

XERION 3300  
Reports on technology in practice

**CLAAS**

# TEAM 03.06



The power of one





The ability to get more done in less time using fewer machines is what successful farming is all about. The new XERION goes beyond what traditional standard tractors have to offer, converting 300 HP tractive power into efficient productivity in various operations.

In this issue of CLAAS TEAM, we feature reports from farmers on their first-hand experiences with the XERION. You can also discover the benefits for yourself by arranging a practical demonstration with your local CLAAS partner.

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# Add another string to your bow with the XERION.....

When an expanding 1,000 hectare farm called on them to supply an additional tractor to operate for around 500 hours per year in difficult soil conditions "we took the farm as a starting point and were able to acquire two more small farms; we used this basis to venture the launch of our new range of services." We agreed that the contracting company would start performing stubble cultivation and deep soil cultivation with tillers and ploughs from summer 2005.

Our primary concerns when purchasing the new tractor were ensuring at least 300 HP engine capacity and a stepless transmission. Two options were considered: the XERION from Claas and a 300-HP tractor from another manufacturer. "As a contractor, we chose the XERION, because it offered not only a tractor, but also a system vehicle, which we could use more efficiently for a wider range of applications over long periods.

No sooner had the XERION been delivered to the farm, than Vieregges had to unexpectedly put the machine into operation as a compaction tractor in a silage chain. In cooperation with two neighbouring contractors who had invested in a forager and a transport trailer, the chain has been used by operators of newly constructed biogas plants for silage collection.

"Its unladen weight and optimal ballasting make it the ideal choice, as it is better and more economical than two smaller tractors or a heavy wheel loader," explains Volker Vieregge (also see "The power of one covers silo rollers, too..."). This additional capacity was especially welcome in spring, because the XERION is primarily used for soil cultivation in summer and autumn. In autumn, the XERION can again operate as an impressive compaction

tractor to collect the silage maize. This means working in round-the-clock shifts. "We used it in the silo as and when required and for ploughing at all other times. It worked really well."

All in all, the XERION completed around 980 operating hours in 2005 - 550 hours on soil cultivation, 300 hours on silo rollers and 150 hours on various other tasks. In terms of its performance and fuel consumption, Volker Vieregge agrees that "The XERION likes to work hard," as fuel consumption is very low. However, this is not achieved by increasing the working speed, instead you must adapt the working width of the mounted equipment to its enormous traction.

With a 6-m Rubin short disc harrow, the XERION can operate reliably at 14 km/h to 18 km/h on slopes and other difficult terrain. When cultivating the soil with an 8-share vario plough and double ring compaction roller (with a 3.25-t front weight on the XERION), you can cover 2.5 hectares per hour at a fuel consumption rate of only 18 litres per hectare under normal conditions. Performance is not limited by traction, but rather by the demands of the respective soil conditions.

As a result, a field with normal soil can be ploughed at a speed of 9-10 km/h, or only 6 km/h for a field with heavy soil. "It could easily operate with 9 to 10 shares and would then offer even greater capacity." With a 6-m Smaragd cultivator, fuel consumption ranges between 6 and 11 litres per hectare, depending on the conditions. The speed here is again limited to 10 to 11 km/h to help restrict the amount of wear on the tines. "With the cultivator, the XERION would provide an even greater working width," estimates Vieregge.



*Volker Vieregge and Günther Vieregge: "We are expecting a constant increase in demand."*

In 2005, Annegret and Günther Vieregge from Strate-Vieregge added another string to the company's bow together with their sons Volker and Christopher: contract work with the Xerion.

Discussions with customers often revolved around whether the contractor in Dörentrup (Lipper Land) wanted to acquire a heavy-duty tractor for soil cultivation. "Tractors and cultivators have to get increasingly bigger to be able to realise additional cost reserves. However, the bigger the technology, the harder it is for individual farms to make full use of it; from a business point of view it's simply too expensive. As a result, these tasks will increasingly require the use of external machinery," believes Volker Vieregge in light of the discussions.

## Rising demand

"The route to providing a new service certainly wasn't easy, as not all of the customers who initially showed an interest wanted to get involved straight away. But the feedback from customers has been so positive that we can expect increased demand for next year," concludes Volker Vieregge on his experiences in 2005. "The XERION is not just an impressive powerhouse in terms of machinery." The revolving cab is what makes the difference for us, because it allows us to use it like a self-propelled machine, which you cannot do with a normal tractor, such as for wood chips, wood mulching, transporting liquid manure or as a 8.5-m mower combination. We are expecting growth and are even thinking about purchasing a second XERION."



Out of a total of 1,000 operating hours in 2005, the XERION was used for around 550 contractor hours for intensive soil cultivation with a plough and tiller.

XERION Testimonial



On silos it is important to use the best, or more accurately the heaviest, machines. The fact is that harvester throughputs and hauling vehicles are increasingly bigger, whilst roller capacities on the silo are encountering more and more bottlenecks. Failure to respond appropriately can result in inconsistent fermentation in the silage or even increasingly frequent downtimes for the entire silage chain when collecting the silage, which can be expensive.

Ensuring maximum pressure on the material is essential for compression. Consequently, the technology used on the silo must be bigger and heavier. This is where the XERION comes into its own. With 18 tonnes of permissible total weight, it can easily be ballasted with large loads. On the farm, it can accommodate a load of up to 30 tonnes thanks to its structural design. Furthermore, it has sufficient power to lift even large quantities of silage at low engine speeds.

Comparisons between the XERION and a heavy wheel loader or two ballasted 150 HP tractors from Strate-Viergge have shown that both smaller tractors were unable to generate the required compression and the heavy wheel loader recorded excessive fuel consumption.

“We discovered that the XERION is also a cost-effective and efficient machine when working in the silo,” reports Volker Viergge. With the leveling panel in the front hydraulics and 3 tonnes of ballast plates in the rear mounting area, the XERION offers a total weight of 17 tonnes. Fuel consumption remains low at between 10 and 15 litres per operating hour.

Furthermore, the TRAC system proved useful in ensuring effective compression of the silo. By using the leveling panel and rear loads the machine was optimally ballasted in equal share (50/50) allowing the four wide tyres to exert the same pressure over the area and permanently compress the crop. Crab steering (front wheel on the edge, rear wheel away from the edge) was also used occasionally to distance the tractor's centre of gravity from the edges of the silo.

Our driver was also impressed, because we no longer have to have two or three tractors running round the silo getting in the way of each other. Visibility from the XERION cab was also much better than on a normal tractor.

Customers also praise the Xerion for its work as a compaction tractor. “Farmers were very receptive. After the first few uses, we noticed that being able to use the XERION as a heavy cylinder tractor was a good reason why customers placed further orders with our chain,” explains Volker Viergge.

