



**AMAZONE**

# Innovations at AMATECHNICA 2014





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# Optimum furrow widening using the **AMAZONE X-Blade**



The X-Blade is a unique extension share bolted on to the mouldboard of the last plough body

Often, when ploughing, tractors with very wide tyres are used but when standard plough bodies are utilised this can result in damage to the furrow wall plus compaction to part of the just-loosened soil structure. To solve this problem, AMAZONE offers, for the C-Blade U40 universal body as fitted to the Cayron reversible plough, the new X-Blade widening share. The X-Blade is a specific mouldboard extension mounted on the last plough body and creates, on average, a 30% wider furrow bottom. On 22<sup>nd</sup> May 2014, AMAZONE introduced X-Blade for the first time at its AMATECHNICA 2014 field day in Hasbergen-Gaste.

The result of this wider furrow bottom is a clean next furrow without leaving a depression or groove in the soil profile. At the same time, the rolling resistance of the tractor tyre in the furrow is reduced so that the tractive forces are transferred at reduced slip.

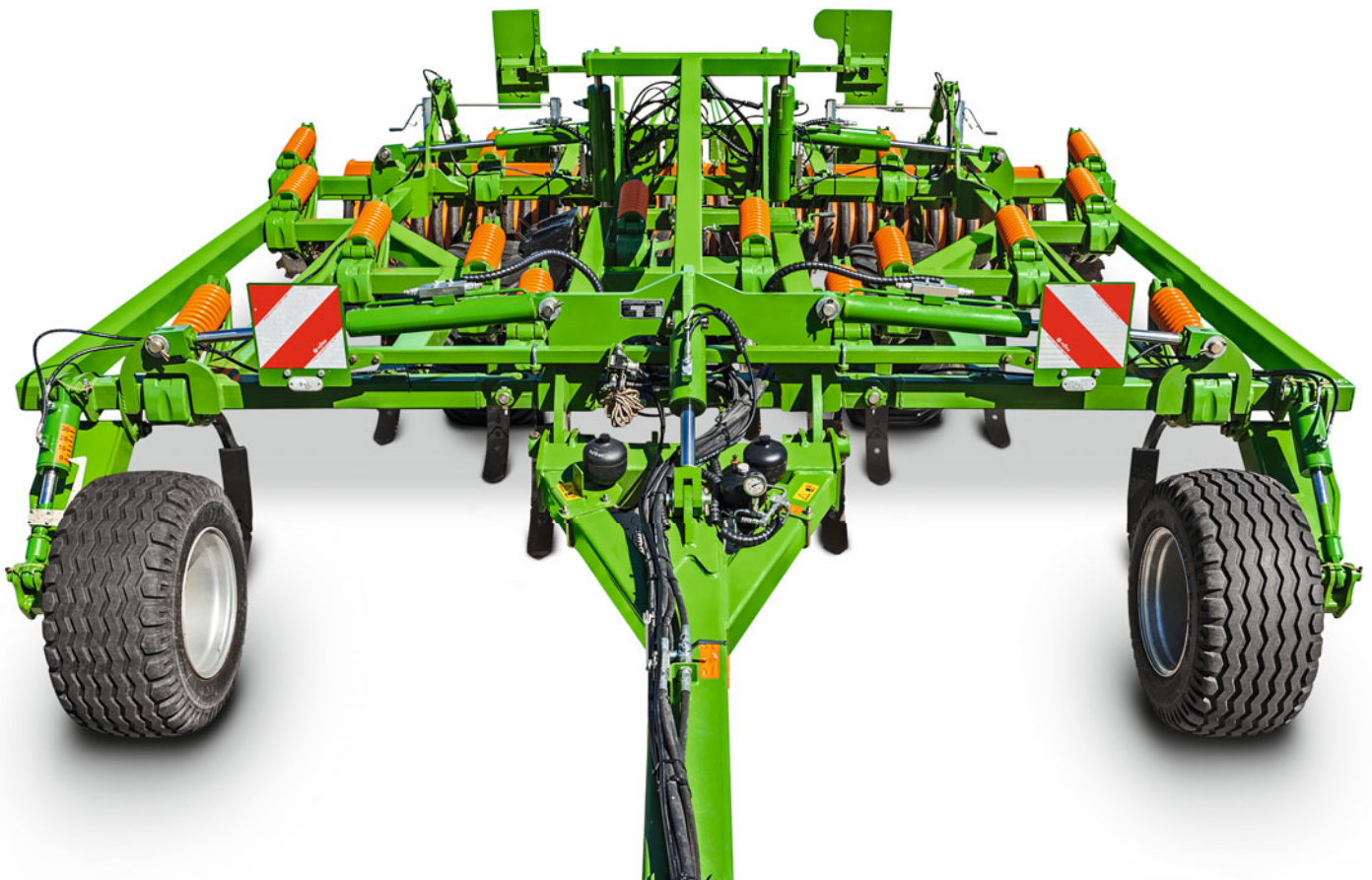
In comparison with the alternatives as found currently on the market, which equip the whole plough with wider clearing plough bodies, the X-Blade works so much more effectively. So, the tractive force and wear are reduced because the functionality of the other bodies remains entirely unaffected by the mouldboard extension on the last body. The front bodies are still working at their optimum so that the increase in the total tractive force capacity is kept down to a minimum. The fact that there is noticeably less compacted soil in the area of the next furrow is an additional advantage of using the X-Blade.

