



AMAZONE

Mounted reversible plough

Teres





Welcome to the world of the plough: the Teres from AMAZONE



Successful, sustainable ploughing with the Teres from AMAZONE

It is not just the philosophy but the right soil tillage methodology, taking into account the respective location, that is the decisive factor for success in agriculture.

The plough can provide a yield-securing function under certain circumstances. Where there is large-scale weed growth, the green matter and their seeds can be buried deep below ground by ploughing. This deprives the weeds of light thus preventing any chance of germination. In particular, resistant weeds can be controlled effectively in this way, whilst the detrimental influence of fungal diseases can also be reduced by ploughing. Mice and slug infestation can also be reduced significantly by ploughing.

Ploughing also promotes soil aeration. Heavy ground in particular, which warms up slowly in spring, benefits from ploughing bringing it up to temperature more quickly. Crops that require warmth can be established earlier and the short sowing windows utilised more effectively.

The Teres 200 and 300 mounted reversible ploughs from AMAZONE provide an excellent quality of work, thanks to the very high quality of their wearing metal and their ease of pull.



1. Perfect front furrow adjustment without changing the pull point thanks to the parallelogram linkage

2. Lower link shaft carried in bearings for less wear on both tractor and plough

3. SmartTurn – reduced-wear turnover process without changing the working width thanks to the frame swivel cylinder

Model	Teres 200 V	Teres 200 VS	Teres 300	Teres 300 S	Teres 300 V	Teres 300 VS
No. of furrows	4 or 5	4 or 5	4, 5 or 6	4, 5 or 6	4, 5 or 6	4, 5 or 6
Furrow width adjustment (cm)	hydraulic furrow width 30 to 50 or 33 to 55	hydraulic furrow width 30 to 50 or 33 to 55	manual furrow width 35/40/45/50	manual furrow width 35/40/45/50	hydraulic furrow width 30 to 50 or 33 to 55	hydraulic furrow width 30 to 50 or 33 to 55
Overload protection	Shear bolt	Hydraulic	Shear bolt	Hydraulic	Shear bolt	Hydraulic

The Teres concept

High output inversion tillage

- 6. High level of operational reliability thanks to the robust beam and optimum overload protection



4. SpeedBlade plough bodies with large front shin of the mouldboard for maximum speed with minimum wear

5. Perfect ploughing out to the boundary provided by the side-mounted depth wheel options

Teres mounted reversible ploughs



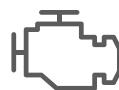
MORE INFORMATION
www.amazone.net/teres



PRODUCT FILM
Teres 300 – see more



30 to 55 cm/furrow



Up to 300 hp



Up to 10 km/h



4, 5 or 6 furrows

Perfect ploughing under all conditions

Used in inversion soil tillage, the Teres 200 and 300 mounted reversible ploughs are characterised, in particular, by their robustness, the ©plus hardening process and their ease of pull. Equipped with the SpeedBlade plough bodies, high working speeds are achieved even with up to 6 furrows. Yet still with minimal wear thanks to the patented, large front shins of the mouldboard ensuring a long service life and cost-effective operation.



OUTPUT

High performance!

Unique SpeedBlade plough bodies with an enlarged front shin of the mouldboard and the ©plus hardening process enable higher speeds with less wear. Quick, smooth turnover process even at the larger furrow widths as a result of the SmartTurn frame swivel cylinder.



ROBUSTNESS

Sturdy!

Box section beam made of high-strength steel for a long service life. ProtectShaft cross-shaft with integrated bearings for damping shock loads on the headland and when driving on the road.



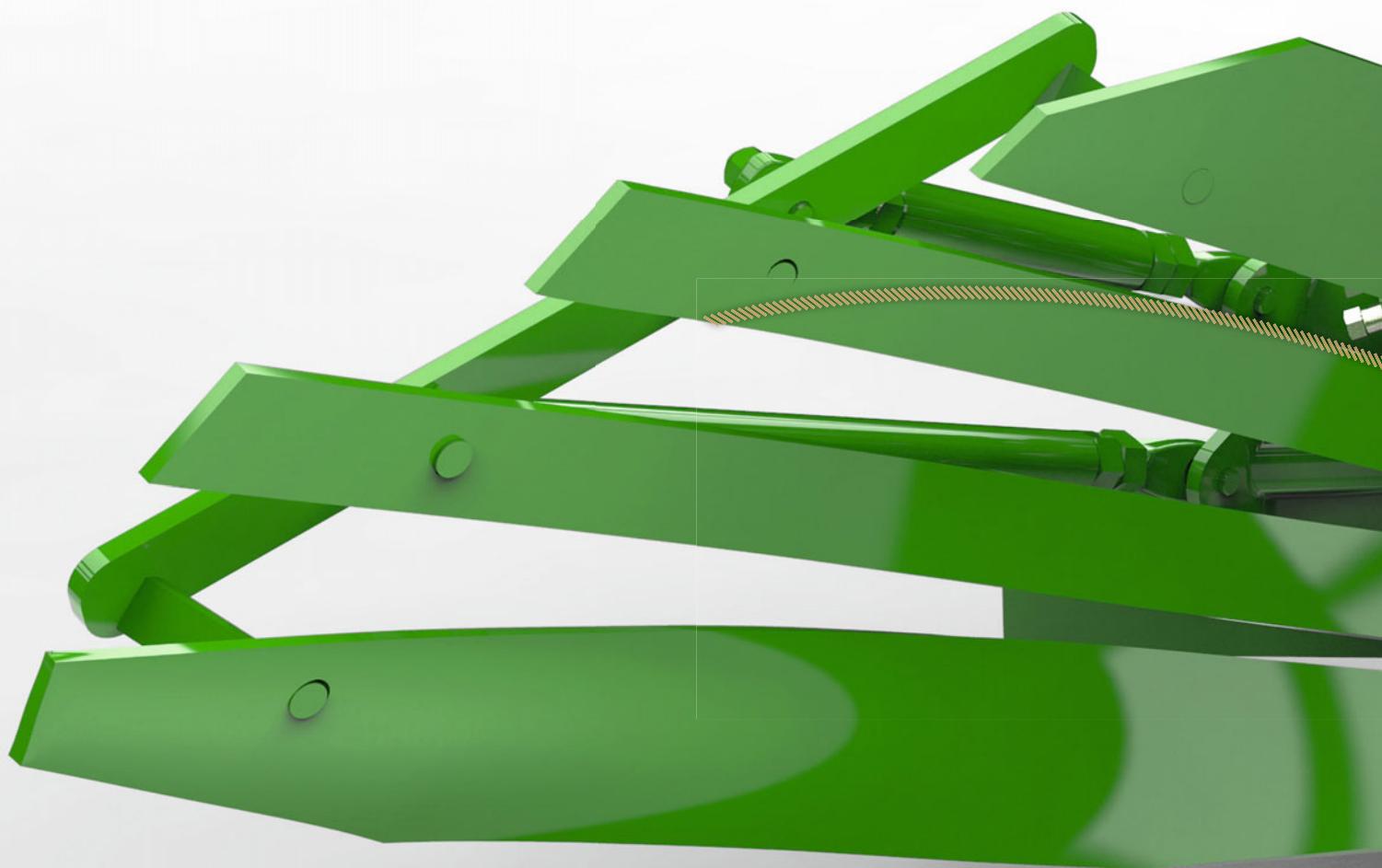
COMFORT

User-friendly!

