Combine harvesters

TUCANO

450 440 430 420 340 320

Time to grow.
The new TUCANO.

Healthy growth is the basis of every successful harvest. It was with this principle in mind that we developed the new TUCANO. As well as growing to incorporate the intelligence and comfort of the large combine segment, it has a design which immediately announces a new dimension of excellence and gives you the capacity you need for the future:
Time to grow.

tucano400-300.claas.com


CLAAS
430
TUCANO
V600

TUCANO 450 / 440 / 430 / 420 / 340 / 320.

Well-being at work.
Deluxe comfort in your working environment.

At CLAAS, comfort and convenience mean that everything is designed to enable you to work with optimal efficiency. From the flawless 360° view to the smallest action.


CLAAS

More space. More comfort.
A more productive workplace.

For optimal working conditions.

The TUCANO gives the operator freedom of movement, a clear control layout and excellent visibility on all sides. The air conditioning maintains a consistent, comfortable atmosphere, which together with superb soundproofing and a three-position adjustable steering column provides first-class working conditions.

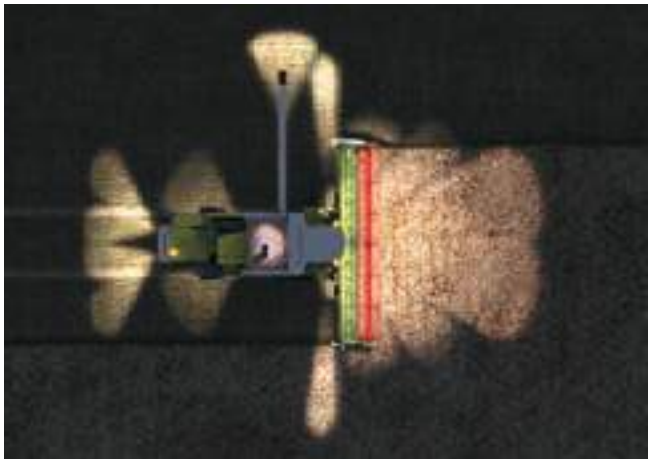
The steering column is adjustable three ways.

Cushions, supports, ventilates and keeps you warm: the deluxe operator’s seat.

Full support for dynamic, active work while seated. Active comfort control ensures optimal ventilation and sweat removal without subjecting the operator to unhealthy draughts. The air suspension seat with automatic height control adjusts automatically to the operator’s weight and effectively attenuates vibrations by up to 40%. A pneumatic, two-part lumbar support keeps your back in shape while the automatic thermostat for the seat’s heating keeps you warm and comfortable.

Fully featured: trainee's seat with integrated cooler.

- Integrated armrest at left on door
- Foldable backrest as a table
- Large in-cab refrigerator, with capacity of 43 litres and a bottle holder
- Many other stowage compartments



Turns night into day at the flick of a switch.

The lighting systems ensure the best visibility for the entire work area and machine parts even at night. Intelligent features, such as the afterlight function, make for a complete package. Powerful H9 and xenon lights turn night into day.

- Up to ten work lights
- Lighting for folding front attachments
- Side lights, stubble lights, steering axle lights
- Automatic lighting of the discharge auger tube
- Automatic reversing lights
- Lighting for the cleaning system, grain tank and returns
- Service lights below the side panels
- Mobile work light

Refrigerator box integrated in trainee's seat

The operating panel gives a good overview and enables simple control of the working lights. The light settings can be adjusted easily in CEBIS.

EASY. Simply more.

The name says it all.

All the electronics expertise of CLAAS can be summarised in a word: EASY.

That stands for Efficient Agriculture Systems, and it lives up to the name. Equipment settings, guidance systems, software solutions and more: EASY makes it all simple. Your systems can be matched perfectly with each other, enabling you to get the best performance from your combines and top results for your operation.

Go on. Go easy.

The EASY concept is made up of four components, each providing specialist competence and together forming a strong team.

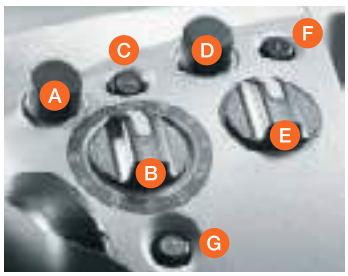
- on board – Control and performance optimisation of the combine from the cab
- on field – Increased productivity directly in the field
- on track – Equipment monitoring and remote diagnostics
- on farm – Software solutions for your operation

More informed, more monitoring.

All’s clear on the operating panel!

Integrated with the operator's seat, its flexible functions can be adapted as needed. Function switches include:

A Menu selection rotary/push switch
B CEBIS direct menu rotary switch
C Escape button
D HOTKEY rotary/push switch
E HOTKEY direct menu rotary switch
F Information button
G DIRECT ACCESS button
H CEBIS screen
I Front attachment on/off
J Threshing unit on/off
K Front attachment reverser
L Rapeseed knife, left, on/off
M Lateral adjustment of cutterbar / changes to values in HOTKEY menu / longitudinal position of VARIO cutterbar table
N LASER PILOT left/right preselection
O All-wheel drive
P Diesel engine speed (three steps)
Q Grain tank cover open



CEBIS controls and HOTKEY

For more information, please visit: tucano400-300.claas.com

Keeping the operator in the picture at all times.

Information, registration, control and monitoring are the tasks of the CEBIS electronic on-board information system. It is distinguished by its clear, logical organisation of functions in the menu structure.

A brief glance at the CEBIS display gives an overview of the current processes and conditions: all the relevant information for driving or harvesting is summarised clearly on the screen. Warning messages are given audibly as a buzz tone and visually as icons and text.

An eye-catching 21 cm screen.

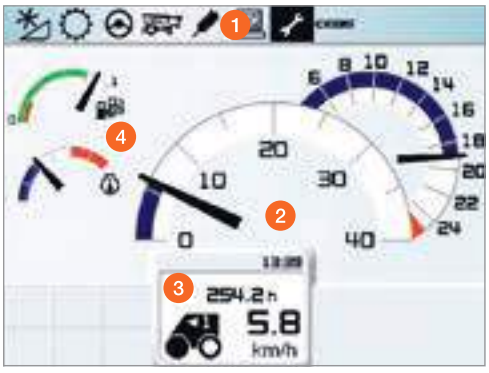
The 8.4" colour CEBIS screen offers an ideal view thanks to its ball coupling mount which enables the monitor to be adjusted as required by the operator. It can be adjusted for angle as well as horizontally and vertically.

Clear, simple and fast operation.

