Catros compact disc cultivator.
Because performance matters!

Better, faster, more efficient!

The Catros compact disc cultivator is a specialist tool for shallow and intensively mixing stubble work. The elastic rubber block mounting for each individual disc allows the discs to adapt to the soil contours whilst the working depth is always maintained.

Rapid and even germination of volunteer grain and weeds is assured. In addition the shallow working in of plant residues protects the soil from erosion and capping.

This is what the name Catros stands for:

Efficiency, stability, reliability and long service life:

Use the Catros compact disc cultivator for agricultural success:

- The specialist for fast, shallow and intensively mixing stubble cultivation
- Functional reliability even with large amounts of surface straw
- Universal use, also for seed bed preparation, sowing catch crops, and incorporation of liquid manure
- High stability thanks to standard, integrated stone safety
- Maximum operational comfort thanks to maintenance-free bearings with integrated slide seal
- Reduction of operating costs with maximum area efficiency

Catros – nothing’s impossible!
Pleased to meet you! The Catros family would like to introduce itself! Working widths from 3.00 m to 7.50 m

Mounted Catros - whether rigid design or hydraulically folded - the right choice for every farm

Trailer Catros - for large farms and maximum area output

Catros in rigid design with wedge ring roller in 3.00 m, 3.50 m and 4.00 m working widths

Trailer Catros in rigid design with wedge ring tyres in 3.00 m and 4.00 m working widths. Also suitable for smaller tractors.

Catros hydraulically folded with wedge ring roller in 4.00 m, 5.00 m and 6.00 m working widths

Trailer Catros hydraulically folded with wedge ring tyres in 5.50 m and 7.50 m working widths
Save with Catros!

Test results speak for themselves!

Fuel, wear and repair costs currently decide to a considerable degree how profitable certain equipment technologies are within the system chain.

Over many years comprehensive test measurements using the Catros compact disc cultivator have been carried out in collaboration with the DLG test centre in Gross-Umstadt.

Here, the Catros compact disc cultivator proved to be extremely economical. Thus, for stubble cultivation with an average working depth of 6 cm, a fuel requirement of 3.5 to 4 l/ha was determined, irrespective of the type of soil. The results are similar for use in seed bed preparation.

**Powerful technology!**

**The compact disc cultivator – shallow cultivation with precision.**

The preconditions for the success of the following crop commence with the harvesting of the previous crop. Stubbles tilled immediately after combining utilise any residual moisture in the soil and promote high germination rates of volunteer grain and weed seeds. Just in case of short periods between harvest and sowing or within crop rotations, this is a basic pre-condition, irrespective of whether the following soil tillage operation will be conservation or conventional using the plough.

With this in mind stubble working should be as shallow as possible. Due to their inherent design, winged tine cultivators with a rigid frame are not able to contour follow and thus cannot operate as shallow as the Catros. The deeper penetration of the tines creates an uneven working depth burying volunteer grains at different depths resulting in uneven and unreliable germination. Also the mixing in of straw is considerably better with the Catros than with wing share cultivators.

Low wear costs

For wear costs, an average of 1 €/ha can be calculated. This low value is primarily due to the long service life of the concave discs. An average hectare rate of 500 ha per metre of implement width should be assumed, depending on the soil type. The maintenance-free bearings with integrated slide seals and the overload safety by means of rubber spring elements additionally ensure minimum repair costs.
It’s all in the mixture! Concave discs – accurate and powerful

As the discs of the Catros are not mounted on a centre shaft the inner side of the discs is, to a great extent, smooth. In this way the soil and crop residues have an unhindered passage of flow and this is aided, simultaneously, by a high peripheral speed of the disc. The best operational results are achieved with forward speeds of in excess 10 km/h. The “boil” of material, transferring the soil-straw mix from one disc gang to the other, provides a very intensive mixing.

Effective foldable technology, as well as broad and shallowly angled discs

The specially matched combination of disc diameter and cutting angle provides a lower throwing angle compared with serrated and mostly shallower angled discs.

The concave discs arranged in two rows and diagonally angled break up the top soil and provide an intensive mixing. The discs are equipped as standard with rubber sprung mountings that offer overload protection. This way the individual concave disc assemblies are automatically returned to the operational position after clearing the obstacle. The cutting angles of 17° front and 14° rear are designed for optimum penetration and residue flow. Therefore it is not necessary to change the angle. Changing the cutting angle would result in considerably increased pulling power requirement and danger of blockage.

High-speed technology for optimum performance

When the Catros is in the soil, operational speeds of 10 to 15 km/h in conjunction with the blockage-free disc units ensure amazingly high area efficiency.

Under optimum conditions they achieve even higher speeds at full area coverage.

Because area efficiency pays!

High area efficiency is not determined solely by working width and forward speed. Rapid change of the device from field to field thanks to rapid, sophisticated folding technology, as well as brief turning times at the field edge have a lasting effect on the area efficiency.

The very compact and operator friendly design of the compact disc cultivator stets yard sticks, irrespective of whether the implement is carried or trailed. Whereas the mounted Catros can show its strength in small fields and in short work the trailed Catros impresses with its quick folding procedure and sophisticated headland management.

Optimum soil movement

The 460 mm disc diameter chosen allows for the mounting of the discs closer to the frame and at a reduced disc spacing. Removing the centre shaft through each gang ensures a good flow of crop residue, even with this chosen disc diameter. Only in this way the immediate transfer of the soil-straw mix from one disc to the other works.

The especially matched combination of disc diameter and cutting angle provides a lower throwing angle compared with serrated and mostly shallower angled discs.

The soil-straw mixture is calmed down again already in front of the following implement, resulting in a superb levelling and mixing at a perfectly smooth machine run.

