AXION 900 TT

EASING THE PRESSURE

SCAN TO GET IN TOUCH

CLAAS

AXION 900 TT

THE FIRST HALF-TRACK TRACTOR WITH FULL SUSPENSION

The AXION 900 has always been ready to take on those really big challenges: with powerful engines delivering up to 445 hp, continuously variable CMATIC driving comfort and enormous tractive power. Today we have stepped this up even further with the AXION 900 TERRA TRAC – the first half-track tractor with full suspension.

Make the most of its strengths.

- Get 15% more traction and 50% less ground pressure with TERRA TRAC
- Go from 0.05 to 50 km/h with simple, continuously variable transmission
- Make significant fuel savings with the low-speed concept
- Make you and your drivers even better with CEMOS
- Operate the tractor intuitively via the 12" CEBIS touchscreen
- Perform every turning manoeuvre at the press of a button with the CSM headland management system and TURN IN steering system

Featuring


CLAAS
AXION
CMATIC

More traction

AXION 900 TERRA TRAC. More traction, less ground pressure.

CEBIS with ISOBUS function. Connect your implement and away you go.

SCAN TO GET IN TOUCH

The new CLAAS AXION 960 TERRA TRAC is potentially the best tractor we've seen for some time from the German manufacturer.

Combining arguably the most capable tractor the company produces with its well-proven TERRA TRAC system might have produced a concept a couple of years ago, yet from what we've seen so far CLAAS appears to have done a really thorough job with the development of this tractor.

FMJ, October 2019


CLAAS

More power and torque

LOWER ENGINE SPEED AND BETTER FUEL ECONOMY.

PURE POWER

The AXION 900 TT is designed for transport work as well as field work. That's why it delivers its full engine output – without a boost – for every type of job. Even heavy tillage at low speeds is no problem. Thanks to CMATIC powertrain management, the AXION 900 TT employs a low-speed concept: higher output at lower engine speeds and automatic engine speed adjustment reduce operating costs.

A 6-cylinder, 8.7 litre FPT Cursor 9 engine gets to work under the one-piece bonnet. It meets the requirements of the Stage IV (Tier 4) emissions standard and is equipped with the latest common rail 4-valve technology, charge-air cooling and a variable geometry turbo (VGT).

VARIABLE TURBO

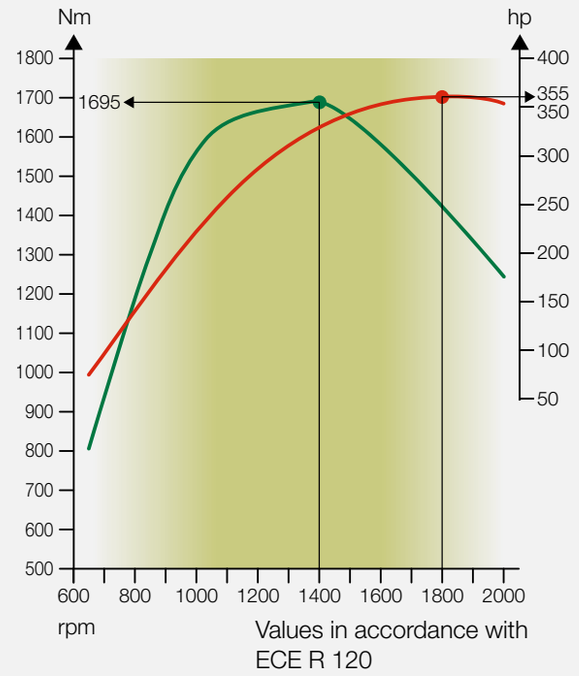
The VGT turbo delivers optimum charge-air pressure at any engine speed. It adjusts to load and engine speed, making 70% of maximum torque available even when idling. Optimised combustion therefore means low fuel consumption and maximum performance.

LOW-SPEED CONCEPT

Higher output with lower fuel consumption – this was the goal CLAAS engineers wanted to achieve when developing the innovative low-speed concept for CMATIC tractors. Further benefits include greater convenience and longer working hours on one tank of fuel:

- Constant output range of 1,700 to 1,900 rpm
- Constant torque range of 1,300 to 1,500 rpm
- 95% of max. output available at the 1,000 ECO rear PTO
- Reduced engine speed for transport work at 40 or 50 km/h (1,400 or 1,600 rpm)
- Two idling speeds (650 and 800 rpm) with automatic adjustment reduce stationary fuel consumption by up to 2 l/h.