AutoAdapt – automatic, precise hydraulic adjustment of the front furrow width in conjunction with the infinitely-variable furrow width adjustment. Wide choice of various side-mounted and rear-mounted support wheels for safe road transport and neat working in the field.

SpeedBlade plough bodies

Plough bodies from a new perspective: maximum speed, minimum wear



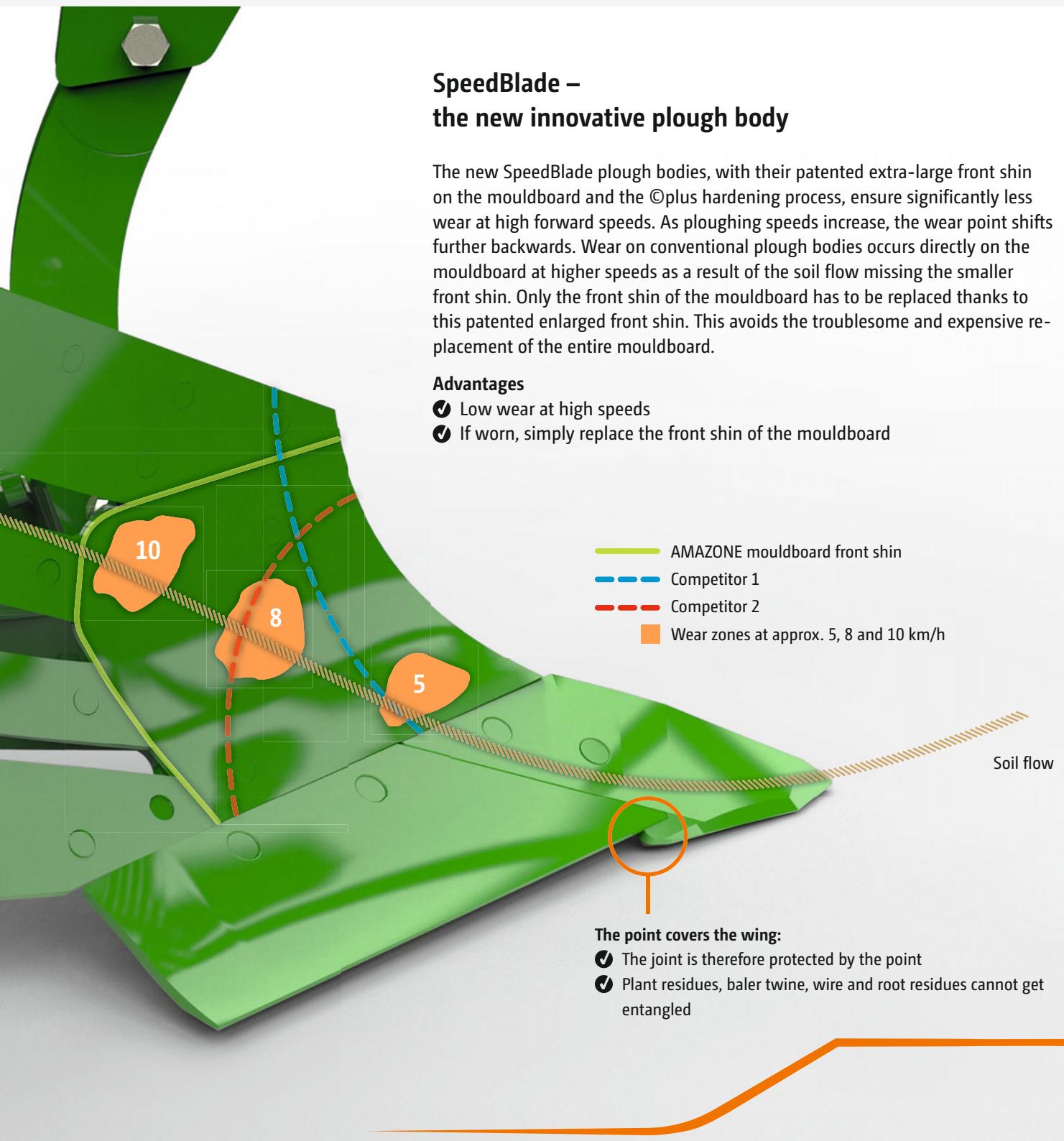
STU 40 SpeedBlade plough body

SpeedBlade – the new innovative plough body

The new SpeedBlade plough bodies, with their patented extra-large front shin on the mouldboard and the ©plus hardening process, ensure significantly less wear at high forward speeds. As ploughing speeds increase, the wear point shifts further backwards. Wear on conventional plough bodies occurs directly on the mouldboard at higher speeds as a result of the soil flow missing the smaller front shin. Only the front shin of the mouldboard has to be replaced thanks to this patented enlarged front shin. This avoids the troublesome and expensive replacement of the entire mouldboard.

Advantages

- ✓ Low wear at high speeds
- ✓ If worn, simply replace the front shin of the mouldboard



First-class quality for long-lasting wear parts

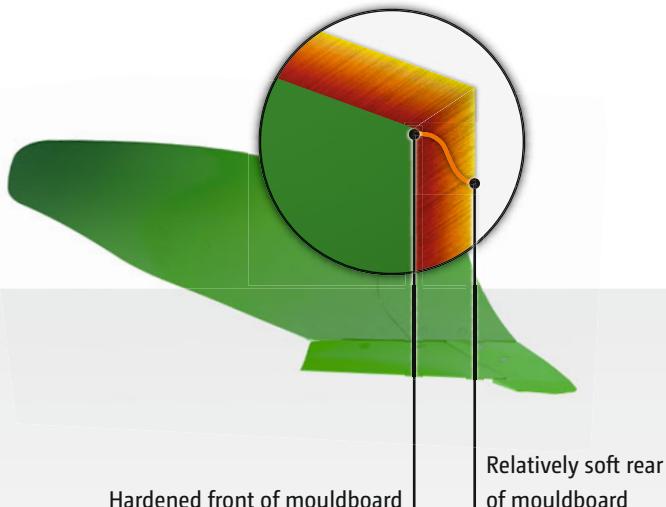
The ©plus hardening process – the know-how of heat treatment

As a manufacturer of wearing parts for the soil tillage industry, we can look back on a history spanning decades. Continual advances in materials and production technology as well as our expertise in heat treatment are the basis for achieving the highest possible quality in our wearing parts for ploughs.

Carbon in its purest form, diamond, is the hardest naturally occurring substance. A hardening process which involves introducing carbon into the steel is used to increase the hardness and durability of ©plus wearing parts. AMAZONE uses a unique hardening process to achieve a very high level of hardness on the front of components, such as the shin, to produce the optimum resistance to wear. The back remains relatively soft but at the same time extremely tough and impact resistant.