Earth flow and soil profile at serrated and shallowly angled discs

Earth flow and soil profile at concave and steeply angled concave discs
Easy, convenient adjustment of the disc rows

Without tools and extremely simple

The great advantage of the Catros as a device for shallow stubble cultivation is its simple, compact design, which requires only very little adjustment and maintenance. Only when the working depth is changed or in extreme conditions as, for instance, drought, is it necessary to optimize the effect of the disc rows. On the Catros this happens without tools and ingeniously simple via an offset slide.

Here the stagger of both disc rows is set. The aim is to stagger the disc rows so that the full area work is ensured in all conditions. The proven AMAZONE square eccentric pin serves as stop and for adjustment.

Please note: At rigid implement versions, due to the offset slide, the actual working width and transport width are identical.

Rubber sprung mounting elements and bearings for highest operational reliability and maximum operational comfort

Secure and absolutely maintenance free

The rubber sprung mountings allow for the optimum adaptation of the concave discs to the soil surface. The large diameter of the rubber buffer blocks gives a high spring pressure to prevent impact, ensuring operational safety of the maintenance-free overload protection and always allows a shallow depth control.

Maintenance-free bearings – or would you like to lubricate all the bearings yourself?

The combined sealing, via a felt ring and an extremely high-grade face seal perfectly protect the double-row angular roller bearings. This is why one initial oil fill is sufficient for lifetime lubrication making grease ripples unnecessary and noticeably reduce maintenance for the Catros.

Face seals have been used for decades in military- and road construction equipment where the rollers on the running gear of caterpillar-tracked vehicles have to be as effectively sealed and work absolutely reliable under toughest operational conditions. Lubrication at specific maintenance intervals is totally unnecessary.

Offset slide with the AMAZONE square eccentric pin for adjustment of the disc row stagger.

Offset full area work of Catros

A further positive effect is that the whole surface area of the soil is processed even at extremely shallow operational depths.

Catros slide seal

2-row angular contact ball bearing

Gearbox oil filling
Wedge ring roller and wedge ring tyres – State-of-the-art technology

Accurate depth guidance and re-consolidation for first-class germination conditions

Catros compact disc cultivators are depth-controlled by a wedge ring roller or wedge ring tyres. The required working depth can be adjusted on all mounted equipment, without the need for tools, using setting spindles. A clearly readable scale aids orientation during adjustment. A hydraulic working depth adjustment system is also available as an option. On trailed compact disc cultivators, the working depth can be adjusted either hydraulically or mechanically.

Wedge ring rollers (580 mm) or wedge ring tyres (800 mm) carry out re-consolidation and levelling of the soil surface. Both following roller types have the distinctive wedge ring profile on their running surface, which has proven itself over many years.

Highly re-consolidated strips left by the wedge rings ensure an optimum soil contact providing ideal germination conditions. Open and not re-consolidated in between are still able to infiltrate water. Danger of capping is considerably reduced.

In difficult operational conditions on very hard and dry soils on both compact disc cultivator types the following implements can be lifted to transfer additional weight to the discs.

The wedge ring rollers and wedge ring tyres also operate reliably and blockage-free even in wet conditions. The large diameter of the wedge ring tyres (800 mm) on the trailed Catros allows for additional manoeuvrability in difficult situations.

Safe road transport is important for you!

As the wedge ring tyres, due to their special design, are also suitable for road transport, the trailed Catros does not need a separate transportation axle. This is described as an integrated running gear.

The standard hydraulically foldable implement frame of the Catros compact disc cultivator allows problem-free and convenient road transport with a transport width of less than 3 m. The lighting system is standard equipment for the Catros.

Screw-on additional weights

For use on dry, hard soils and to achieve greater working depth, the Catros compact disc cultivator can be equipped with additional weights.

These can be attached and removed at any time. The height of the ballast can be varied. So for every use, the appropriate ballast is possible according to requirements.
Versatility is its strength!

Harrow for seed bed preparation

A harrow is available for the Catros compact disc cultivator for seed bed preparation for maize or sugar beet. This ensures additional incorporation and crumbing. In this way, perfect starting conditions are ensured for following crops.

Catros for incorporating liquid manure

Nowadays, commercial fertiliser is produced predominantly in liquid form. For reasons of emissions, this fertiliser has to be incorporated into the soil within a short space of time. This is done mainly using field cultivator technology. However, this is very often restricted in its use. Whether as a mounted device behind self-propelled machines or via a separate work process: the Catros is ideally suited to liquid manure incorporation. The special disc technology with its high-strength mounting system and the perfect operation of the wedge ring roller ensures a high level of functional reliability even under extreme conditions.

C-Drill sowing device for sowing catch crops and grasses

Agricultural and economic considerations favour the cultivation of catch crops, e.g. yellow mustard or phacelia. The costs for tilling the areas should be kept as low as possible. Rising seed costs for catch crops, however, mean that the exact dosing and seed placement are increasingly important.

With the C-Drill, a new type of sowing device for catch crops is available for the compact disc cultivator. Seed metering is the same as in the D9 seeding technique, which has proved itself hundreds of thousands of times. Even the smallest quantities of seed can be precisely metered. An agitator shaft integrated in the hopper allows the application of grass seed, for example grassland reseeding. The seed is placed behind the wedge ring roller in the already re-consolidated seed horizon. This is where the best germination conditions are found. A following tine harrow ensures good covering.
## Technical data

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<tr>
<th>Type</th>
<th>Catros 3001-T</th>
<th>Catros 3501-T</th>
<th>Catros 4001-T</th>
<th>Catros 4001-2-T</th>
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Illustrations, content and technical data are not binding!