# The power of one covers silo rollers, too...

Can you really use the XERION as a compaction tractor on a clamp silo? You're probably thinking no. And on first glance, you are right. In fact, the XERION offers proven traction in difficult soil conditions, when working in forests, when spreading and working in liquid manure, and when travelling with a large-scale mower.

## In brief

It is clear that it is not worthwhile to purchase the Xerion purely to serve as a compaction tractor for silos. However, true to the motto of "the power of one", the XERION can be used effectively with silo rollers providing additional capacity. This is an important plus point. And when it's used as a cylinder tractor, it performs extremely well and ensures the rapid and high compression of the silage bales. The compaction tractor is a key machine in the logistics chain.



Optimum compression: With the leveling panel in the front hydraulics and 3 tonnes of ballast in the rear mounting area, the Xerion weighed a total of 17 tonnes.

# Only the mighty can tackle 1,250 hectares



Hügelland KG farms 1,250 ha of arable land and has been using completely ploughless methods for the past five years. They currently cultivate winter wheat, winter rape, sugar beet and grain legumes. The fields range in height from between 120 m and 260 m and the soil varies greatly from sandy loam to heavy clay. As a result of ploughless cultivation, the Rohlfing brothers estimate that they have improved the capacity of the soil and improved its ability to store water, which is a great advantage with low rainfall of between 400 mm and 500 mm per year.

In addition, they have managed to drastically cut costs, whilst retaining the same level of yield. Machine hours (soil cultivation, maintenance, harvesting, transport and storage) have fallen to an average 2.5 hours per hectare. Fuel consumption has been greatly reduced as well. In previous years when only 50% of the land was farmed without a plough, consumption was 75 litres per hectare, but now it's only 55 to 60 litres per hectare (including threshing and beet harvesting).

To reduce costs further, two years ago the brothers decided to replace two smaller tractors (230 HP and 140 HP) with a single larger tractor. "When we did that and switched to working shifts during certain periods, we saved not only investment costs but also labour. We were looking for a reliable machine offering excellent value for money and good customer support - the Xerion TRAC was just the thing," explains Jan Friedrich Rohlfing.

*Jan Friedrich and Justus Rohlfing from Hügelland KG describe the Xerion as "a compact, powerful, well laid-out and agile machine that can be used both economically and flexibly."*

"What we were achieving two years ago with three labourers and two or three tractors, we can now complete with just two labourers and a single tractor," report Jan-Friedrich Rohlfing and his brother Justus from Hügelland KG in 06268 Liederstädt (Saxony Anhalt). All using a XERION 3300 TRAC.

"We were soon impressed by the XERION TRAC's brand new design. Four large tyres of equal width (size 650/85R38) provide a high pull transmission on the ground, without ballasting or twin tyres. In spite of its high HP, the XERION is extremely agile, allowing us to manoeuvre easily in tight corners and on small fields and roads," recalls Rohlfing.

The XERION performs around 950 hours of soil cultivation per year in Liederstädt. Stubble cultivation starts at the beginning of August, followed closely by rape sowing, which sees the start of 22-hour operation. The XERION pulls a deep cultivator by night and a mulch sowing machine by day. The Xerion is refuelled, rehitched and the driver is changed twice each day: at seven in the morning and between seven and nine in the evening.



It can reach speeds of 15 km/h during stubble cultivation (6-m disc harrow), 13-14 km/h during deep cultivation (6-m deep cultivator) and 16 km/h during sowing (6-m Pronto mulch sower from Horsch). The next item on Hügelland KG's shopping list will probably involve switching to a 7.5 m working width for stubble cultivation "to mitigate the tractive capacity of the XERION."

Handling and operation are quick and simple to come to grips with, whilst the stepless transmission, engine management system and cruise control make driving extremely convenient. The majority of tasks are performed in the partial load range up to maximum 1,850 rpm, when the engine manages itself. Below this range, the engine levels off at 1,400 rpm, allowing it to easily and effectively increase the level of power when required. "In terms of fuel consumption," explains Jan Friedrich Rohlfing, "the XERION measures up well against the competition." During sowing, the consumption values are between 5 and 7 litres per hectare at a capacity of approximately 6 ha per hour and 65-70 ha per shift.

At Hügelland KG, the XERION has once again reaped rewards. Jan-Friedrich Rohlfing concludes that "the XERION is a compact, powerful, well laid-out and agile machine that can be used both economically and flexibly. We're extremely satisfied and it makes our work fun." The Rohlfing brothers will probably purchase their next XERION

with a rotating cab to help utilise the machine's capacity throughout the year, for example through additional use in forestry applications during the winter.



From stubble cultivation to sowing - Soil cultivation on Hügelland KG's 1,250 ha of arable land is performed exclusively with the XERION.

XERION Testimonial



This machinery community was set up by members Landbau Köthen GbR, Richter & Ruppert Dienstleistungs- und Beteiligungs GmbH and RMK Anhalt GbR. Managed by Thorsten Ruppert and Herbert Aschhoff, the three member farms currently cultivate a total of 2,500 hectares (mainly black earth, silty loam, 60-80 ground points) in the area surrounding the town of Köthen at the southern edge of Magdeburger Börde.

As the land area is expected to expand by 400 hectares by the 2005 harvest, this means that intensive soil cultivation can no longer be performed within the time frame using the two tractors available (260 HP and 270 HP). In addition, the current tractor fitted with an 8-m Terrano stubble cultivator and optipack overrun roller was sometimes unable to achieve ideal speeds of between 11 km/h and 13 km/h. A Horsch Tiger with a 5-m working width should also be acquired for intensive soil loosening.

“As a result, we were looking for a tractor with increased engine power and optimum power transmission on the ground,” explain Thorsten Ruppert and Herbert Aschhoff regarding their initial ideas. A tracklayer wasn't an option, as we were sceptical of its pull transmission under damp conditions. The second option, an articulated dumper with twin tyres would have caused problems with transport width on public roads.

The decision was finally made in favour of the XERION. In addition to a high engine capacity of 335 HP, the XERION is theoretically thought to offer optimum pull transmission

thanks to its four identical wheels and higher basic weight. “But would that be true in practice?” The farms initially agreed to a lease agreement with a limit of 1,200 hours per year.

“In fact, the XERION exceeded our high expectations,” confirms Herbert Aschhoff, now at the end of the first harvest. In 2005, it was used for 1,170 hours in Köthen and cultivated a total of 4,000 hectares with the 8-m Terrano and 5-m Tiger. The two drivers Dirk Krispin and Egbert Riemer coped during the 10-week peak by using round-the-clock shifts.

