

Tedders

## VOLTO







VOLTO news	
Technology for professionals  MAX SPREAD crop flow concept  User-friendly features	
Top forage quality	,
Large series	
VOLTO 1500 TS / T	
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## VOLTO.

## From field to field in comfort.

Safe transfers to the fields where the work is to be done is essential. Flexible hitching, a low centre of gravity and extra-large wheels in the new VOLTO 1500 and VOLTO 1300 models ensure safe and comfortable road travel.



## The world of CLAAS.

Tradition and innovation is the future.

We are passionate about what we do, for many reasons – because of the challenges it brings, because it demands all our expertise, and because it is constantly changing. Every day brings something new – and so does every field to be harvested. Similarly, every customer is different, with different requirements. Our job is to meet those requirements, from the lush fields on East Frisian dikes to the drier soils of the Trentino region in Italy, or anywhere in the world. Our customers are looking for versatile solutions that match their specific needs. Farms keep growing and changing, just as we are continuously developing our products. We retain the best of our existing technology, and keep improving everything else.



CLAAS Saulgau GmbH is the company's forage harvesting centre of excellence, with one of the most modern product development facilities anywhere in the world.



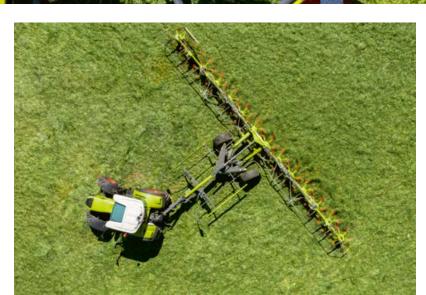
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Maximum working width – maximum manoeuvrability.

The new VOLTO 1500 and 1300 models with a working width of over 15 metres offer maximum performance. But when it comes to performance, width isn't everything. Technical innovations such as the unique trailed steering significantly boost efficiency in the field. The VOLTO 1500 TS and VOLTO 1300 TS models can turn by 180 degrees from one track to the next without lifting to headland position – saving valuable time, protecting the sward and increasing productivity.

With reliable technology and user-friendly operation, the VOLTO models are not just high-performance machines; they make tedding a relaxed and comfortable occupation even on hectic harvesting days.



Turn  $180^\circ$  with a 15.10 m working width and protect the sward. Helping you achieve what you set out to do – top-quality results every day.

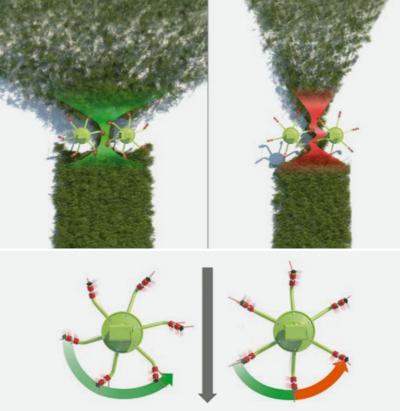


Wider crop uptake, thanks to a more efficient crop flow system.

Thanks to the trailed tine connection in the MAX SPREAD crop flow concept, the tines are always positioned in or crosswise to the direction of travel as the crop is taken up. In conventional designs, the tines operate opposed to the direction of travel after just half of the pick-up area, thus limiting the forward speed. In the MAX SPREAD crop flow system, the tines operate for 33 percent longer in or crosswise to the direction of travel. So MAX SPREAD enables you to work significantly faster, or with a lower engine speed.

Straight-line crop flow for gentle transfer.

Since the tines are always positioned at right angles to the crop during pick-up, they can deflect to the rear in the direction of the tine winding. This offers the advantage over conventional systems that the crop flow between the rotors is almost perfectly linear – creating more space for crop transfer and ensuring enhanced throughput and exceptionally gentle handling of the forage. The MAX SPREAD concept therefore allows the tedding of leafy crop types such as alfalfa at reduced engine speeds.



More uniform distribution, thanks to the tine connection angled to the rear.

The 29.3° trailed connection also has a positive impact on crop delivery. In the same way as the trailed spreading blades of a fertiliser spreader, this configuration ensures wider and more even distribution of the harvested crop for an optimal spread pattern. This fertiliser spreader effect is further supported by tine tension release in the direction of the winding to spread the crop over the entire width.



MAX SPREAD – convincing the experts.