Benefits of the ©plus hardening process:

- ✓ Longer service life
- ✓ High impact resistance
- ✓ Less pulling power requirement
- ✓ Reduced fuel consumption
- ✓ Less sticking to the smoother outer surface



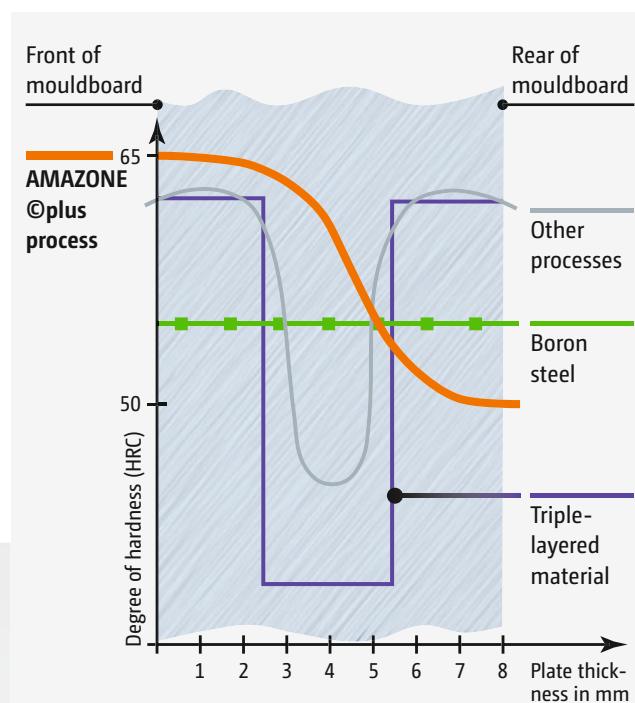
✓ The ©plus hardening process

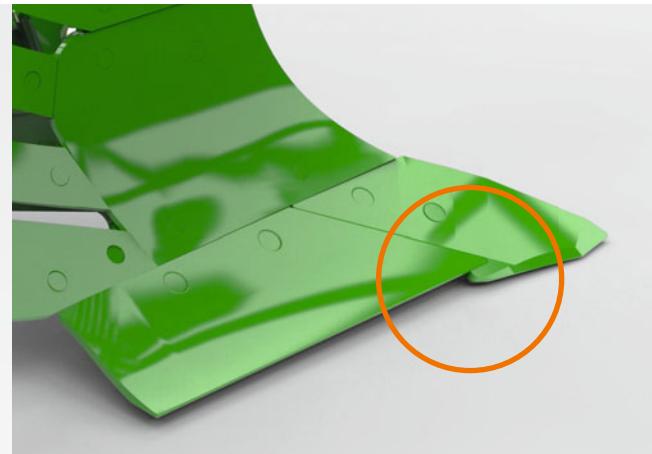


Box section beam made of high-grade steel for a long service life

All the beams on AMAZONE ploughs are produced from a special high-tensile steel. The over-sized wall thickness means that, not only is the whole beam robust, but also all the bolt fixings are extremely strong with this heavy wall thickness also preventing any hole elongation or deformation of the box section around the bolt fixings. A further feature of the ploughs is the design of the plough beam without any weld seams.

Cross-section of mouldboard – comparison of the different hardening methods





Coverage of the point with the wing

Points – the right point for every application

The advantages of the different points:

Integrated point:

- ✓ Angled forwards for good soil penetration
- ✓ The point covers the wing
- ✓ Reduced drag thanks to the smooth transition between the point and the front shin of the mouldboard

Integrated HD point:

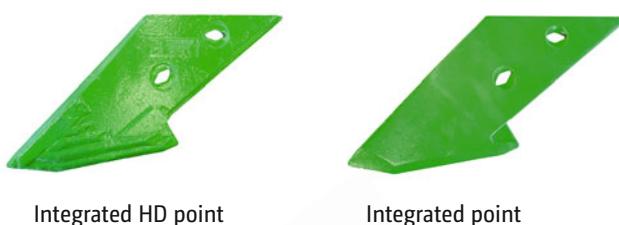
- ✓ Angled forwards for good soil penetration
- ✓ Hard-faced at the rear
- ✓ For an exceptionally long service life
- ✓ Reduced drag thanks to the smooth transition between the point and the front shin of the mouldboard

Integrated S HD point:

- ✓ Narrower and angled even more forwards for excellent soil penetration
- ✓ Hard-faced at the rear
- ✓ For particularly tough conditions and a long service life
- ✓ Reduced drag thanks to the smooth transition between the point and the front shin of the mouldboard

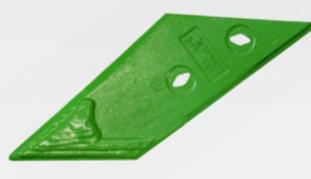
Covered point – maximum ease of pull of the plough body

Since the point covers the wing, the joint is protected by the point. This clever join up means that no plant residues, baler twine or root remnants get caught in the share.



Integrated HD point

Integrated point



Integrated S HD point

Open frog – to make things lighter

The shape of the open frog prevents soil from getting caught underneath. This means that the plough is even easier to pull. At the same time, the solid adjustable support of the slatted mouldboards provides more stability.



AMAZONE plough bodies

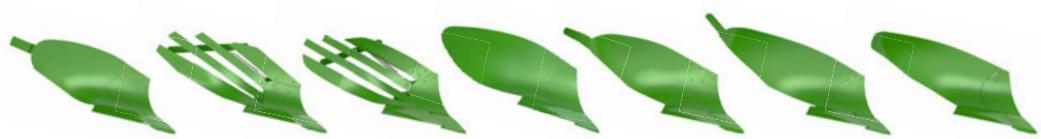
Reliable – Easy to pull – Top-class



Overview

Suitability:

++	very well suited
+	well suited
○	suited
-	poorly suited

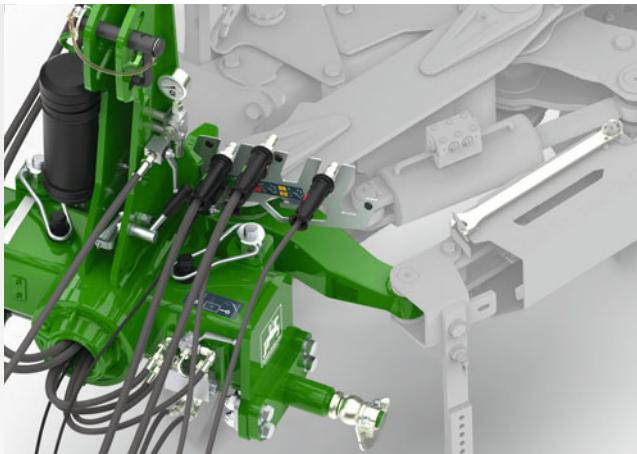


Plough bodies	U 40	STU 40	STW 35	WL 35	W 35	WXL 35	S 35
Minimum working depth approx. (cm)	18	18	18	12	15	15	15
Maximum working depth approx. (cm)	35	35	30	33	30	28	30
Maximum furrow width approx. (cm)	55	55	50	55	50	55	50
Suitability	- ○ + ++	- ○ + ++	- ○ + ++	- ○ + ++	- ○ + ++	- ○ + ++	- ○ + ++
Light, sticky soils (peat)							
Light soils (sand)							
Medium soils							
Heavy soils							
Very heavy soils (clay)							
Sloping terrain	●	●	●	●	●	●	●
Crumbling	●	●	●	●	●	●	●
Furrow clearance	●	●	●	●	●	●	●
Pulling power requirement	●	●	●	●	●	●	●
Soil inversion	●	●	●	●	●	●	●

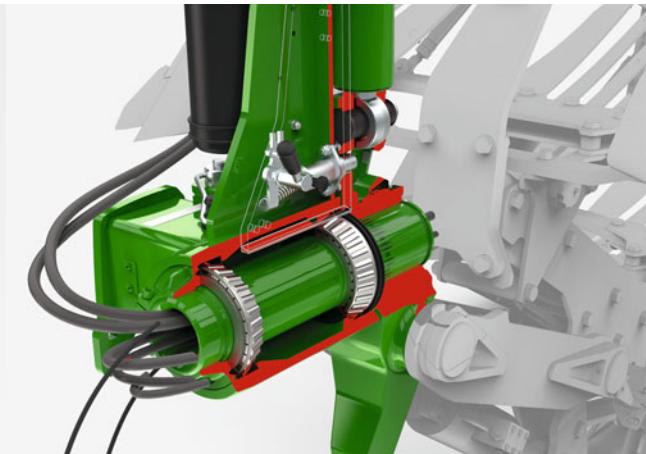
Comfort, durability and low wear and tear

The Teres headstock





Teres SmartCenter



Turnover shaft on the Teres

SmartCenter for more comfort

The uncluttered hose rail enables optimum hose routing to the tractor. So nothing stands in the way of quickly attaching the plough. The hose rail sits completely behind the headstock in the working position.

