

TUCANO  
450 440 430  
340 330 320

**CLAAS**

Ready for anything.



Ideal for any farm.





## TUCANO – suited to your individual needs.

Every agricultural operation is different, with its own structures, its own dimensions, its own advantages – and each one has its own particular challenges to meet.

Demands made by contractors, large-scale operations and farmers with their own equipment are often worlds apart. Now there's a combine harvester that sets new standards for them all – the TUCANO.

Discover a new solution – tailor-made to your needs. A new member has joined the CLAAS force – with greater power, flexibility and versatility – which can be equipped to suit every farm size and handle nearly any challenge.

We are convinced that the TUCANO will also fit into your future.

Note: This brochure uses QR codes, which you can use to access additional animated content online using your smartphone. If you are unable to use QR codes, simply enter the accompanying URL into your web browser.



[go.claas.com/  
tucano450320](https://go.claas.com/tucano450320)

Ideal for every field.





## The TUCANO. Practically unlimited possibilities.

Here's grain to harvest, over there is rapeseed, and maize in the field beyond that. Sunflowers, peas, beans, lentils, clover, soybeans and many other crops contribute to the thriving diversity of global agriculture. The TUCANO harvests practically everything - and its MULTICROP unit in particular is always widely acclaimed.

Different farming regions have different priorities. Whether top straw quality is particularly important, or the outstanding threshing performance of APS, or perhaps mostly smaller fields need to be harvested with maximum efficiency, the highly versatile TUCANO meets even the toughest and most unusual requirements.

For diversity without limits, TUCANO has the versatility you need.

One of the family.





## The TUCANO. Modelled on its big brother.

CLAAS has incorporated many impressive features from the brand's top-of-the-line machines in the TUCANO, thus defining a new category: the premium segment of the upper mid-sized class.

The TUCANO replicates many essential qualities of its big brother, the LEXION.

## Contents

<b>Cab</b>	<b>8</b>
CLAAS VISTA CAB	10
<b>EASY – Efficient Agriculture Systems by CLAAS</b>	<b>12</b>
CEBIS	14
CMOTION, multifunction control lever, operating panel	16
CLAAS TELEMATICS	18
Job management, yield mapping	20
Automatic guidance systems	22
<b>Front attachments</b>	<b>25</b>
Cutterbar	26
VARIO cutterbar	28
CONSPEED, CONSPEED LINEAR, SUNSPEED	30
RAKE UP, folding cutterbar, FLEX cutterbar	28
Automated cutterbar control	34
<b>Threshing</b>	<b>36</b>
APS threshing and separation system	38
CLAAS threshing system	40
Straw walker technology	42
Cleaning system	44
Grain tank, QUANTIMETER, PROFI CAM	46
Straw management	48
<b>CLAAS POWER SYSTEMS</b>	<b>50</b>
Engine	52
Drive, tyres, maintenance	54
FIRST CLAAS SERVICE®, MAXI CARE®, CLAAS TELEMATICS	56
Technology in detail	58
Features	63
Specifications	64

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







"My goal is to utilise the full performance potential. To make this possible, the cab must provide an ideal work environment for the operator meeting individual requirements."

(Alexander Esslinger, Allensbach, Germany)

Cab



The outstanding ergonomics, comfort and convenience enhance your concentration.

The TUCANO control centre was designed to fulfil your requirements, wishes and needs, ensuring that nothing distracts you from your work. It gives you optimal visibility in all directions, along with numerous other useful features. Together, these create an extremely comfortable, convenient and pleasant working environment that significantly enhances productivity.



# Lots of visibility and little noise: that's the secret to everything.

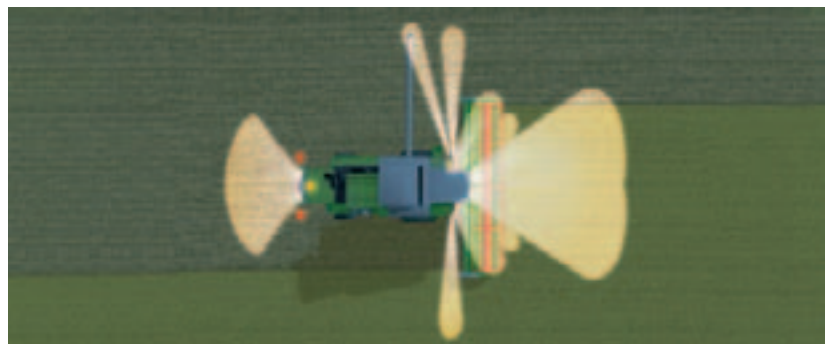
The TUCANO sets new standards in the upper mid-sized class.

- The spacious VISTA II CAB gives you lots of space
- Optimal soundproofing provides you with an exceptionally quiet working environment
- The height and inclination of the steering column can be adjusted to three different settings to suit every driver
- There is also a proper passenger seat
- The powerful automatic A/C MATIC climate control system maintains a consistently pleasant temperature in the cab
- There is sufficient storage space underneath and adjacent to the operator's seat (for a refrigerator box, for example)

Turns night into day.

The lighting system ensures that you can continue to enjoy excellent visibility in the dark.

- Up to eight work lights
- Lighting for the folding front attachments
- Stubble lighting, side illumination, reversing lights
- Lighting for offloading of the grain tank
- Grain tank lighting
- Returns lighting
- Cleaning system lighting
- Night-time maintenance work is made easier by service lights below the side doors



CLAAS VISTA CAB

# 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, steering 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.

Four components make one EASY concept, each providing specialist competence and together making a strong team.

- on board – Combine control and performance optimisation from the cab
- on field – Increased productivity directly in the field
- on track – Equipment monitoring and remote diagnosis
- on farm – Software solutions for your operation



**Go on. Go easy.**

# EASY

Efficient Agriculture Systems by CLAAS.



The graphic features a central green box with the slogan and brand name. To its right are four square icons arranged in a 2x2 grid, each with a white icon and text below it. The icons are: top-left (blue) showing a steering wheel and screen labeled 'on board'; top-right (green) showing a field view labeled 'on field'; bottom-left (red) showing a hand pointing to a screen labeled 'on track'; and bottom-right (brown) showing two people at a screen labeled 'on farm'.



"As many as three operators with widely varying qualifications might use one machine. But each must get the best out of the equipment!"

(Gerhard Ebbighausen, Northeim, Germany)

EASY  
Efficient Agriculture Systems  
by CLAAS



### Superbly convenient control.

The outstanding features of our top combine harvesters now also give the TUCANO the innovative edge when it comes to comfort and operating reliability.