- The basic machine settings in working mode are made via the CEBIS rotary switch (B)
- An additional HOTKEY rotary switch allows fast access to other functions (E)
- The position of the rotary switch is shown on the CEBIS display (H)
- The CEBIS and HOTKEY rotary/push switches (A / D) are used for menu navigation and making changes to settings
- A Compact Flash Card makes data exchange particularly easy
- The DIRECT ACCESS button provides direct access to the last menu setting. It also offers fast access to the image from the camera

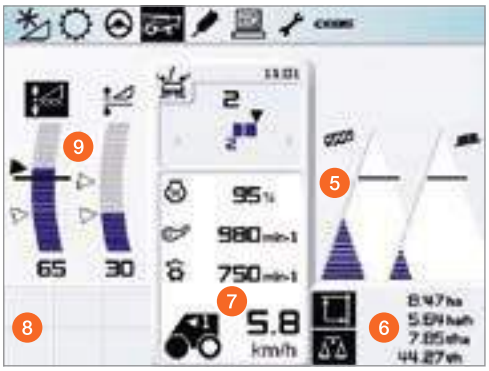
CEBIS on the road.

1 Menu bar
2 Travel speed and rpm
3 Operating hours
4 Fuel level and temperature display as well as AdBlue level



CEBIS in the field.

5 Throughput monitoring
6 Area scaling and yield metering
7 Driving information (up to 40 displays freely selectable)
8 Message window (for alarms and information)
9 Front attachment position (AUTO CONTOUR/ cutting height)



NEW

More functions at your fingertips.

CMOTION. Greater comfort.

The multifunction control lever, which is integrated in the right armrest of the operator's seat, plays a key role in making the TUCANO so user-friendly and comfortable for the operator. The CMOTION has been specially developed for ergonomic operation by the right hand. The innovative, three-finger control concept allows several functions to be controlled intuitively without having to reposition one's hand.

1 Extend grain tank discharge auger
2 Retract grain tank discharge auger
3 Grain tank offloading on / off
4 Cutterbar stop
5 Reel operation
6 Front attachment height control
7 AUTO PILOT, LASER PILOT, GPS PILOT

Another toggle switch (8) is situated on the back of the multifunction control lever. With three functions assigned to it, this switch enables manual lateral control of the cutterbar, changes to values in the HOTKEY menu or manual adjustment of the VARIO cutterbar table.

The choice is yours: multifunction control lever or CMOTION

Three-function toggle switch (8)

Comprehensive information.

CEBIS is simple to use, allowing a wealth of equipment information to be displayed and printed in addition to performing full control and monitoring.

- Automatic crop setting
- GPS PILOT, LASER PILOT, AUTO PILOT – automatic guidance
- Automated cutterbar control
- QUANTIMETER – yield determination / moisture measurement
- Area counter
- Fuel consumption measurement
- Yield mapping – crop log
- Performance display – remaining diesel running time / range / grain tank fill level
- Job management
- Maintenance interval display and tasks
- On-board diagnostics, alarm lists and alarm history
- Speed monitoring, slippage display (for the threshing drum, for example)

NEW: Automatic machine setup.

Factory-programmed settings for over 35 crop types are available. In addition, users' own settings based on experience (especially relating to specific varieties) can be stored and called up whenever required. Furthermore, favourite settings can be stored and recalled quickly by means of the hotkey rotary switch. The following machine parameters are set:

- Threshing drum speed
- Concave gap
- Fan speed
- Upper and lower sieve opening
- Sieve throughput monitoring sensitivity
- Residual grain separation throughput monitoring sensitivity
- Specific crop weight (bulk density)
- Crop-specific calibration factor

TELEMATICS.
Makes good operators even better.

A full overview with just a click of the mouse.

The CLAAS TELEMATICS feature enables you to access all the important data for your combine any time, anywhere via the internet. Enjoy the benefits of TELEMATICS.

Optimise your settings.

Use your personal access to the TELEMATICS web server to quickly compare the performance and harvesting data for your machines so that you can fine tune the settings for the best results under all conditions every day.

Improve work processes.

A report with the operating time analysis and other important evaluations of the machine is sent to you by e-mail each day. This enables you to review the specific data from the previous day and determine when and how efficiently the combine operated before you start work again. In addition, the working tracks of the machine can be viewed together with the event log in order to optimise the transport logistics. TELEMATICS enables planned fleet management and helps avoid unprofitable idle time.

A range of packages to meet your requirements.

TELEMATICS is available in three different packages: basic, advanced and professional.

Simplify documentation.

Use TELEMATICS to export the relevant data to your field catalogue and save valuable time. Transfer data on area-specific yields, for example.

Faster service with CLAAS remote diagnostics.

With your consent, TELEMATICS can transmit maintenance and repair data to your CLAAS sales partner. This enables your CLAAS partner to carry out an initial analysis via CDS Remote - when required - to find the causes of faults more quickly and to make optimum preparations to assist you on site as quickly as possible.

Automatic documentation.

This function automatically documents and processes all process data. As an extension to TELEMATICS, automatic documentation transfers (without any intervention by the machine operator) the work data relating to the specific field deployment to the server, where they are interpreted and processed. Data interpretation and processing are based on the field boundaries previously uploaded from your system. Further processing is straightforward, as all machine-relevant data can be exported in IsoXML format.

More potential when you need it.

Fast data processing.

With its extremely fast on-board network, the TUCANO is already prepared to meet the far-reaching challenges of the future.

A wealth of information can be printed whenever required.

The working tracks picked up by GPS can also be displayed in CEBIS.

Yield mapping.

Building on the foundation of the job management functions, you can use your TUCANO to perform yield mapping. Sensors in the TUCANO measure the yield and grain moisture while CEBIS adds geographic coordinates using GPS satellite data.

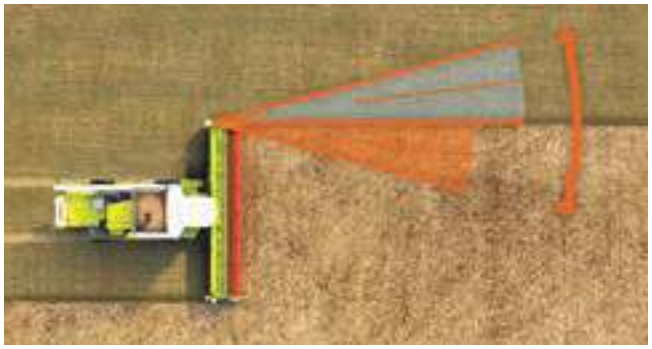
All measurements are stored on portable chip cards to facilitate transfer. AGROCOM MAP START software is included to enable you to produce informative yield maps to use as a basis for your future production strategy.

Job management.

You can manage your jobs with CEBIS. Moreover, with AGROCOM MAP START software from CLAAS you can prepare customer and parcel data to be run and processed with CEBIS.

- All data is backed up when a specific task is completed or the working day comes to an end
- The data can be printed out on the combine or transferred with a data card
- All data can be viewed and processed further on a PC
- Daily counts, crop counts and total counts can also be displayed and printed in CEBIS

More precise guidance.