AXION 930 TT

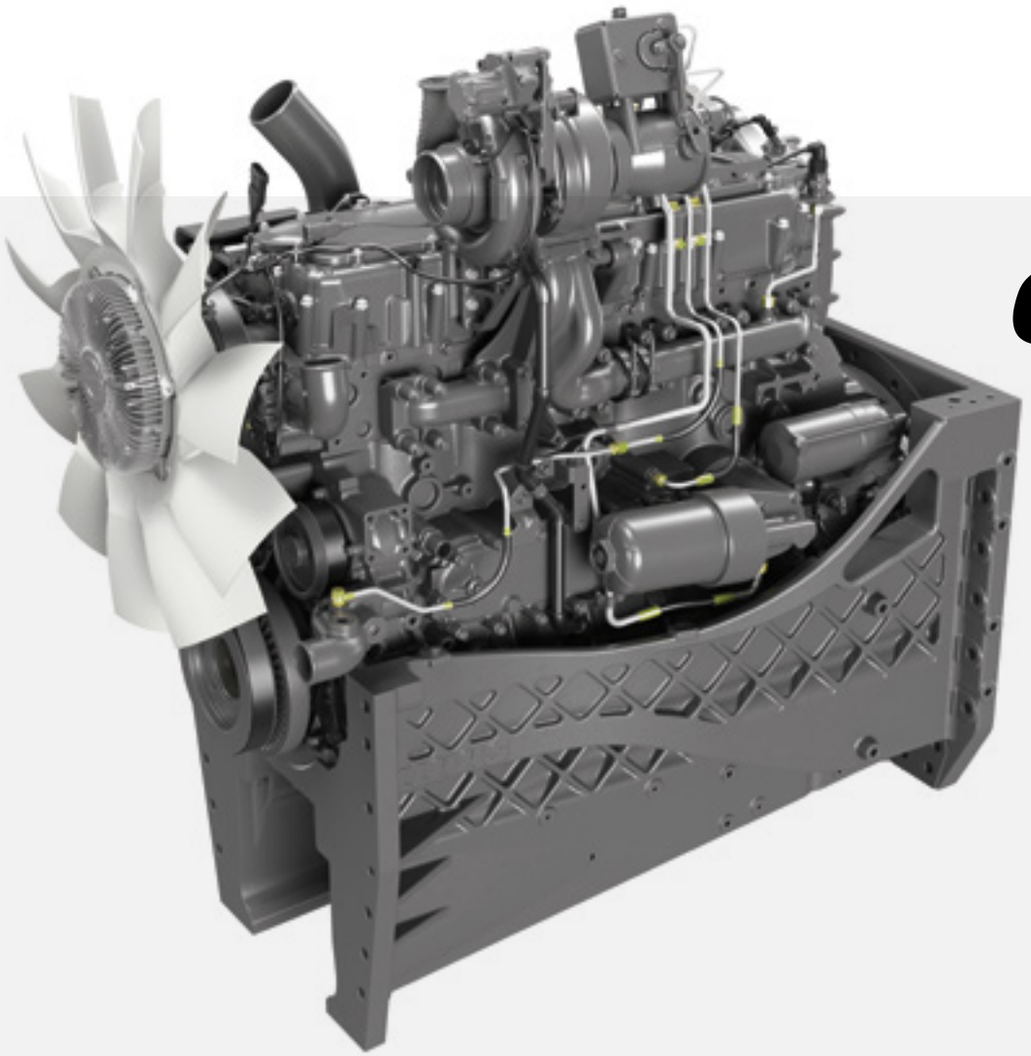


VISCTRONIC – EFFICIENT FAN CONTROL

With Visctronic electronic fan control the fan speed can be precisely aligned with engine temperature and load, ensuring that the engine always runs at the optimum temperature. The reduced fan speed lowers the noise level and saves valuable fuel with no unnecessary impact on output, which can then be converted into tractive power.

The powerful AXION 900 TT range

AXION	960 TT	930 TT
Torque (Nm)	**1,860**	**1,695**
Maximum output (hp) ECE R 120	**445**	**355**



CPS | CLAAS POWER SYSTEMS

“I am very impressed with how well it puts power down. We are not working in ideal conditions, we’re pulling around a considerable amount of additional weight, yet the TERRA TRAC has no problem achieving a target speed of 12.5 kph.”
Martyn Hall, Ramsbury Estate

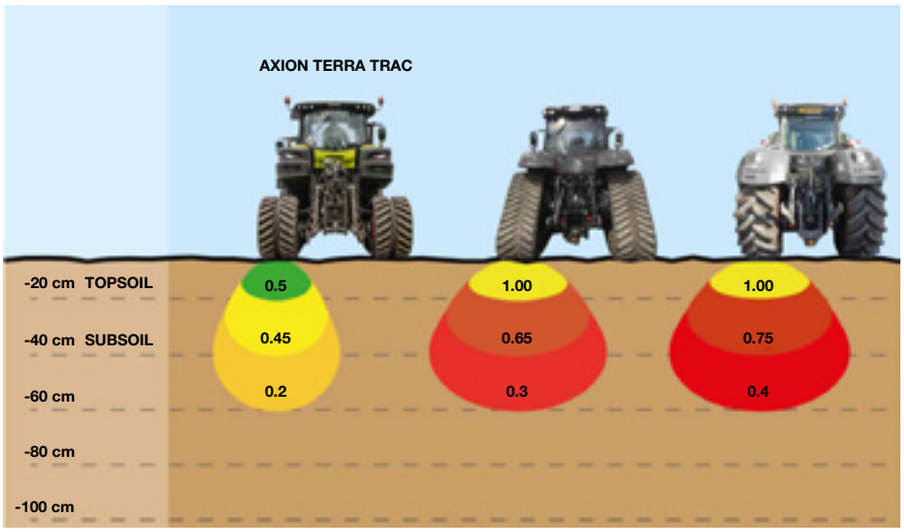
“Its ability to put power to the ground is excellent and even while ploughing the slip indicator didn’t move from zero.”
Daniel Edwards, NE Salmon

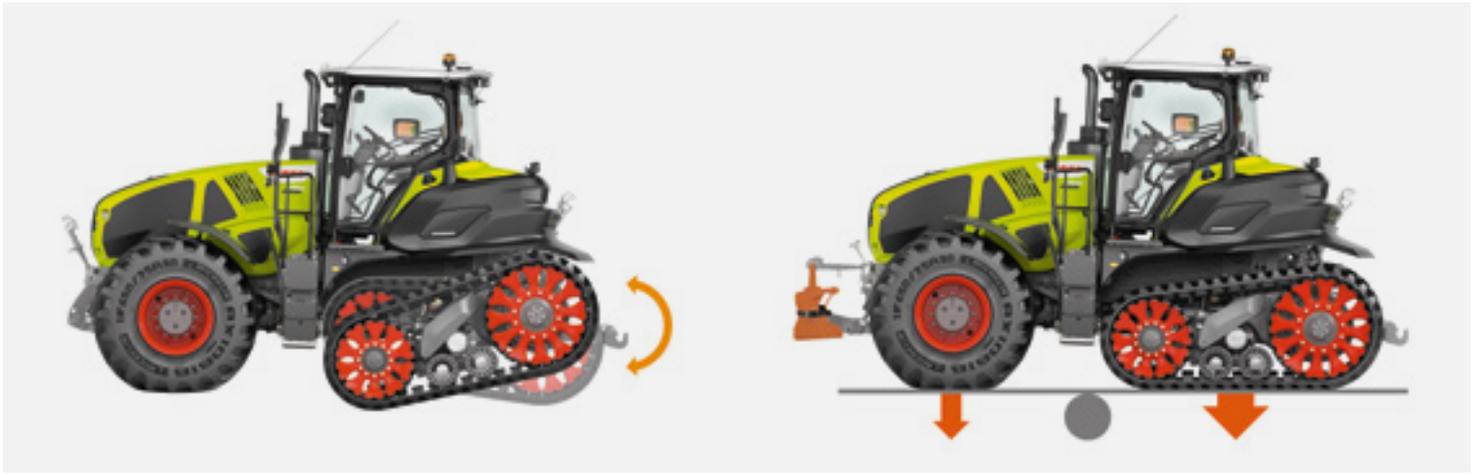
Soil is precious

LOW GROUND PRESSURE SAFEGUARDS FUTURE HARVESTS

The footprint of the crawler track assembly depends on the width of the track. If the front tyre contact area is included, it can be up to 4.0 m². That's 1.0 m² or 35% more than that of a standard tractor. This has a positive impact on your soil: significantly less pressure means less surface compaction. So you spend far less time and energy on restructuring work.

Even more striking is the soil-protecting effect of the AXION 900 TERRA TRAC in deeper soil horizons (below 40 cm) which were not cultivated. Here, 50% less soil pressure was recorded compared to a standard tractor. Effective soil protection ensures high soil fertility in the long term.





MAKE THE MOST OF THE TERRA TRAC CONCEPT

The AXION 900 TERRA TRAC drives like a conventional four wheel tractor and has front-axle steering. This allows drivers to operate the machine intuitively without having to acclimatise, and to take full advantage of all the benefits of the half-track concept.

