- LED homefinder light function for work lights after ignition is switched off
- LED step lighting

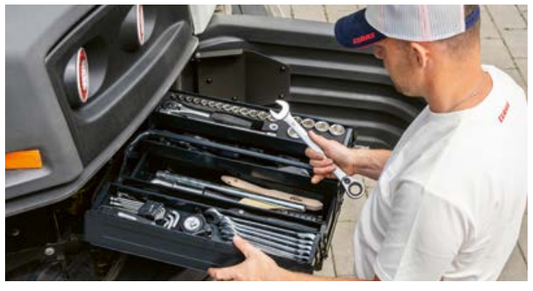
For your safety and convenience.
- Leaving the operator's seat causes the front attachment and the main drive to be switched off automatically after 7 and 12 seconds respectively

Excellent accessibility for convenient maintenance.
- More space for maintenance as well as installation/removal of the corncracker: straightforward, reliable, proven
- Convenient machine cleaning with 15 m compressed air hose on automatic reel
- Maintenance made easy

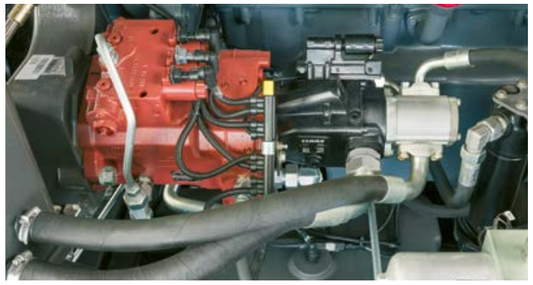
Reliable service.
CLAAS Machine connect is ideal for fast problem resolution and proactive maintenance planning. On identifying a fault, the machine informs the operator and can use Service Remote to send an error message to the service partner. With your authorisation, the service partner has access to all the relevant data, identifies the fault remotely and is able to prepare for the intervention to rectify it.

Machine connect makes periodic maintenance tasks much easier to schedule. The machine informs the CLAAS service partner of the upcoming maintenance requirement. The service partner suggests an appointment time for the maintenance to be performed and, depending on the scope of the maintenance, places an advance order for CLAAS ORIGINAL consumables.

Machine connect is a central element in the intelligent networking of your machines.