LASER PILOT.

The electro-optical sensors of the LASER PILOT use pulses of light to scan between the crop and stubble and guide the TUCANO automatically along the edge.

The LASER PILOT can be folded away for transport and is available for both the left and right side of the cutterbar. Its optimal positioning on the cutterbar side close to the crop edge enables a good viewing angle and ensures high functional reliability even with laid crops and slopes.

AUTO PILOT.

Two digital sensors, incorporated in one of the picker units, record the position of the TUCANO and automatically guide it on the best path through the rows of maize in all field conditions. In this way, AUTO PILOT contributes to greater performance and efficiency.

Choose from three automatic guidance systems.

All the TUCANO models can be factory-fitted with three automatic guidance systems which can be selected as needed according to application.

- GPS PILOT – the satellite-supported guidance system
- LASER PILOT – the electro-optical guidance system
- AUTO PILOT – the electro-mechanical guidance system

The way you want it.

Portable displays from CLAAS offer a flexible control option for ISOBUS and guidance systems. The terminal can also be moved from one tractor or self-propelled harvester to another, depending on the season or job in hand. Fit your TUCANO with the equipment you need, straight from the factory or as a retrofit option:

- S10: high-resolution 10.4" touchscreen terminal with guidance and ISOBUS functions: up to four cameras can be viewed
- S7: high-resolution 7" touchscreen terminal with guidance functions

LASER PILOT

AUTO PILOT

Automatic steering at the headland.

The AUTO TURN function takes care of turning manoeuvres at the headland. The direction of the turn and the next track to be worked are pre-selected on the terminal. The steering system does the rest.

How you benefit.

- High functional reliability and safety regardless of visibility conditions
- Optimal use of the full width of the cutterbar
- Greater precision for mapping areas and yields
- Reduced fuel consumption
- Reduced turning times
- Increased seasonal performance
- Significant reduction in workload for the operator, enabling greater concentration on threshing

GPS PILOT FLEX.

The GPS PILOT can be used not only with hydraulically actuated steering, but also with the GPS PILOT FLEX automatic steering wheel. This steering wheel allows you to operate the machine with a high degree of accuracy. The great advantage of the GPS PILOT FLEX is its versatility.

- No need to touch the hydraulics
- Guidance system can quickly be moved between different machines

The electric steering wheel transfers steering commands from the terminal and navigation controller to the steering axle in order to steer the machine

GPS PILOT FLEX steering wheel

A real all-rounder.
Top performance with all crops.

The TUCANO can handle whatever work you've got planned.

VARIO cutterbar with rapeseed equipment

VARIO cutterbar

FLEX soybean cutterbar:

CONSPEED / CONSPEED LINEAR

CERIO / standard cutterbar

Folding cutterbar

SWATH UP

SUNSPEED

It’s all about higher throughput.

The leader in versatility and flexibility.

The TUCANO was developed to unite a wide variety of features at the highest level. Offering optimal throughput performance and long-term reliability combined with great versatility and minimal setup time, the TUCANO is simply unbeatable. Our top combine harvesters were the prototypes for this model. Take advantage of a unique combination of sophisticated performance features and equipment.

The V channel.

With the flexible positioning of the cutterbar mount, the V channel facilitates fast, easy adjustment of the cutting angle. This ensures optimal adaptation to all field conditions and different types of tyres.

MultiCoupler.

The central coupling for all hydraulic and electrical cutterbar functions.

- You gain valuable time due to shorter attachment and removal procedures
- No danger of confusion thanks to the integrated design
- Easy to connect, even under pressure
- Environmentally friendly with no oil leakage

That familiar comfort and convenience

Central locking system.

A single lever on the left side of the cutterbar operates all locks simultaneously.

– Safe, fast locking mechanism
– Fast, easy cutterbar attachment and removal

Replacement knife bar and crop lifters.

All CLAAS cutterbars are factory-equipped with a replacement knife bar. The knife sections are made of hardened material and are therefore extremely durable.

The use of crop lifters enables loss-free pickup of laid crops in particular while reducing the intake of stones. Crop lifter replacements can be carried conveniently on the rear side of the cutterbar.

Hydrostatic reel drive.

A variable displacement pump on the basic machine supplies a maximum torque of 1000 Nm at the reel. The reel speed is automatically adjusted independently of the ground speed.

– Plenty of pulling power thanks to high torque
– Greater efficiency than gear pumps
– A closed hydraulic circuit ensures better reel rotation
– Fast adjustment of the reel speed

Hydraulic reversing on the feeder housing

The trailer for road transport.

Everything to save you time: The trailer provides compact, convenient and safe storage for the cutterbar. It is locked in seconds with two bolts.

Made-to-measure compartments are provided to transport the accessories you need for the rapeseed equipment. The rubber-coated floor ensures non-slip, protective, theft-proof storage.

Adjustable stripper rails.

The spacing between the stripper rails and the intake auger can be conveniently set externally on the V 930, V 770, CERIO 930, CERIO 770, C 490, C 430 and C 370 cutterbars.

Adjusting the stripper rails

The TUCANO is extremely versatile. Rapeseed and grain.

A first-class combination for a unique competitive edge.

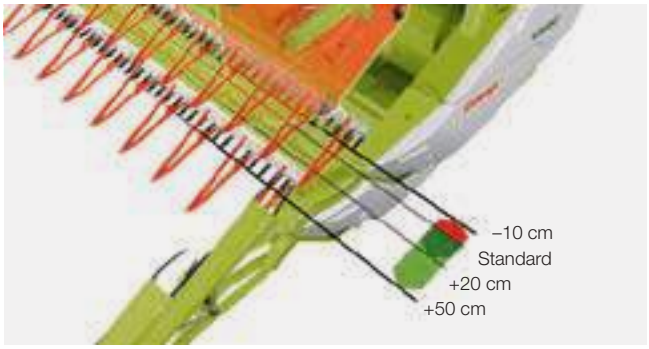
The TUCANO is the first combine harvester to unite a machine of the mid-sized class with the VARIO high-performance cutterbar. This is a unique combination from which you will reap the benefits every time you use it:

- Highest throughput due to particularly even crop intake
- The VARIO is available in five different cutting widths: V 540, V 600, V 660, V 770 and V 930
- The hydrostatic reel drive comes equipped with automatic speed adjustment
- Reliable and rugged: the multifinger intake auger

Consistent crop flow to enhance performance.

The VARIO high-performance cutterbar feeds the crop uniformly to the threshing unit. This is the only way to increase performance and to utilise the full design capacity. Furthermore, it reduces fuel consumption and supports the operator in significantly increasing productivity.