Powerful traction

The long wheel base and front axle provide effective directional stability. Both crawler track assemblies deliver their full traction potential at all times, even under varying soil conditions.

Steady pressure

The vehicle's weight distribution and the implement's drawbar load have no effect on the behaviour of the TERRA TRAC crawler track units. Their oscillating motion keeps the track parallel to the ground whatever the working conditions.

Strength and stamina

The front axle and crawler track unit with its large angle of oscillation easily cope with very uneven ground on farm tracks and at field entrances. So the vehicle remains stable even when using heavy implements.

"You can see some track slip by the way in which the tread pattern is distorted, but there's no significant footprint left behind."
Martyn Hall, Ramsbury Estate

"Even turning on full lock, the ridges left by the new AXION TT are no larger than from a wheeled tractor so we save time and can get the job finished without waiting for a second tractor to level the headland."
Daniel Edwards, NE Salmon

Even with mounted implements

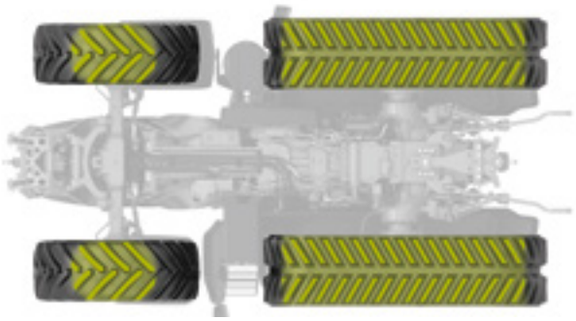
Since the steering does not generate any lateral movement at the rear of the tractor, no sideways load is transmitted to attached implements. So you can use any implements you wish, even mounted ones.

More soil protection on the headland

Even during tight turning manoeuvres at the headland, the crawler tracks do not drift – so the soil remains level.

LESS FRONT BALLASTING

The front tyres on the AXION 900 TERRA TRAC make up an even smaller proportion of the total footprint than those of the standard tractor. Most of the tractive power is transmitted by the TERRA TRAC crawler track assembly. This means that AXION 900 TERRA TRAC needs substantially less front ballasting. So you can drive with lower tyre pressure and protect your soil from the start.



See the AXION 900 TERRA TRAC

Suspension

FULL 4-POINT SUSPENSION

Four suspension points mean that the cab is fully isolated from the chassis, preventing impacts and vibration from reaching the driver. Longitudinal and lateral struts join the suspension points and keep the cab stable when turning corners or braking. The entire suspension system is completely maintenance-free.

SIT BETTER – WORK BETTER

The wide range of seats includes a ventilated premium seat.

- Active seat ventilation makes the seat feel good whatever the weather
- Suspension automatically adjusts to the driver's weight

PROACTIV FRONT AXLE SUSPENSION – COMPLETE COMFORT AUTOMATICALLY

The suspension adjusts to tractor loading and automatically remains in the central position. Changes in load due to braking and turning manoeuvres are also compensated. Parallelogram axle suspension and 90 mm spring travel guarantee a smooth ride.

VIBRATION DAMPING

Heavy implements mounted on the front put a strain on the tractor as well as the driver. The front and rear linkage are both equipped with vibration damping to compensate for peak loads during transport operations and when the attached implement is raised at the headland.

"I'm very impressed with by the ride comfort. The independent track suspension provides a very smooth ride and the tractor seems to almost float over the ground."

Martyn Hall, Ramsbury Estate

See the TERRA TRAC comfort suspension in action

MORE TRACTION WITH COMFORT

The AXION 900 TERRA TRAC provides the same suspension points for the cab, front axle and linkage. The damping effect of the rear tyres is replaced by the unparalleled hydraulic suspension of the TERRA TRAC. So you can enjoy the same level of comfort in the field and on the road as the wheeled model.

"It's just as comfortable on the road as it is in the field and at almost 50kph it doesnt 'nod' as most large wheel tractors would and feels far more stable."

Daniel Edwards, NE Salmon

“Floats over t

he ground”

Martyn Hall

Ramsbury Estate, Marlborough, AXION 960 TT

AXION IN ACTION

We recently joined Duncan Lee, farm manager of Ramsbury Estate near Marlborough, who has been evaluating a pre-production example of the CLAAS AXION 960 TERRA TRAC.

“We grow approximately 2700ha of combinable crops,” reveals Duncan. “This estate is a CLAAS stronghold and we work very closely both with our local dealer and CLAAS UK. The back-up we get is fantastic and we’ve always found CLAAS kit to be very reliable. The only equipment we own outright are our two LEXION 780 combines and our primary cultivation and drilling tractors. All the other tractors and telehandlers on the estate are here on long-term, two-year hire contracts from CLAAS,” he adds.

In recent years, the Ramsbury Estate has relied on a twin-track Challenger MT 875E for primary cultivation work. Drilling duties with the estate’s 8m Vaderstad Rapid 800S seed drill have been handled by a CLAAS XERION 3800 (380hp), which was also used for fertilising until being sold recently.

“We previously used the Challenger on the drill but we found using a large twin-track tractor scuffed like mad on the headlands. The XERION actually handled the drill very well but the opportunity to evaluate the new AXION 960 TERRA TRAC has already revealed that the half-track has a lighter footprint than the XERION and similar pulling power to the Challenger without the tracks scuffing on the headlands.”

BEHIND THE WHEEL

The man responsible for driving the AXION half-track is the Ramsbury Estate’s assistant farm manager Martyn Hall. A seasoned drill man with years of experience on both tracklayers and wheeled machines, Martyn is complimentary about the new TERRA TRAC. “I am very impressed with how well it puts the power down,” he says. “We are not working in ideal conditions. You can see by the amount of mud on the drill that we’re pulling around a considerable amount of additional weight yet the TERRA TRAC has no problem achieving a target speed of 12.5kph.

“With a wheeled tractor the transmission would be waiting for the wheels to catch up in order to find traction. Even in these conditions, with the half-track it’s the transmission that has to adjust itself to cope with the grip of the tracks. Yes, you can see some track slip by the way in which the tread pattern is distorted, but there’s no significant footprint left behind and I have the wheel mark eradicators set so they’re barely tickling the surface.

“I am also impressed by the ride comfort,” adds Martyn. “The independent track suspension provides a very smooth ride and the tractor seems to almost float over the ground.

“You can feel the braking effect when turning, but in damp conditions like this you still get a little bit of mud flinging from the front wheels during sharp turns,” explains Martyn. “Having said that, the turning circle is surprisingly good for a tracklayer and you certainly don’t get any of the scuffing you do with a conventional twin-track machine.”