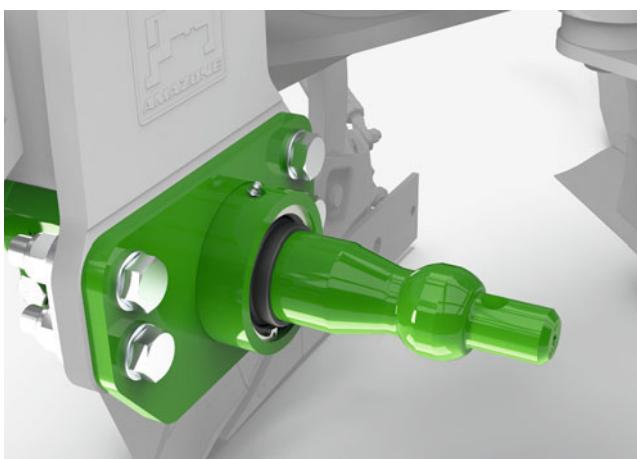
Turnover shaft for a longer service life

The hollow, over-dimensioned turnover shaft, with a diameter of 120 mm on the Teres 200 and 130 mm on the Teres 300, allows for 2 equally sized bearings. This markedly increases durability. At the same time, the turnover shaft enables clean routing of the hydraulic pipes without the hoses being damaged.

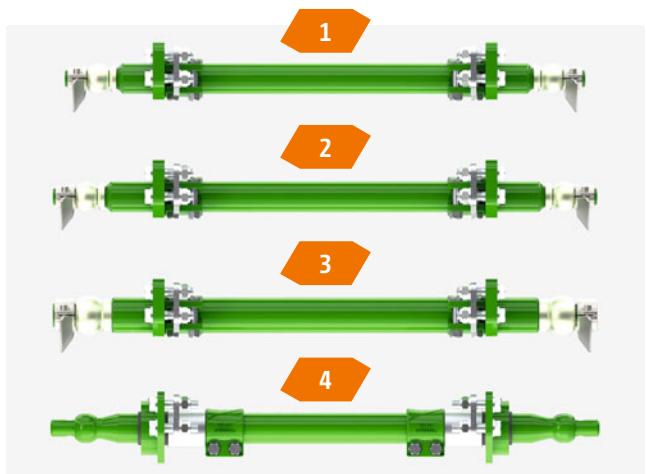
AMAZONE ProtectShaft – for less wear

The bearing-mounted ProtectShaft cross-shaft with integrated lower link balls ensures low levels of wear and maximum durability. The pivot bearings have a dampening effect and protect the plough on the headland and when driving on the road. Thanks to the integrated balls, the

durability of the cross shaft is increased markedly on account of the larger diameter. The cross-shaft with a fixed pin including lower link balls and Walterscheid clamp type guide cones is available as an alternative.



AMAZONE ProtectShaft for less wear



1. Cat. 3N with cylindrical pins
2. Cat. 3 with cylindrical pins
3. Cat. 4N with cylindrical pins
4. Cat. 3 with integrated balls

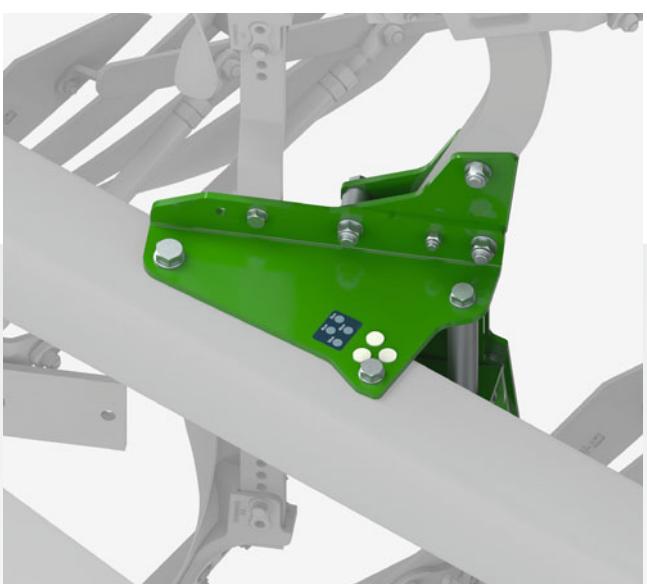
Work without compromise



The Teres 300 and Teres 300 S – with manual furrow width adjustment

Rotating each pair of plough bodies enables you to change the furrow width quickly and simply. You can choose between 35, 40, 45, and 50 cm for each body. The soil-engaging tools and disc coulters are also adjusted automatically.

Setting the furrow width by turning the plough bodies





Hydraulic adjustment of the furrow width

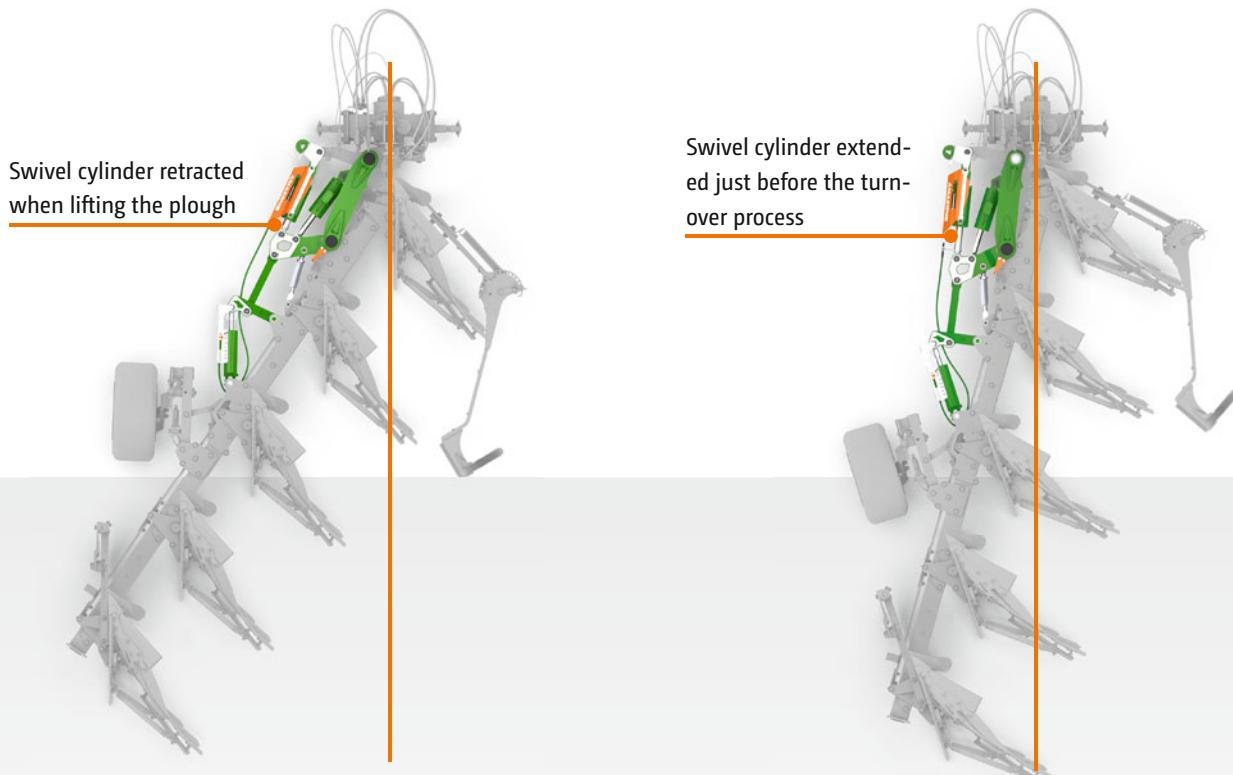
Teres V and Teres VS – with hydraulic furrow width adjustment

