



On track for soil protection.
JAGUAR TERRA TRAC.



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Perfect for the JAGUAR.

The soil is the most important basis for production in the agricultural sector. As it is impossible to create more of it, ever greater yields have to be obtained from the existing land. This can only be achieved with machines which are bigger, more powerful and, therefore, heavier. Soil compaction is the result. Recognising the need to reduce this effect drastically, we developed the TERRA TRAC drive concept with patented geometry for particularly effective soil protection.

The application of the TERRA TRAC to the JAGUAR is a logical development of our crawler track concept. The JAGUAR TERRA TRAC is the first forage harvester equipped as standard with a function to protect the soil and grassland against driving damage. The headland protection function reduces the contact area by a third when cornering and protects the grass cover. This means that, for the first time, it is possible to make use of the advantages of the crawler track system on all surfaces throughout the whole year.



TERRA TRAC with patented geometry and reliable, durable components



Year-round operation.

Compaction by harvesting machines reduces the pore spaces in the soil, resulting in oxygen deficiency, the risk of waterlogging and reduced soil micro-organisms. Subsequent crops suffer from impaired root growth, delayed development and reduced yield. The JAGUAR TERRA TRAC is ideally equipped to counteract these effects, its integrated headland protection system providing the greatest possible degree of soil protection when operating on grass and arable land.

No need for conversion.

The new crawler track units allow the JAGUAR TERRA TRAC to be used on all surfaces throughout the year without the nuisance of time-consuming conversion between tracks and wheels. Excellent driving characteristics are another benefit of the combination of the crawler track system and a driven steering axle.

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

Month	Harvest time
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

- Grass
- Alfalfa
- WCS (whole crop silage)
- Maize
- Maize cob silage



Gentle on the headland.



Raised crawler track at headland

When turning at the end of the field or when following a tight curve on grassland, the JAGUAR TERRA TRAC automatically reduces the contact area of the crawler tracks by one third. It has been demonstrated that this prevents the tracks from applying a shearing force to the grass cover. Even with the narrowest crawler track units (635 mm), the contact area pressure in fields and meadows is always less than 1.0 bar.

1 LINER 4000 | 15 m swath spacing



- 1 Three track widths
- 2 Suspension and track tensioning system
- 3 Drive wheel
- 4 Support rollers
- 5 Land wheel
- 6 Tyre pressure adjustment system for steering axle



Full contact area 100%

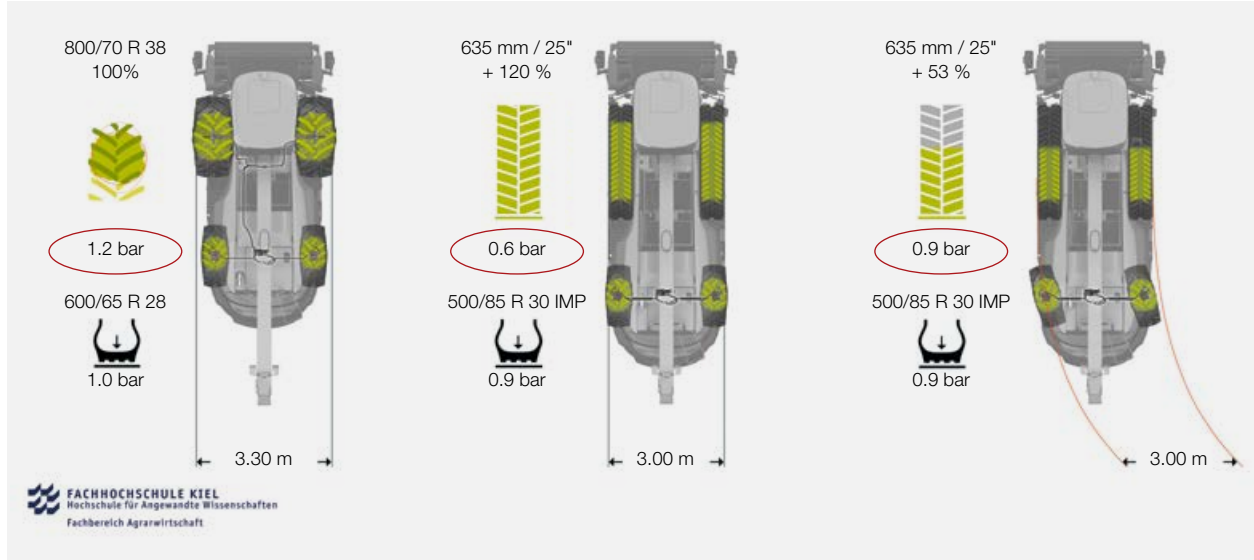


Reduced contact area 66%

When a certain steering angle is reached, the support rollers of the crawler track unit are automatically pushed down hydraulically. Only the drive wheel and the support rollers remain in contact with the ground, thereby reducing the contact area to a significant degree.

Studies of soil compaction and grass cover damage have shown: the results obtained for the JAGUAR TERRA TRAC with headland protection when turning with a reduced track contact area and narrower rear tyres practically match those of the wheeled machine.

Powerful traction.