X-Blade also provides bigger operational flexibility. The design as an exchangeable wearing part makes the removal of the widening share simple when it is being pulled by a tractor with narrower tyres. On the other hand, when changing from narrow to wider tyres, the quick retrofitting is equally possible.



The additional X-Blade widening share mounted only on the rear plough body creates, on average, a 30% wider last furrow bottom

# New Cenius TX cultivators in the AMAZONE programme





With the new TX series cultivators, AMAZONE now covers a range of working widths from 4 m to 7 m

At its AMATECHNICA in-house field day on 22<sup>nd</sup> May 2014, AMAZONEN-WERKE introduced two new universal cultivators: the Cenius 5003-2TX and 4003-2TX with integrated central running gear and in 5 m & 4 m working widths. Together with the 7 m and 6 m models, the Cenius 7003-2TX und 6003-2TX, which were introduced for the first time at AGRITECHNICA 2013, AMAZONE with its new TX series now covers the range of 4 m to 7 m working widths and, in total, the Cenius family goes from 3 m to 7 m working width.

All four models, each with four rows of tines arranged in a staggered layout and with a frame height of 80 cm, provide the optimum preconditions for a trouble-free straw passage. Thanks to the newly developed C-Mix share system, they offer completely flexible operation – from shallow stubble work, via top soil deep loosening, to seedbed preparation.

Two alternatives are available as a tine overload safety device for the TX cultivators. The C-Mix Super tines are protected via a pressurised spring with a release force of 600 kg and 300 mm lift height. In this way, even when used deep and under the most difficult of operating conditions, a perfect working performance is achieved. For operation on light to medium soils without stones, however, the C-Mix Special tine with a shear bolt safety device has been designed.

For levelling the soil surface, an additional row of discs are arranged behind the last row of tines. Also here two alternatives are available: serrated levelling discs or with smooth levelling discs.

Depending on the soil conditions, the new Cenius models can also be equipped with differing following rollers for that final reconsolidation. For this AMAZONE, besides the wedge ring roller, offers the knife roller, tandem roller or cage roller.

The depth guidance of the TX cultivators is carried out both by the front via support wheels and the following roller. This depth system allows adjustment, from choice, either mechanically or via a hydraulically-actuated set-up. If it is intended to operate the cultivator under very wet conditions and without a following roller, the centre running gear can also be used for depth guidance.

The centre running gear not only makes the Cenius TX very manoeuvrable, but also allows, in combination with the mix of 550/45-22.5 and 400/600 tyres and air braking, quick road transport at up to 40 km/h. The machine is raised via the hydraulically actuated drawbar which, on request, can be equipped with a traction control system for improved force between the tractor rear tyres and the soil surface.