The furrow width of the Teres V and Teres VS ploughs can be adjusted steplessly via the hydraulics on the tractor. A very clearly visible display, consisting of a scale and indicator, keeps the driver informed of the furrow width setting. The integrated kinematics of the Teres also automatically set the front furrow width, all the soil engaging tools and the support wheel.

The advantages of the Teres V and VS

- ✓ Variable furrow width from 30 cm to 55 cm per body
- ✓ Automatic adjustment of the front furrow when changing the furrow width thanks to AutoAdapt
- ✓ No readjustment necessary
- ✓ Comfortable and time-saving operation

Practical use of the frame swivel cylinder



SmartTurn –smooth turnover in the shortest of time!

After lifting the plough, the beam is swivelled in without causing any stress before the turnover process starts. The furrow width is not changed by swivelling in the beam. This prevents wear, especially on the plough body bearings, and also enables a higher ground clearance during turnover. Once the plough has been turned, the frame swivel cylinder automatically returns the beam to the working position. The swivel cylinder extends in accordance with the furrow width. In this respect, a push/pull cable relays the position of the furrow width to a valve, thereby restricting the cylinder travel.

Front furrow adjustment

Always the right setting thanks to AutoAdapt



Seamless matching of the furrows as a result of the correct front furrow width adjustment



The perfect match, pass to pass, under all conditions

The front furrow on the Teres stepped plough is adjusted mechanically as standard. The ingenious structure of the setting centre means that the adjustment of the front furrow does not change the pull point. This is done using an easy-to-use, sturdy spindle. As an option, hydraulic

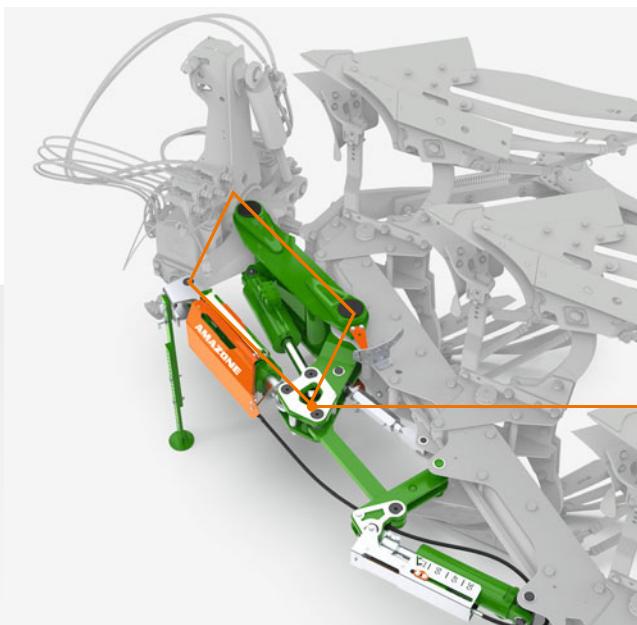
adjustment is also possible on the stepped plough. The front furrow adjustment on the Teres V vario plough is carried out hydraulically as standard. This, in combination with AutoAdapt, ensures a perfect matching up at all times and under all conditions.

AutoAdapt – automatic adjustment of the front furrow when changing the furrow width

The front furrow is also automatically adjusted by AutoAdapt when the overall furrow width is changed. Precise match-up is possible under any conditions thanks to the parallelogram and the hydraulic connection between the furrow width and front furrow cylinder. The accurate matching to the last furrow ensures perfect work results. AutoAdapt also has a positive effect on fuel consumption, since the pull point is not changed during the adjustment process.

The advantages thanks to AutoAdapt:

- ✓ Simple and comfortable adaptation of the front furrow to the furrow width
- ✓ Precise connection
- ✓ Robust, low-wear system for basic adjustment
- ✓ Highly responsive, even on the move, owing to the direct control of the first body
- ✓ Perfect plough profile even on variable soils, slopes or when changing tractors
- ✓ One-off setting of the pull point via the parallelogram guidance



Precise adjustment of the front furrow width when changing the overall width via the parallelogram