Soil pressure measurements: wheeled machine compared with TERRA TRAC (Source: Kiel University of Applied Sciences, Prof. Reckleben (2017))

Studies conducted by Kiel University of Applied Sciences confirm the positive effects with regard to soil protection. During straight-ahead running, the soil pressure exerted by a JAGUAR machine equipped with the TERRA TRAC crawler track system is significantly lower than that of a wheeled machine with 800/70 R 38 front tyres and 620/70 R 30 tyres at the rear.

In addition to protecting the soil, the large contact area increases traction drastically. It is precisely when conditions become challenging that the crawler track system really comes into its own, providing high traction for climbing, maintaining directional stability on side slopes and, of course, protecting the soil when the going is soft. Even when operating in the wet, it leaves hardly any trail behind it, thus making the work of the transport vehicles considerably easier.



Reliable operation.



Robust pendulum stop
1 Oscillation range upwards 10°
2 Oscillation range downwards 13°

- +120% contact area (635 mm track compared with 800-series tyres)
- Powerful ground drive with POWER TRAC all-wheel-drive system
- Pendulum stop for high operational reliability
- Tyre pressure adjustment system for steering axle tyres
- Differential lock

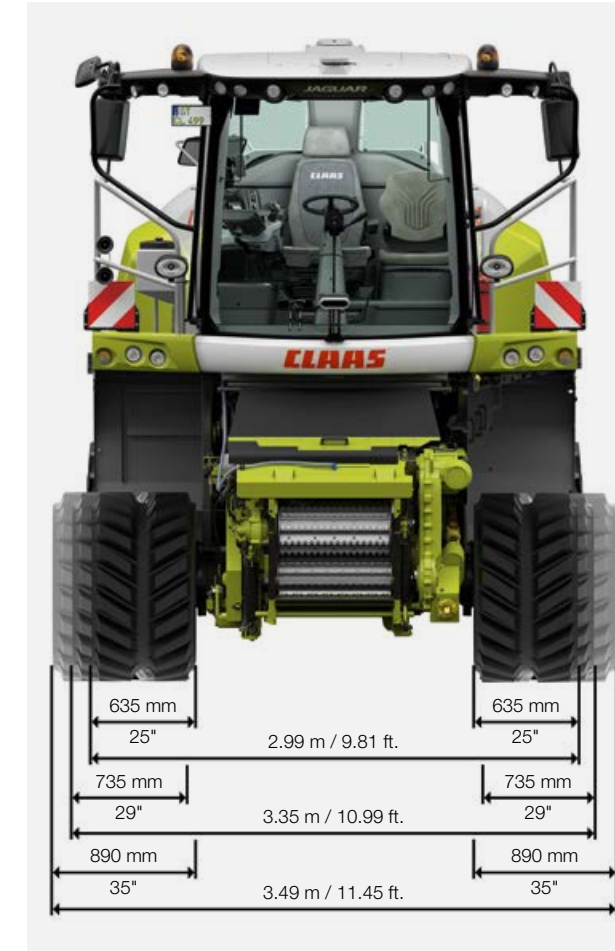


Narrow on the road.



High driving comfort through hydropneumatic suspension

TERRA TRAC helps make for short, convenient and efficient transfer times between fields. You can travel on the road at up to 40 km/h and save fuel thanks to the reduced engine speed. As the machine is registered as a tracked vehicle [in accordance with the German road traffic licensing regulations], it can be operated legally with heavy front attachments.



TERRA TRAC tracks are available in three widths for the JAGUAR

High on-road speed, smooth front attachment guidance and excellent directional stability – the high level of driving comfort provided by TERRA TRAC has convinced farmers and contractors around the world for over 20 years. The newly developed track with a modified rib layout and a large number of ribs is now able to withstand the heavy loads encountered during on-road operation for even longer.

- Only 3 m wide (635 mm crawler track units)
- Up to 40 km/h
- Hydropneumatic suspension
- Engine speed can be reduced
- Integrated ORBIS guide wheel
- Complies with road traffic licensing regulations¹

¹ Please note the relevant authorised widths for road traffic in your country.

Accessible for servicing.



Easily accessible maintenance points

In order to enable optimal ballasting and to accommodate the crawler track units, the length of the chassis of the JAGUAR TERRA TRAC has been extended by 1.01 m. This change – in combination with the low height of the crawler track units – brings decisive advantages with regard to optimising service and maintenance as well as keeping setup times to a minimum.

The corncracker, for example, can be removed from the side above the crawler track. On the left-hand side of the machine, all the maintenance points can be accessed quickly.



Accessible for servicing



Straightforward removal of the corncracker above the crawler track unit



Outstanding technology.

JAGUAR		960
Weight		
Front with 635 mm crawler track width	kg	12400
Rear with 500/85 R30 steering axle tyres	kg	5550
Overall without front attachment	kg	17950
Length without front attachment		
to rear bumper	mm	7690
with discharge spout extension M	mm	7410
with discharge spout extension L	mm	8060
with discharge spout extension XL	mm	8810
Height (normal level)		
to cab	mm	3835
to NIR sensor	mm	3990
Width at front		
with track width 635 mm	mm	2990
with track width 735 mm	mm	3350
with track width 890 mm	mm	3490
Steering axle tyre width		
500/85 R30 IMP 176/164 A8	mm	3000
620/70 R30 178 A8	mm	3080
VF 620/70 R30 172 A8 MI	mm	3080

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Ensuring a better **harvest.**