

Turning it over with a Teres

Amazone has a new fully-mounted plough in its range, the Teres. We operated the five-furrow vari-width last autumn.

The Teres 300V made a good impression during our test last autumn. Photos: Hubert Wilmer, Christian Brüse.



Slotting in between the Cayros XS and the Cayros XS Pro, the Teres plough is available in different versions as a four-, five- or six-furrow. The furrow width can be bolt-adjusted or hydraulic, and overload protection is either mechanical or hydraulic. Our vari-width five-furrow test Teres 300V had shearbolt leg protection as well as the combi support set-up and comfort hydraulics.

Uncluttered front end

The headstock has two slotted and one fixed hole for attaching the top link. Flanged Cat III/III N and IV N pins are available for the lower links, which are equipped with clamping cones from Walterscheid. These links can be mounted in two positions: either close to the tractor to reduce the effort needed to lift up the plough or farther back, which noticeably increases the space between the plough and tractor. Our test plough weighed in at around 2.6t.

We opted for the closer mounting position, which made it easier to handle. Moreover, all of the tractors we used were at their ease handling the Teres 300V, which is approved for up to 300hp. However, we quickly noticed the close coupling position to the tractor has one minor disadvantage: when hitching to the plough, the stowed hydraulic pipes on the swivelling hose rack bend exactly where it is touched by the tractor wheel.

The tractor must have one double-acting spool for turning over the plough and then one more which is for depth, vari-width and front furrow width – an electric pre-select control box allows you to swap between the functions on the comfort hydraulic system (£1,705 option). In our view this is money well spent as it reduces the risk of errors.

The hydraulic valve block is housed in front of the turnover shaft and protected by a sturdy sheet metal box. The 130mm turnover shaft is hollow, so all of the hoses are safely routed through here to the adjustment centre.

KEEPING IT BRIEF

For more convenience, there are lots of optional extras available for basic functions.

The combi wheel is a really good option for quick changeovers from work to road.

Although there are many grease nipples, you don't need the plough on a tractor to grease them.

Easy set-up

Plough pitch is adjusted via two galvanized turnbuckles, each with a foldable lever for making changes. The console also houses the AutoAdapt function that adjusts front furrow width automatically to the working width by controlling a parallel linkage where the two

TEST ASSESSMENT

AMAZONE TERES 300V

PRICE RANGE

€	▲	€€€
Attachment to tractor	++	
Turnover mechanism	++	
Clearance	++	
Furrow width adjustment	++	
Overload protection	○	
Disc coulter	++	
Support wheel/ combination wheel	+ / ++	
Manure skimmers	+	
Road transport	+	
Weight	○	
Quality of work	+	
Risk of blockage	+	
Draft requirement	-	
Pitch adjustment	○	
Setting the front furrow width	++	
Setting the skimmers	○	
Transport changeover	+	
Maintenance costs	○	
Wearing metal change	+	
Build quality	++	
Paintwork	+	
Hose routing	+	
Tools	+	
Lights	○	
Operator manual	○	

Ratings: ++ = very good; + = good;
○ = average; - = below average;
-- = poor



Just a few quick steps allow the combi wheel to share the plough's weight during transport, making the outfit much smoother on the road.



Clutter-free headstock with SmartCenter offers various coupling options to the plough tractor.



The electro-hydraulic switch box made using the test Teres very simple for novice operators.

New combi wheel

Our Teres came with the new combination wheel, which is listed at a rather rich £4,620. This gives you stepless depth control – either mechanically or, as on the test plough model, hydraulic via a double-acting spool. The scale is simple to read; in fact all of the scales are easy to see.

The wheel turns nice and smoothly, moving automatically into its mid-position before the turnover starts. Another big plus is when you have to travel quite a distance to the next field: after a few simple steps and a little practice you can use it as a transport wheel. This is done by quickly refitting two bolts using the supplied tool and then latch the lock on the headstock. It isn't necessary to remove the hydraulic cylinder on the wheel for this. For shorter distances, the Teres 300V rides well on the linkage, but the wheel makes for a much smoother travelling companion.

There is a choice of different tyres: our wheel was clad with a 360/45-17.5 with a special AS tread pattern, which is claimed to ensure it keeps turning and has good self-cleaning – this proved to be just the case. Even so, in last autumn's very wet conditions we sometimes wished we had an even bigger wheel. The £75 extra compared to the standard 340/55-16 tyre is definitely worth it. An optional wheel scraper (£55) completes the combi wheel.

Fresh bodies

Up to now, Amazone had five different types of board to choose from. Now they are adding

the plough, a ram swings in the beam without reducing the working width. The benefit is to limit the amount of wear in the leg linkages. But, for us, it had another advantage – swift turnovers, which take about 19 seconds.

Massive beam

The main plough beam is 150mm box section. Amazone says the high-strength tubes have 8.8mm walls. The beam of the 5+0 model is single-piece and can take a sixth furrow at the end.

Our test plough model also had the basic leg protection, which uses a shearbolt that was perfectly adequate, as we had relatively few stones. Replacement bolts and one 22mm spanner (a second one is missing) are supplied with the machine and stored in the on-board toolbox. Amazone says that the bolts shear at more than 4,400daN. Hydraulic auto reset is a £5,490 option, and it has the benefit of adjustable break-back pressure.

hydraulic cylinders communicate with each other. So, regardless of its working width, the point of draft is always correctly set and the plough doesn't drag to the side.