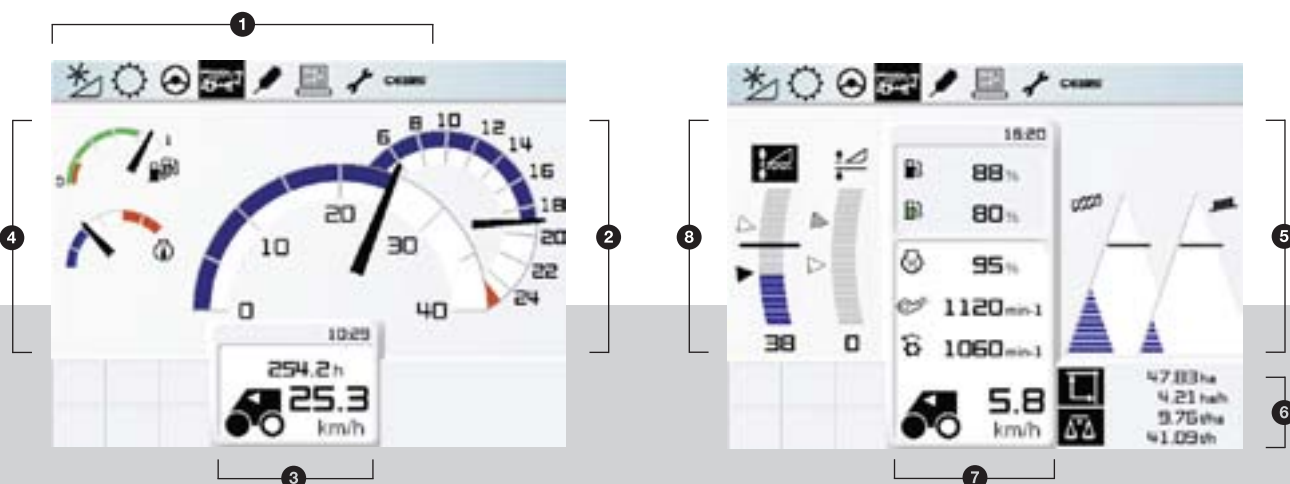
The CEBIS electronic on-board information system by CLAAS with the large display makes it easy for you to maintain control of everything. Information, registration, control, steering, monitoring: CEBIS by CLAAS reliably supplies you with all crucial data and parameters relating to the operating status of the TUCANO.

### CEBIS on the road.

- 1 Menu bar
- 2 Ground speed and rpm
- 3 Operating hours
- 4 Fuel and temperature display

### CEBIS in the field.

- 5 Throughput monitoring
- 6 Area and output per unit of area
- 7 Driving information (up to 40 displays freely selectable)
- 8 Front attachment information (AUTO CONTOUR, cutting height)



# Just as smart as its big brother.



An eye-catching 21 cm diagonal 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 inclination as well as horizontally and vertically. 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.



[go.claas.com/tucanocebisdemo](http://go.claas.com/tucanocebisdemo)



Large 8.4" CEBIS monitor

CEBIS

# One touch and you've got everything under control.



## CMOTION. One control, 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 repositioning one's hands.

- 1 Front attachment height control
- 2 AUTO PILOT (steering)
- 3 Extend the grain tank discharge auger
- 4 Retract the grain tank discharge auger
- 5 Cutterbar stop
- 6 Reel operation
- 7 Grain tank offloading on/off

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







New: 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/or hotkey increment control buttons (A/D) are used for menu navigation and for making changes to settings
- A Compact Flash Card makes data exchange particularly easy
- New: the QUICK ACCESS button provides direct access to the last menu setting. It also offers fast access to the image from the camera

All's clear on the operating panel!

Integrated with the operator's seat, its flexible functions can be adapted as needed. The array of function switches comprises:

- A CEBIS increment control
- B CEBIS rotary switch
- C Escape
- D HOTKEY increment control
- E HOTKEY rotary switch
- F Info button
- G QUICK 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)



CEBIS controls

CMOTION  
Multifunction control lever  
Control panel

# CLAAS TELEMATICS makes good operators even better.



Comprehensive monitoring of all idle time:  
 ● Offloading grain tank  
 ● Waiting time with a full grain tank

## A full overview with just a click.

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 CLAAS TELEMATICS.

## Optimise your settings.

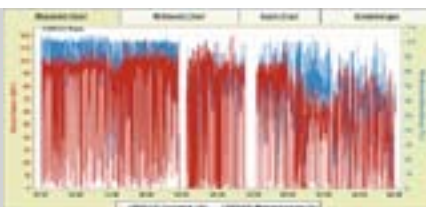
Quickly compare the performance and harvesting data for your combines on the Internet so you can fine tune the settings for the best results under all conditions every day.

## Improve work processes.

A report with the operating time analysis and other important evaluations of the machine is sent 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 threshing again. In addition, the working tracks of the combine can be viewed together with the event log in order to optimise the transport logistics. CLAAS TELEMATICS enables planned fleet management and avoids unprofitable idle time because job orders issued in the job management module can be monitored online.

## Simplify documentation.

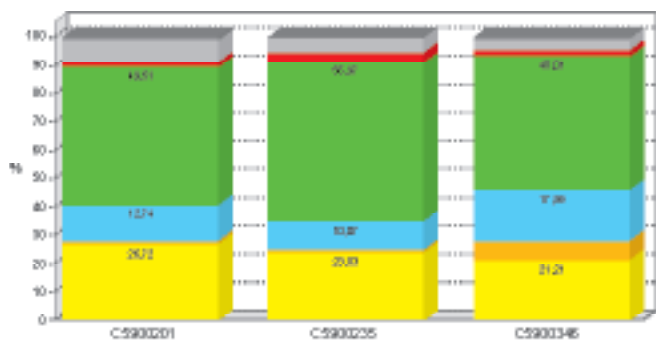
Use TELEMATICS to export the relevant data to your field catalogue and save valuable time. Transfer data on area-specific yields, for example. What's more, maps for yields, moisture and losses can be displayed graphically for quicker analysis.



Driver, farmer and dealer service can each observe the machine data and analyse their part simultaneously.



### Operating time analysis.



### Faster service with CLAAS remote diagnostics.

CLAAS TELEMATICS can transmit service data to your CLAAS dealer if you wish. This enables your CLAAS service team to perform an initial diagnosis remotely if required, identify causes more quickly and prepare to provide the most effective assistance in the field as quickly as possible. How you benefit.

- Readout of stored errors
- Checking of combine parameters such as hydraulic pressure
- Checking sensor systems for engine speed, etc.
- Configuring the combine
- Machine location can be determined quickly

Status	C5900201	C5900235	C5900346
Total time	100.00%	100.00%	100.00%
Offloading during operation	26.72%	23.83%	21.21%
Offloading while stopped	0.98%	0.78%	6.54%
Turning time	12.74%	10.07%	17.99%
Processing time	49.51%	56.97%	48.01%
Idle time	1.02%	2.84%	1.54%
Engine off	8.41%	5.19%	3.97%
Other time	0.62%	0.32%	0.74 %

The location and path of the combine are shown against the background of satellite photos from Google™ Earth.



CLAAS TELEMATICS



### Electronics system.

Data can be processed and sent faster than ever. The electronics system improves the function of the entire electronic control of the TUCANO. With its extremely fast on-board network, the TUCANO is already prepared to meet the far-reaching challenges of the future.

### Job management.

- You can manage your work orders 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



All electronic connections meet in the cab.



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

# Greater potential when you need it.



## New: 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.



A wealth of information can be printed whenever required.

Job management  
Yield mapping

# More precise steering.



Choose from three automatic steering systems.

All the new TUCANO models can be equipped with three automatic steering 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

New: GPS PILOT.

The satellite-guided GPS PILOT uses global positioning system signals to guide the TUCANO automatically along the cut edge of the crop with up to 2 cm accuracy. Simply divide your field into identically sized sections using GPS PILOT. No more time wasted on unproductive cutting of leftover strips.

GPS PILOT uses the multifunctional CEBIS MOBILE colour display.

The ISOBUS-enabled CEBIS MOBILE can be put to use quickly and easily. After the harvest, it can be used for GPS steering of tractors or as an ISOBUS terminal for controlling implements.