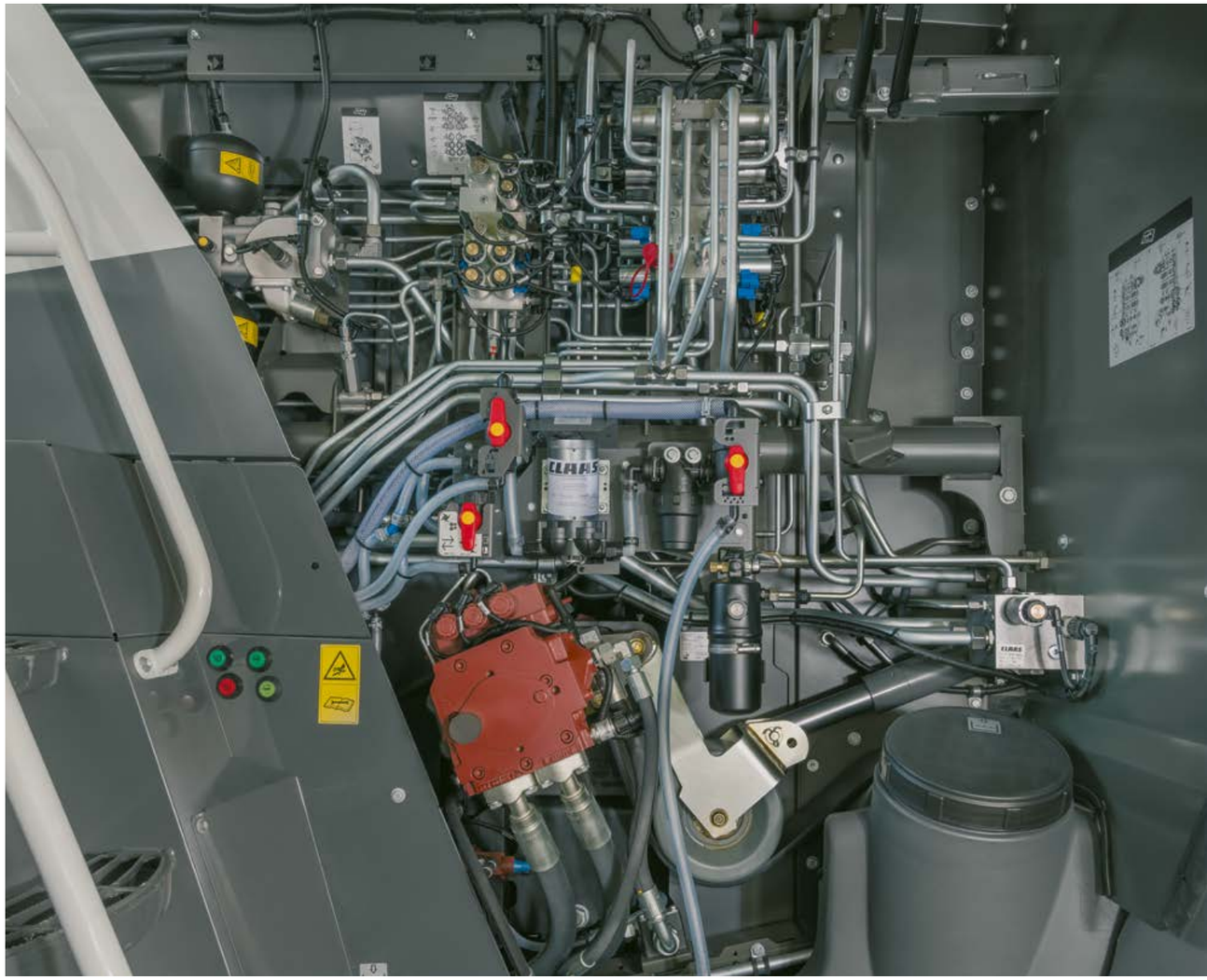


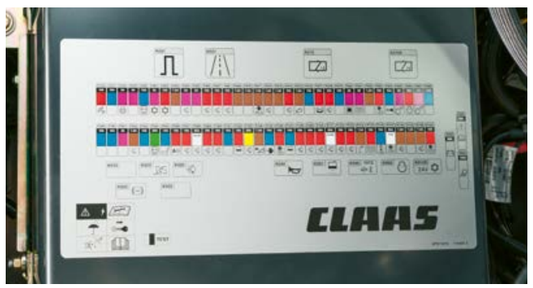
User-friendly design makes for straightforward operation.

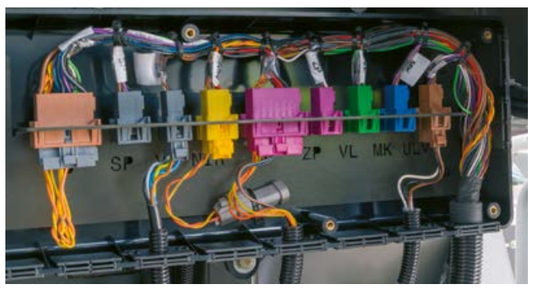


Clear hydraulics control.
The spool valves are clearly laid out on the left side of the machine. Proportional valves enable smooth control of the discharge spout and front attachments when these systems are functioning automatically. The raising/lowering speed and the speed of the lateral levelling system can be adjusted in CEBIS. This means, for example, that you can still obtain a consistent stubble profile with ORBIS, even when operating at high ground speeds.

- Rapid implementation of function commands
- Efficient control by proportional valves
- Low maintenance costs through low-volume oil system
- Hydraulic oil only needs to be changed after 1,000 operating hours
- Practical buttons outside the cab to stop/reverse the front attachment, raise/lower the front attachment and deploy/retract the ORBIS transport system
- Flat face couplings for fast coupling of hydraulic lines







Easy-maintenance electrics.
A convenient control system demands a fast, reliable electrical system. In the JAGUAR, all the key components are housed securely and centrally in the cab. An expansion box in the maintenance compartment of the JAGUAR allows you to retrofit additional options easily.

- PROFI CAM
- OPTI FILL and AUTO FILL
- ACTISILER 37
- NUTRIMETER
- Hydraulic precompression
- Variable front attachment drive
- Auxiliary fuel tank
- Accelerator gap setting
- Tyre pressure control system
- DYNAMIC COOLING

Automatic oscillation damping.
The hydraulically controlled oscillation damping system is activated automatically once the headland is reached and the front attachment raised past the working height. This additional convenience feature reduces wear and tear on the machine when crossing sprayer wheelings, for example. The front attachment is protected by a correspondingly gentle suspension response.