Robust beam and optimum overload protection

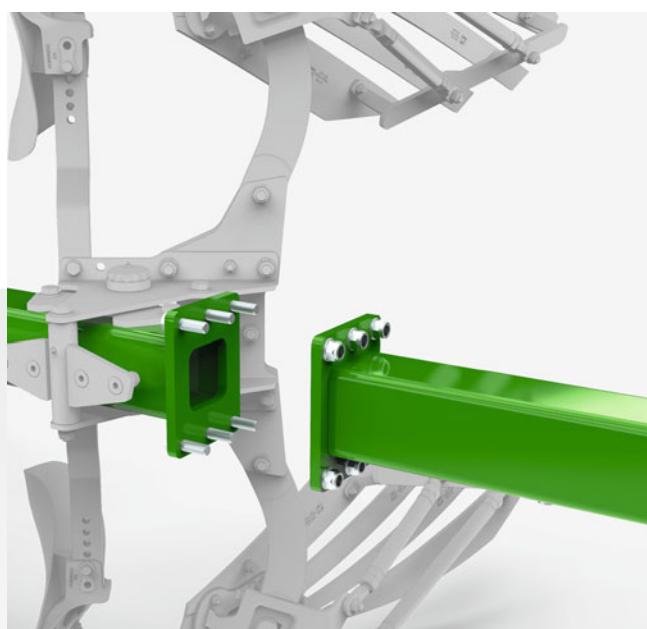
Always on the safe side

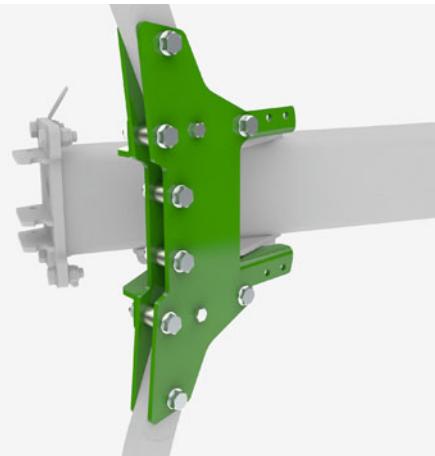
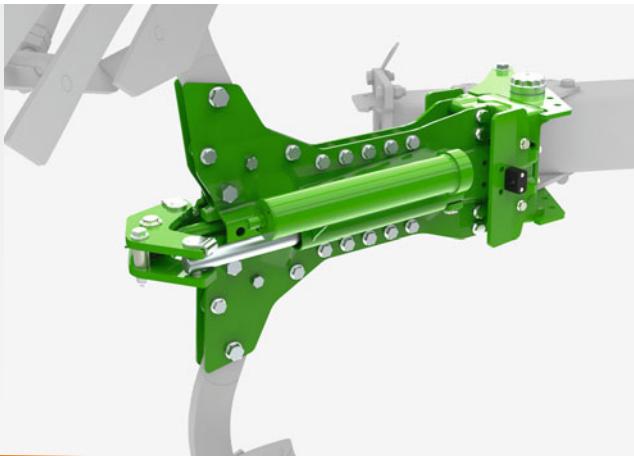


The beam – high flexibility

The sturdy, tubular 120 x 120 x 10 mm beam on the Teres 200 and 150 x 150 x 8.8 mm on the Teres 300 gives the plough a high level of rigidity whilst maintaining low weight. The simple yet strong design of the Teres enables the use of an extendable beam system.

Extendable beam system with flange





Hydraulic overload protection

The hydraulic overload protection is basically a hydraulic cylinder with a directly connected, nitrogen-filled hydraulic accumulator on each pair of plough bodies. When triggered, the plough body pushes a piston into the accumulator via the hydraulic cylinder. The gas is compressed and automatically returns the body to its initial position after passing the obstacle. A choice can be made between the standard hydraulic protection with decentralised adjustment or the optional protection with central adjustment for convenient and quick adjustment of the release pressure of all bodies.

The benefits

- ✓ Simple adaptation of the release force
- ✓ Smooth and material-protecting operation
- ✓ Exchangeable ball joints and sockets
- ✓ As standard, with additional shear bolt

It's better to bend than to break

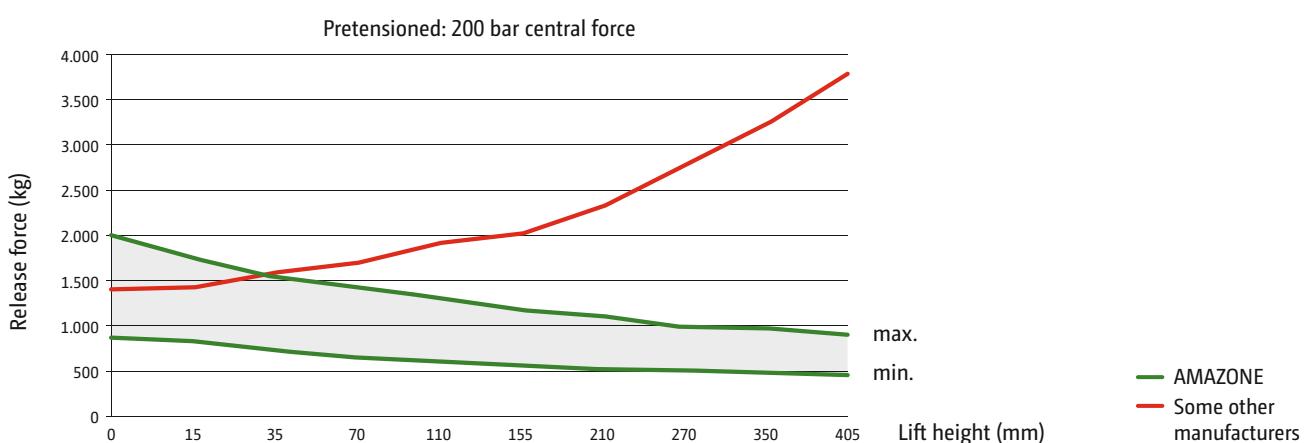
The pressure acting on the plough bodies is determined by many different factors. The correct release pressure is of great importance so as to ensure that the body sits firmly in the ground, but no stones are ploughed up. This can be comfortably set with the hydraulic overload protection.

Mechanical overload protection with shear bolt

Shear bolts are the tried and tested standard solution for this system. Under load, the shear bolt snaps off at the predetermined breaking point and the plough body gives way to the obstacle by swivelling upwards. The high release forces of the shear bolt enable use even in heavy and hard soils.

The benefits

- ✓ 4,400 kg shear force
- ✓ Clean shear-off owing to the double-cut, hardened flange plates



The support wheel

Exact depth control and reliable self-driving effect



Pendulum support wheels

A choice of mechanical or hydraulic pendulum support wheel is available for the Teres. Whereas the mechanical wheels are mounted laterally or at the rear, the hydraulic pendulum support wheels are only mounted laterally. Depth adjustment is provided mechanically via spindles or hydraulically from the comfort of the cab via a double-acting spool valve with a clear and easy-to-read scale.



Hydraulic pendulum support wheel, lateral



Mechanical pendulum support wheel, rear

Combi wheel

AMAZONE offers the hydraulically or mechanically adjustable combi wheel for an easy handling when changing between the transport and working positions. In this respect, the hydraulic cylinder does not have to be detached, and the lever can be quickly separated from the wheel arm thanks to ultra-easy locking and unlocking. The wheel is mounted on the side of the Teres, thereby enabling ploughing right up to the boundary.



Hydraulic combi wheel, lateral



Tyre size:
10/75-15

Tyre size:
10/75-15.3

Tyre size:
340/55-16

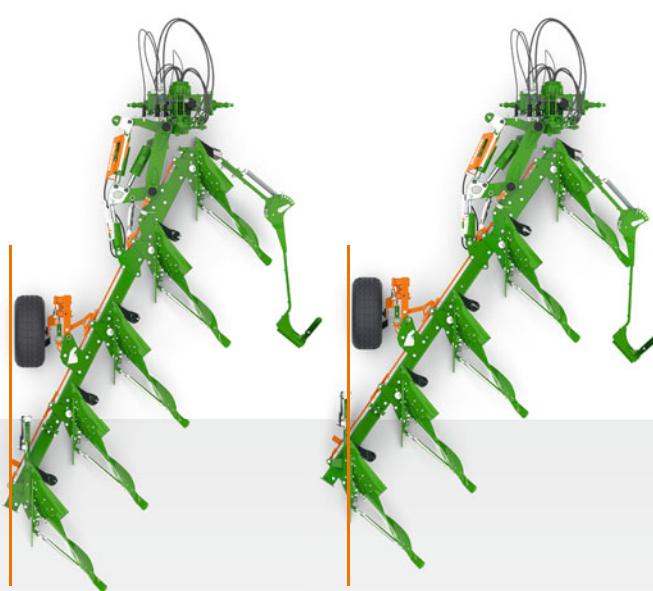
Tyre size:
360/45-17.5

✓ The various tyre sizes mean that the support wheel can be optimally adapted to the practical requirements.