GPS PILOT is shown on the CEBIS MOBILE colour display.





## 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.

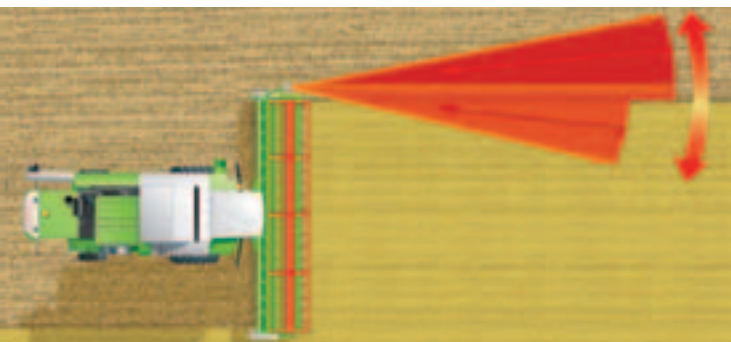
The LASER PILOT can be folded away for transport and is available for both the left and right side of the cutterbar. Its optimal positioning on the cutterbar side close to the crop edge enables a good viewing angle and ensures high functional reliability even with laid crops and slopes.

## 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.

## 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



LASER  
PILOT

AUTO  
PILOT



Automatic guidance systems

# Suitable for every job.



Front attachments

"Here in Hungary it's very important to get the maximum yield from every crop. And that starts with the use of the best available cutterbar."

(Pedar Szmolnik, Szekszárd)





VARIO cutterbar



Standard cutterbar with rapeseed table



CONSPEED LINEAR



Folding cutterbar



RAKE UP



SUNSPEED





### 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 on the TUCANO 450-340 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

### Central locking system.

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

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

That familiar comfort and convenience



# Higher throughput. No matter which front attachment you use.

## Crop lifters.

Using the crop lifters reduces ear cutting losses (particularly with overripe barley) and prevents stones from being picked up in laid crops.

- Reliable grain intake
- Ideal storage for the crop lifters behind 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

## The trailer for road transport.

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

Made-to-measure compartments are designed for transporting the accessories you need for harvesting rapeseed. The rubber-coated floor provides 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 C 490, C 430 and C 370 cutterbars.

Hydraulic reversing on the  
feeder housing



Cutterbar

# 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'll 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 750 and V 900
- The hydrostatic reel drive comes equipped with automatic speed adjustment
- Reliable and rugged: the multifinger intake auger

New: the reels for V 900 and V 750.

Significantly reduced risk of wrapping: the enhanced reel design with optimised reel tine carriers from the V 1200 and V 1050 high-performance cutterbars has also been adopted for the V 900 and V 750.

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.

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

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





## Rapeseed must be harvested carefully.

Ripe rapeseed pods need careful handling during threshing because they often burst and grains scatter in all directions. The rapeseed deflector and extension are indispensable parts of the rapeseed equipment on VARIO cutterbars as they contribute to a sustained reduction in losses.

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 the rapeseed crop, the cutterbar table can be moved forward by 50 cm and the integrated rapeseed table is ready in no time.

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.

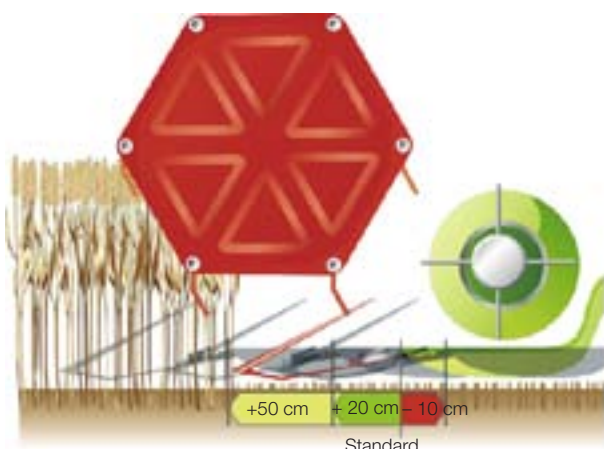
Knife position -10 cm



Knife position +20 cm



Knife position +50 cm



VARIO cutterbar



## CONSPEED LINEAR.

A high picking rate with protective handling of maize ears at the same time has a critical influence on the throughput of the machine. The CONSPEED and CONSPEED LINEAR maize pickers meet these requirements and are superbly matched to the capabilities of the TUCANO.

### Make the most of the maximum efficiency of the CONSPEED LINEAR:

- Snapping rollers with tungsten carbide coated knives
- Electrohydraulic snapping plate adjustment
- Horizontal chopper
- Reliable drives using only shafts and gears
- Durable plastic covers
- Automatic machine guidance via AUTO PILOT
- Simple rpm adjustment

The CONSPEED LINEAR can be equipped for sunflower harvesting with a sunflower kit.

## Wide in the field, narrow on the road.

Simply press a button in the cab to switch from the working position to the transport position. The outer picking units are electrohydraulically folded inwards to a width of three metres. When the unit is unfolded into the operating position all drive components are automatically moved into position.

## SUNSPEED - a sunny outlook.

Based on the excellent principles of its front attachment technology, CLAAS developed the outstanding SUNSPEED cutterbar specifically for sunflowers with the following features:

- Maximum output per unit area
- Minimal losses
- Greater safety and reliability in the field
- Minimal setup times
- Optimal operating comfort and convenience



### Sunflower kit:

- 1 Rear wall panel to minimise losses
- 2/3 Knife holder and knife between the snapping plates
- 4/5 Right/left chain guide

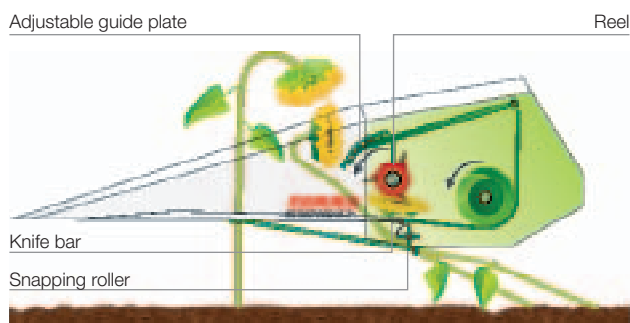
# The TUCANO takes things as they come. Maize and sunflowers.

## A highly efficient design.

When the sunflower stems are captured by the shuttles, the adjustable guide plate helps to push the sunflower heads to the front. At the same time the snapping roller prevents early cutting. Only the heads of the plants reach the specially developed reel equipped with tines and additional rubber guide plates. The reel moves the cut-off heads to the intake auger and transfers them to the feeder housing.

## A highly adaptable system.

- Reel height and speed can be adjusted hydraulically
- Adjustable cover plates keep the stalks in a secure position, 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 tilt of the shuttles is also adjustable, so they can be adapted to a wide variety of crop conditions



CONSPEED  
CONSPEED LINEAR  
SUNSPEED

The TUCANO handles all these crops equally well: peas, beans, lentils, clover seed and soybeans.

Versatility is its particular strength.

The versatility and adaptability of the TUCANO makes it the solution everyone's been waiting for in many situations and locations. With the appropriate cutterbars, it will reliably meet your needs with its top performance and outstanding efficiency.

RAKE UP – a new approach to swath harvesting.