Sometimes you just have to get tough.

CLAAS PREMIUM LINE		Advanced	Professional
1	Feed roller toothed bars	–	●
2	Smooth roller stripper bar	●	●
3	Chopping cylinder concave	●*	●*
4	Vanes	●*	●*
5	Grass chute back panel	●*	●*
6	Accelerator paddles	–	●
7	Accelerator housing, 2-part	–	●*
8	Accelerator housing, left /right sides	–	●*
9	Accelerator back panel	●*	●*
10	Lower discharge chute plate, front / rear	●*	●*
11	Discharge spout rotation ring plate	●*	●*
12	Wear plates of discharge spout	–	●*
13	First wear plate on discharge spout	–	●
14	Discharge spout flap	–	●

● Available – Not available

* The JAGUAR PREMIUM LINE Advanced and Professional packages give you a guaranteed operation warranty for all parts marked with*. This cover runs for five years or for a specified number of engine operating hours (whichever limit is reached first). For the precise number of hours, please see the JAGUAR product page.

Greater operational reliability with PREMIUM LINE wear protection.

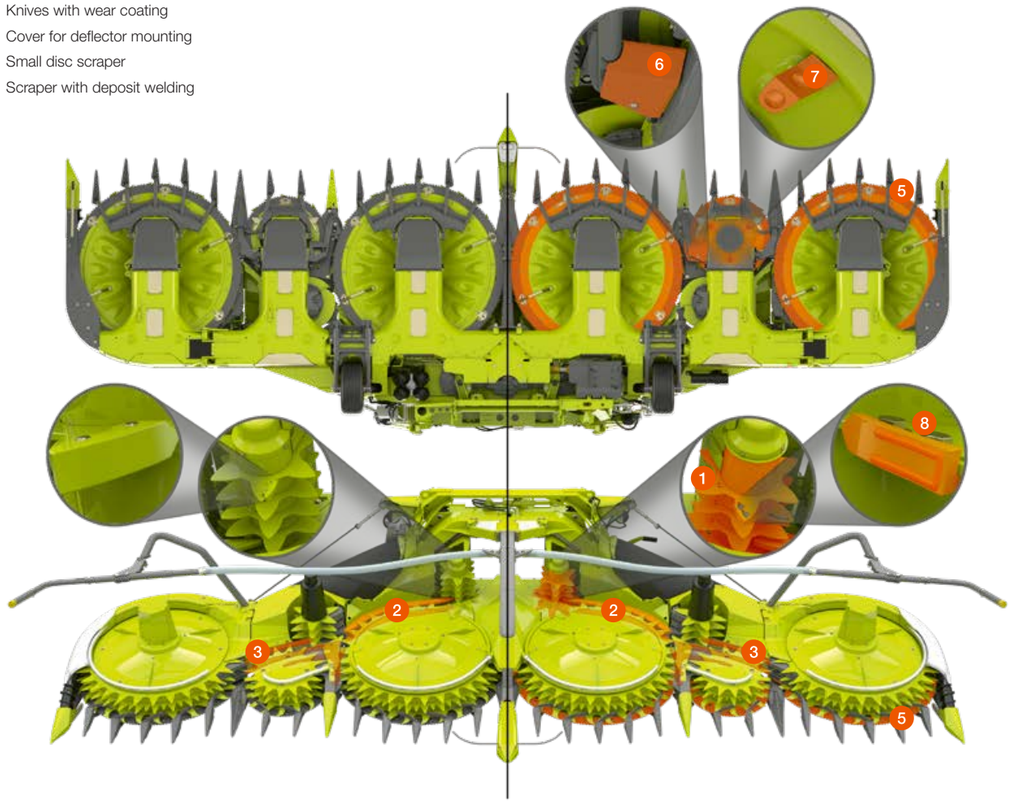
Guaranteed performance level.
Even under the most demanding harvest conditions, CLAAS PREMIUM LINE parts provide very high wear resistance and a long service life. In many cases it is not necessary for them to be replaced until after several campaigns. This increased durability is made possible by special manufacturing processes, high-quality materials and special coatings.

The objective of the PREMIUM LINE system is for the service life of the parts to be at least twice or three times that of standard parts. Practical experience shows that this objective is indeed attained. This is why we guarantee* a specified performance level for factory-fitted PREMIUM LINE parts on the basis of hours of use or machine age.