“It's 3 km/h faster with the Terrano, that's around 30% more throughput. An enormous increase in capacity. Even the performance of the cultivator meets our expectations thanks to its higher speed,” agrees a satisfied Herbert Aschhoff. The actual working speeds recorded by radar were 12-13 km/h with the Terrano (6-8-cm working depth), 11 km/h with the Tiger (15-cm working depth) and 7.5 km/h (25-cm working depth). The actual hourly capacity ranged from around 6 hectares per hour with the flat cultivator to around 4 hectares with the deep cultivator. “The XERION's excellent pull transmission is apparent from the slippage values,” reports Dirk Krispin. For example, 6%-9% slippage is achieved under dry conditions, which is “an excellent result, as our other tractors frequently operate at 15%-20% slippage, but never less than 10%,” adds Herbert Aschhoff.



# “A machine that exceeded our expectations...”



*Operations Manager Herbert Aschhoff and driver Dirk Krispin "would always choose the Xerion!"*

Since mid-2005, three cash crop farms in Saxony-Anhalt have been sharing the use of a XERION TRAC for intensive soil cultivation. With an 8-m stubble cultivator and a 5-m-deep cultivator, the machine completed almost 1,200 operating hours within just three months.

Thanks to its practical performance capabilities, the XERION's concept was able to meet high expectations.

Additional "fine adjustments" have been made to optimise the Xerion further. A 1,800 kg weight has been added to the rear mounting area for all tasks. However, the front weights vary in size depending on the application: 700 kg with the Terrano (drawbar hitch) or 1,400 kg with the Tiger (lower linkage hitch). The air pressure in the 650/85 R38 tyres is also adjusted: 1.1 bar at the rear and 1.2 bar at the front with the Terrano or 1.2 at the rear and 1.1 at the front with the Tiger. In addition, it takes just 10 minutes to inflate and deflate the four tyres to on-the-road values (1.4 bar).

Furthermore, engine and stepless transmission possibilities have been fully explored. With an engine load of between 25% and 30% and a speed of 1,500 rpm, drivers achieved engine efficiency of almost 100% and consequently an average fuel consumption (including ancillary time) of just under 40 litres per operating hour. Translated onto the field, this gives consumption values of between 7 and 10 litres per hectare depending on the

mounted equipment, working depth and speed. When you consider that the XERION has to provide maximum traction for all its operations in Köthen, these values are exceptional and around 15% better than those recorded for the smaller tractors used prior to 2005.

The final verdict from Köthen was extremely positive. "We can now achieve significantly greater output and better quality, yet at a lower cost per hectare!" "We made the right choice with the XERION and would definitely choose it again," concludes Herbert Aschhoff on his experience. The XERION in Köthen is equipped with the Outback S steering system from Agrocom, but Aschhoff soon plans to use the E-Drive automatic parallel guidance system for XERION's all-wheel steering. In addition, he is hoping to obtain official approval for conversion to a rapeseed oil farm. And he is also envisaging a larger XERION for use in the future "to achieve even more in an even shorter time."

# XERION TRAC VC - Versatility's the key.



“Since it arrived in May the XERION TRAC VC has done over 630 hours, during which time it has been used in reverse mode with our DISCO 8550 mowers to cut about 1,200 ha (3,000 acres) of grass, and the other main job is to pull our 6 m Vaederstad drill. Other jobs include ploughing, power harrowing and even corn carting. It will be utilised all year round,” he says.

The best aspect of the XERION for Stephen is the ability the CEBIS based control system gives to set everything up to how he wants it.

“For instance I can change the engine speed to 6% for mowing, but increase it to 30% for drilling. I can also individually alter the speed of the spools, so that I can have one speed set for lifting the drill, and another for the speed of the fan. Everything on the XERION can be altered to how you want and the system is very easy to use.”

Likewise he has found that features such as the ability to individually steer the front axle using the steering wheel, and the rear axle using the joystick is especially useful when mowing, as is the ability to alter the steering so that the pivot point of the XERION is moved, for instance over the linkage which allows tighter turns when mowing and reduces 'misses'.

*Charlie Baker, Oxfordshire (UK)*

In a reorganisation of his tractor fleet Oxfordshire contractor Charlie Baker has reduced his tractor fleet from five to four, including a XERION 3300 TRAC VC with reversible cab.

With a wide range of work from contract arable farming through to forage harvesting, there is plenty for the XERION to do, and it is the versatility of the tractor which appeals to driver Stephen Baker.

Compared to the similar sized reverse-drive tractor he had before, Stephen says that whilst that was an improvement compared to using triple mowers in a butterfly formation, the XERION is a further step forward.

“For mowing the XERION is brilliant. With standard tractors because the cab was low down between the mudguards you could not see the outer units, and also the mirrors didn't move with the cab. Being high-up, from the XERION you have 100% visibility over the mowing units - it's far better.”



Even when working in tough English grass, it is possible to cover 10 ha per hour in standard fields. "I can easily clear 4 ha (10 acres) an hour on small fields and steep slopes, and it is extremely economical; over the 630 hours it has averaged 30 litre/hour. Particularly at low speeds there is a significant difference between this and a normal tractor, because of the enormous traction of the four large wheels. The XERION will just keep on pulling, whereas a tractor would keep fading. Also the XERION has far greater traction than a normal tractor. There's a lot of 'low down grunt'."

Overall, Stephen has been extremely pleased. It's more than met their expectations, it's comfortable to drive, manoeuvrable, easy to operate and quick to service.

"Above all, roadwork is no problem - people just get out of your way!" he adds smiling benignly.



One main area of application is sowing with a 6 m Vaederstad Rapid

XERION Testimonial

# XERION TRAC VC - An imposing trademark...

Although tractors have improved in terms of performance over the years, Marcel Verhoef has retained the concept of “four wheels of equal size” as an ideal. As soon as he saw the Xerion, he knew that it was “the right tractor for us!” The Xerion 3300 Trac VC has been in service at Nijkerk since October 2004.

In addition to his stock of 14 standard tractors, almost all between 150 HP and 200 HP, the Xerion has now become the “figurehead” of the farm. “As the largest tractor by far it has become somewhat of an imposing trademark for our performance,” he reports. “Farmers instantly know it's me when they see the Xerion coming”! With a total of 42 employees, Verhoef operates in several areas: green forage harvesting, maize laying and chopping, as well as beet harvesting. An important element of the company's work is the transport and spreading of dung and liquid manure. Other divisions include excavation and earth moving, as well as asbestos removal from buildings and roofs.

The contractor's agricultural customers primarily consist of dairy farms. According to Marcel Verhoef, even in Holland there is a noticeable trend towards using external machinery. Future-compliant managers, in particular, are more cost-aware and are consequently expanding their livestock, whilst increasingly transferring field work to high-performance suppliers such as Marcel Verhoef. Marcel Verhoef has continuously expanded his farm during the past 26 years and will continue to do so in the future.