- Automatic reel speed
- Automatic reel height
- Automatic reel levelling
- Automatic table positioning



You also benefit from the following additional advantages:

- High RPM stability in the engine, threshing and separation units and during the cleaning process
- Extremely consistent performance
- No load peaks in the threshing equipment
- Protection of the drives
- Enhanced reel design with optimised reel tine carriers a nd bearings for significantly reduced risk of wrapping
- Hydraulic pump for rapeseed knives that can be switched on and off to reduce the power required and so reduce wear
- Overload protection features protect against damage

Rapeseed requires particular attention.

Ripe rapeseed pods need careful handling during threshing because they often burst, causing grains to scatter in all directions. This is why the rapeseed deflector and extension are indispensable parts of the rapeseed equipment on VARIO cutterbars: they serve to keep losses to a minimum. The rapeseed equipment is stored in a lockable box on the trailer for road transport, thus saving a great deal of weight on the cutterbar.

The right cut.

For grain harvesting, the cutterbar table can be extended by up to 20 cm or shortened by as much as 10 cm to keep the crop flow even and ensure efficient, trouble-free working.

For rapeseed, the cutterbar table can be moved forward by 50 cm. Once the rapeseed plates are inserted, the rapeseed table is ready for immediate use.

Hydraulically driven side cutters on the right and on the left (the latter can be switched on and off at will) can be fitted quickly and easily without additional tools.

The knife bar comes with an integrated hydraulic drive.

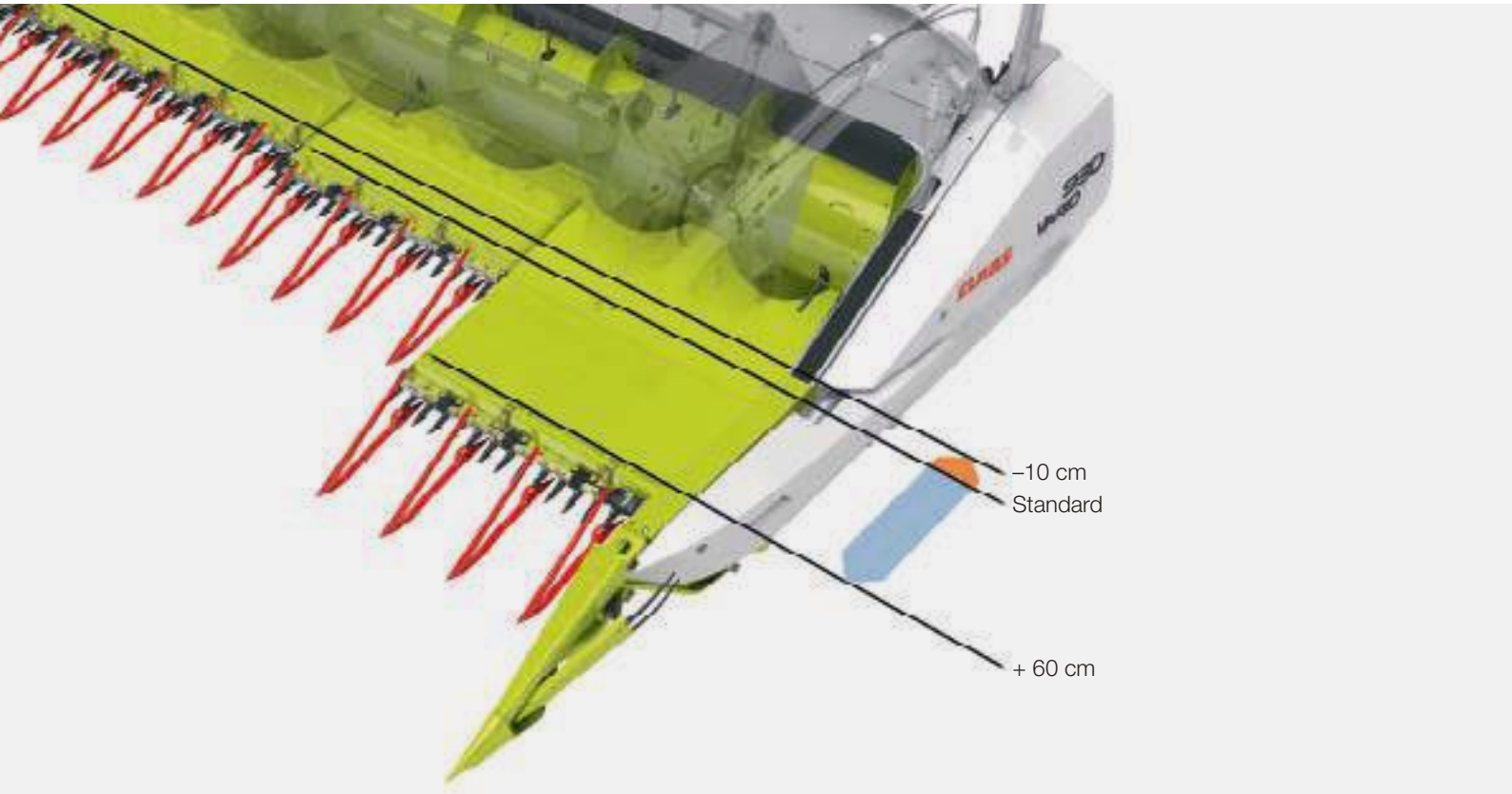
Knife position
–10 cm

Knife position
+20 cm

Knife position
+ 50 cm
incl. rapeseed plates

NEW

The new generation of CLAAS VARIO and CERIO cutterbars.

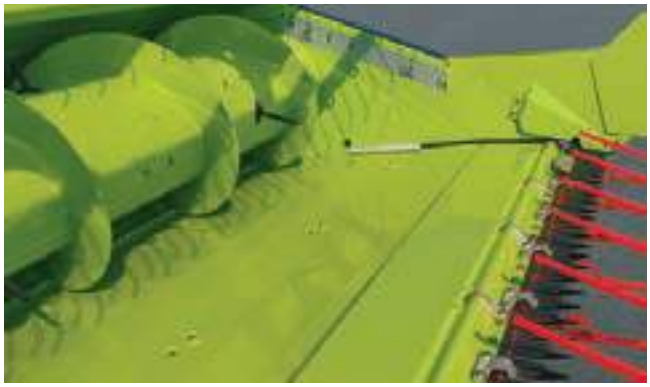


VARIO 930 / 770 – The success story continues.

With its two new models, the V 930 and V 770, CLAAS has made systematic enhancements to its proven VARIO cutterbars in order to provide increased throughput, a better crop flow, high reliability, a reduced maintenance requirement, greater flexibility and more comfort/convenience.

The highlights at a glance.