PREMIUM LINE for ORBIS.
Highly wear-resistant parts are recommended for extreme operating conditions – where there is a high proportion of sand, for example, or extended periods of operation. A tungsten carbide coating ensures that the knives have a long service life. The speed difference between the cutting disc and the transport disc creates a self-sharpening effect.

The easily accessible cutting discs and transport discs have a modular structure comprising six segments. As a result, in the event of damage, you only need to replace the segment concerned, rather than the entire unit.

1 A special wear coating gives intake drums low wear characteristics
2 Interior guide strips made of steel (standard equipment)
3 Exterior guide strips made of steel
4 Wear elements to protect the large cutting discs
5 Knives with wear coating
6 Cover for deflector mounting
7 Small disc scraper
8 Scraper with deposit welding



Highlights at a glance.

1 CEBIS with touchscreen
2 Steering column adjustable three ways
3 Comfortable armrest with integrated switches for direct adjustment
4 CMOTION control lever with access to favourites management
5 Hydraulic precompression
6 V-FLEX for greater chop quality and flexibility
7 MULTI CROP CRACKER MAX with Busa®CLAD coating
8 PREMIUM LINE crop flow parts for a long service life
9 ACTISILER 37 with tank filled from large water tank
10 NUTRIMETER to determine dry matter and constituents
11 AUTO FILL with new control function
12 Emission standard Stage V
13 970 with MAN S6 engine
14 CEMOS AUTO CROP FLOW
15 990 tops the range with 925 hp
16 CEMOS AUTO PERFORMANCE operator assistant for automatic engine management and ground drive
17 TERRA TRAC ground drive for 960 and 990
18 Dynamic steering for fewer turns of the steering wheel
19 Automatic transport protection
20 Second hydraulic front attachment drive for independent, variable adjustment of the speed of the PICK UP reel
21 GPS steering system CEMIS 1200
22 Tyre pressure control system, robust rear axle, easy engagement of 4-wheel drive
23 CEMOS AUTO KNIFE CONDITIONING

Parts and services?

Everything, at the right time.

We’re here for you – together, we can achieve the best possible results.

Keeping you operational is the top priority for CLAAS. With our comprehensive service, parts and consumables, we ensure that your machines can always deliver optimum performance.

Our support includes a wide range of maintenance and repair services available from your dealer, an extensive line-up of ORIGINAL parts and consumables as well as digital tools which support your planning and decision-making. Confidence comes from knowing you are always ready for action.

Fully covered with MAXI CARE service agreements.

MAXI CARE gives you all-round cover for repairs and maintenance. A comprehensive range of packages ensures that your machines are always ready for action, allowing you to focus fully on your core tasks. CLAAS offers four MAXI CARE service agreements tailored to the needs of your business.

Impressive advantages.

Crop flow.
- Even crop flow with perfectly matched components
- Variable front attachment drive and COMFORT CUT are integrated in the main drive train
- V-FLEX chopping cylinder for very consistent chop quality, optimal adaptation to extremely varied requirements through flexible knife configuration
- NEW: CEMOS AUTO KNIFE CONDITIONING continuously monitors the condition of the knives while chopping
- The NUTRIMETER determines the dry matter content and the constituents of your harvested material
- The discharge spout enables reliable crop transfer up to a working width of 9 m
- Silage additive app makes it easy to use silage additives appropriately
- Water injection keeps the crop flow clean
- ACTISILER 37 with tank filled directly from the water tank

CLAAS POWER SYSTEMS.
- Optional second front attachment drive for PICK UP with independent drive of the reel
- The JAGUAR drive system is highly efficient
- The MAN and Mercedes-Benz engines operate with up to 925 hp and a displacement of 24.24 l
- The automatic reduction in diesel engine speed by up to 1,200 rpm saves fuel
- JAGUAR 990 and JAGUAR 960 are also available with TERRA TRAC crawler tracks
- NEW: Tyre pressure control system for front and rear axle

Comfort and convenience.
- The CEBIS touchscreen gives the operator fast, easy access to all machine functions
- Increased cab comfort through gooseneck microphone, DAB+ radio, compressed air cleaning hose in the cab and much more
- Quiet cab
- The favourites management system can be operated conveniently and directly by means of the CMOTION control lever
- LED work lights with characteristics similar to daylight are positioned on the roof, rear and discharge spout to enable a good overview of machine operations
- Tool kit PLUS: high-specification tools for maintenance tasks
- The automatic hose reel with 15 m long compressed-air hose and air gun makes cleaning easier