"None of the panel would have guessed that there was still scope for this level of innovation in such a technically mature process as tedding. The MAX SPREAD crop flow concept has been a hit with the judges and has duly been awarded the ZLF Innovation Prize."

Norbert Bleisteiner, judges' spokesperson









Buck Family Farm in Upper Swabia: 150 ha and contract work Dairy herd: 120 Simmentals Machine: VOLTO 1500 T

### Why the CLAAS VOLTO?

Clean spread pattern in all conditions, large working width and robust construction

#### Field report

The Buck family run a dairy farm with 120 cows in Upper Swabia. For forage harvesting and contract work they rely on state-of-the-art CLAAS equipment – so this year they have been tedding with a VOLTO 1500 T.

"With a working width of over 15 metres, the tedder is a perfect fit for our harvesting chain. We effortlessly follow the mower combination and so have the option to do a second pass with the tedder if required," say Matthias Buck.

He especially likes the clean, uniform spread pattern, both in heavy grass and light hay. "The robust construction and efficient crop flow enables us to drive faster and still achieve consistent tedding performance."

The quality of the basic forage has to be right; after all, it is mirrored in the milk tanker – and the influence of the equipment used should not be underestimated. "We ted almost every cut as it enables us to better control the dry matter content and shake the fine dirt particles out of the forage. What particularly impressed us about the VOLTO is that you can precisely adjust the rake height, and since it runs very smoothly over the field, the tines don't dig into the soil," Matthias Buck concludes.

## Better control – through reliability.



CLAAS power flow drawbar for smooth and safe movement over the ground.

For comfortable and efficient operation, all three-point hitched machines are fitted with the CLAAS CKL power flow drawbar. This ensures smooth trailing around bends, and reliably prevents overrun on slopes. Automatic centring during lifting transfers the weight to the tractor lower link. As well as relieving the strain on the chassis and immobilising the machine, this also brings the centre of gravity close to the tractor.



Robust design for maximum performance and stamina.

Solid box sections give VOLTO machines the endurance they require in the field. These feature a wall thickness of 8.00 mm and are angled at 45° for effective absorption of torsional forces and enduring operational reliability. Furthermore, forces acting on the chassis are absorbed by solid cast-iron joints with a double-shear connection.



Headland swath guard for optimum efficiency.

The swath guard enables you to achieve consistent drying of the crop even at the field edges. By pivoting the headland swath guard into the working area, you can restrict the trajectory of the forage, ensuring the crop remains where it belongs. This also means you are always operating with the full working width, and can prevent the wheels from tilting, which can damage the machine.



Power transmission: the PERMALINK finger clutch.

On VOLTO machines, the PERMALINK finger clutch ensures reliable transfer of power in all operational conditions. The innovative design additionally enables folding movements of up to 180°, allowing retraction to a compact transport position.



An easier tedding operation with robust spreader arms.

The highest forces acting during tedding are exerted on the spreader arms. They are therefore made from rounded tubing for high torsion resistance, bolted to the rotor plate, and further stabilised with a recessed support ring.

Depending on the model, the VOLTO has a rotor diameter of 1.30, 1.50 or 1.70 metres, with five, six or seven spreader arms, respectively.



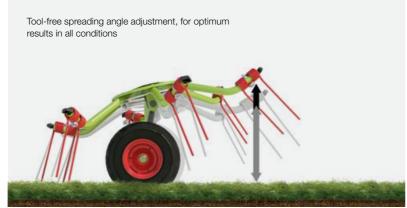
Robust, securely attached tines.

All VOLTO hay tedders are fitted with strong, robust tines. Dual tines with five windings each are fitted on the tine arm and secured with a bolt. In the event of a breakage, the tine-loss protection system reliably prevents any risk of tines flying off and causing damage.

# Step by step, or rather layer by layer – towards a top-quality forage crop.









### Supporting feed quality.

Forage quality is crucial for healthy livestock – and the tedder plays a big part in achieving this objective. Your tedder is the quality driver for your green forage harvesting process, not only maintaining, but also further enhancing forage quality. The VOLTO is specifically designed for this purpose – quality harvesting and delivery.

### Layer by layer drying, for top-quality results.

To produce high-quality forage, the harvested crop must be dried out evenly. The tines on VOLTO machines are therefore equipped with fingers of equal length. These pick up the crop in layers, and ensure that it is mixed thoroughly. The result is a homogeneous spreading pattern, and rapid drying of the harvested crop.