According to Martyn, during its first 100 hours on the estate so far the AXION 960 TERRA TRAC’s fuel consumption has compared very favourably with the slightly less powerful XERION 3800. According to his figures, the AXION TERRA TRAC is burning around 54 litres an hour on the seed drill, while the XERION 3800 previously used around 55.5 litres an hour.

“The new CLAAS AXION 960 TERRA TRAC is potentially the best tractor we’ve seen for some time...”

ONGOING ASSESSMENT

“Much of the land we farm is full of flint, which is notoriously hard on tyres and tracks,” states Martyn Hall. “The shorter overall track length of the TERRA TRAC units (in comparison to the Challenger) could potentially increase the amount of wear and reduce the service life of the tracks. With previous experience of using rubber tracks in this environment we will be monitoring this very closely.

“The new CLAAS AXION 960 TERRA TRAC is potentially the best tractor we’ve seen for some time from the German manufacturer. Combining arguably the most capable tractor the company produces with its well-proven TERRA TRAC system might have produced a concept a couple of years ago, yet from what we’ve seen so far CLAAS appears to have done a really thorough job with the development of this tractor.”

Introduced as a concept tractor at AgriTechnica 2017, the CLAAS AXION 900 TERRA TRAC has since been subjected to 35,000 hours of testing and is now in full production.

CLAAS CMATIC

EFFICIENT AND USER-FRIENDLY

CMATIC is the name of the continuously variable transmission technology used in CLAAS tractors. In the AXION 900 TT series a ZF Terramatic transmission provides efficient conversion of engine power. In this split-power, continuously variable transmission, the four mechanical ranges are automatically selected by multidisc clutches. There is no need to shift between ranges manually.

The high mechanical component in the power transmission provides outstanding efficiency and low fuel consumption in every speed range.

SUPERIOR TRANSMISSION CONTROL

Powerful acceleration, smooth deceleration and a fast response to changes in load: CMATIC powertrain management shows its capabilities in all conditions and for every task. Stay relaxed and focused throughout the working day so you can concentrate on more important things – CMATIC does the rest for you.

EXPLOITING REAL POTENTIAL

The full power of the transmission can be used at speeds from 0.05 to 50 km/h. The high level of mechanical power transmission also delivers outstanding driving force in reverse. What's more, every gear ratio can be used at every engine speed, giving AXION 900 TT tractors enormous potential for use all year round.

With engine speeds of 1,600 rpm at a top speed of 50 km/h and 1,400 rpm at 40 km/h, the AXION 900 TT also demonstrates its capabilities in transport operations. If the accelerator is not depressed, the transmission is in powered zero mode and maintains its position without creeping or rolling. This means that the tractor can start up safely and easily at steep field entrances or road junctions, even with a full load.

SCAN TO GET IN TOUCH

CPS | CLAAS POWER SYSTEMS

CEBIS

CLEAR, LOGICAL LAYOUT

In both the CEBIS and CIS+ versions, many functions can be directly controlled using the rotary switches and buttons on the B-pillar:

A PTO speed selection

B Controls for electronic rear linkage control system

C Rear linkage status display

D Rear linkage settings

AN ARMREST THAT SETS NEW STANDARDS

All the main controls are integrated into the right-hand armrest:

1 CMOTION multifunction control lever

2 Control panel for drive mode, range changing and two engine speed memories with fine adjustment

3 CEBIS terminal with 12" touch display

4 ELECTROPILOT with two double-acting spool valves and two F buttons

5 CEBIS control panel

6 Working depth adjustment for front and rear linkage

7 Front and rear PTO activation

8 Hand throttle

9 Transmission in neutral, activate front linkage

10 Electronic spool valves

11 Four-wheel drive, differential lock, automatic PTO engagement/disengagement, front axle suspension

12 Main switch: battery, electronic spool valves, CSM, steering system.

The height and position of the armrest can easily be adjusted to the driver's requirements.

Functions that are used less frequently, such as PTO speed pre-selection and the main switches, are located to the right of the driver's seat. When the driver's seat is rotated, the electronic linkage control system can be operated comfortably with an excellent view of the attached implement.

Fine adjustment of the settings can then take place while work is in progress. Two additional buttons enable you to raise and lower the rear linkage manually for easier implement attachment.

"The new CEBIS display is easy to use – I couldn't fault it."

Daniel Edwards, NE Salmon

Work efficiently and in c

THE DRIVING FORCE

The TERRA TRAC drive concept with its patented geometry combines reliable, durable components with sophisticated technology.

Friction-locked drive

Instead of an interrupted transmission of the drive force being provided by separate teeth, a continuous frictional drive connection is provided across the entire track.

Automatic track tensioning

The strong track is tensioned by an additional hydraulic ram which prevents slippage. The tension is monitored electronically at all times.

Large drive wheels

Large diameter ensures greater contact area with the track and enables effective power transmission.

Self-cleaning drive wheel and guide wheel

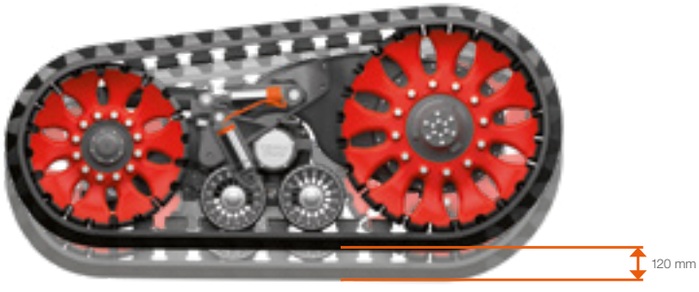
Spoked wheels fitted with individual rubber pads maintain close contact with the track surface. Since they are self-cleaning, they reliably transmit the driving power even under extremely muddy conditions.

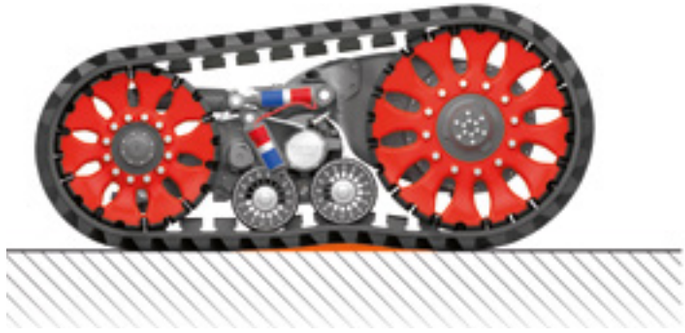
Hydropneumatic suspension

The smart suspension system with a 120 mm travel provides a high level of driving comfort while keeping mechanical loads to a minimum. Idler wheels and support rollers with independent suspension enable ground speeds of up to 40 km/h and noticeably enhance cornering stability.

Wheels with independent suspension

Independent wheel suspension has distinct advantages on undulating soil surfaces. Maximum traction is achieved by keeping the entire length of the track in closer contact with the soil. And more even distribution of pressure provides even better soil protection.