# ZA-TS in new sizes and widths



The new ZA-TS with S 2000 hopper extension,  
manually-actuated rollover cover and parking device



AMAZONE now has extended its new ZA-TS fertiliser spreader range with additional models. Thanks to the modular design, the new hopper capacities of between 1,700 l and 4,200 l mean that the ZA-TS spreader is suitable for any size of farm or agricultural contractor. These new spreader models were introduced for the first time at the AMAZONE AMATECHNICA in-house road show on 22<sup>nd</sup> May 2014.

As a general principle, all ZA-TS spreaders are equipped with a 700 litre deep-drawn base hopper without any corners, edges or welded seams. This design allows a continuous and even flow of the fertiliser and, at the same time, simplifies the cleaning of the spreader. The differences in the models are based on the size of the hopper extensions and in the frame strength.

In addition to the two different frame strengths, the modular programme includes six hopper extensions. For a total spreader capacity of 1,700 l or 2,000 l AMAZONE offers narrow extensions with a filling width of 2.22 m whereas larger extensions with a filling width of 2.71 m are used for the spreaders with a total volume of 2,200 l, 2,700 l, 3,200 l and 4,200 l.

In conjunction with the Super frame, with its optimised centre of gravity and designed for payloads of up to 3,200 kg and spreading widths up to 36 m, the hopper extensions between 1,700 l and 3,200 l can be specified. One of four hopper extensions, from 2,200 l up to 4,200 l

total capacity, can be mounted on the stronger Ultra frame with its 4,500 l payload and spreading width of up to 54 m.

All models are equipped with the TS spreading unit which is made completely from stainless steel with its disc-integrated Auto-TS border spreading device. This border spreading device which can be switched on and off by the driver whilst spreading, enabling the targeted spreading of the fertiliser right up to the field's border and also, in this case, a precise lateral distribution is also achieved. In addition, all spreaders feature a weighing system plus ISOBUS control system. Thanks to ISOBUS, the spreaders can be operated, from choice, via the AMATRON 3 ISOBUS, CCI 100 and AMAPAD terminals or via any other ISOBUS terminal.

All the models are available in either a Tronic or Hydro version. Whereas Tronic means mechanical spreading disc drive with half side part-width section control, the hydraulically-driven spreading discs on the Hydro version allow an eight section part-width section control. Both versions can also be equipped with the automated GPS-Switch part-width section control.

For the actuation of the rollover hopper cover on the spreaders, AMAZONE offers, from choice, either a manual actuation or remote control via a double-acting hydraulic tractor valve. In addition, as an alternative to the swivel rolling and parking device, a simple parking stand is also available.

# Comfort Pack with TwinTerminal 3.0 for the Cirrus 03 seed drills



The TwinTerminal 3.0 enables the driver to carry out the calibration procedure from ground level, directly entering the data down at the machine