- Integrated rapeseed plates allow infinite adjustment within a range of 70 cm
- Diameter of intake auger increased to 660 mm
- Intake auger and knife bar mechanically driven via gearbox and drive shaft
- Reel with optimised reel tine carriers, wear-resistant tine tube bearings and a new design to reduce stalk take-up
- Quick-release mounting system allows dividers and rapeseed knives to be fitted/removed without the need for tools
- Hydraulic pump for rapeseed knives switches off automatically
- LASERPILOT can be folded and adjusted without the need for tools
- Stripper bars adjustable from the outside
- Automatic parking position at the touch of a button
- Angled cross-tube for a better view of the cutterbar table from the cab



Ready for rapeseed harvesting with just a few adjustments.

Converting the
V 930 and V 770 cutterbars to harvest rapeseed takes only a matter of minutes. The process involves nothing more than replacing the dividers with the rapeseed knives – a task which can be carried out without the need for tools thanks to the two quick-release mounts. Inserting the rapeseed knives automatically activates the hydraulic pump which drives the side knives. The connection is made simply by means of two flat-seal connectors. An additional cover is fitted on the right-hand side to keep the losses in rapeseed to a minimum.

The end positions of the table and reel are also transmitted automatically from the cutterbar to the combine. Even with the rapeseed equipment fitted, the table can be extended or retracted by 20 cm. The rapeseed knives are carried in a box on the transport trailer and are therefore available for use at any time.

NEW: CERIO 930 and CERIO 770.

Based on the new VARIO cutterbars, the CERIO model series is an alternative for grain harvesting. The table of the CERIO cutterbars can be adjusted manually from – 10 to + 10 cm in order to optimise the crop flow. The adjustment is made by loosening ten bolts in order to allow the table to slide in or out.

The entire frame, the intake auger, the drives and the reel of the CERIO cutterbars are identical to those of the VARIO model series. Similarly, the CERIO cutterbars are equipped with the automatic reel parking function.

The dividers and rapeseed knives can be secured without the need for tools

Fitting the rapeseed knives

Adjusting the table length of the CERIO 930 and 770

More picking power.

Committed to higher picking performance: CONSPEED and CONSPEED LINEAR.

Picking at a high rate while handling the ears of maize gently has a critical influence on the combine's throughput. The CONSPEED and CONSPEED LINEAR maize pickers meet these requirements and are optimally adapted to the performance of the TUCANO. The display of the snapping plate spacing in CEBIS is also ideal.

Make the most of the maximum efficiency of the CONSPEED:

- Snapping rollers with tungsten carbide coated knives
- Electrohydraulic snapping plate adjustment
- Horizontal chopper
- Reliable drives using only shafts and gears
- Durable, non-corroding plastic covers
- Automatic machine guidance via AUTO PILOT
- Simple rpm adjustment
- Can be adapted to all field conditions

The CONSPEED principle: conical snapping rollers.

Each picker unit has a compact, integrated gearbox for the snapping rollers, intake chains and the chopper. Each drive unit is individually protected against overload. The picker speed can be adjusted continuously using a front attachment variator. The conical snapping rollers are a particular feature of the CONSPEED. They first pull the maize plants down slowly so the ears contact the snapping plate slowly. The rest of the plant is then drawn down quickly. This design ensures a high picking rate with careful handling of the ears and low grain loss.

Convenient transport to the field and back.

The individual picking units of the hinged 6 and 8-row CONSPEED and CONSPEED LINEAR fold in hydraulically to a transport width of only three metres. This operation is performed from the cab.

The CONSPEED LINEAR principle: linear snapping rollers.

The CONSPEED LINEAR maize picker is driven by spur gears which provide six different picker speeds simply by exchanging two gearwheels. The straight, linear snapping rollers are set forward and are thus particularly rugged.

CONSPEED LINEAR sunflower kit.

The CONSPEED LINEAR maize picker can be converted for sunflower harvesting with a kit. This involves mounting knives over the snapping rollers as well as adding lateral cover extensions and an attachment on the back of the CONSPEED. The chain is turned and the guide changed.

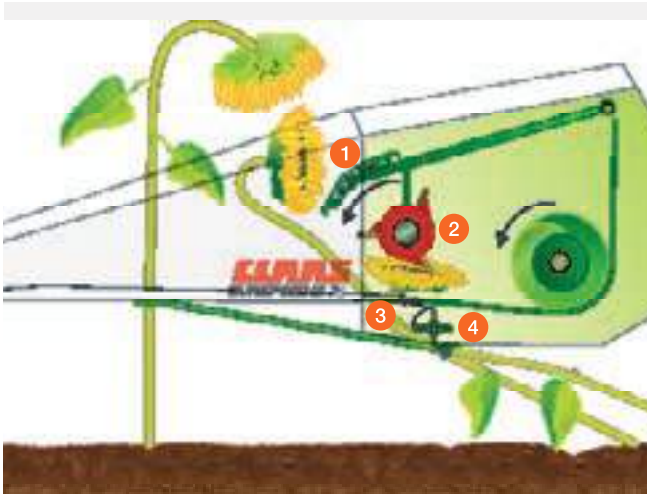
A horizontal rotating knife under each snapping unit chops stalks finely so they will decompose quickly.

More flexibility.

The effective SUNSPEED principle.

The SUNSPEED sunflower cutterbar was developed with the goal of achieving maximum output per unit area with the lowest losses. Particular attention was paid to keeping set-up times as short as possible and making the system extremely easy to operate.

The sunflower stems are first captured by the shuttles. An adjustable guide plate ensures that the sunflower heads are pushed to the front. At the same time, the snapping roller under the knife bar pushes the stalks down. It is impossible for them to be cut too early as this only takes place once the special reel has captured the sunflower heads. The precisely cut heads are then passed to the intake auger and feeder housing. The entire process is conducted on a row-independent basis in the most diverse harvesting conditions and ensures a high level of grain cleanness and low wear.



1 Adjustable guide plate
2 Reel
3 Knife bar
4 Snapping roller

Snapping roller

SUNSPEED adapts.

- Reel height and speed can be adjusted hydraulically
- Adjustable guide plates keep the stalks securely positioned so only the sunflower seed heads are harvested
- The gap between the shuttles can be adapted to the relative stalk diameter via adjustable rails – nothing gets jammed and harvesting runs like clockwork
- The angle of the shuttles is also adjustable, so they can be adapted to the most diverse harvesting conditions

The specialist: SWATH UP.

In areas which are unsuited to direct threshing the TUCANO once again proves its reliability under all imaginable conditions. The SWATH UP enables nearly all windrowed crops to be picked up. This is an extraordinarily efficient concept, particularly for crops such as rapeseed and grass seed.

Perfect pick-up at high speeds.

Two consecutive conveyors pick up the crop. The first belt equipped with plastic tines ensures a clean pick-up; the second belt then conveys the crop flow to the intake auger. Thanks to the large overlap between the two belts, the crop reaches the feeder housing without any losses.
The straightforward design ensures long operating times and a low maintenance requirement.

Adjustable shuttles

More expertise for rice and soybeans.