We liked how precisely all of the features were adjusted. There are two ways of altering the front furrow width: either in synch with the working width via a double-acting spool; or separately from a 3/2-way diverter valve; or, as on our test plough, electrically. Amazone recommends using the separate control when ploughing sloping fields or in very changeable soil types.

The turnover swivel was given its own name – SmartTurn – because, before turning over

🔍 PRACTICAL TEST

the WXL35 body to the choice. Suitable for medium, heavy and very heavy soils, this was also fitted to our test plough. The body offers a furrow width of between 30cm and 50cm; working depth ranges from 15cm to 28cm. The WXL35 did a great job in our sandy and heavy loamy soils. It turned the soil over well, incorporated residue and also crumbled the soil well. This takes a lot of power. In fact, our impression is that in the same soils the new board was harder to pull than the STW35 on the semi-mounted Amazone Tyrok model (profi 9/2023). However, it is important to mention that the wet conditions last autumn did make ploughing difficult.

Amazone's share design is well known: the point overlaps with the wing, preventing plant or root material from catching. In addition to the standard point, there is also a hard-faced point available (£145).



The new WXL35 body did a very nice job of rolling over and crumbling the furrow. The M2 manure skimmers did an excellent job, too.

The main settings are clearly laid out and easy to understand.

MEASUREMENTS

AMAZONE TERES 300V

Number of furrows	Five
Bodies	WXL 35
Body working width	30 to 50cm
Working width	1.65m-2.75m
Beam size ¹⁾ ... thickness	150 x 150mm 8.8mm
Underbeam clearance	80cm
Interbody clearance	100cm
Trip force Overload protection	4,335daN
Linkage	Cat III
Turnover time	Approx. 19 sec
Disc coulters diameter	500mm
Tyre size	360/45-17.5
Weight	2,610kg
In work – on wheel	1,560kg
– on lift arms	1,050kg
No. of grease nipples	36
Length/width	5.50m/1.80m
Max. tractor power	220kW/300hp
List price ²⁾ ... base specification	£33,515
...test specification	£42,090

¹⁾ during transport; ²⁾ manufacturer information
Prices excl. VAT

Basic skimmers, good disc coulters

We also had the new M2 skimmers. Made for dealing with large amounts of crop residue, these universal skimmers did a really good job for us; we were favourably impressed. They can be mounted in two positions relative to the body.

Amazone fits them close to the body at the factory, but during our test time we moved them to the front hole, which worked better. Skimmer depth is adjusted without tools in a sliding rail; this is fine, although we would like to be able to adjust the angle, too.

As for the disc coulters on the last furrow, Amazone provides a range of options. Our machine had the 500mm scalloped disc on a long arm that holds the mechanical break-back system and positions them ahead of the skimmers. Adjustment and operation were impressive during the test.

Ploughing

We not only ploughed in cereal stubble and catch crops, but we also incorporated maize ground with a layer of trash. It pretty much ticked all of the boxes with the extras fitted. Attachment is largely straightforward thanks to electric pre-selection of the key hydraulic functions. All of these functions are clearly shown and easy to swap between. The scales on the plough are durable and, as mentioned, clearly visible to help operators adjust the settings.

The SmartTurn function worked perfectly; turnovers were both gentle and swift. You just have to keep the spool pressurised for a moment after turning over; otherwise you won't be able to alter the working width later on and will have to start all over again.

Simple to tweak

Apart from the plough pitch, which is set manually on the stops, all of the other main settings are done through the control box and hydraulics, so there is not much of a demand on the user to hop on and off the tractor. The front furrow width adjusts hydraulically and automatically relative to current working width. Point of draft shouldn't need adjusting, although it is possible; but the necessary tools are not supplied with the machine. Amazone adds that the factory settings are generally on the ball and shouldn't need changing, but the tweaking option is there if the operator feels the need.

We really liked the way it turned over the soil, the furrow slices and its cultivating effect, albeit this kind of work does require a lot of power as described. We regularly achieved the best finish when setting the furrow width at about 46-48cm. Amazone says, although the theoretical width is up to 55cm, for these bodies they recommend no more than 50cm.

Other details

- The optional press arm (£1,940) is flange-mounted to the frame and has a universal



Combi wheel is available in hydraulic or, as shown here, mechanical versions. There are several tyre size options; we had the 360/45-17.5.



The disc coulters on the last furrow does a neat job. Plain discs and even spring-protected solutions are on the manufacturer's options list.

catch mechanism. This arm doesn't require an extra spool, because it's controlled by the turnover sequence.

- With respect to service and maintenance, we liked the fact that you can service all of the 36 grease points without having the plough hitched to a tractor, although it does make the job more convenient. For better access, Amazone could fit angled nipples here and there.
- There's some room for improvement on the routing of the hydraulic hoses.

- Swinging the combi wheel into transport position and back works excellently after a little practice. Its bolts can't be confused, which is very good and, above all, is very safe.

Summary

Last autumn, we tested the Amazone Teres 300V, a universal, well-equipped plough that left a good impression with us. The Teres has many useful features that make it easy to attach and remove, as well as to work.

The actual ploughing job it did was mostly exemplary. We also liked the WXL 35 bodies, even though they sometimes felt hard to pull in those difficult wet ground conditions; it was an exceptional year, after all.

Last up, purchase price. In the entry-level of spec, the Teres 300V costs £33,515 and, for those wanting to know, the auto-reset five-furrow plough model starts from £40,290. Our shearbolt test plough costs £42,090.

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