The cab comfort is fantastic and having functions such as cruise control, the CSM sequence management and ISOBUS and steering on the S10 screen makes his life so easy. The difference in the cab environment is night and day – it's worlds apart."

Charles Long, R L Long

omfort

Two track widths

With track widths of 635 or 735 mm and corresponding front tyres, you can adapt the AXION 900 TERRA TRAC precisely to your needs. Whichever track width you choose, the tractor will not exceed the statutory road width of 3.0 m.

With a permissible gross weight up to 22 t and a load capacity of almost 6.0 t, the AXION 900 TERRA TRAC can handle any mounted or trailed implement.

860 litres of fuel

Two fuel tanks with a combined volume of 860 l are mounted above the rear mudguards. These tanks offer the driver unrivalled autonomy by minimising the need for refuelling stops. So instead of wasting valuable time at the pump, they can spend it productively on the field.

“Fuel economy is considerably better.”
Charles Long, R L Long

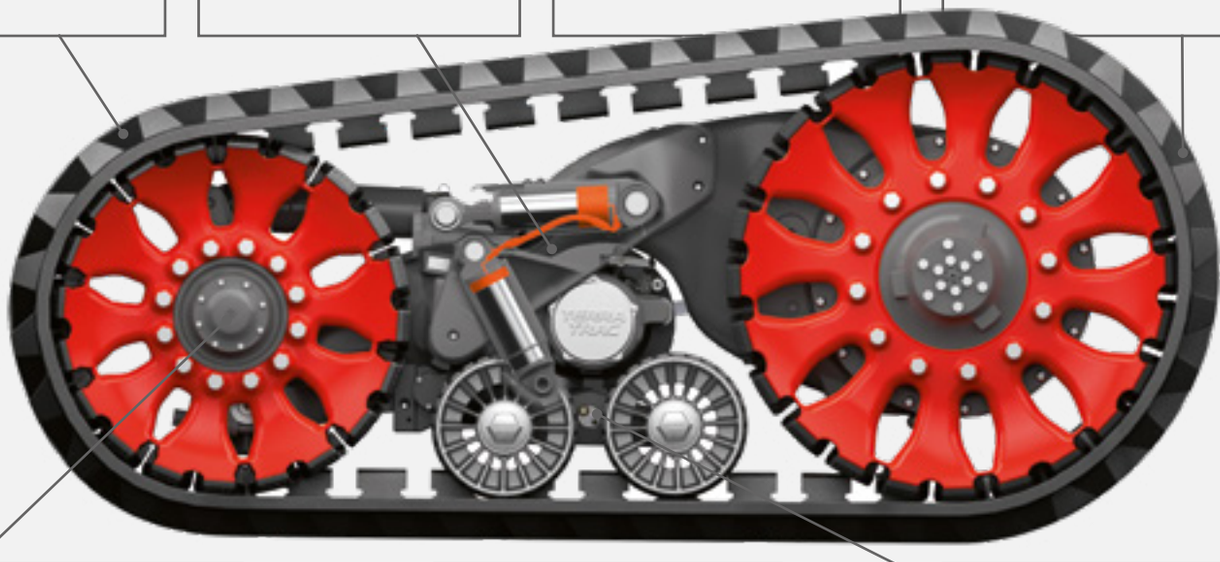
See the TERRA TRAC in action

The track widths available on the new AXION 960 TERRA TRAC are 635mm, 735mm and 890mm.

The CLAAS AXION 900 TERRA TRAC introduces the world’s first half-track tractor with independent track suspension and three-stage height adjustment as standard.

Conventional trumpet housings have been replaced with ‘saxophone’ castings, which bridge the difference in height and length between the conventional wheel and the new track unit.

The AXION TERRA TRAC features an intelligent steering system, which applies an adjustable braking bias to the inside TERRA TRAC to aid with tight headland turns.



TERRA TRAC units are modified versions of those on the LEXION combine with a larger drive wheel and a slightly smaller front idler. The tracks are identical to those used on the LEXION combines.

The cab is transplanted directly from the AXION 900 wheeled models. Updates include the latest CEBIS touch-screen technology, which integrates a silhouette of the tractor.

Centre rollers are forced down by hydraulic pressure using twin hydraulic cylinders with a closed displacement hydraulic system. Slots in track wheels are designed to remove debris.

“Impressed from the start”

Ed Salmon & Daniel Edwards

Norfolk, AXION 960 TT

Norfolk farming business NE Salmon moved to Great Fransham near Dereham in 1955. They have been using tracked tractors for all cultivations since a Doe Triple-D was replaced by the family's first steel-tracked machine. "My grandfather and father expanded the farm from just 100ha, preferring tracked tractors to wheeled alternatives as they coped better with our challenging soils and allowed them to get the work done," says Ed Salmon. "When the first rubber-tracked Track Marshall became available, offering extra convenience and ease of transport, they moved away from steel tracks, and have remained with rubber tracks since, for all cultivations and drilling."

THE BEST TRACS ON THE MARKET

"The team at MANNS knew we were looking at tracked tractor options and asked if we would be interested in trying a new half-track type system which they felt would provide a solution," stated Edward Salmon. "Our combine has CLAAS tracks and we can't fault them; we know other manufacturers also fit CLAAS tracks to products such as potato harvesters and we believe they are the best on the market." A new AXION 960 TT with half-tracks was delivered to the farm in August 2019, just in time for autumn cultivations and drilling.

"It is just what we have been waiting for," confirms Ed. "We put it on our 7f semi-mounted plough and we couldn't fault it. Then, as soon as we started drilling, it was used on our Vaderstad 8m drill and it's excellent. Having this much power in this configuration makes it incredibly versatile so we will be selling one of our twin-track crawlers and using the AXION for ploughing, cultivations and drilling."

IMPRESSED FROM THE START

Main machinery operator Daniel Edwards says he was sceptical at first. "I hadn't used a CLAAS tractor previously so didn't know what to expect, but as soon as I drove it for the first time I was impressed. It performed well and the comfort amazed me. The cab was excellent, I liked the controls – including the CMotion joystick which is the same as our combine. The new CEBIS display is easy to use – I couldn't fault it."

Apart from the wheels, the farm's new TT version is almost identical. "If anything, now I have used the tracked version, I prefer it," comments Daniel. "It's quiet, and just as comfortable even on the road. It's very stable, the tracks feel planted to the ground and there is none of the swaying which occurs with large tyres.

"One thing I really like is its ability to follow the ground contours. Along the full track length it's obvious that the weight is evenly applied as the tracks and rollers mould around every undulation. Its ability to put the power to the ground is excellent and even while ploughing the slip indicator didn't move from zero. It's just as comfortable on the road as it is in the field and at almost 50kph it doesn't 'nod' as most large wheel tractors would and feels far more stable. It's easy to forget that it's on rubber tracks rather than wheels."