The tines are mounted on six tine bars. They are controlled and retract with an additional movement to the side when the crop is fed onto the belt. The speed of the intake unit is continuously variable and can be hydraulically adjusted from the cab.

- Reliable pick-up and high output, even under the most difficult field conditions
- Clean rake intake of the crop
- A two-part crop guard ensures rapid crop flow
- Can be used for virtually any crop
- Sturdy, durable design of the RAKE UP



Folding cutterbar







The folding cutterbar offers numerous advantages.

Narrow streets, cramped paths, heavy traffic: with its folding cutterbar, the TUCANO lets nothing stand in the way of top daily output. The folding cutterbars do away with the need to attach and detach the cutterbar, ensure optimal handling during travel with outstanding visibility and facilitate transfers from one field to the next practically without interruption. Your advantages:

- No additional trailer necessary
- Drastically reduced set-up times
- Tremendous savings of time and costs
- Extremely easy operation
- High operational reliability
- Safer in road traffic
- Greater efficiency
- Better scheduling

FLEX cutterbar: down-to-earth quality.

Soybeans grow in pods immediately above the ground. Thus, it is necessary to cut the crop directly above the soil to ensure lossless harvesting. This is the only way to be sure that every last pod gets into the combine.

CLAAS FLEX cutterbars are therefore equipped with a flexible knife bar that automatically adapts to even slight ground undulations. These cutterbars can also be used for peas and other specially cultivated crops such as clover.



Flex cutterbar



RAKE UP  
Folding cutterbar  
Flex 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 cylinders 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 slopes and rocky ground. AUTO CONTOUR helps to increase performance and to make the use of the TUCANO pay even greater dividends.



2-way cutterbar cylinders control the ground pressure precisely.



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

# A more intelligent cutterbar.

## Automatic reel control.

The RPM of the reel – and thus its speed – adjusts 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.

## 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.

## Automatic functions.

- CONTOUR / AUTO CONTOUR
- Automatic reel speed
- Automatic reel height
- Automatic reel levelling (VARIO only)
- Automatic table position (VARIO only)



Sensor bands detect the position of the cutterbar.

Automated cutterbar control

Fulfils any demands.





"As the manager of a large Spanish agricultural operation I need to keep an eye not only on top quality crops but also on the quality of the straw."

(Pablo Vazquez, Torre Pacheco)

Threshing



### Unique APS threshing system.

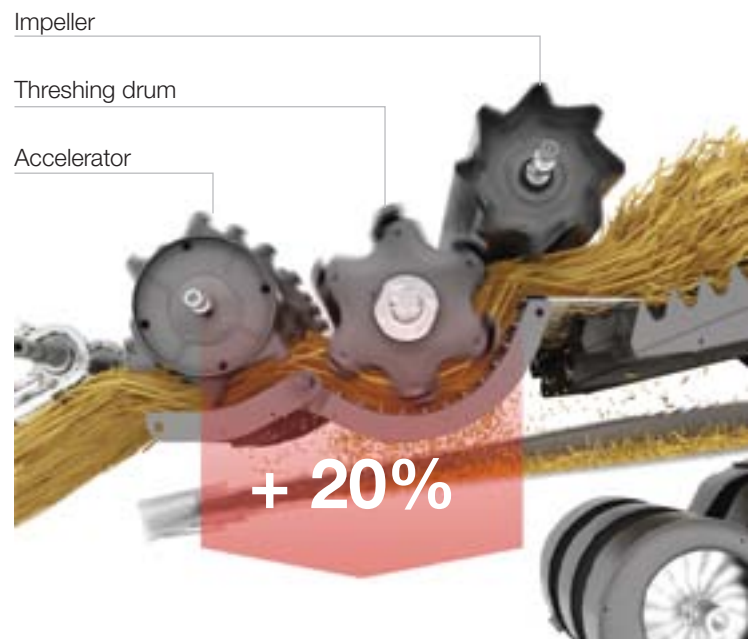
The distinct competitive edge of CLAAS appears well before the threshing drum. The dramatic acceleration of the crop flow from 3 m/s to 20 m/s triggers a chain of extremely efficient processes:

- 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 pays for itself.

### 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.



Very high-performance separation, optimal grain quality, reduced returns in the TUCANO 450, 440, 430 – the 7/18 concave with 7 mm wire spacing in the first four concave rows and 18 mm in the rear concave area.

# The only one in its class with APS threshing technology.

## Better crop quality with APS.

For the best possible deawning and husk removal, the APS system is equipped with multi-level adjustment options and additional components such as the intensive threshing component and the deawning plates. These can be engaged in just seconds using a lever on the feeder housing.

The interplay between all the benefits of APS produces record-breaking results: maximum separation efficiency combined with outstanding harvest quality.

All of the TUCANO 400 models are equipped with the APS threshing and separation system.

## Secure protection.

The new, large stone trap is easy to open from the side and is self-emptying.

## Long threshing channel with a large grain separation area.

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



[go.claas.com/  
tucano450320cropflow](https://go.claas.com/tucano450320cropflow)

APS threshing and  
separation system

# The CLAAS threshing mechanism has passed the endurance test a thousand times.

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, you'll love its versatility with the full threshing drum width of 1.58 m as well as with the smaller 1.32 m version.

- 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.

All TUCANO 300 series models are fitted with the classic CLAAS threshing unit.



CLAAS threshing system

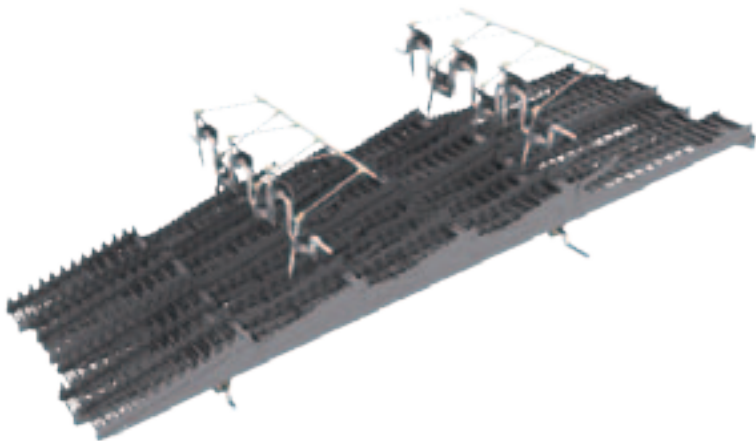


Cleanly separated over 4.40 metres length.

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.



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

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.



Straw walker technology

# Clean work pays better.

## Removable, divided 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 upper sieve can be removed easily to clean the preparation floor when harvesting is complete. The 400 series models have a plastic preparation floor that can be pulled towards the front.

## Rotary fan or turbine blowers.

- Depending on the model, there are 4 or 6 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

## Single or double steps.

- These significantly reduce the load on the upper sieve
- They enhance performance, particularly if the straw is dry and brittle



The cleaning system: sheer effectiveness right down the line.



Electric sieve adjustment



The 400 series has a plastic preparation floor.



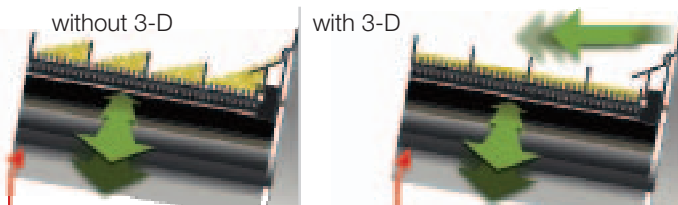
### Electric sieve adjustment.