### Longer life, thanks to evenly spread load forces.

A further advantage of the layered pick-up is that the front and rear tines are loaded evenly, which greatly extends their service life. And when a tine does have to be replaced, you will always have a suitable spare, since the equal finger length means the tines can be used in either rotor direction of rotation.



### Adjustable spreading angle for greater flexibility.

To adapt the machine to the harvesting conditions, the spreading angle can be set over a range from 12° to 18° depending on the model. The tines can also be adjusted forwards or backwards by 7°, allowing you to fine-tune your desired spreading pattern.

### Tine loss guard for better protection.

To cushion loads, the tines have five windings. The material thickness of 9.5 mm still provides enough rigidity for a clean raking result. To protect animals and following harvesting machinery, each spreader arm is equipped with a tine loss guard. These guards prevent tines from coming away in the event of a breakage, and their trapezoid shape prevents the forage from becoming wrapped around the spreader arm.

# In the big league – the VOLTO stands supreme.



## Superb engineering, big style.





#### Headland position.

The VOLTO 1500 and 1300 models are raised into headland position high above ground via a single-acting spool valve. The stable construction and large ground clearance make it easy to cross ditches or headland that has already been worked.



#### Well thought-out chassis design.

The transport chassis offers exceptional safety and ride comfort – even at high speeds – thanks to 500/55-20 tyres with a diameter of 1.06 metres and low centre of gravity. The innovative Y-shaped design with a slender main frame minimises material build-up while at the same time ensuring good ground clearance.



#### Stability and safety on a grand scale.

The new PERMALINK HD finger clutch is specially designed to deliver maximum efficiency with working widths of up to 15.10 metres. The large and extremely robust fingers ensure a reliable force-fit connection in all positions. The clutch is surrounded by a sturdy 180° double joint for more freedom of movement during folding.



Oil bath for continuous lubrication.

Long-lasting performance guaranteed. The rotor transmission runs in an oil bath for continuous lubrication to reduce friction and minimise component wear. The oil ensures consistent lubrication at different rotational speeds and loads, thereby increasing the efficiency and service life of the transmission.

## Maximum efficiency in an agile package.





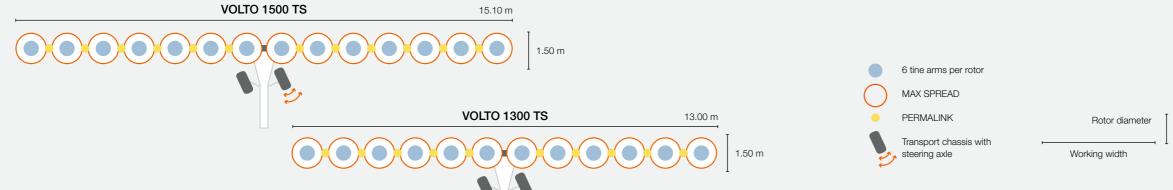
#### As manoeuvrable as a small machine.

When the single-acting spool valve is moved to float position, trailing steering is automatically activated in working position. This eliminates the need to raise into headland position during tight turning manoeuvres – making even more efficient and soil-friendly use of the enormous working width of up to 15.10 metres.



## Flexible hitching.

The bolted drawbar on the VOLTO 1500 and 1300 models can be mounted to the top and bottom hitch, and rotated by 180 degrees. For even greater flexibility, the drawbar height can be adjusted in increments of 45 mm by repositioning the pin in the retaining plate holes. These different hitching options allow the tedder to be adapted to a wide range of tractor models and conditions.



Optimal spreading pattern. Adjustable rake height.

The rake height can be adjusted manually using an easily accessible crank. Turn clockwise to increase the distance of the tines from ground, and anticlockwise to decrease the distance. A large display with arrow accurately shows the set rake height.

## The gentle giant.





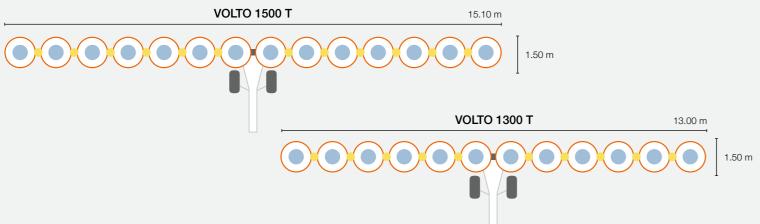
## XXL tyres.