Dual blade knife bar.

Rice stalks are extremely tough. To achieve clean, top quality cutting results at a high rate in this hard, unforgiving crop, all the rice cutterbars are equipped with a dual blade knife bar. The specially hardened knife blades are particularly durable. A rice harvesting system is available as a retrofit kit for the new VARIO and CERIO 930 and 770 cutterbars.

Hardened intake auger.

The intensive irrigation of rice fields leads to high levels of dirt particles on the plants, which is particularly tough on combines during harvesting operations. To protect against wear, the edges of the hardened intake auger are sintered. Special deflectors on its sides reliably prevent wrapping. Altogether, these features ensure smooth crop flow and high throughput.

The two new VARIO 930 and 770 cutterbars are also available as HD versions.

Hardened intake auger

FLEX: down-to-earth quality.

Legumes such as soybeans grow in pods close to the ground. Thus to prevent substantial losses during harvesting, the crops must be cut as close as possible to the ground to ensure that every last pod gets picked up by the machine.

FLEX cutterbars from CLAAS are equipped with a flexible knife bar which compensates automatically for the slightest ground contours. The knife bar can flex up to 100 mm. Together with the V channel, it enables intake losses to be avoided under all field conditions.

These cutterbars are also suited for peas and other specialised crops such as clover.

Special crop dividers.

The FLEX cutterbars are equipped with special crop dividers which can be deflected vertically, thereby avoiding damage and preventing interruptions to the harvesting process.

A versatile operator.

The FLEX cutterbars also offer outstanding flexibility thanks to the knife bar which can be set to rigid mode manually, thus allowing it to be used for other crops, such as grains.

More intelligence for the cutterbar.

CLAAS CONTOUR ensures excellent adaptation to ground contours.

The cutterbar with CLAAS CONTOUR adjusts automatically to ground irregularities along the direction of travel. You select a contact pressure and CONTOUR ensures that it will be uniformly maintained. Every time the cutterbar is lowered, the preselected cutting height ensures that the specified cutting height is always found automatically.

AUTO CONTOUR: faster and more accurate than ever.

AUTO CONTOUR goes a step further by compensating all ground irregularities, including those which are transverse to the direction of travel. Sensor bands below the cutterbar provide early detection of undulations and trigger the corresponding cutterbar rams on the feeder housing.

- Electronic sensors detect the hydraulic pressure in the system and react quickly
- Valve-controlled, nitrogen-filled accumulators ensure optimal shock absorption with front attachments of different weights

With fully automated comparison of the current status and the setpoint, the AUTO CONTOUR adapts the cutterbar position optimally to the terrain. This greatly simplifies the work of harvesting, particularly with large cutting widths, at night, with laid crops, on side slopes and rocky ground. AUTO CONTOUR helps to increase performance and to make the use of the TUCANO pay even greater dividends.

Automatic reel control.

The RPM of the reel and thus its speed adjust automatically and proportionally to the ground speed. The operator can select and save various settings for the ratio of ground speed to reel speed. The reel speed can be adjusted continuously between forward, synchronous and after-running. A digital RPM sensor ensures absolutely exact adjustment of the rotation speed.

Different working heights of the reel can be saved and recalled for various cutting heights. But the reel height can always be adjusted directly.

2-way cutterbar rams control the ground pressure precisely.

The automatic cutterbar control is activated simply by pressing the button for height adjustment on the multifunction control lever.

VARIO automation.

The VARIO cutterbar with automated reel control enables the reel levelling and table position to be saved and recalled by activating the automatic cutterbar control. Manual adjustments can also be made.

Parking position for the V 930 and V 770.

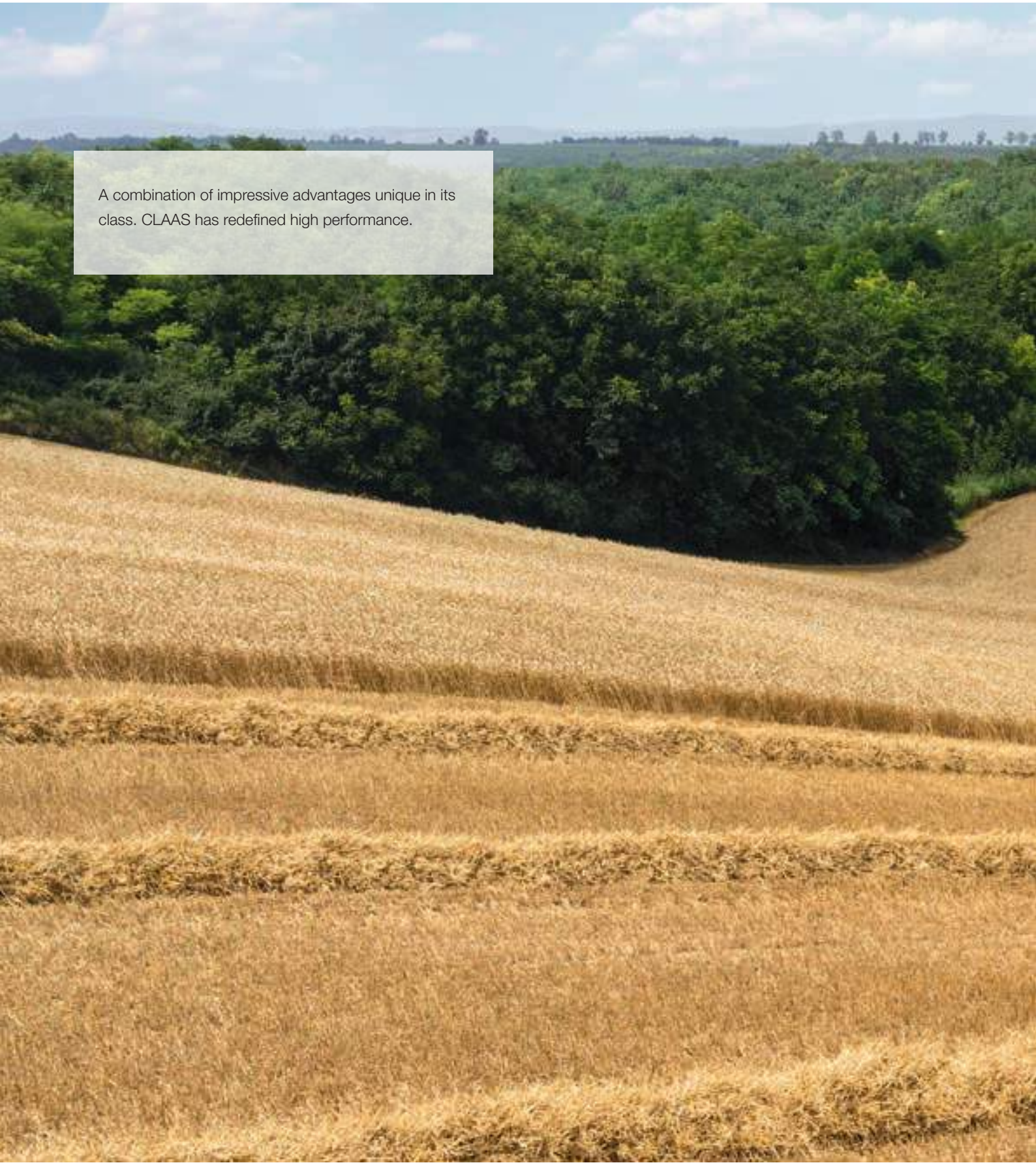
A touch of a button is all it takes for these two VARIO cutterbars to move into the parking position for mounting on the road transport trailer or, after coupling, to move straight into the working position. The threshing system must be switched off before this function can be used.