Developed by CLAAS and imitated by the competition.  
Electronic sieve adjustment from the cab:

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

### 3-D cleaning system.

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



Cleaning system



### A grain tank with tremendous capacity.

After the threshing, residual grain separation and cleaning processes have been completed, the cleaned grain is collected in the generously dimensioned grain tank. With a large volume of 9,000 litres, the TUCANO once again demonstrates its capacity for high productivity, enhanced by many other strengths:

- Easy grain sampling
- High overhead discharge height
- Ideal weight distribution
- Good view into grain tank
- Fast, direct offloading at 75 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
- You'll quickly discover which combine settings work best for you
- This facilitates optimal utilisation of the performance potential



# Filled with high quality, emptied at high speed.

## 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 among other things, the QUANTIMETER automatically determines the precise quantity harvested.

Automatic chain tensioning for the elevator is standard with the QUANTIMETER. All CLAAS combines with the QUANTIMETER have a larger elevator.

## PROFI CAM – everything in view.

All TUCANO models can be equipped with a PROFI CAM on the rear hood. This camera position has been chosen precisely to allow up to two areas to be monitored simultaneously on a colour display from the comfort of the cab:

- Distribution of chopped material/straw deposition
- Rear of machine when reversing

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



PROFI CAM

Grain tank  
QUANTIMETER  
PROFI CAM

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



## 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.

## New: SPECIAL CUT.

The SPECIAL CUT straw chopper is now available for all TUCANO models as an alternative to the STANDARD CUT model. The SPECIAL CUT has 30% more knives: 68 for five walkers models (430/330/320) 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.







If you need a chaff spreader, you'll want the HD.

There are many advantages:

- Suitable for corn and grain – no changeover necessary
- HD components for a longer service life
- Outstanding spreading width
- Consistent crop feed in all conditions
- No influence on the cleaning air flow
- Optimal ease of access to the sieve pan with folding chaff spreader

The TUCANO handles straw very gently.

Take long straw, for example. Thanks to the protective threshing and separation process, the straw retains its full original structure, which is ideal for high-quality bedding straw. When the chopper is switched off, the swath is layered loosely, allowing it to dry quickly and be compacted easily into firm bales.

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




HD chaff spreader



Straw management

The power you need.  
CLAAS POWER SYSTEMS (CPS).





Equipment development at CLAAS means an ongoing effort for even greater efficiency and reliability as well as optimal profitability in the field. This applies of course to all aspects of a CLAAS combine harvester. The drive system is of decisive importance. And it involves a lot more than just a powerful engine.

In CLAAS POWER SYSTEMS (CPS), we have brought together top-quality components to create a drive system that is in a class of its own – one that always delivers the most efficient power when needed. CPS is ideally matched to the working system, featuring fuel-saving technology that quickly pays for itself.

"Our field conditions are extremely variable. The combine has to offer enough power to allow us to work efficiently."

(Markus Schulte, Niederaula, Germany)

CLAAS POWER SYSTEMS



No compromises on power or endurance.

The high-performance engine in the TUCANO complies with the Stage IIIb (Tier 4i) emissions standard thanks to an exhaust aftertreatment system. In addition, the engine output of all TUCANO models has been increased.

Conversion of nitrogen oxides by SCR.

The Mercedes-Benz engine in the TUCANO complies with this standard thanks to a selective catalytic reduction (SCR) exhaust aftertreatment system. This process converts the nitrogen oxides in the exhaust flow into pure nitrogen and water. The urea solution necessary for this is carried in an 63-litre tank.



[go.claas.com/scr](http://go.claas.com/scr)



Up to 650 litre capacity



# Superior power for greater challenges.

New: larger cooling system with automatic dust extraction.

- Highly efficient integrated cooling system for the engine, hydraulics and air conditioner
- Long service life and infrequent servicing intervals
- The low-wear hydraulic drive of the swing-out radiator frame ensures good access to the radiator and makes maintenance easy
- Easy access to the engine compartment and other maintenance areas with a mobile, foldable ladder
- The engines comply with the EUROMOT IIIa emissions directive
- Can run on RME biodiesel to reduce costs further (requires retrofitting)
- An outstanding feature of the TUCANO is the overall efficiency of the engine and threshing system
- 650 litre or 500 litre fuel tank capacity



All TUCANO models with SCR technology are equipped with three batteries: two wired in series for the 24-volt engine electronics and one for the 12-volt on-board electronics.



Engine

# Safer on the road, easier on the field.

## Innovative superiority all round.

You can control the hydrostatic ground drive of the TUCANO – without clutches, without switching gears – very easily and conveniently with the multifunction lever. Such operating comfort and convenience directly enhances performance with faster turns and precise adjustment of the travel speed to changing field conditions. Your choice for added power: all-wheel drive. A simple touch of a button switches to a hydraulically driven power system which keeps you moving forward even in the most adverse terrain. The all-wheel drive is reliable and maintenance-free.

## New tyre sizes - the choice is yours.

- Eight drive-axle tyres
- Five steering-axle tyres

## Maintenance. Could you do with less of it?

- Large side panels provide optimal access
- Tool box
- Compressed air system
- Lubrication banks (including spotlights)
- Long service intervals



Reduced tyre pressure for  
less soil compaction.





## New tyre technology for long-term ground protection.

Intensive joint efforts between CLAAS and renowned tyre manufacturers have led to the development of this new tyre technology.

## Outstanding benefits:

The new tyres improve mobility on the road. Their greater contact area provides more traction, less slippage and lower fuel consumption for travel, while the lower tyre pressure reduces ground compaction and so makes a long-term contribution to improving soil structure.

Tyre size	Standard tyres	MICHELIN Cerexbib
680/85 R 32	2.9 bar	1.8 bar
800/70 R 32	2.4 bar	1.6 bar

## Facts and figures:

- Tyre pressure can be reduced by between 0.6 and 1.1 bar with full load capacity compared to standard tyres of the same size – this represents a reduction of 35%
- The tyres have the contact area of standard tyres two sizes larger, providing 22% more ground contact with the same transport width
- Tyres on drive axle: 800/70 R 32 and 680/85 R 32, tyres on steering axle: 520/80 R 26

### Standard tyres



5857 cm<sup>2</sup>

2.4 bar

800/70 R 32 / 9000 kg

### MICHELIN Cerexbib



7314 cm<sup>2</sup>

1.6 bar

IF 800/70 R 32 / 9000 kg



Reduced transport width with increased contact area

Drive Tyres Maintenance



### Round-the-clock assistance.

You can rely on the professional and dependable FIRST CLAAS SERVICE® team whenever you need us. CLAAS importers and sales partners ensure optimum parts availability and reliable round-the-clock customer service worldwide.

### We're there where you need us.

Our central spare parts warehouse delivers all ORIGINAL CLAAS parts quickly and reliably throughout the world. The extensive network of CLAAS dealers ensures that they reach their destination as quickly as possible – wherever you happen to be.

### Our diagnostics are reliable.

The vast experience of our service specialists, together with cutting edge diagnostic systems, such as CDS 5000, ensures fast troubleshooting as well as reliable CEBIS configuration and updates.