The extra-large 500/55-20 tyres with a diameter of 1.06 metres offer clear advantages in terms of soil protection and handling on uneven or soft terrain. The larger contact area reduces soil pressure, protecting the sward and minimising soil compaction. This has a positive effect on ride comfort as well as effectively reducing forage contamination, even in wet conditions, e.g. on boggy ground.



## Easily adjustable.

Up to 14 small rotors ensure optimal ground-contour following – after all, every blade of grass counts and soil has no place in the forage. The large trailed tedders with road transport chassis behave like compact mounted models in the field because the rotors in float position run close to the chassis, which acts as a guide wheel.



6 tine arms per rotor

MAX SPREAD

PERMALINK

Rotor diameter

Road transport chassis

Working width

Optimal spreading pattern. Adjustable spreading angle.

The spreading angle can be easily adjusted by repositioning the rotor axles. With options of  $12^{\circ}$  or  $16^{\circ}$ , the tedder can be adjusted to suit the conditions.

# Clean cropping? – Absolutely.









efficient The VOI

Maximum work rates with ten-rotor tedders.

With the VOLTO 1100, CLAAS has produced the world's most efficient ten-rotor tedder for mounting on a three-point linkage. The VOLTO 1100 and VOLTO 1100 T have a working width of 10.70 metres, and also feature the MAX SPREAD crop flow concept. The result is maximum work rates and an enhanced spread pattern.

Always on track with the hydraulic CLAAS power flow drawbar.

To ensure smooth trailing, the VOLTO 1100 is fitted with a hydraulic, maintenance-free CLAAS power flow drawbar, which centres the machine during lifting and after negotiating curves, and prevents overrun on slopes.

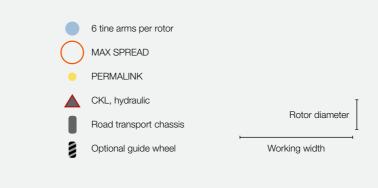
Easy folding for road transport.

The VOLTO 1100 is folded using the double-acting spool valve, with no need for cables. Dual retraction of the arms provides a compact road transport position. The CLAAS power drawbar also ensures safe transport by supporting the machine on the lower links.

With its wide support base, the transport chassis on the VOLTO 1100 T permits speeds of up to 40 km/h.

Individual setting preferences for maximum operator comfort.

User-friendly features include the headland lift function and hydraulically folding headland swath guard. The safety frame brackets are made of fibreglass-reinforced polyamide for vibration absorption and maximum service life.



VOLTO 1100 T

10.70 m

VOLTO 1100

10.70 m

10.70 m

10.70 m

# Professionalism – a core competency for the VOLTO.





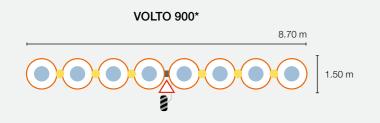
Tedders for every size of farming business.

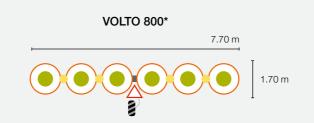
VOLTO 900–700 machines are designed for long-term use by professional operators. This performance class also includes the 900 T and 800 T models: high-power tedders with a chassis, giving them a maximum permitted road speed of 40 km/h. With working widths of 6.70 to 8.70 metres and six or eight rotors respectively, the CLAAS tedder range has the right machine for every size of farming business, and every mower width.



Robust, efficient, and easy on the crop.

A solid chassis of 45° angled box sections provides high strength and stability in all VOLTO machines in the large series. Maintenance-free transmissions save the user time and money, and the MAX SPREAD crop flow system with 29.3° back-angled tine attachment ensures a uniform spread pattern and gentle handling of the crop.









\* also available as a trailed machine with road transport chassis.

Rotor diameter

Working width

# Sometimes, the small players pack the biggest punch.



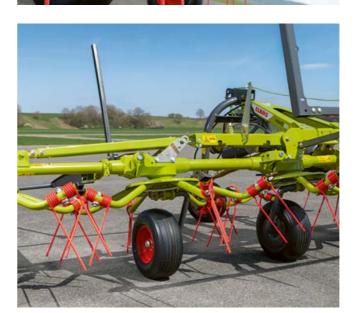
# Quality on a grand scale – plus meticulous attention to detail.







The PERMALINK finger clutch is also fitted on the compact class of VOLTO machines, for continuous power transmission. Thanks to the three-point linkage attachment, these smaller VOLTO models can be ready for action in no time. The CLAAS power drawbar (CKL) ensures stability on slopes and when cornering.