Operator assistance systems.
- CEMOS AUTO CROP FLOW stops the crop flow automatically at critical engine speed
- CEMIS 1200, the satellite-based steering system for precise guidance
- CEMOS AUTO PERFORMANCE increases driving comfort and efficiency while reducing fuel consumption
- Three different steering systems reduce the operator's workload and ensure precise work
- The dynamic steering increases driving comfort when turning at the headland
- AUTO FILL and OPTI FILL avoid losses when transferring the harvested material
- No need to get down from the cab when transferring from one field to the next with ORBIS and automatic transport protection

JAGUAR 900		990	980	970	960	950	940	930
Cab								
CEBIS with touchscreen		●	●	●	●	●	●	●
A/C MATIC air conditioning		●	●	●	●	●	●	●
Printer		○	○	○	○	○	○	○
Comfort seat		○	○	○	○	○	○	○
Swivelling seat		○	○	○	○	○	○	○
Premium seat, ventilated, heated		○	○	○	○	○	○	○
Leather seat, ventilated, heated		○	○	○	○	○	○	○
Instructor's seat		○	○	○	○	○	○	○

Noise and vibration levels		990	980	970	960	950	940	930
Equivalent continuous A-weighted sound pressure level measured in various operating states, as per ISO 5131	dB (A)				71[1]			
Vibration total value, as per standard EN 1032:2003	m/s^2				≤ 2.5[1]			
Effective value, as per standard EN 1032:2003	m/s^2				≤ 0.5[1]			
Maintenance								
Central lubrication system, 16-litre lubricant reservoir		●	●	●	●	●	●	●
Maintenance lighting		○	○	○	○	○	○	○
Dimensions and weights								
Working length	mm	6495	6495	6495	6495	6495	6495	6495
Working height with discharge spout extension XL	mm	6670	6670	6670	6670	6670	6670	6670
Transport height	mm	3945	3945	3945	3945	3945	3945	3945
Transport height with discharge spout extension XL	mm	3985	3985	3985	3985	3985	3985	3985
Weight without front attachment with standard equipment[2]	kg	14150	14150	13550	13300	13300	12900	12900

JAGUAR 900 TERRA TRAC		990 TT			960 TT			
Dimensions and weights								
Working length	mm	7509	–	–	7509	–	–	–
Working height with discharge spout extension XL	mm	6670	–	–	6670	–	–	–
Transport height	mm	3960	–	–	3960	–	–	–
Transport height with discharge spout extension XL	mm	3985	–	–	3985	–	–	–
Transport width with 635 mm crawler tracks	mm	2990	–	–	2990	–	–	–
Transport width with 735 mm crawler tracks	mm	3300	–	–	3300	–	–	–
Transport width with 890 mm crawler tracks	mm	3490	–	–	3490	–	–	–
Weight without front attachment with standard equipment[2]	kg	18600	–	–	17900	–	–	–

[1] Detailed information about the values can be found in the corresponding operator's manual

[2] V-MAX 24, front attachment drive standard, crop flow standard, discharge spout extension M, without rear ballast, diesel and urea tanks empty