### We speak your language.

CLAAS dealers are among the world's foremost agricultural engineering companies. Not only are they highly trained and equipped with the right tools, they are also extremely well acquainted with the way farmers and contractors work. They understand your expectations and can provide the professional expertise and reliability you require.

### We are always close by, even when we're far away.

Every minute counts during the harvest. With the unique CLAAS TELEMATICS you gain valuable time, and so do we. Our service staff have direct access to all of the performance and electronic data of your TUCANO via GPRS and the Internet. Even before we arrive, we have all the necessary information and can bring any required spare parts with us right away.





# At CLAAS, service isn't just a word. It's a way of life.

Invest in the best. Invest in success!

You can count on CLAAS to offer you the highest level of reliability and professional expertise with service packages and the individual CLAAS MAXI CARE® programme.

Post-harvest and annual inspections to ensure top performance; service contracts with fixed prices and flexible extended warranty options enable you to plan and manage your costs transparently and accurately.

The all-round package for carefree maintenance and repair:

- Post-harvest/annual check – a thorough inspection for a head start in the coming year
- Maintenance contracts. FIRST CLAAS quality with maintenance at a fixed price
- MAXI CARE® – reliable all-round protection



FIRST CLAAS SERVICE®  
MAXI CARE®  
CLAAS TELEMATICS

# Ready for anything.

TUCANO 450 440 430

GPS PILOT

Comfort cab

CEBIS

The V channel

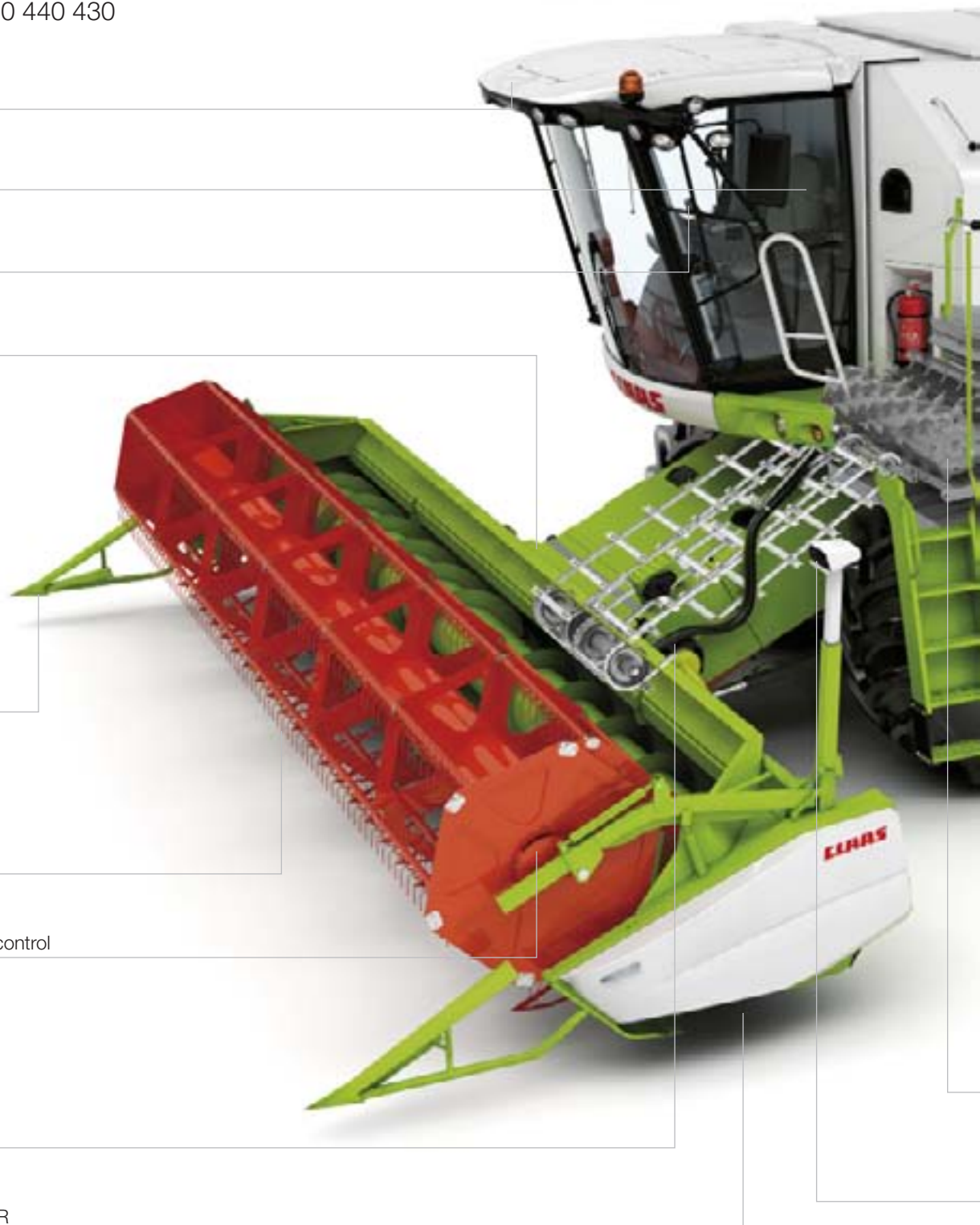
Folding dividers

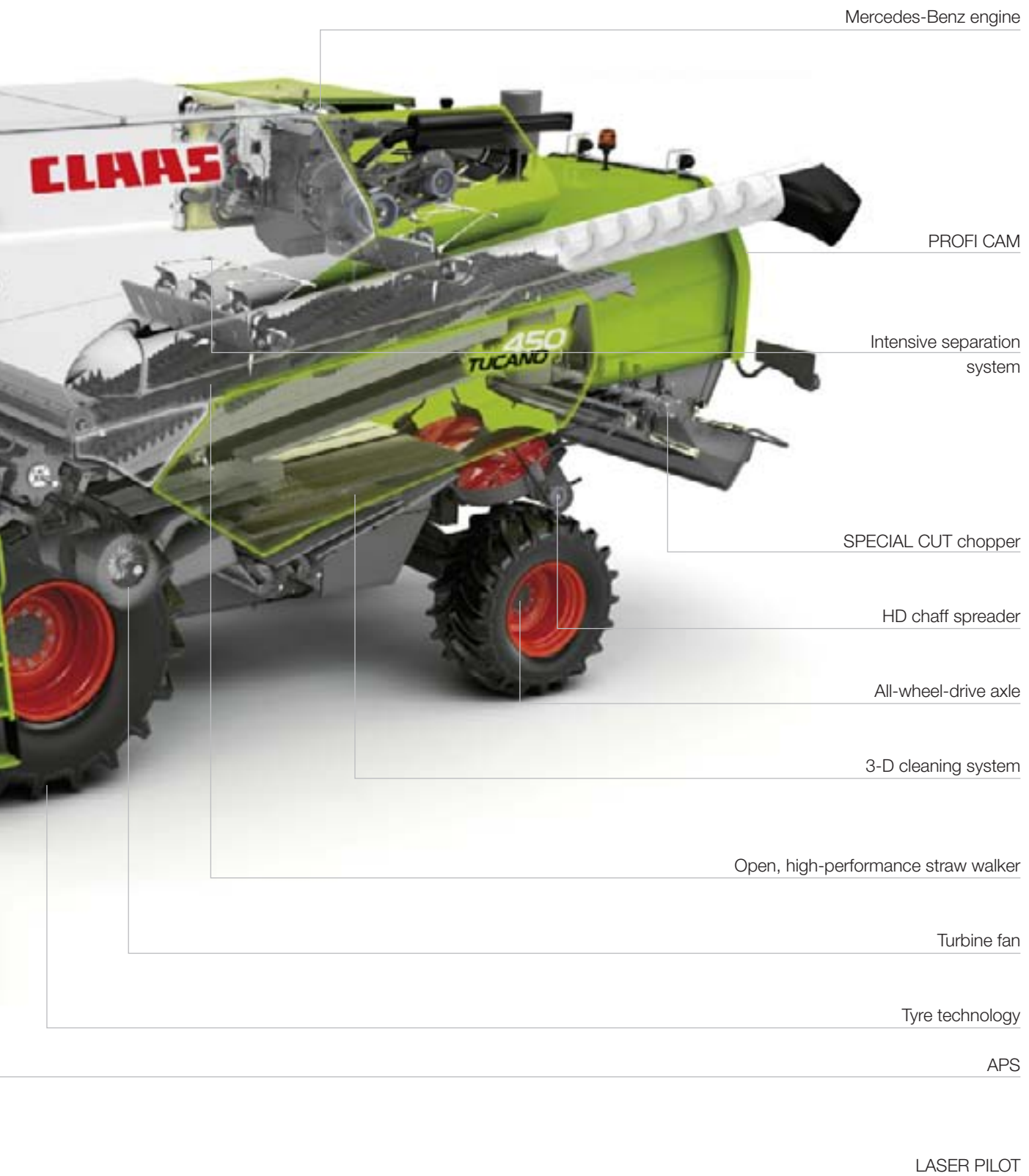
VARIO table

Automated reel control

MultiCoupler

AUTO CONTOUR





# Ready for anything.

TUCANO 340 330 320

GPS PILOT

Comfort cab

CEBIS

The V channel

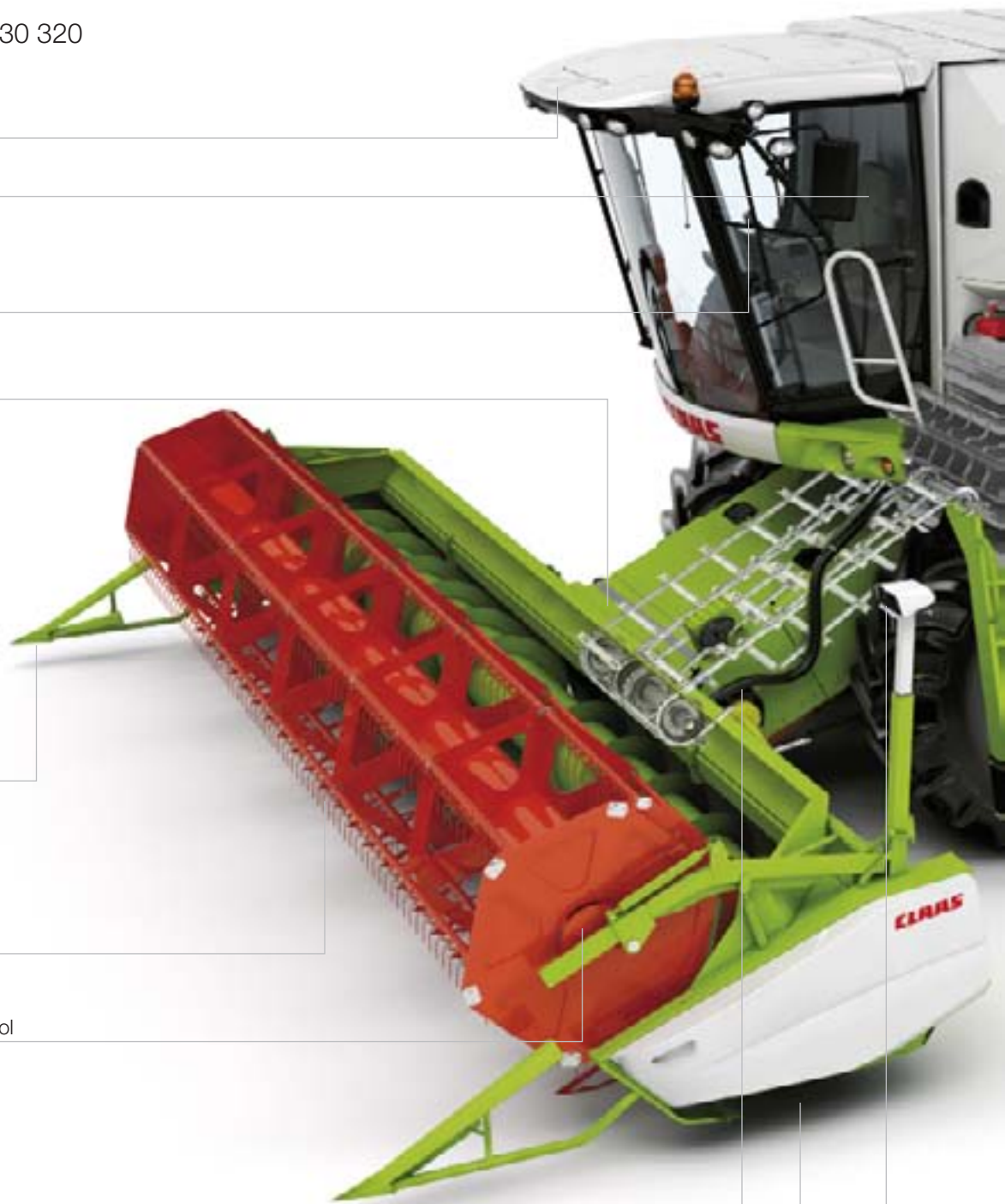
Folding dividers

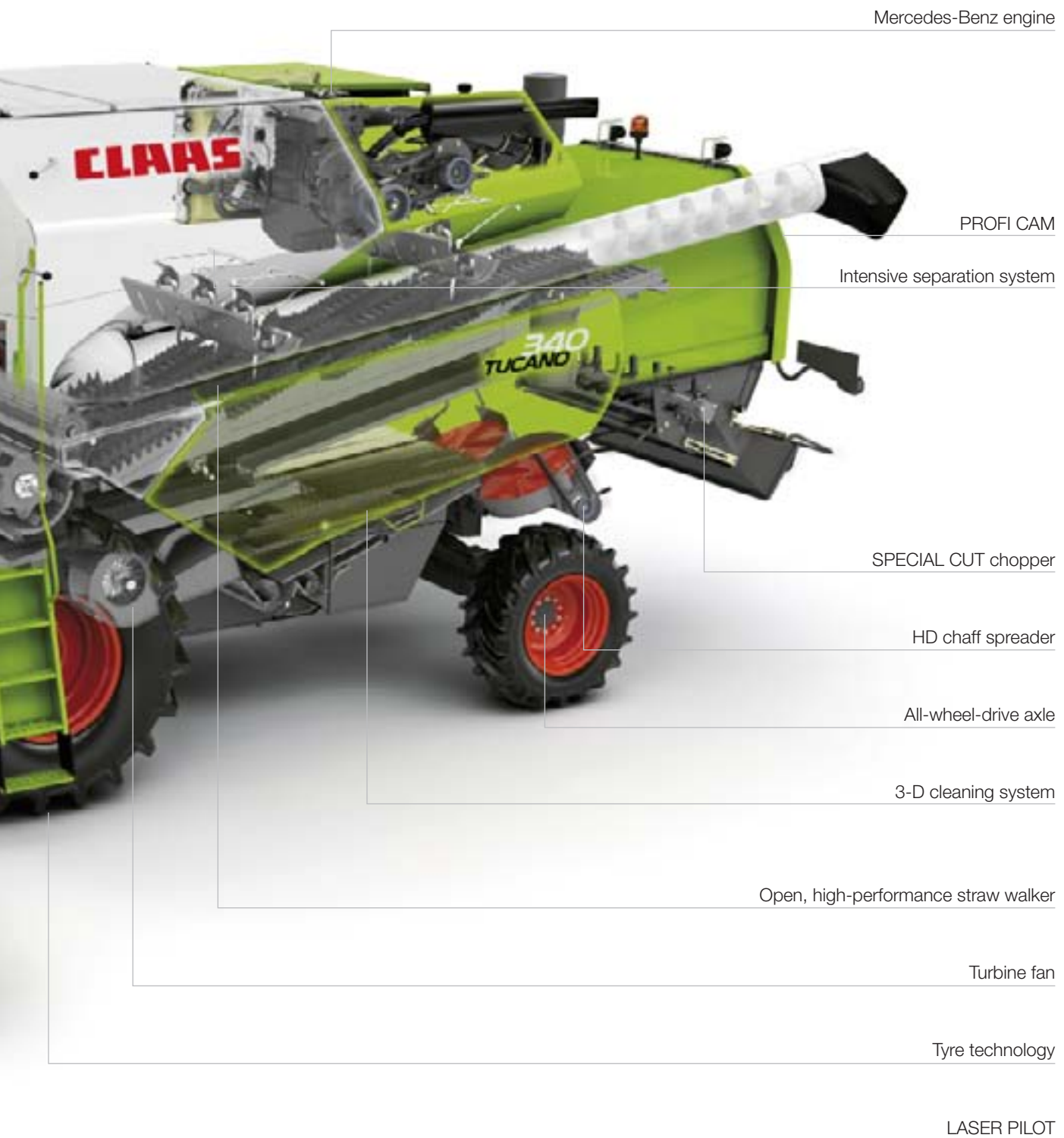
VARIO table

Automated reel control

MultiCoupler

AUTO CONTOUR





Mercedes-Benz engine

PROFI CAM

Intensive separation system

SPECIAL CUT chopper

HD chaff spreader

All-wheel-drive axle

3-D cleaning system

Open, high-performance straw walker

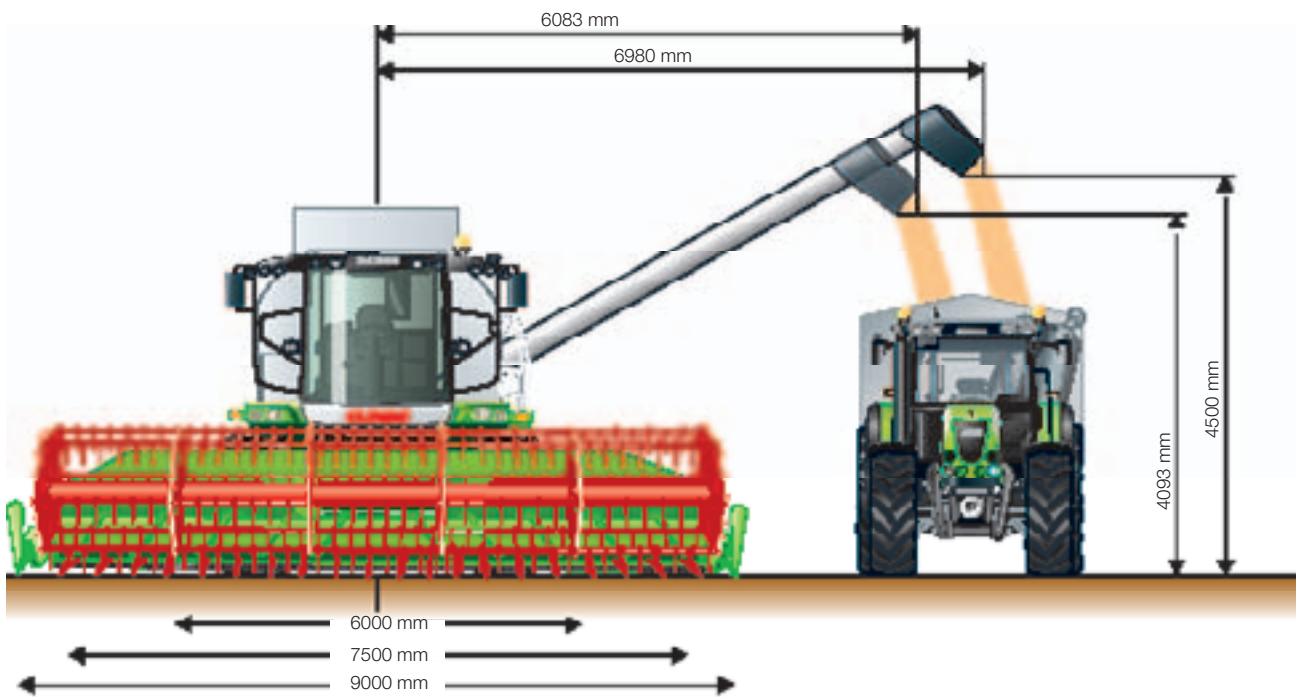
Turbine fan

Tyre technology

LASER PILOT

Technology in detail

Convenient offloading requires height and width.





# Point by point – a perfect fit.

## Cab.

- The spacious VISTA CAB provides an exceptionally quiet environment which allows you to focus on your work
- Visual returns check from the operator's seat through the lit inspection window
- Multifunction control lever, CEBIS electronic on-board information system, CLAAS TELEMATICS, GPS PILOT and yield mapping provide innovative, convenient control