As a result, the range of machinery and equipment must also expand. “The Xerion with its rotating cab offers us a future-proof tractor,” believes Marcel Verhoef, “that not only provides impressive traction, but also versatile load capabilities.” Gert Kraaij, “a top-class driver” according to Marcel Verhoef, is also impressed by the Xerion. “Gert Kraaij is always discovering new areas of application to utilise the Xerion's potential.” The fact that the Xerion logged just under 2,700 hours within 15 months of purchase should be proof enough that it can do almost everything and anything.



"The concept of having four wheels of equal size is great," judges Marcel Verhoef, a contractor from Nijkerk, Holland. When Verhoef first started contracting work 26 years ago, one of his first tractors was a County. With four wheels of equal size, this tractor impressed users with significantly more traction than all other tractors in its HP class. Today it is the Xerion 3300 Trac VC that is impressing users through its versatility and enormous traction.

*Almost 2,700 operating hours in eighteen months: Contractor Marcel Verhoef is more than satisfied with the Xerion's load capabilities.*

"Power and performance" are top of the list when assessing the Xerion's benefits, believes Marcel Verhoef. "It offers unbeatable traction, not only as a result of the stepless transmission and 330 HP engine, but also because of the equal sizing of the four tyres." The Xerion demonstrates its impressive traction in all situations - in front of a 1.2-m breaker plough or a 7-share half-turn plough on heavy clay-type soils in polders, and particularly in front of laser-guided drag scrapers with a 5-m working width. Even with just the drag scraper, the Xerion has been used for more than 400 operating hours on soil renaturation, greenbelt regeneration or excavation work for new barns.

"But it offers much more than just that," reports Verhoef, "for example four-wheel steering." In Holland, there are many small, narrow access roads to fields. Mastering these roads with a large silage cart behind a standard tractor without slipping into ditches is a huge problem. With the Xerion, however, these roads are easy to pass even though it is larger, because of its increased manoeuvrability.

The crab steering function has also proved to be very useful, for example on deep trenched ground following greenbelt regeneration, or when spreading liquid manure with a 12 m<sup>3</sup> tank and a 5.3-m liquid manure injector. Customers demand as few deep tracks on their land as possible, which certainly isn't a problem for Marcel Verhoef. As the liquid manure tank can pivot on an articulated drawbar, the tyres travel precisely inside the Xerion's track (in crab steer mode). As a result, the tyres tracks are spread evenly over a width of 5 m.

Even though capacity is already very good, it is set to increase further still in 2006. "The rotating cab makes the Xerion extremely versatile, so we can use it for even more tasks." As a result, Marcel Verhoef will begin harvesting grass with a DISCO 8550 next harvest, a task previously carried out by one of his neighbouring contractors. The concept, performance and load capabilities of the Xerion have also impressed contractors in Nijkerk. One thing is clear to Marcel Verhoef: his Xerion will only ever be replaced with another Xerion!



Ideal for powerful traction - the XERION towing laser-guided drag scrapers.

XERION Testimonial



Delivered in November, the pivoting cab 335 HP XERION TRAC VC has been equipped with a Heizomat HM 14-800 woodchipper, which is the only machine of its type in the UK, and has a 80cm (32inch) intake, fed using a HIAB crane, remotely operated from the cab. In addition the XERION will be used to power an AHWI UZM700 mulcher to clear the roots after felling.

Operations Manager Alan McLeish admits that it was only when he saw the tractor 'in the flesh' that he could fully appreciate the potential it had to achieve the productivity they were seeking.

“Because a lot of the timber is worthless, we have been looking at biofuel, creating woodchips for fuelling heating boilers, as a by-product from our site clearance work,” he explains.

“To be efficient, the more mechanised and higher output you can achieve, the better. The problem with most large woodchippers is that they tend to be static at sawmills, but with the XERION we can go to site and get the whole job chipped and cleared in one visit.”

In operation, the XERION with its 50 km/h roadspeed and front and rear linkage, provides QTS with the ability to travel to the site, carrying the AHWI mulcher on the front, whilst towing the woodchipper behind. To provide greater clearance, the XERION has been 'shod' with 710/70 tyres

and fitted with an underbelly plate to protect it when mulching stumps.

On site, having dropped off the mulcher, the cab on the XERION is swung round to operate the woodchipper and loading crane. Capable of taking in hard or soft timber up to 80cm (32 in) in diameter, the Heizomat has the ability to chip about 30-35 tonnes an hour. After chipping, the AHWI mulching head, which has a 70 cm (27 in) wide rotor fitted with carbide hammers and requires at least 300 HP, is used to clear the stumps.



# XERION TRAC VC

## traveling through the woods...

A XERION 3300 TRAC VC, powering one of the largest woodchippers available in the UK, has been bought by forest management specialists QTS.

The QTS Group, based near Strathven in Lanarkshire, provide a wide range of services for major authorities and companies throughout the UK, and specialise in forest management, particularly alongside railways and site clearance for councils, windfarms or development work.

*Phil Jones  
manages the GTQ Group in Strathven, Lanarkshire.  
He talks to us about his experience using a XERION TRAC VC  
for forestry work.*



“The photographs certainly did not do the XERION justice - it's an awesome machine. The reversible cab is excellent and high enough that the operator has a clear view of not only the chipper, but all around which is important for safety. The XERION replaced a reverse drive tractor, which apart from not being powerful enough, also had restricted visibility because the cab was too low,” says General Manager Phil Jones.

“The XERION is an awesome and versatile piece of kit and well matched to the woodchipper - when you put a large hardwood trunk through it certainly knows it's there, although the chipper is fitted with an antistress system. It gives us the ability to achieve high outputs on site, and we are now looking at other machines it can operate, such as a stump grinder to make it more versatile.”

“CLAAS Service is also very important, not only from our dealer GORDONS, but also from CLAAS because the XERION could be working anywhere in the UK. “In the XERION we have a new, successful concept and will be able to grow with it.”

# Comparing the XERION and a normal tractor is like comparing chalk and cheese.

Together with three permanent employees and two temporary labourers, the company carries out a whole host of clearing, transporting and wood-chipping activities, including grass mulching, verge mowing and road clearing. The farm is equipped with an Impex-Tiger 20 harvester, a 12-tonne transporter, two Fasttrac machines as well as a lorry for transporting woodchippings. In mid-2005, this was supplemented by the addition of a XERION TRAC VC with rotating cab, which operates with a Mus-Max woodchipping machine and an Eco wood mulcher.

The XERION was purchased to replace a 260 HP standard tractor. "We were satisfied with that too," explains Ralf Allgayer, "but it had already completed more than 4,500 operating hours with the PTO. That's why we looked around for a new tractor and we had the opportunity to see the XERION for the first time close up at the ZLF agricultural exhibition in Munich." The contract was signed at the start of 2005 and the new XERION was delivered to the farm in June. By the end of 2005, it had already logged 500 operating hours.