TIGHT TURNS

"Previously we drilled the main field, then recultivated headlands before drilling, otherwise we would be thrown out of our seat each time when the field was sprayed later in the season," adds Daniel. "Even turning on full lock, the ridges left by the new AXION TT are no larger than from wheeled tractors, so we save time and can get the field finished without waiting for a second tractor and operator. Obviously a twin-track crawler can turn on the spot, but for practical field work the CLAAS tractor turns just as tight."

SUCCESSFUL DRIVE SYSTEM

"I think the drive system is a key part of its success," continues Ed. "Unlike conventional crawlers which disconnect the drive to one track while turning, the CLAAS design uses electronic power distribution maintaining drive through both tracks during the turn. This helps maintain traction and reduces slip and scuffing."

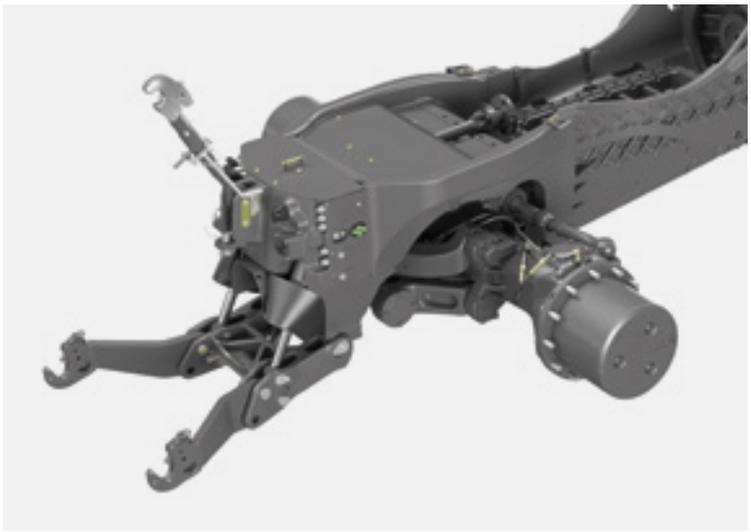
Ed is already considering further CLAAS products for the future, and a demonstration XERION 5000 had been trialled the week before. "Moving to CTF provides new opportunities and the big XERION's power means we could pull a wider cultivator and remain in our wheelings. The MANNS local depot is nearby and our sales representative, Thomas English looks after us well.

"We have CLAAS UK's Saxham headquarters under an hour away and Tractor Brand Manager Steffan Kurtz has also been keen to work with us and the new AXION TT. The product range is good and the brand is a logical choice."

Pictured (l-r) Daniel Edwards, Ed Salmon and MANNS sales representative Thomas English.

“It’s easy to forget that it’s on rubber tracks rather than wheels.”

More versatility. More ap



FRONT LINKAGE

Both AXION 900 TT models can be factory-fitted with two different front linkages:

- 5.0 t for implements and ballasting
- 6.5 t for particularly heavy implements

The modular construction means that retrofitting can be carried out easily.

The AXION has a fully integrated front linkage, designed by CLAAS specifically for this power class. The front axle carrier and the special structural component for the engine are designed to absorb any forces generated, meaning no additional supports or rails are required.

A 1,000 rpm front PTO is also available. It is effortlessly engaged by pressing a button in the cab.

Compact construction

- Short distance between front axle and coupling points
- Good implement handling and short overall length

“Having this much power, in this configuration (with a Vaderstad 8m drill) makes it incredibly versatile so we will be selling one of our twin-track crawlers and using the AXION TT for ploughing, cultivations and drilling.”

Ed Salmon, NE Salmon

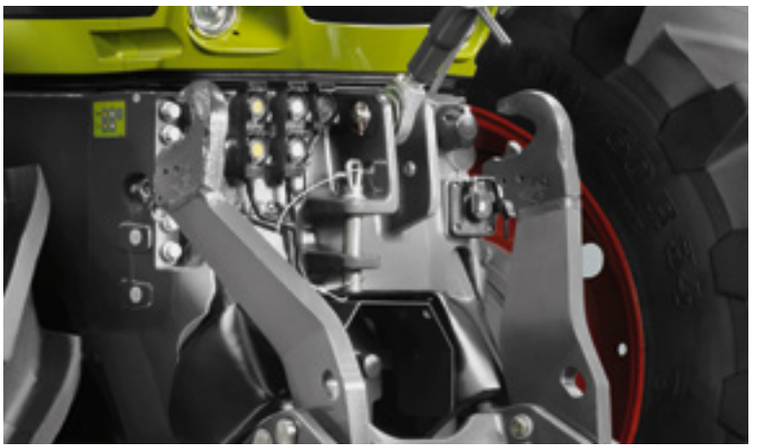
External controls for the front linkage and one spool valve.

pplications

ALWAYS CONNECTED

Optional hydraulic and electronic interfaces for many applications are incorporated into the front linkage:

- Up to two double-acting spool valves
- Free-flow return line
- 7-pin socket
- ISOBUS connection or 25 A socket



FRONT LINKAGE WITH POSITION CONTROL

In the CEBIS version a position control system is optionally available for the front linkage, enabling you to work accurately with front-mounted implements.

The operating position is adjusted with a rotary knob on the armrest, and you can limit the lifting height and set the lifting and lowering speed in the CEBIS. The front linkage can be used in single- or double-acting mode.

"As a versatile tractor for cultivations the AXION TT is fantastic, but due to its versatility that has now opened up a lot of other opportunities to get more hours out of one machine."

Paul Francis, R L Long

SCAN TO GET IN TOUCH

In control GPS

S10 – 10.4" DISPLAY **S7 – 7" DISPLAY**

THE WAY YOU WANT IT

With the CEBIS version of the AXION, you can use the integrated terminal to control ISOBUS-compatible implements. Alternatively, portable displays from CLAAS offer flexible control options for ISOBUS and steering systems for all cab versions. You can also transfer the terminal from a tractor or self-propelled harvester to another machine, depending on the season or job in hand. Fit your AXION with the equipment you need straight from the factory or as a retrofit option.

S10 terminal:

- High-resolution 10.4” touchscreen terminal
- Steering and ISOBUS functions
- Up to four cameras can be displayed

S7 terminal:

- High-resolution 7” touchscreen terminal
- Steering functions

FUNCTION BUTTONS

AXION TT tractors have up to ten F buttons to which different functions can be assigned in the CEBIS or CIS colour display. The current assignment can be viewed at any time in the CEBIS or CIS display window. The buttons are assigned to the corresponding function using the S10 or other ISOBUS terminals, enabling each driver to customise tractor operation to suit individual requirements.