## Cutterbars.

- The LASER PILOT automatic steering system relieves the operator and contributes to significantly higher productivity
- VARIO cutterbars in widths up to 9.12 m give up to 10% better performance by maximising crop flow
- AUTO CONTOUR is an intelligently controlled cutterbar which automatically compensates for undulations in the direction of travel as well as those in the transverse direction
- Especially versatile thanks to the standard and VARIO cutterbars, CONSPEED, CONSPEED LINEAR, SUNSPEED, RAKE UP, folding cutterbar and FLEX cutterbar

## Threshing technology.

- The TUCANO is the only combine in its class with the APS threshing system, which achieves one of the highest throughputs on the market
- 7/18 concave for maximum separation, optimised grain quality and reduced returns with the TUCANO 450/440/430
- A grain tank capacity of up to 9,000 litres reduces offloading frequency in the field. The high offloading rate reduces the time to empty the tank. Together, these features considerably increase your daily output

## CLAAS POWER SYSTEMS (CPS).

- Mercedes-Benz OM 926 LA (7.20 l) engines provide reliable reserves of power for the most demanding field conditions
- Tyre technology for optimal ground protection with a limited transport width
- The overall ease of maintaining the equipment increases working comfort and efficiency



CLAAS UK  
Saxham  
Bury St. Edmunds  
Suffolk  
IP28 6QZ  
Tel 01284 763100  
claas.co.uk  
info-uk@claas.com  
112012130712 KK DC 0712