"The most impressive feature for us was the rotating cab. The benefits have been noticeable in my day-to-day work with the machine. The reverse drive unit on our standard tractor wasn't bad, but there was always something that got in the way. But with the Xerion's rotating cab, it's like doing a totally different job," enthuses Ralf Allgayer.

The working direction has to be changed seven or eight times a day, so it's much more practical and more convenient if you can remain sitting comfortably in the cab. Because the XERION cab is constructed slightly higher, visibility is much improved for someone like Ralf Allgayer, who works with a wood-chipper that can process trunks up to 42 cm in diameter and is supplied via an 8.5-m long on-board crane. "Now I can see directly into the hopper."

Even with the 2.98 m wood mulcher, specially purchased to suit the size of the XERION, visibility is significantly improved. This mulcher is used for clearing building sites or areas damaged in storms or for creating forest aisles and tracks. Up to 20 cm thick pine branches can be cleared with a front-mounted ramming frame before being chopped using the mulcher and worked into the soil at a depth of 6 cm. The crab steering on the XERION comes into its own here. When using the 3.4-t mulcher on slopes, you can easily countersteer uphill with all four wheels and with crab steering engaged on one side. In addition, the XERION's excellent manoeuvrability cannot be underestimated in forestry work.

Ralf Allgayer is also pleased with the Xerion's economical fuel consumption, which averages 23 litres per operating hour. He puts this down to the fact that he can operate the XERION with maximum 1,900 rpm within the fuel-saving partial load range, even with a forager. "The XERION



Ralf Allgayer Junior: "The ideal machine for our forestry work!"

"We deliberated purchasing a XERION for a long time. After all, it doesn't come cheap, but it offers so much more!" Following their decision to purchase a XERION 3300 TRAC VC for their forestry contracting company, Georg Allgayer in 89522 Heidenheim, Ralf Junior and his father Georg Allgayer have been nothing but satisfied.



operates in such a way that it always has capacities in reserve. And that is extremely important given the current fuel prices."

Ralf Allgayer concludes, "We are not only satisfied with the machine, but also with the service provided by CLAAS. Comparing the XERION and a normal tractor is like comparing chalk and cheese. When it comes to farm work, if you've already worked with the Xerion, then it's almost certain that this is what you'll choose. For our intensive work it's the ideal machine!"

The wood-chipper can process trunks up to 42 cm in diameter.

# Impressive performance for challenging forestry applications.



Forestry experts from Danish company DDH Forst und Landschaft A/S have been testing a Xerion in challenging practical applications for the past two and a half years. The concept and technology behind the Class Xerion were pitted against standard tractors from other manufacturers. The results were so impressive that in 2006 DDH invested in two further Xerion Tracs with rotating cabs for use in clearing work and woodchip production.

Forestry, horticulture, landscaping and related industries form the main focus of activities performed by the 800 employees at DDH Forst und Landschaft A/S (DDH). DDH offers local authorities, motorway maintenance companies, private and state forestry commissions and other customers a variety of services and products, in which forestry plays an important role. Consequently, DDH produces a total of 1.1 million metres of debris per year just from wood-chipping. In Denmark, these wood-chippings are important for heat production, accounting for 8% of the total volume.

DDH uses around 80 large-scale machines such as harvesters, wood-chippers, transporters and clearing machines making it one of the largest collections of forestry machinery in Europe. Erik Baunbæk is responsible for developing machinery and application procedures at DDH and he gave us his impression of tests with the Xerion.

“For clearing, we use self-propelled tracklayers, as well as tractors with mounted mulchers, stump mulchers and clearing mulchers,” explains Erik Baunbæk. “With our tractors, 300 HP signified the limit of available engine capacity. Only tracked vehicles achieve higher capacities, but always involve using an expensive flat bed trailer for on-road transport. Consequently, we looked for a more powerful tractor for clearing, preferably with a stepless transmission, yet still good for on-road transport.”

Since the end of 2003, Erik Baunbæk and a team of colleagues have been testing a Xerion 3300 with rotating cab, 335 HP Cat engine and stepless ZF transmission. Initially, DDH mounted its own forest protection equipment. 50% of work was then performed with a 2.5-m mulcher, 40% with a 2.3 m clearing mulcher and 10% with a stubble mulcher. Two and a half years later, at the start of 2006, the team had completed more than 4,300 hours of testing. “The Xerion impressed us all,” reveals a satisfied Erik Baunbæk, “so much so that we have now bought two more.”

Erik Baunbæk went on to explain the various criteria that resulted in the positive test verdict. “The Xerion has more HP, good engine characteristics and the engine offers extremely high torque. Also, the stepless ZF Eccom transmission is the best system we have ever used. It is up to 100% reversible and can also operate easily at full loads in reverse gear. It can respond much more rapidly to obstacles than the transmission on our previous standard tractors. The performance of the PTO is also good and transmission losses are low. Even the service life has been impressive, in spite of the high loads.

In contrast to the high levels of performance required of our clearing machines, fuel consumption is extremely low, with an average of 35 litres per hour, the same as a standard tractor. The Xerion gives us the same fuel consumption as a tractor, but provides 20% to 25% more power.

The rotating cab is more convenient and easier to handle than a standard reverse drive unit.





The improved weight distribution and reduced loading on the rear axle are extremely beneficial when working or travelling on roads, which is very important given the 6.5-t weight of the mounted equipment. Four-wheel steering and the optional crab steering make the Xerion much more agile, despite its size. Improved weight distribution and high manoeuvrability make heavy implements easier to handle. The lifting power on the Xerion can also cope with our heavy clearing machines.

One of the key benefits of the Xerion is the rotating cab, as it makes it much easier to handle than any other standard reverse drive unit. In addition, it offers improved visibility over the implements and greater comfort." And last but not least, the test machine offered impressive durability and reliability, as no problems occurred. "And we always received an excellent service from Claas when it was required," concludes Erik Baunbæk.

From 2006, DDH will be using three Xerions. The previous test machine will continue to be used for clearing along with one of the new Xerions. However, the third will be equipped with a mounted wood-chipper including grab crane, as Erik Baunbæk and his colleagues intend to exploit a further benefit of the Xerion. With the cab rotated, the mounting area behind the cab (with extension over the engine) will be used for a 15 m<sup>3</sup> titling collection device. As a result, the Xerion is shorter and more agile than a standard tractor, because some tractor systems require an additional trailer to catch the woodchips.



Working in wet conditions after frost and rain is no longer a problem thanks to the XERION's improved weight distribution.

XERION Testimonial



Christian Liebers, Crop Production Manager for both companies, which farm just less than 3,000 hectares without a plough, reported back to us regarding recent developments. In addition to multiplying grass seeds and winter crops, the company's arable farming focuses on cultivating around 600 hectares of silage maize for a dairy unit with 1,500 animals and a cattle unit with 1,800 young animals. Each year around 75,000 m<sup>3</sup> of liquid manure is produced. This is initially used in a 620 kW biogas plant and then to fertilise the land. A network of liquid manure pipes covering 18 kilometres is available to transport the liquid manure to around 80% of the land, where the liquid manure is spread from containers at the edge of the fields.