Automated cutterbar control.

- CONTOUR / AUTO CONTOUR
- Automatic reel speed
- Automatic reel height
- Automatic reel levelling (VARIO only)
- Automatic table position (VARIO only)
- Automatic parking position (V 930 and V 770 only)

Sensor bands detect the position of the front attachment.

APS System. Threshing technology from CLAAS.



A combination of impressive advantages unique in its class. CLAAS has redefined high performance.

NEW

APS gets good results fast.
TUCANO 450 / 440 / 430 / 420.

Unique APS threshing system.

The distinct competitive edge of CLAAS appears well before the threshing drum. The dramatic acceleration of the crop flow from 3 m/s to 20 m/s triggers a chain of extremely efficient processes:

- The pre-accelerator separates the crop more thoroughly
- The crop flow is particularly even and up to 33% faster
- Higher centrifugal forces sort considerably more grain
- Up to 30% of all grains are already sorted in the pre-separation concave directly below the accelerator, significantly reducing the load on the main concave

Thus there is a net performance increase of up to 20% with no rise in fuel consumption. APS really pays.

Versatile pre-separation concave.

The pre-separation concave is designed as a MULTICROP concave so it can handle all types of crops. The three concave segments can be changed rapidly, minimising changeover times between crops and maximising efficiency and profitability.

NEW: Hydraulic concave adjustment.

The concave is adjusted hydraulically from the operator's seat. This allows immediate and extremely convenient adaptation to changing harvesting conditions in the course of the day. The parallel concave control ensures that optimum threshing quality is maintained.

NEW: Overload protection increases daily output.

Integrated hydraulic overload protection reliably prevents damage from foreign bodies and allows the machine to be used at full capacity without risk. The concaves are pre-tensioned hydraulically and open when pressure peaks arise. The concaves then return automatically to the set working position.

Long threshing channel with a large grain separation area.

In the CLAAS APS threshing unit, we've succeeded in wrapping the main concave much farther around the threshing drum than in conventional machines. No other threshing unit offers an angle of wrap of 151°. You benefit from gentle yet thorough threshing with a large concave clearance and low drum speed with reduced fuel consumption.

Optimal grain quality is purely a matter of the right settings.

The APS system is equipped with multistage adapters for optimal deawning. With the intensive threshing component and the deawning plates, which can be engaged in just seconds via a lever on the feeder housing, APS ensures outstanding grain quality.

Synchronised function.

The accelerator and threshing drum are driven by a central variator. Each change in drum speed causes a corresponding adjustment of the speed of the accelerator.

The result:

- Continuous protective crop handling with uniform crop flow
- No broken grains

Changing the MULTICROP pre-separation concaves

Stone trap

NEW

CLAAS threshing system.

The champion in all fields.

A high-quality threshing unit must remove and separate grains reliably in all harvest conditions. The classic CLAAS threshing mechanism provides impressive proof of its abilities time and again. Regardless of the harvesting challenges you face, it has the versatility to take them in its stride with the full threshing drum width of 1.58 m (TUCANO 340) as well as with the smaller 1.32 m version (TUCANO 320).

- The threshing unit can be easily accessed from the front via the feed rake and from both sides through large openings
- The extremely robust design of all the drives, and of the threshing drum drive in particular, ensures top reliability during the harvest.

From field beans to clover seeds: the MULTICROP concave can handle anything.

The concave below the threshing drum is designed as a MULTICROP concave with individual segments that can be changed easily. You can switch the concave quickly for a wide assortment of crops, different varieties or various stages of ripeness - always ensuring the right combination of clean threshing, protective handling of the crop and a high separation rate.

NEW: Hydraulic concave adjustment and overload protection.

In the TUCANO 340 and 320 models, the concave gap is also set in CEBIS.

The hydraulic overload protection also protects the conventional threshing system from damage by foreign bodies and blockages.

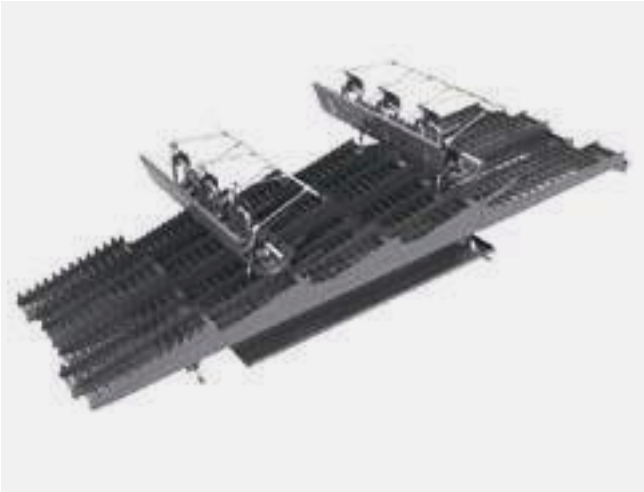
NEW: Hydraulic adjustment of the concave outlet.

In order to adjust the machine for different crop types, the concave outlet can be set to two different positions: wide for crops such as maize and beans, narrow for grain. The adjustment is made by actuating a valve near the cab door.

Changing the MULTICROP pre-separation concaves

The straw walker gets out the last 10% for you.

View of straw walkers from the rear



Cleanly separated over 4.40 metres length.

Grains this way, straw that way. The even flow of the straw on the 4.40 metre long, open-bottomed straw walker ensures that practically all the grain is separated from the straw. A separate returns pan sends the grains on their way to the preparation floor. Even large volumes of straw are moved with ease by the system.

Resistance is futile!
The CLAAS intensive separation system.

There are two guide-controlled agitator tines mounted above every straw walker, which actively loosen the straw from the top to ensure that it flows quickly in a thin layer. As a result, the remaining grains fall easily out of the straw, through the walker floor and onto the returns pan.

Work safely at the capacity limit with the throughput monitor.

It's easy to keep an eye on the separation and cleaning from the cab, as if through a "rear view mirror", with the CLAAS throughput monitor. It works with high-precision adjustments to adapt automatically to crops of different weights and display the results accurately.