Perfect boundary ploughing

The support wheel is positioned at the side of the beam, so that ploughing close to the field border is possible. The wheel is located inside the furrow width at maximum furrow width. The wheel is located inside the machine even at medium furrow width. Working directly near boundaries or obstructions becomes even more precise as a result.



Furrow width per body: 42.5 cm

Furrow width per body: 55 cm

Packers

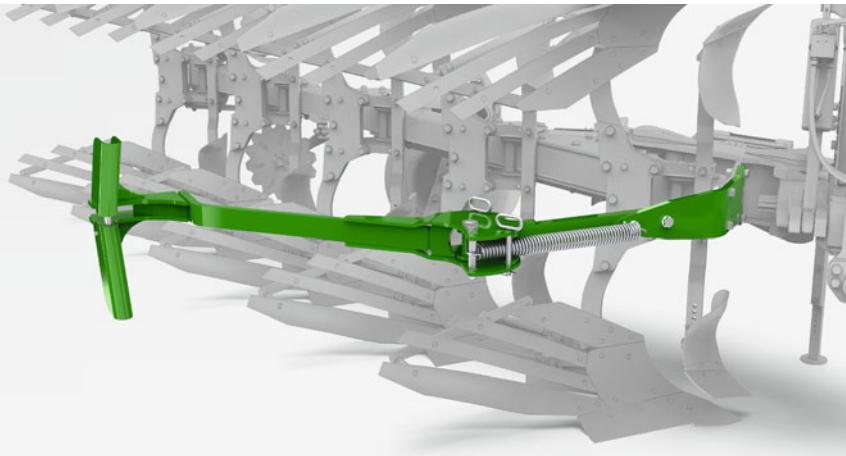
Levelling and reconsolidation in one pass



Integrated packer system for the Teres 300 – for even greater efficiency

Cooperation between VSS Agro and AMAZONE further expands the range of different reconsolidation options.

With the FurrowPress attachment kit for the Teres 300 and Teres 300 V, the advantages of an integrated packer system can now also be used on AMAZONE ploughs.



Robust, adjustable swivel press arm

Swivel press arm for the Teres 200 and 300

A swivel press arm can be fitted as an option for combining the plough with a packer. All packer arms are equipped with a spring-loaded catcher which dampens the load

peaks caused when picking up the packer. The arm is operated hydraulically via an additional spool valve for optimum comfort.

Packer – for optimum reconsolidation

AMAZONE has expanded its packer range via a strategic co-operation with the company Tigges for even greater efficiency on your farm. As a result, it is now possible to combine the Teres with packers from Tigges in a matching AMAZONE design. Various ring diameters as well as different ring profiles are offered. In addition, there is a choice of single or double ring packers, up to a working width of 4.65 m.



MORE INFORMATION
VSS Agro FurrowPress



MORE INFORMATION
www.tigges.com





The models: Teres 200 V and VS



Teres 200 VS with five furrows for high work outputs



30 to 55 cm/furrow



Up to 200 hp



Up to 10 km/h



4 or 5 furrows



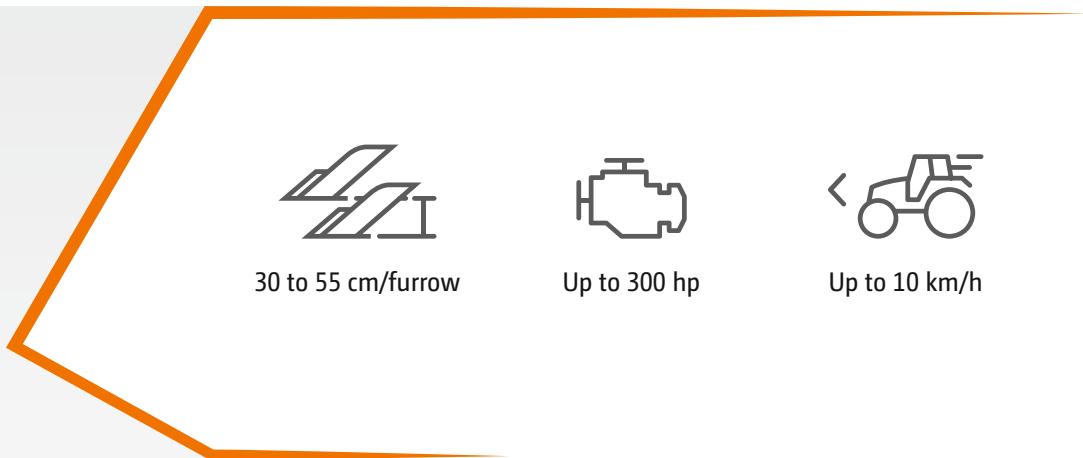
Overview of the Teres 200:

	No. of furrows	Interbody clearance (cm)	Frame height (cm)	Furrow width adjustment (cm)	Overload protection	Release force overload protection (kg)
Teres 200 V	4	90/100	80/85	hydraulic furrow width 30 to 50 or 33 to 55	Shear bolt	4400/4100
	5					
Teres 200 VS	4	90/100	80	hydraulic furrow width 30 to 50 or 33 to 55	Hydraulic	2000
	5					

The models: Teres 300: S, V and VS



Teres 300 VS with 6 furrows for comfortable ploughing at maximum working speed



Overview of the Teres 300:

	No. of furrows	Interbody clearance (cm)	Frame height (cm)	Furrow width adjustment (cm)	Overload protection	Release force overload protection (kg)
Teres 300	4	100	80/85	manual furrow width 35/40/45/50	Shear bolt	4400
	5					
	6					
Teres 300 S	4	100	80	manual furrow width 35/40/45/50	Hydraulic	2000
	5					
	6					
Teres 300 V	4	90/100	80/85	hydraulic furrow width 30 to 50 or 33 to 55	Shear bolt	4400
	5					
	6					
Teres 300 VS	4	90/100	80	hydraulic furrow width 30 to 50 or 33 to 55	Hydraulic	2000
	5					
	6					

Technical data



Teres 200 mounted reversible plough

Model	Teres 200 V		Teres 200 VS			
No. of furrows	4	5	4	5		
Tractor power up to (kW/hp)	147/200					
Interbody clearance (cm)	90/100					
Frame height (cm)	80/85		80			
Furrow width adjustment	Hydraulic					
Overload protection	Shear bolt		Hydraulic			
Furrow width per body (cm)	30 – 50 or 33 – 55					
Support wheel (dimension)	10/75-15, 10/75-15.3, 340/55-16 or 360/45-17.5					
Weight (kg)	1760	2058	2000	2375		

Teres 300 mounted reversible plough

Model	Teres 300			Teres 300 S			Teres 300 V			Teres 300 VS								
No. of furrows	4	5	6	4	5	6	4	5	6	4	5	6						
Tractor power up to (kW/hp)	4 furrows: 160/220			5 furrows: 190/260			6 furrows: 220/300											
Interbody clearance (cm)	100						90 or 100											
Frame height (cm)	80/85			80			80/85			80								
Furrow width adjustment	Mechanical						Hydraulic											
Overload protection	Shear bolt			Hydraulic			Shear bolt			Hydraulic								
Furrow width per body (cm)	35/40/45/50						30 – 50 or 33 – 55											
Support wheel (dimension)	10/75-15, 10/75-15.3, 340/55-16 or 360/45-17.5																	
Weight (kg)	1853	2140	2509	2123	2481	2920	1884	2248	2616	2211	2622	3028						

Options for every application

Versatile for special requirements



- ① Working width
- ② Front furrow width
- ③ Working depth

Trash boards

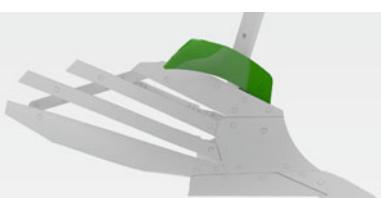
A cost-effective alternative to skimmers when incorporating surface crop residues. With additional support on the leg as standard.