Two 10 m<sup>3</sup> self-propelled machines, which were adjusted to the capacity of the liquid manure pump (100 m<sup>3</sup> per hour), were previously used on this land, although the liquid manure must then be worked in as part of a subsequent step. "Both self-propelled machines dated back to just after the turn of the millennium and were getting on a bit, so we had to make new investments. For economical reasons, we wanted to acquire advanced technology that enabled us to achieve this level of performance with just one machine," explains Christian Liebers. Two options were available: a current self-propelled machine and the XERION. The decision was finally made in favour of the XERION with a front-mounted Zunhammer 14 m<sup>3</sup> tank, pump and suction nozzles, as well as a rear-mounted 4.5 m CATROS cultivator.

"In terms of productivity, we have advanced greatly. We now save on labour, as we can work in the liquid manure directly with the XERION. The initial investment costs were lower and we have also found a better solution to the environmental problem of working in the manure," believes Christian Liebers. However, spreading capacities of 100 m<sup>3</sup> per hour can no longer be achieved with a single machine. "A 12 minute cycle length is already a good time, as it has to travel quite a long way. We have to collect the liquid manure from the hydrants, sometimes over distances of up to 1,000 metres." With working speeds of 14 km/h and spreading capacities of up to 60 m<sup>3</sup> per hour Liebers ensures a balance in the organisation of work loads. When the situation allows he operates the machines in round-the-clock shifts.

At the end of 2005, the XERION had performed a total of 1,060 operating hours. Fuel consumption averaged 28 litres per operating hour. The new technology offered drivers a huge improvement in terms of operating and driving comfort. Compared to the previous technology, the XERION's gentle crab steering function proved a useful innovation. For example, it can be used in spring when operating the Xerion with a 6-m drag hose spreader to manure grass and crops.

# XERION SADDLE TRAC - Labour-saving design.



*Christian Liebers, Crop Production Manager in 09236 Claußnitz explains that "in terms of productivity, we have advanced greatly."*

Multi-Agrar Claußnitz GmbH and its subsidiary Agrar Gut Oberlichtenau GmbH in Saxony have been using a XERION SADDLE TRAC with add-on tank to spread and work in liquid manure since March 2005.

The XERION's versatile concept of additional load capabilities is also impressive. "Its four wheels of equal size make it ideal for efficiently transferring its power to the land. If the annual capacity for spreading liquid manure is not guaranteed, we can use the new machine to do other work and so further increase capacity."

Furthermore, when two similar machines were used, it was not so crucial if one broke down. Now, reliability is much more important. "Like the harvesting season, the liquid manure season is regulated by strict deadlines. If wear occurs, our deadlines depend on the level of service. And so far, our experience with CLAAS combines and foragers and our workshop has been nothing but positive."



Premises of Multi-Agrar Claußnitz GmbH with dairy stalls and a 620 kW biogas plant.



The XERION's predecessor, an old three-wheeled self-propelled machine with liquid manure tank, has been lined up for replacement. "In order for us to spread liquid manure practically and appropriately to the crop's needs, one of the key criteria we took into account when making our decision was not only performance, but more importantly reliability and service." The Lauenhain-based company was able to reflect on its positive experience with CLAAS and the LTZ Chemnitz workshop, as it had already used various combines and foragers from CLAAS.

Its trust in CLAAS was not misplaced. The XERION SADDLE TRAC has been in operation at the farm since the start of April 2005. With a front-mounted 14 m<sup>3</sup> container from Zunhammer, 7,500 litre pump and suction nozzles, as well as a rear-mounted 5 m Smaragd cultivator, the Xerion works the liquid manure directly into the soil.

The tank is now 14 m<sup>3</sup> making it 3 m<sup>3</sup> larger than its predecessor. As a result, the XERION and its equipment can now fit more easily into the remaining liquid manure complex. The company uses two Mercedes tank semi-trailers, each with a volume of 28 m<sup>3</sup>. These supply the liquid manure to the edge of the field and pump it into 30 m<sup>3</sup> temporary storage containers. From there, the XERION transfers the manure via suction nozzles.

All in all, around 90,000 m<sup>3</sup> liquid manure is available each year for manuring. The majority of liquid manure originates from the farm's own dairy unit with 1,700 cows (average 9,000 litres per stall) and a similar amount from breeding. In addition to this production branch, Agrarunternehmen Lauenhain also operates a cattle feedlot with 2,000

animals, a pig feedlot with 2,400 animals, as well as its own slaughterhouse. The company also operates a milking machine facility for Buematic.

In terms of crop production, the company farms 3,250 hectares without the use of a plough. This includes 485 ha of maize, 800 ha of winter wheat, 500 ha of winter barley, 600 ha of rape and 120 ha of summer barley. On these areas of land the XERION works the liquid manure directly into the soil using the cultivator. A 6-m drag hose spreader is used on around 450 ha for grass multiplication and other grassland areas with the XERION in crab steer mode to reduce ground pressure. At present, the company is considering retrofitting the XERION with the new lateral pivoting rear linkage so that crab steering can also be used with the disc cultivator.

In terms of capacity, performance has risen significantly compared to previous results. In bad weather or poor soil conditions manure spreading has to be suspended, so in good weather it is important to be able to achieve even more. When time is limited, for example during the period between harvesting and sowing rape and grass, the liquid manure chain has to be used in two 8-hour shifts. "With the cultivator, we can work at a speed of between 8 km/h and 10 km/h, so we have sufficient capacity," explains Armin Trommer. "It doesn't make any sense to work more quickly, as the delivery vehicles struggle to keep up if they have to travel a long way."

The XERION clocked up 1,435 operating hours in 2005 in reliable fashion without a single fault, covering 2,400 ha with the cultivator and 600 ha with the drag hose spreader. Including all ancillary time, the spreading

# XERION SADDLE TRAC - One hundred percent satisfied.



"In autumn 2004, we had our first practical demonstration of the XERION for soil cultivation. We thought it was great and came up with the idea that this machine would be ideal for spreading liquid manure," reports Armin Trommer, management board member and Crop Production Manager at Agrarunternehmen Lauenhain e.G. in 08459 Neukirchen-Lauterbach (Saxony).

*Armin Trommer from Agrarunternehmen Lauenhain e.G. remarks that "performance has risen significantly compared to previous results."*

capacity averaged 61 m<sup>3</sup> of liquid manure per hour, whilst fuel consumption averaged 0.44 litres per m<sup>3</sup> of liquid manure. "We are extremely satisfied with the fuel consumption, but more importantly with the machine as a whole," concludes Armin Trommer.