The underlying structure is a solidly built chassis.

To provide the required strength and stability in the field, these machines have a robust chassis, with solid tubular connections between the rotors. This is the basis for the very long service life of VOLTO machines.



Ultra-reliable gearbox.

The compact class includes our proven gearbox technology. The lightweight structure of these transmission systems is also extremely robust, and designed to operate reliably under the high forces acting on the mechanism.

34 3.

"Please turn over". It's as simple as that.





## Optimal crop flow.

The VOLTO 80 and VOLTO 60 models are equipped with the MAX SPREAD crop flow concept. With eight or six rotors, and a working width of 7.70 or 5.80 metres respectively, these are ideal for farmers who need to cover large fields with small tractors.



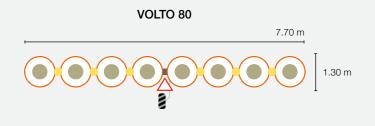
## The hay professionals.

With a rotor diameter of 1.30 metres, these two VOLTO models are genuine hay professionals. The engine speed can easily be reduced to protect the crop, with the same clean spread pattern.

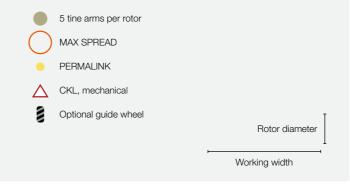


### Ease of turning.

To make your task easier, even when turning in the headland, the VOLTO 60 is fitted with headland stops as standard. They are available as optional equipment for the VOLTO 80.

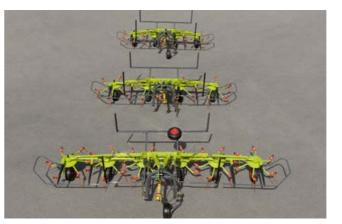






## MAX SPREAD – now standard for our smaller models as well.





## Small – but the complete professional.

With the VOLTO 65-45 model series, the CLAAS machine range also includes a total professional in the lower performance segment. Working widths of 4.50 to 6.40 metres, and four or six rotors make these models ideally suited for customers in this segment.



## The MAX SPREAD crop flow concept.

Turning small players into big performers: through its tines angled at 29.3°, the VOLTO offers superior raking performance, gentle handling of the crop and a clean spread pattern. The farmer gets the twofold benefits of higher productivity and a better-quality outcome.

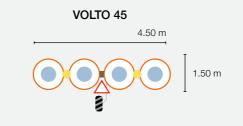


### Robust and durable.

The safety frame brackets made of fibreglass-reinforced polyamide are extremely strong and durable, reliably absorbing the vibrations in the machine structure.









Rotor diameter

Working width

## Whatever it takes – CLAAS Service & Parts.



CLAAS Service & Parts is always there for you, 24/7. service.claas.com



The availability of products from CLAAS Service & Parts may vary according to country.



#### Specially matched to your machine.

Precision-manufactured parts, high-quality consumables and useful accessories. Choose our comprehensive product range to be certain of receiving exactly the right solution to ensure 100% operating reliability for your machine.



### For your business: CLAAS FARM PARTS.

CLAAS FARM PARTS offers one of the most comprehensive ranges of multi-brand parts and accessories for all agricultural applications on your farm.



#### Global supply.

The CLAAS Parts Logistics Center in Hamm, Germany, stocks almost 200,000 different parts and has a warehouse area of over 183,000 m². This central spare parts warehouse delivers all ORIGINAL parts quickly and reliably all over the world.



### Your local CLAAS distributor.

Wherever you are, you can count on us to always provide you with the service and the contact people you need. Your CLAAS partners are on hand in your local area, ready to support you and your machine around the clock. With know-how, experience, commitment and the best technical equipment. Whatever it takes.

Big or small – everyone can be a professional.