How you benefit:

- In parallel viewing mode, you can fine-tune the combine faster by optimising the balance of the cleaning and residual grain separation functions
- The throughput monitor indicates whether you are threshing at the best forward speed
- You run safely at the performance limit of the combine

Clean work pays better.

Electric sieve adjustment

Divided preparation floor that can be pulled out towards the front

Rotary fan or turbine blowers.

- Depending on the model, there are six or four turbines or a rotary fan to ensure a consistent, uniformly distributed air flow pressure, even with variations in the sieve loading
- Forced air flow control prevents crop mat formation
- Reliable air flow even at low air speeds
- Continuously adjustable from the cab

Preparation floor.

Pre-sorting of the grains (bottom) and chaff and broken straw (top) takes place on the preparation floor. The resulting reduction in the load on the upper sieve increases the cleaning capacity. The 400 series models have a plastic preparation floor that can be pulled out towards the front.

Single or double steps.

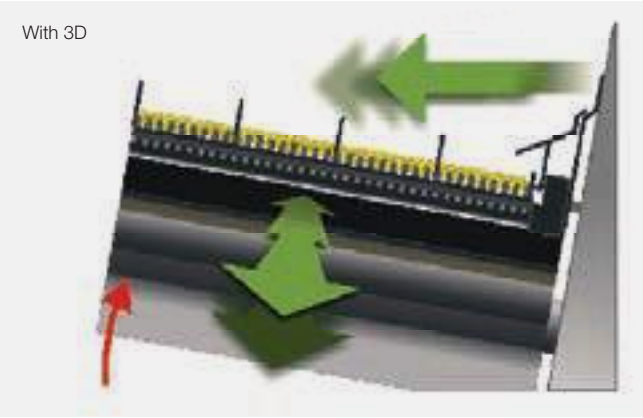
- These significantly reduce the load on the upper sieve
- Result in increased performance, especially in the case of dry and brittle straw

Electric sieve adjustment.

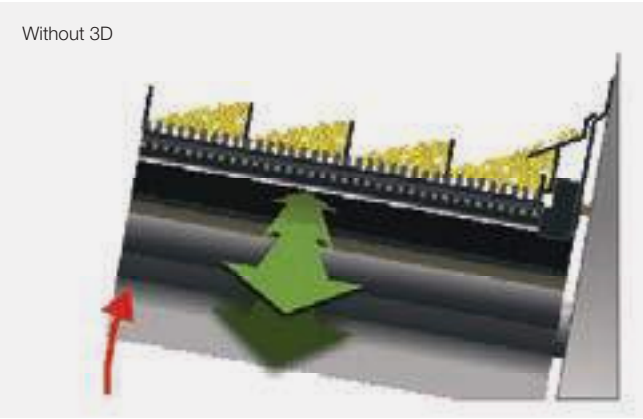
Developed by CLAAS, copied by the competition.
Electronic sieve adjustment from the cab:

- Easy and convenient
- No need to exit the cab
- Immediate result monitoring

With 3D



Without 3D



The 3D-cleaning system.

- Dynamic side slope levelling – active control of the upper sieve
- Completely consistent performance on side slopes with an inclination of up to 20%
- No wear - completely maintenance free
- Fast, simple retrofitting
- Together with the AUTO CONTOUR, it is the ideal "hillside package"

3D-cleaning system
hydraulic control unit

NEW

Faster offloading.

NEW: Faster discharging.

The new TUCANO model series is equipped with the new turret auger and has a discharge rate of 105 l/s or 90l/s. With a capacity of up to 9000 l, the grain tank is emptied in less than two minutes. Furthermore, the new TUCANO has a greater discharge height and reach. As a result, even large transport vehicles can be filled without difficulty.
A corresponding range of grain tank discharge augers for cutterbar widths up to 9.22 m is available.

NEW: Electric grain tank cover.

The grain tank cover can be opened by means of a switch on the armrest. It is no longer necessary for the operator to leave the cab.

Well-designed overall concept.

Many more well-thought-out details complete the overall grain tank design concept:

- Easy grain sampling
- High overhead discharge height
- Ideal weight distribution
- Good view into grain tank
- Fast, direct offloading at up to 105 litres per second
- Smooth surfaces in the grain tank facilitate complete emptying

Innovative: visual inspection of returns from the operator's seat.

- The illuminated inspection window for monitoring the returns
- Users quickly identify the combine settings which work best for them
- This facilitates optimal utilisation of the performance potential

The QUANTIMETER measures and checks.

The primary functions of the QUANTIMETER include throughput measurement, moisture content measurement and data display in CEBIS.

The throughput measurement is grain-specific. The moisture content of the crop is monitored continuously and displayed upon request.

During the volume measurement in the grain elevator, a photo cell records the filling of the individual paddles. Using appropriate correction factors, including the lateral and transverse tilt of the machine, the QUANTIMETER automatically determines the precise quantity harvested.

Wide grain tank window

Smooth surfaces in the grain tank

PROFI CAM – everything in view.

All TUCANO models can be equipped with a PROFI CAM at the end of the grain tank discharge auger tube. This camera position has been chosen precisely to allow up to three processes to be monitored simultaneously from the comfort of the cab on an additional colour display or on the S10 terminal:

- Grain tank discharge auger tube deployed: transfer process
- Grain tank discharge auger tube retracted: distribution of chopped material
- Grain tank discharge auger tube retracted: rear of machine during reversing or on-road operation

Up to four cameras can be connected to the system and simultaneously feed their images to the colour monitor or the S10 terminal in the cab.

CEBIS rear camera.

The image from the rear camera fitted on the rear hood is fed straight to the CEBIS screen. As soon as the TUCANO moves backwards, the image from the camera is displayed automatically.

CEBIS rear camera

Image from rear camera in CEBIS

Image from PROFI CAM on additional screen

Chopped short and spread wide: your field is clear for the next harvest.

1 Adjustable cross-cutter
2 Rotor shaft
3 Knives
4 Bolt-on rasp bar
5 Adjustable stationary knife

Short chop, even distribution.

As it leaves the straw walkers, the straw is finely chopped and spread evenly across the full working width. The debris from the sieve pan is fed to the heavy duty chaff spreader, which then distributes it evenly over the field. The spreading distance can be adjusted easily.

SPECIAL CUT.

The SPECIAL CUT straw chopper is available for all TUCANO models as an alternative to the STANDARD CUT model. The chopper is switched on and off by a sensor-controlled electrohydraulic system as soon as the straw guide plate is operated. The SPECIAL CUT has 30% more knives: 68 for five-walker models (430 / 420 / 320) and 80 for those with six straw walkers (450 / 440 / 340). The streamlined housing ensures even feeding of the straw to keep power consumption low and spreading reliable.