AXION 900 TT– AEF-COMPLIANT

The Agricultural Industry Electronics Foundation (AEF) is a partnership between approximately 150 companies, associations and organisations. Its aim is to harmonise development standards in electronic systems for agriculture, such as ISOBUS components. These systems comply with the ISO 11783 standard, but more detailed AEF guidelines are also being developed. The AXION 900 TT was developed according to these requirements and supports the ISOBUS functionality specifications ISO UT 1.0, TECU 1.0, AUX-O and AUX-N for ISOBUS implements.

IMPROVE THE QUALITY OF YOUR WORK

CLAAS steering systems take the pressure off the driver. They show in advance which direction to take, or automatically steer the tractor along the best possible path. Mistakes and overlapping are eliminated. Studies have shown that a modern parallel guidance system can save up to 7% on diesel fuel, machine costs, fertiliser and crop protection products.

The GPS PILOT automatic steering system is controlled by the S10 and S7 touchscreen terminals which feature a very simple and user-friendly menu-guided interface.

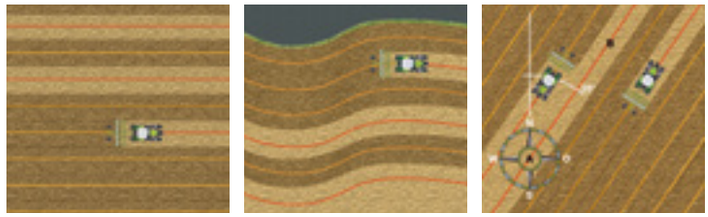
AUTOMATIC STEERING AT THE HEADLAND

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.

CORRECTION SIGNAL TO MEET INDIVIDUAL NEEDS

The design of the CLAAS range enables you to extend your system easily at any time. This applies just as much to the terminal technology as to the use of today’s essential correction signals.

CLAAS steering systems can be used with GPS and GLONASS satellite systems to enhance their flexibility and operational capabilities.



THE CORRECTION SIGNALS.

RTK NET (± 2-3 cm)

- Correction signal via mobile phone network
- Dual-frequency signal
- Unrestricted working radius
- Highest possible repeatable accuracy
- Subject to licence
- RTCM 3.1
- GPS and GLONASS reception

EGNOS / E-DIF (± 15-30 cm)

- Free of licence fees
- Base accuracy

For further information about steering systems, see the CLAAS Steering Systems brochure or ask your CLAAS dealer.

User interface

Operating time analysis

- Working time analysis
- Reduce downtime
- Review machine settings
- Optimise fuel consumption

Remote monitoring

- Position displayed in Google Earth®
- Current activity

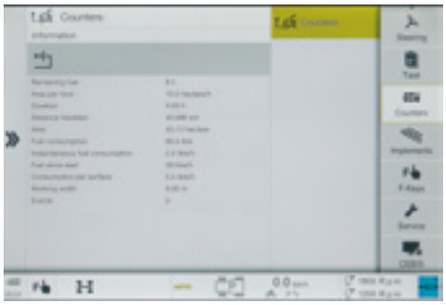
Data collection

- Automatic data collection for documentation
- Secure storage on central server
- Standard interfaces for data export from TELEMATICS

Remote diagnostics

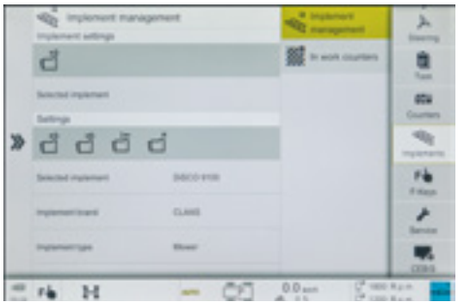
- Maintenance planning
- Remote diagnostics with CDS

For more information about TELEMATICS, see the CLAAS TELEMATICS brochure or ask your CLAAS dealer.



FIELD MANAGEMENT WITH CEBIS

Up to 20 jobs can be set up and stored in CEBIS in order to produce documentation for the work done. Enter the working width first, then you can start area calculation and the fuel consumption display per hectare. To get the most accurate results, the speed can be measured by radar.



IMPLEMENT MANAGEMENT WITH CEBIS

With CEBIS, details of up to 20 implements can be recorded. All the preset values are permanently assigned to the specific implement.

- Settings for transmission and hydraulic spool valves
- Four CSM sequences
- Area calculation – mode and activation
- Working width of attached implement
- Transfer settings from one tractor to another via USB stick

This saves on unnecessary adjustment tasks when changing implement or driver. Just attach the implement, load the implement in CEBIS and start work.

DATACONNECT: THE FIRST DIRECT CLOUD-TO-CLOUD SOLUTION FOR AGRICULTURAL MACHINERY

Until now, farmers with mixed machine fleets have been able to display, process and document data only at the level of individual machines or on manufacturer portals. With DataConnect, CLAAS, 365FarmNet, John Deere, Case, Steyr and New Holland have created the first direct multi-manufacturer, industry-wide open cloud-to-cloud solution. The machines transmit their data via an interface, allowing you to control and monitor your entire machinery fleet in the CLAAS TELEMATICS portal.

Charles Long & Paul Francis, R L Long (Farms) Ltd, Suffolk, AXION 960 TT

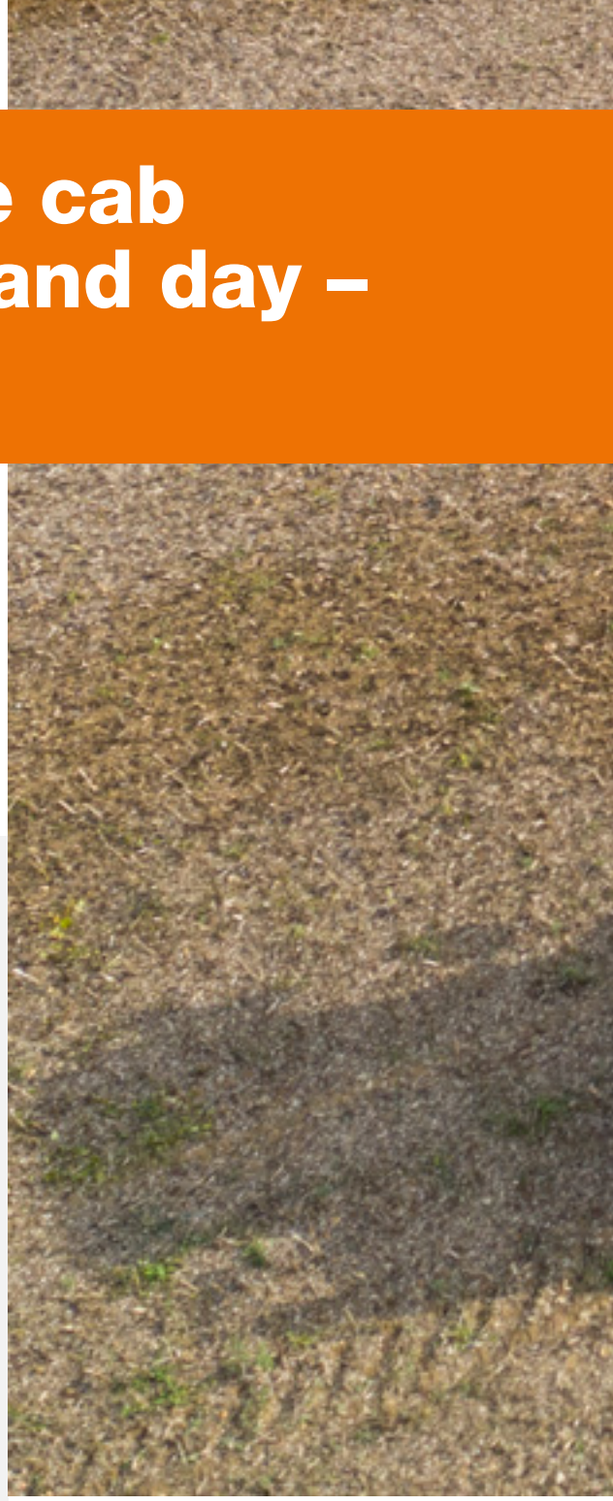
“It’s a game changer”