Agrarunternehmen Lauenhain e.G.: Now we use a XERION SATTEL TRAC to spread and work in the 90,000 m<sup>3</sup> of liquid manure produced on the farm's own dairy unit.

XERION Testimonial

# XERION SADDLE TRAC - A pleasure to work with.

At the start of his professional career in 1998, Paetow initially acquired a Dutch self-propelled liquid manure machine with 200 HP, along with three delivery lorries each with a capacity of 27 m<sup>3</sup>. In addition, he leased a 260 HP tractor to work in the sewage sludge. "The first self-propelled machine had been used so much that we wanted to buy it. As a result, in autumn 2004 we took a closer look at the XERION and decided to go for this machine instead." Since June 2005, Jürgen Paetow has been using a new XERION SADDLE TRAC with 12 m<sup>3</sup> Zunhammer tank.

"It's a pleasure to work with. I've even driven it myself quite a few times this year and it's great fun," enthuses Jürgen Paetow. "The CAT engine and ZF transmission on the XERION give it fantastic power! Even though we have now mounted a disc harrow to work the sewage sludge directly into the soil, we still have more power and enormous traction. It just runs along on its own."

With working speeds of between 12 km/h and 14 km/h and a 6-m working width on the twin short disc harrow and cage rollers, it is easy to spread 600-700 m<sup>3</sup> per day, or up to 100 m<sup>3</sup> per hour on a good day. When working 12 to 14 hours per day in high season, Paetow's drivers can achieve peaks of between 1,100 m<sup>3</sup> and 1,200 m<sup>3</sup> per day. In addition to its high capacity, the XERION SADDLE TRAC can also apply the advantages of its agile four-wheel steering to smaller plots of land.

The cost benefits here are considerable. Because the XERION SADDLE TRAC works the sewage sludge directly into the soil, it saves Paetow the costs of leasing the 270 HP tractor, purchasing diesel and contracting a driver, which are estimated at around 500 Euros per day. Another key advantage here is that spreading and working in the sewage sludge directly improves cleanliness, which improves the landscape for neighbouring villages and towns.

Fuel consumption is also extremely cost-effective at 25 litres per hour in normal conditions. "The engine has enormous torque and power. Combined with the stepless transmission from ZF, we can generally operate at an economical 1,400 to 1,500 rpm."

Jürgen Paetow also had a positive experience with the service team. "If we get behind in our four month working window, we depend on the machine to operate extremely reliably." Although he was sceptical at first, today he agrees that "the cooperation works wonderfully." The nearby CLAAS centre at Vohburg is a significant advantage, not to mention the service provided by BayWa. "Spare parts supply and customer service are extremely good, I have nothing but praise for the service I've received!"



Jürgen Paetow from 85129 Oberdolling, near Ingolstadt is a contractor who has specialised in sewage sludge spreading over recent years. He has processed and spread sewage sludge on around 700 plots of land for a variety of local authorities and in association with the Bavarian Sewage Sludge Network (Bayerische Klärschlammnetz).



Suction nozzles and pumps on the Xerion SADDLE TRAC transfer the liquid manure directly from the delivery vehicles.

Jürgen Paetow specialises in sewage sludge processing and spreading.

XERION Testimonial

XERION TRAC – Unique in its performance class.

Introduction to green fields...



The XERION is designed as a high-performance tractor. Four equal-sized wheels (up to 42 inches) combined with optimised weight distribution ensure efficient power transmission. Yet the XERION still handles like an automatic car. All you operate is the accelerator pedal; the electronic engine and transmission system controls power injection.

## XERION 3300 TRAC/VC

### Construction:

Full frame concept, permissible total weight of 18 t for road travel up to 50 km/h; field work: 15 t maximum load per axle, 30 t maximum weight

### Engine:

246 kW/335 PS max. power at 1,700 rpm, water-cooled, six-cylinder Caterpillar C9 Turbo engine with inter-cooling, 8.8 l displacement, maximum torque 1,450 Nm

### Transmission:

Stepless ZF ECCOM 3.5 transmission, under-load reverser, 50 km/h at a reduced engine speed of 1,800 rpm, optional 40 km/h

### Axles and chassis:

Front and rear RABA steering axles, pivoting front axle (detachable), electronic four-wheel steering, two axle differentials, one intermediate axle differential, all lockable using plate locks, permanent all-wheel drive

### Steering:

Electronic four-wheel steering with six steering programmes, e.g. all-wheel steering, crab steering, etc.

### Brakes:

Wet multi-disc brakes, hydraulically actuated, acting on all four wheels, hand brake, spring brakes

### Rear lifting gear:

Category III, 11.5 t maximum lifting power, electro-hydraulic lower linkage control, dual-acting, vibration damping

### Front lifting gear (optional):

Category III / IIN, 8.2 t maximum lifting power, dual-acting

### Hydraulics system:

Two 150 l/min and 200 bar axial piston pumps, maximum of five dual-acting control devices with time and quantity controls and adjustable response times, 80 litre draw-off oil quantity

### Rear PTO shaft:

1,000 rpm, electrohydraulically controlled

### Tyres:

Four tyres of equal size, 540/80 R 38 to 900/60 R 38, low tyre inflation pressures (less than 1.0 bar) with maximum load bearing (soil protection)

### Cab:

CLAAS XERION CAB, fully spring cab with climate control, 180° rotation, CEBIS II system for complete machine control, multifunction lever, accelerator pedal

### Driving modes:

Automatic (accelerator pedal), cruise control with two forwards and two reverse memory settings, electronic throttle mode for a constant engine speed (PTO operation), manual mode using the pedal and fingertip lever

# XERION SADDLE TRAC – Intelligent technology improves performance.



The ability to get more done in less time using fewer machines is what successful farming is all about. The new XERION goes beyond what traditional standard tractors have to offer, converting 300 HP tractive power into efficient productivity in various operations. The XERION's cab is positioned at the front above the engine making it the perfect semi-trailed transport option for trailers, liquid manure tanks, seed containers and more...

## XERION 3300 SADDLE TRAC

### Construction of system carrier vehicle:

Full frame concept, cab positioned at the front above the engine, permissible total weight of 18 t for road travel up to 50 km/h; field work: 15 t maximum load per axle, 30 t maximum weight

### Mounting area for...

Liquid manure or transport trailers, liquid manure tanks, seed tanks

### Central trailer hitch ball coupling:

110 mm diameter, 15 t maximum drawbar load, optimised force and weight distribution, towed loads are distributed across both axles, higher useful load in compliance with road traffic regulations, extraordinary manoeuvrability, easy to drive in an offset position, very good visibility when coupling the trailer hitch ball

### Engine:

246 kW/335 HP maximum power at 1,700 rpm, water-cooled, six-cylinder Caterpillar C9 Turbo engine with inter-cooling, 8.8 l displacement, maximum torque 1,450 Nm

### Transmission:

Stepless ZF ECCOM 3.5 transmission, under-load reverser, 50 km/h at a reduced engine speed of 1,800 rpm, optional 40 km/h

### Axles and chassis:

Front and rear RABA steering axles, pivoting front axle (detachable), electronic four-wheel steering, two axle differentials, one intermediate axle differential, all lockable using plate locks, permanent all-wheel drive

### Steering:

Electronic four-wheel steering with six steering programmes, e.g. all-wheel steering, crab steering, etc.