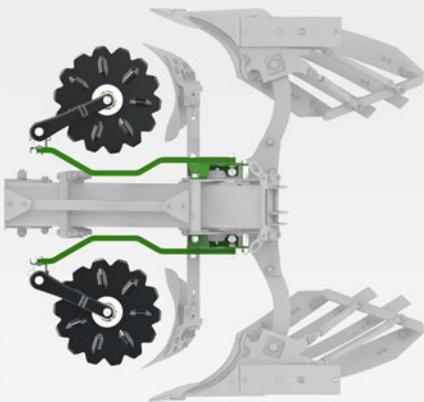
Sword landsides

The sword landside is an alternative to the disc coulter, which, especially on heavy, stony ground ensures a clean furrow wall and also reduces the wear and tear on the plough body.

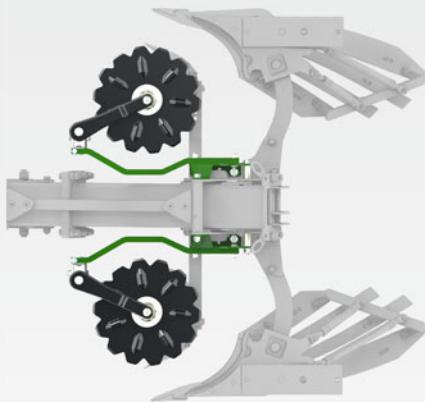
Landside protection

The landside protection increases the area of support of the plough on the furrow wall. This improves plough guidance significantly, especially on slopes. In order to enable the use of wider tyres in the furrow, a furrow-widening plate can be installed as an option on the last plough body.

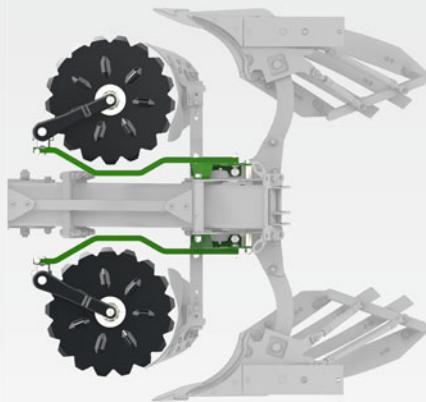




Serrated disc coulter, Ø 500 mm,
with extended holder



Serrated disc coulter, Ø 500 mm,
with short holder

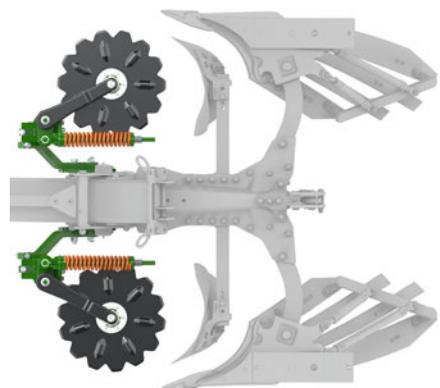


Serrated disc coulter, Ø 600 mm,
with extended holder

Disc coulters – a clean solution

The disc coulter is important for a clean ploughing finish. Disc coulters also make a considerable contribution to efficient ploughing. The disc coulters' precise cutting action helps achieve full inversion and complete incorporation of any crop residues as well as leaving an effective furrow clearance.

The disc coulter is available in a smooth or serrated profile with a diameter of 500 mm and in a serrated profile of 600 mm.



Spring-loaded, serrated disc coulter,
Ø 500 mm

Skimmers – for every situation

M2 Skimmer

The M2 skimmer is universally suited for use in grassland ploughing as well as where there are large amounts of crop residues, especially maize straw.

L2 Skimmer

The L2 Skimmer has an even stronger turned shape than the M2 Skimmer. It is therefore suitable for incorporating extreme volumes of organic matter.

G2 Skimmer

The use of the G2 skimmer ensures blockage-free ploughing, especially on heavy and sticky ground or when ploughing grassland for the first time. The easy adjustability of the skimmers means that the finish is left even more precise.



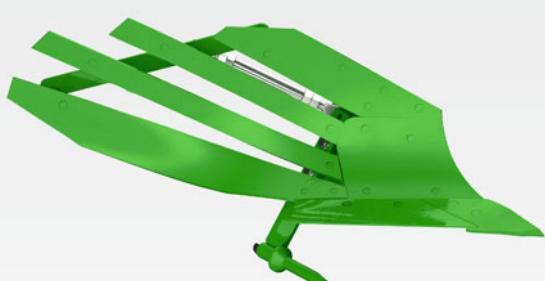
M2 Skimmer

L2 Skimmer

G2 Skimmer

Subsoil points

Under certain conditions, it may be necessary to loosen the surface below the working depth of the plough body. The loosening legs are height-adjustable and can be easily replaced.



The original is simply better

AMAZONE service and quality



Experience that pays off. That's why AMAZONE guarantees you the highest quality thanks to a very high level of vertical integration within its own factories in Europe – and it has been doing so for more than 140 years. The original is simply better.

In most cases, things need to happen very quickly, especially when time is tight for soil working. That is why AMAZONE offers a first-class parts service with genuine parts that are precisely matched to your machine. So your machine is always ready for use – quality parts and available worldwide.

The Global Spare Parts Center in Tecklenburg Leeden in Germany is the base for our worldwide parts logistics system. This ensures optimum availability of parts, even for older machines. Whenever you need us, the AMAZONE service team is there for you, supported by a network of competent and highly trained sales partners and service technicians.

AMAZONE also offers an intensive introduction to the operation and handling of your new machine on your farm by a trained member of the AMAZONE team. Alternatively, you can use "SmartLearning" – AMAZONE's interactive driver training – to familiarise yourself with the machine's operation before using it for the first time.

Reliable ploughing from the very first metre.

The advantages of genuine parts and wearing metal:

- ✓ Quality, reliability and performance
- ✓ Immediate availability, even for older machines
- ✓ Higher resale value of your used machine

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for more performance



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WARRANTY

» Register now and apply for a 24-month manufacturer guarantee!

- Extend the protection offered for your machine with a 24-month manufacturer guarantee.
- » The guarantee on offer can be applied for within the contractual warranty period of 12 months after initial installation.



PARTS

NEW

» Parts – find the right parts for your machine even more easily now!

- The right parts list for your machine with just one click.
- Identify the correct part from the exploded views in a trice.
- Create a shopping basket and send it to your service partner.



ADJUSTMENT AND OPERATION

» Now enter the machine number and see at a glance all the relevant information to help get the maximum performance from your machine

- Season start and commissioning
- Adjustment and operation
- Parts lists and operating instructions
- Maintenance and storage







AMAZONE



Illustrations, content and technical data are not binding and may differ depending on the level of equipment. Country-specific road traffic regulations apply and must be complied with, meaning that special approval may be required. The permissible axle loads and total weights of the tractor should be checked. Not all the listed combination options are possible with all tractor manufacturers.



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