AXION
CLAAS
SMARTBOX
CHERRY

“The difference in the cab environment is night and day – it’s worlds apart.”

Charles Long & Paul Francis

Suffolk, AXION 960 TT



When’s a tracked tractor not a tracked tractor? When it’s an AXION TT. This is certainly the case for R L Long (Farms) who since last August have been using a pre-series 445hp AXION 960 TERRA TRAC for both arable and vegetable cultivations. During this time it has revolutionised the role of a tracked tractor on the farm and turned conventional thinking toward tracks on its head.

BEST OF BOTH WORLDS

While the AXION TT’s half-track format still provides all the benefits of low compaction and high traction that come from a tracked tractor, they have found it still retains all the driving characteristics, manoeuvrability, comfort and fuel economy of a conventional tractor. It provides the best of both worlds.

Tracked tractors have been part of the Long’s tractor fleet for over 10 years. Of the 1,800 ha they farm at Fornham St Martin near Bury St Edmunds, 400ha is down to potatoes and onions. Often grown on rented ground, mainly along the A14 corridor from Newmarket towards Stowmarket, road transport is an important consideration.

Looking to replace one of their two Challengers last Autumn, Farm Director Paul Francis says that while he initially intended to replace like-for-like, looking at the latest version he felt it was much the same as the old version and had not progressed as much as he would have liked.

“As they are just down the road, out of interest I spoke to MANNS at Saxham about the AXION TT. Looking at it I thought it looked right and answered a lot of the problems we had with the Challenger, so agreed to try one of the pre-series machines.

“Once it landed on the farm and we put it to work, we knew it was right and were immediately impressed with it right from the ‘get-go’. It has certainly completely changed how we look at tracked tractors, with the result we have now got rid of the second Challenger and another conventional tractor, which has been replaced by a 415hp tractor that can be used with row crop wheels.”

RIDE COMFORT

“The biggest difference is the ride comfort, especially on the road – it’s not nearly such a bone-shaker. Richard who drives it loves it. The cab comfort is fantastic and having functions such as cruise control, the CSM sequence management and ISOBUS and steering on the S10 screen makes his life so easy. The difference in the cab environment is night and day – it’s worlds apart.

“In the field the AXION TT performs just as well as the Caterpillar, even though it is about two tonnes lighter, but it has all the characteristics of a conventional wheeled tractor,” adds Charles Long. “The overall footprint is very similar, but the AXION TT is better balanced, plus it’s easy to add or remove weight. The 710 front tyres are well matched to the 735mm tracks and in the wet they pack the ground down ahead of the tracks so they grip better.”

FUEL ECONOMY

“Fuel economy is also considerably better. Typically the AXION will use about 50-60 litres an hour, compared to the Challenger’s 70 to 80 litres. The CVT transmission is far more efficient and the 50kph road speed is a great improvement. At times we can be changing implements twice a day, but even if it is down at Newmarket that’s not now an issue.”

Taking on heavy cultivations from the Challenger, the AXION TT will typically

be paired with cultivation equipment such as a 6.0m Horsch Terrano or 9.0m Dalbo Rollomaximum, in addition to drilling using a 9.0m Pronto, pressing using a 6.0m Vaderstad Rexus or ridging up for potatoes.

“Basically it does everything from tickling the ground to ridging at 18 inches,” says Charles. “The excellent suspension is certainly noticeable when pressing with the Rexus, as you do need speed in order to do a good job. The AXION TT will comfortably pull it at 12kph, which you certainly wouldn’t want to do with a Challenger.

“Minimising ground compaction is very important and we need to work deep and work at the right times to avoid damaging the soil. The AXION TT spreads its weight very well and being lighter is definitely a benefit. In a straight pull there’s very little difference between the two, but the AXION TT is considerably better on the headland when turning.

“Wheelslip is negligible and you get all the grip but without leaving any ‘dishing’. However, when turning it behaves like a conventional tractor and hardly leaves a mark. It certainly doesn’t leave any ridges of soil like the Challenger that then have to be levelled out again.”

MORE HOURS OUT OF ONE MACHINE

“As a versatile tractor for cultivations the AXION TT is fantastic, but due to its versatility that has now opened up a lot of other opportunities to get more hours out of one machine,” states Paul. “The conditions in the Autumn and Spring meant it was tied up with cultivations, but because it has ISOBUS with section control, we will certainly look at using it with our 10t Bredal spreader for base dressing in the Spring. There is no reason why it could not be used for haulage or grain carting if necessary, it’s been extremely successful.”

A true game changer

THE AXION 900 TT

Two TERRA TRAC models available – the 445hp AXION 960 and the 355hp AXION 930.

Oscillating track system keeps ground contact to a minimum.

Tracks available in widths of 635mm, 735mm and 890mm providing 35% less ground pressure compared to standard tyres.

The only truly suspended track system available today, coupled with PROACTIV front suspension and 4 point cab suspension.

The AXION TERRA TRAC is the first half track unit to have a fully suspended track system, following 30 years of experience of rubber track development for the CLAAS LEXION. Combined with the front axle and 4-point cab suspension, the track system not only aids ground contact and reduces wheelslip, but gives the operator an unprecedented level of comfort compared to other tracked tractors.

A true game changer.

Get in touch today

If you would like further information on the AXION 960TT or an in-field demonstration, please scan the code or email cuk.harvest@claas.com quoting your name and postcode, and your local CLAAS dealer will be back in touch with you.

claas.co.uk

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CLAAS