### Brakes:

Wet multi-disc brakes, hydraulically actuated, acting on all four wheels, hand brake, spring brakes

### Rear lifting gear (optional):

Category III, 11.5 t maximum lifting power, electro-hydraulic lower linkage control, dual-acting, vibration damping

### Hydraulics system:

Two 150 l/min and 200 bar axial piston pumps, maximum of five dual-acting control devices with time and quantity controls and adjustable response times, 80 litre draw-off oil quantity

### Power hydraulics: (Optional)

260 bar operating pressure, 235 l/min maximum output at 2,100 rpm, 90 kW maximum hydraulic capacity

### Tyres:

Four tyres of equal size, 540/80 R 38 to 900/60 R 38, low tyre inflation pressures (less than 1.0 bar) with maximum load bearing (soil protection)

### Cab:

CLAAS XERION CAB, fully spring cab with climate control, 180° rotation, CEBIS II system for complete machine control, multifunction lever, accelerator pedal

### Driving modes:

Automatic (accelerator pedal), cruise control with two forwards and two reverse memory settings, electronic throttle mode (PTO operation), manual mode using the pedal and fingertip lever

Perfect detail  
in an unbeatable package.



# Technical specifications XERION 3300

<b>Engine</b>		
<b>Caterpillar 6-cylinder, turbo, charge air cooler</b>		
Cubic capacity (cm <sup>3</sup> )	8,800	
Revolutions per min	2,100	
Power rating (kW/HP) at 2,100 rpm in accordance with ECE-R24-03	224/305	
Max. power (kW/HP) at 1,700-1,800 rpm in accordance with ECE-R24-03	246/335	
Max. torque (Nm) at 1,500 rpm	1,450	
Fuel tank capacity (litres)	620	
<b>Transmission</b>		
<b>ZF ECCOM 3.5</b>		
Infinitely variable CVT transmission		
Final speed in both directions (km/h)	50	
Rear power take-off with 1,000 rpm, PTO stub	1 <sup>3</sup> / <sub>4</sub> " (20-piece and 6-piece)	
Interaxle differential	100% lockable, plate type	
<b>Driven steering axles</b>		
Differential locks	100% lockable, electrohydraulic actuation, plate type, with automatic function	
<b>Chassis</b>		
Trac design	Four wheels of equal size	
Steering	All-wheel steering, front-wheel/rear-wheel steering, crab steering	
Weight distribution (front/rear)	55 %/45 %	
Ballasting (t) at 50 km/h	up to 18	
<b>Brakes</b>		
Service brake	hydraulically actuated wet multi-disc brakes, power boosted, acting on all wheels	
Parking brake	electrohydraulically actuated spring brakes	
<b>Hydraulic system</b>		
Max. hydraulic tank capacity (litres)	130	
Max. draw-off volume (litres)	80	
<b>Primary circuit (linkage, auxiliary spool valves)</b>		
Max. working pressure (Mpa/bar)	20/200	
Max. flow rate (litres/min)	150	
No. of auxiliary spool valves	max. 5	
Max. flow rate per disc (litres/min)	110	
Max. hydraulic power (kW)	45	
<b>Tow coupling</b>		
All drawbar loads in (kg)		
Automatic trailer hitch, D38 crowned bolts	2,000	
Tow ball trailer hitch, ball system 80	3,000	
Ball system hitch 80	4,000	
Short drawbar, D33 and D40 bolts	3,000	
Ball system 80 drawbar	3,500	
<b>Front linkage</b>		
Category III N, twin-acting		
Constant lifting capacity (kN) / Max. lifting capacity (kN) / Max. lifting range (mm)	70/82/841	
Shifting operation	Lifting, lowering, float setting	
<b>Rear linkage</b>		
Category III, twin-acting		
Constant lifting capacity (kN) / Max. lifting capacity (kN) / Max. lifting range (mm)	115/117/756	
Shifting operation	Lifting, lowering (pressing), float setting	
Control function	Positional/tractive resistance, vibration damping	
<b>Weights and dimensions</b>		
	<b>XERION TRAC with centred cab</b>	<b>XERION SADDLE TRAC with over-engine cab</b>
Overall length not incl. front weights (mm)	6,630	6,630
Overall width (mm)	min. 2,490	min. 2,490
Overall height, dependent on tyres (mm)	3,720	4,000
Wheel base (mm)	3,300	3,300
Ground clearance, depending on equipment	32" wheel rim diameter 470 mm, 42" wheel rim diameter 570 mm	
Min. turning circle (m)	12 m	12 m
Unladen weight (without tyres) (kg)	10,200	10,200
<b>Xerion models</b>		
XERION TRAC	Tractor with central cab	
XERION TRAC VC	rotating cab with 2 positions (central and rear)	
XERION SADDLE TRAC	Front cab over engine, large mounting area behind cab	
Optional central towball for trailer hitching (mm)	110	

CLAAS products are subject to continuous improvement, so changes are possible without notice. All descriptions and specifications in this brochure should be considered as approximate and may include optional equipment that is not part of the standard specifications. This brochure is designed for world-wide use. Please refer to your nearest CLAAS dealer and their price list for local specification details. Some protective panels may have been removed for photographic purposes in order to show the functioning more clearly. All machines comply with current machine regulations.

XERION Testimonial

# Impressive benefits.

- Full-frame design for maximum load bearing
- TRAC design with four wheels of equal size - up to 42 inches
- 8.8 litre six-cylinder CAT engine with maximum 335 HP
- Maximum torque of 1450 Nm
- Most powerful power-distributed transmission on the market from ZF
- Permanent four-wheel drive, interaxle differential, cross differential
- 50 km/h at a reduced and fuel-saving engine speed
- Cruise control
- Complete roadworthiness with a permissible total weight of 18 t
- Powerful hydraulics with generous lifting capacity
- Four-wheel steering for maximum manoeuvrability
- Gentle field travel in crab steer mode
- Rapid weight adjustments to suit your work thanks to simple ballasting
- Minimised slip
- New spacious cab
- CEBIS colour monitor - intuitive operation within a short time
- Adjustable seat can be pivoted off-centre by 20 degrees
- Rotating cab for optimum visibility and comfort in all directions
- Can be used as a tractor or system vehicle
- FIRST CLAAS SERVICE® around the clock



At CLAAS first-class service isn't just a promise, it's a reality!

XERION Testimonial

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