● Standard ○ Option □ Available – Not available

JAGUAR 900		990	980	970	960	950	940	930
Engine								
Manufacturer		MAN	MAN	MAN	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz
Type		D2862	D2862	D4276	OM 473 LA	OM 473 LA	OM 471 LA	OM 471 LA
Cylinders		V12	V12	S6	S6	S6	S6	S6
Displacement	l	24.24	24.24	16.15	15.60	15.60	12.80	12.80
Maximum output (ECE R 120)	kW (hp)	680 (925)	626 (850)	581 (790)	480 (653)	430 (585)	390 (530)	340 (462)
Working speed at maximum output (ECE R 120)	rpm	1800	1800	1750	1600	1600	1600	1600
SCR exhaust gas aftertreatment, Stage V		●	●	●	●	●	●	●
Fuel tank (standard) + auxiliary tank (option)	l	1100 + 400	1100 + 400	1100 + 400	1100 + 400	1100 + 400	1100 + 400	1100 + 400
HVO ready		●	●	●	●	●	●	●
Urea tank	l	130	130	130	130	130	130	130
Fuel consumption measurement		○	○	○	○	○	○	○
Chassis								
Ground drive: 2-speed transmission, automatic OVERDRIVE (hydrostatic)		●	●	●	●	●	●	●
Tyre pressure control system for drive axle and steering axle		○	○	○	○	○	○	○
Differential lock		○	○	○	○	○	○	○
Standard steering axle		○	○	○	○	○	○	○
Driven steering axle, POWER TRAC, hydraulic		○	○	○	○	○	○	○
Water / silage additive tank, capacity 375 l		●	●	●	●	●	●	●
Silage concentrate system, ACTISILER 37, capacity 37 l		○	○	○	○	○	○	○
Front attachments								
ORBIS 900 / 750 / 600 SD / 600 / 450, working width 8.93 / 7.45 / 6.04 / 6.01 / 4.48 m		○ ORBIS 900/750/600	○ ORBIS 900/750/600	○ ORBIS 900/750/600	○ ORBIS 900/750/600	○ ORBIS 900/750/600	○ ORBIS 750/600/450	○ ORBIS 750/600/450
PICK UP 380 / 300, working width 3.60 / 2.62 m		○	○	○	○	○	○	○
DIRECT DISC 600 P / 500 P, working width 5.96 / 5.13 m		○	○	○	○	○	○	○
DIRECT DISC 600 / 500, working width 5.96 / 5.13 m		○	○	○	○	○	○	○
Front attachment drive								
Front attachment drive, mechanical		●	●	●	●	●	●	●
Front attachment drive, variable		○	○	○	○	○	○	○
Front attachment drive - split-power for DIRECT DISC and maize picker		○	○	○	○	○	○	○
Front attachment drive variable and PICK UP reel variable		○	○	○	○	○	○	○
Feeder unit								
Width 730 mm		●	●	●	●	●	●	●
Feed and pre-compression rollers, no.: 4		●	●	●	●	●	●	●
Hydraulic precompression		●	●	●	●	●	●	●
COMFORT CUT length-of-cut adjustment, infinitely variable		●	●	●	●	●	●	●
Chopping cylinder								
Width 750 mm		●	●	●	●	●	●	●
Diameter 630 mm		●	●	●	●	●	●	●

● Standard ○ Option □ Available – Not available

JAGUAR 900	990	980	970	960	950	940	930
V-MAX and V-FLEX knife configuration							
V20 (2 × 10), length of cut 5-26.5 mm	○	○	○	○	○	○	○
V24 (2 × 12), length of cut 4-22 mm	○	○	○	○	○	○	○
V28 (2 × 14), length of cut 4-18.5 mm	○	○	○	○	○	○	○
V36 (2 × 18), length of cut 3.5-14.5 mm	○	○	○	○	○	○	○
V42 (2 × 21), length of cut 3.5-12.5 mm, for V-MAX only	○	○	○	–	–	–	–
Knife sharpening and shear bar adjustment performed automatically from operator's seat	●	●	●	●	●	●	●
MULTI CROP CRACKER							
MCC CLASSIC M, ø 196 mm	–	–	–	○	●	●	●
MCC CLASSIC L, ø 250 mm	●	●	●	●	○	○	○
MCC MAX, ø 265 mm	○	○	○	○	○	○	○
MCC SHREDLAGE® L, ø 250 mm	○	○	○	○	○	○	○
Crop accelerator							
Width 680 mm	●	●	●	●	●	●	●
Diameter 540 mm	●	●	●	●	●	●	●
Gap setting 2-10 mm	○	○	○	○	○	○	○
Discharge spout							
Collision protection	●	●	●	●	●	●	●
210° swivel angle	●	●	●	●	●	●	●
Swivel angle with OPTI FILL / AUTO FILL 225°	○	○	○	○	○	○	○
Operator assistance systems							
AUTO PILOT central sensors (maize)	○	○	○	○	○	○	○
CAM PILOT swath tracking guidance (grass)	○	○	○	○	○	○	○
GPS PILOT	○	○	○	○	○	○	○
Dynamic steering (not available for TERRA TRAC)	○	○	○	○	○	○	○
STOP ROCK	○	○	○	○	○	○	○
QUANTIMETER	○	○	○	○	○	○	○
Automatic length of cut control	○	○	○	○	○	○	○
OPTI FILL optimised spout control	○	○	○	○	○	○	○
AUTO FILL automatic trailer filling procedure	○	○	○	○	○	○	○
NUTRIMETER for measurement of dry matter and constituents	○	○	○	○	○	○	○
DYNAMIC POWER	○	○	○	○	○	○	–
CRUISE PILOT	●	●	●	●	●	●	●
CEMOS AUTO PERFORMANCE	○	○	○	○	○	–	–
Machine connect licence, 5 years	●	●	●	●	●	●	●
Job management	○	○	○	○	○	○	○
Yield mapping	○	○	○	○	○	○	○
CLAAS connect: silage additive app	●	●	●	●	●	●	●
CLAAS connect: kernel processing analysis application	○	○	○	○	○	○	○