110170		Large series	4500 T	1000 TO	1000 T	1,,,,,=	lees	900 T		800 T	loss	1700	Compact ser		60	55	45
/OLTO		1500 TS	1500 T	1300 TS	1300 T	1100 T	1100	900 1	900	800 1	800	700	80	65	60	55	45
Dimensions and weights																	
Working width	m	15.10	15.10	13.00	13.00	10.70	10.70	8.70	8.70	7.70	7.70	6.70	7.70	6.40	5.80	5.20	4.50
Height when parked	m	3.29	3.29	3.29	3.29	3.99	3.80	3.65	3.45	3.55	3.40	3.50	3.39	3.46	3.09	2.56	2.41
Transport width	m	3.00	3.00	3.00	3.00	2.98	2.98	2.98	2.98	2.98	2.98	2.97	2.93	2.75	2.50	2.75	2.75
Transport length	m	6.22	6.22	6.22	6.22	4.22	-	4.22	-	4.22	-	-	-	-	-	-	-
Attachment	Cat.	-	-	-	-	II	II	II	II	II	II	II	II	1+11	II	1+11	1+11
Weight according to spec.	kg	3350	3350	2900	2900	1780	1480	1440	1140	1240	980	890	910	710	720	560	540
Drive line																	
PTO shaft speed	rpm	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540
PERMALINK		_	_	_	_	•	•	•	•	•	•	•	•	•	•	•	•
PERMALINK HD		•	•	•	•	_	_	_	_	_	_	_	_	_	_	_	_
Manually greased transmission		_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•
Grease-filled transmission		_	_	_	_	•	•	•	•	•	•	•	_	_	_	_	_
Oil-filled transmission		•	•	•	•	_	_	_	_	_	_	_	_	_	_	_	_
Rotors	01		4.4	40	40	10	10	0	0	0	0	0	0	0	0		
Rotors	Qty	14	14	12	12	10	10	8	8	6	6	6	8	6	6	4	4
Rotor diameter	m	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.70	1.70	1.50	1.30	1.50	1.30	1.70	1.50
Spreader arms per rotor	Qty	6	6	6	6	6	6	6	6	7	7	6	5	6	5	6	6
MAX SPREAD crop flow concept		•	•	•	•	•	40/40	•	•	•	•	•	•	•	•	•	•
Spreading angle	degrees	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16	14.5/18	12/16	14.5/18	12/16	12/16
Tine overrun	degrees	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+7	-7/0/+
Convenience																	
CLAAS power drawbar (CKL)		-	_	-	-	-	•	-	•	-	•	•	•	•	•	•	•
Guide wheel		_1	_ 1	_ 1	<b>-</b> <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Double castor guide wheel		•	•	•	•	-	-	_	-	-	-	-	-	-	-	-	_
Headland lift		•	•	•	•	0	0	0	0	•	•	•	0	•	•	•	•
Headland swath guard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overnight swath gearbox		-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
Spare wheel		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydraulic connections																	
Folding		$1 \times \text{sa} + 1 \times \text{da}$	1 × da	1 × da	1 × da	1 × da	1 × sa	1 × da	1 × sa	1 × sa	1 × sa	1 × sa					
Hydraulic headland swath guard (optional)		1 × sa	1 × sa	1 × sa	1 × sa	1 × sa	1 × sa	1 × sa	1 × sa	1 × da	1 × sa	1 × sa					
Tyres		4.4	4.4	10	10	0	0	0	0	0	0	0	0	0	0		4
16 x 6.5-8		14	14	12	12	8	8	6	6	6	6	6	8	6	6	4	4
18.5 x 8.5-8		-	_	-	-	2	2	2	2	-	-	_	_	-	-	-	-
215/65-15		_	_	_	-	2	-	2	-	2	_	_	_	_	_	-	_
10.00/75-15.3		_	_	_	_	2	_	-	_	-	_	_	-	-	-	-	_
Guide wheel tyres																	
		•	•	•	•	_	_	_	_	_	_	_	_	_	_	_	-
15/70-18		_		•													
15/70-18 500/55-20		0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-
15/70-18		_				-	- 0	-	- 0	-	0	- 0	- 0	- 0	- 0	- 0	- 0

<sup>1</sup> Guide wheels = transport chassis wheels

CLAAS continually develops its products to meet customer requirements. This means that all products are subject to change without notice. All descriptions and specifications in this brochure should be considered approximate and may include optional equipment that is not part of the standard specifications. This brochure is designed for worldwide use. Please refer to your nearest CLAAS dealer and their price list for local specification details. Some protective panels may have been removed to present the function more clearly in photographs. To avoid any risks, you should never remove these protective panels yourself. In this context, please refer to the relevant instructions in the operator's manual.

# We want to make you the best in your field.

In everything we do, the focus is on you, our customers. We understand your daily challenges. Together with you, we develop agricultural technology ensuring you can farm successfully and sustainably today and in the future. Our digital solutions simplify complex processes and make your work so much more convenient.



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