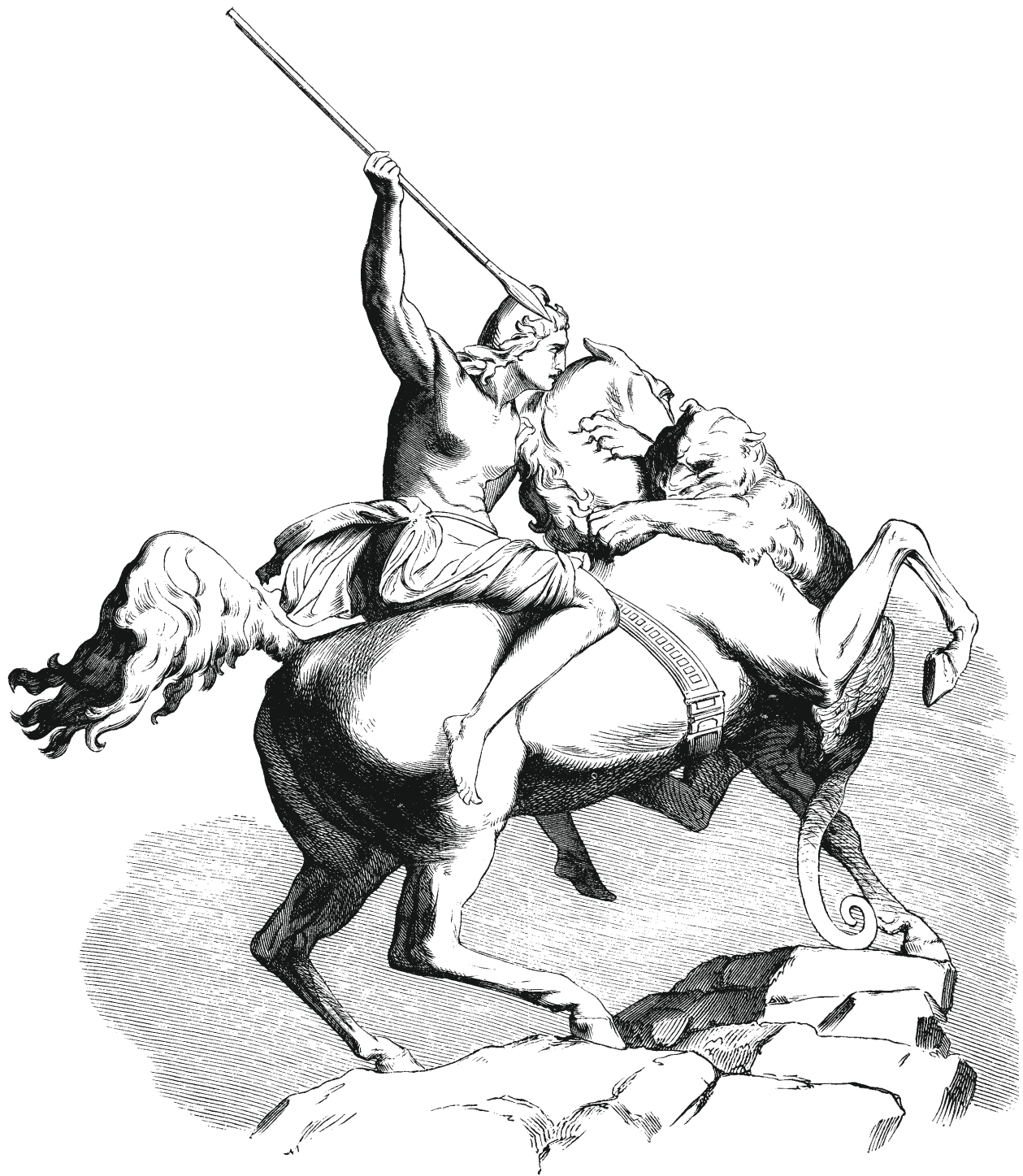
For the added simplification of pre-metering, calibration and residue emptying, AMAZONE now offers, for the Cirrus 03 seed drill series, Comfort Pack with TwinTerminal 3.0. The operator terminal for the Comfort Pack, which was introduced for the first time at the AMATECHNICA in-house road show on 22<sup>nd</sup> May 2014, is fitted directly down on the seed drill near to the metering units. This position results in a decisive advantage: the driver can now operate the calibration procedure from ground level and enter the data directly into the machine, saving the multiple times of getting in and out of the tractor cab.

The TwinTerminal 3.0 consists of a waterproof and dust-proof housing with a 3.2 inch display and four large keys for operation. It is able to access several metering units so that on machines with the additional 'Single-Shoot' fertiliser metering, fertiliser calibration can also be carried out via the new terminal.





**AMAZONE**



# Amazone



**AMAZONEN-WERKE H. DREYER GmbH & Co. KG**  
P. O. Box 51 · 49202 Hasbergen-Gaste/Germany  
Phone +49 (0)5405 501-0 · Fax +49 (0)5405 501-193