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● Standard ○ Option □ Available – Not available

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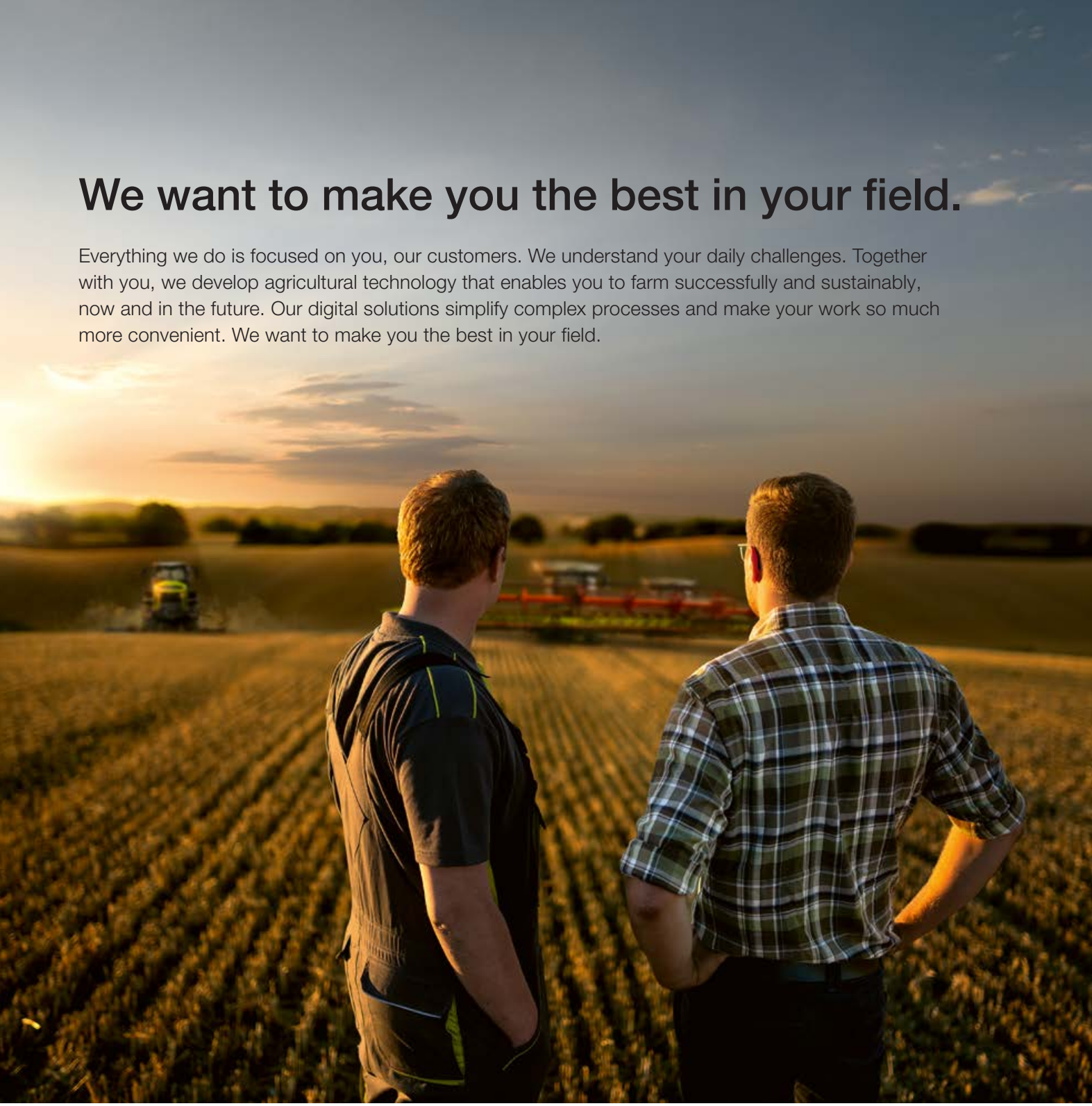

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