



Catros Catros⁺





Where performance matters – Catros compact disc harrows – the complete programme

Faster, more economical, better!

List of contents

Catros compact disc harrows – the complete programme/benefits at a glance	P. 2/3
Catros family: 3-point linkage mounted models	P. 4/5
Catros family: trailed models	P. 6–9
Catros or Catros+ concave discs/ working quality does not get any better!	P. 10/11
Practically orientated down to the last detail!	P. 12/13
For any application: the right following roller!	P. 14/15
GreenDrill for catch crops/ Slurry incorporation	P. 16/17
A comprehensive options range for even higher work rates/ these test results speak for themselves!	P. 18/19
Technical data	P. 20

The Catros compact disc harrows from AMAZONE make work go by twice as fast! Being easy to pull, these machines allow for high speed travelling but still leave a top class quality of work.

Higher output, reduced diesel consumption and less wear and tear are among the strengths of the Catros compact disc harrow. It is highly suited for carrying out a quick, shallow but intensively mixed stubble cultivation and works blockage-free, even where there are high levels of straw about. The incorporation of maize straw and stubble, pasture or fallow land, seedbed preparation and slurry incorporation are all further options for use.

The broad range includes mounted and trailed machines in working widths from 3 m to 7.5 m and offers many flexible permutations to match the level of equipment on your new compact disc harrow to those individual prevailing field conditions.



Performance, it makes sense!

Catros and Catros⁺ – they do nothing but impress with their high output, working quality and robustness!

- ✓ A complete programme with three-point linkage mounted models from 3 m to 6 m, trailed models from 3 m to 7.5 m
- ✓ With flexible optional equipment for any prevailing situation and field conditions
- ✓ Catros discs for shallow cultivation
- ✓ Catros⁺ discs for incorporating copious amounts of green matter
- ✓ A choice of six roller options for optimal reconsolidation
- ✓ Easy to pull and highly efficient with minimal fuel consumption
- ✓ Optimised disc setting for a perfect job, even under the heaviest of operating conditions
- ✓ Disc row stagger with comfortable, quick adjustment
- ✓ Individual disc suspension
- ✓ Maintenance-free disc bearings with slide seals and life-long lubrication
- ✓ Optional hydraulic depth adjustment
- ✓ Stone protection comes as standard



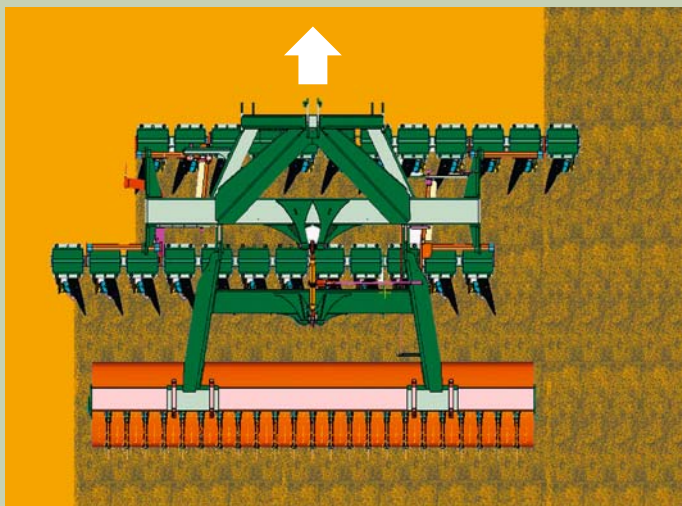


An overview of the Catros family

The strengths of the linkage mounted Catros compact disc harrows can be exploited, especially on shorter runs and wedge shaped fields.

The rigid models, in working widths from 3 m through to 3.5 m and 4 m, are, with their high working speeds, very high performers.

Model	Working width
Catros/Catros+ 3001	3.0 m
Catros/Catros+ 3501	3.5 m
Catros/Catros+ 4001	4.0 m



On a rigid Catros, in 3 m and 3.5 m working widths, the full working width can be always made use of with the aid of the offset slide. For transport the disc rows are pushed close and locked into the transport position. Prior to operation, they are unlocked again and separated. The shifting is actuated by utilising the resistance in the soil, the physical locking and unlocking is via a rope from the tractor cab.

Optimum setting of the disc row stagger

Hydraulic folding linkage mounted Catros in 4 m, 5 m and 6 m working widths

The hydraulic folding models, in working widths from 4 m through to 5 m and 6 m, fulfil the highest claims with regard to area outputs and daily work rates.

Model	Working width
Catros/Catros ⁺ 4001-2	4.0 m
Catros/Catros ⁺ 5001-2	5.0 m
Catros/Catros ⁺ 6001-2	6.0 m





The Catros family introduces itself

As trailed models, Catros compact discs harrows achieve the maximum area covered

When using tractors with less lifting power, the Catros-T trailed models in 3 m, 3.5 m and 4 m working widths are the ideal choice. For these models, the AMAZONE wedge ring roller also serves as running gear for road transport.

Model	Working width
Catros/Catros+ 3002-T	3.0 m
Catros/Catros+ 3502-T	3.5 m
Catros/Catros+ 4002-T	4.0 m



The standard equipment of the Catros-2 TS trailed models in 4 m, 5 m and 6 m working widths includes a bogey chassis with drawbar. Catros-2 TS models travel more smoothly, because during operation, the running gear folds completely over the centre frame. In addition, the weight of the running gear increases the soil penetration of the machine. An additional “plus” of these machines is their flexibility in operation, because depending on the prevailing field conditions, this model can be equipped with a choice of cage, tandem, tooth packer, knife ring or wedge ring rollers.

Model

Working width

Catros/Catros ⁺ 4001-2 TS	4.0 m
Catros/Catros ⁺ 5001-2 TS	5.0 m
Catros/Catros ⁺ 6001-2 TS	6.0 m

“ Even at the maximum working depth and with a fully lifted roller, the Catros⁺ ran very smoothly. We did not observe any rocking motion or even a big side force. ”

(dlz Practice Technical · 05/2011)





The flagship Catros with integrated running gear for maximum performance

The Catros-T trailed models in 7.5 m working widths have the wedge ring tyre roller serving simultaneously as running gear for road transport, as well as for depth control. They are operated not only on large farms but also by contractors where maybe more than 1,000 ha have to be worked within a short period of time. With the Catros 7501-T, the flagship of the Catros family, hourly outputs of 10 ha and more are achieved at forward speeds of about 15 km/h.



Trailed, hydraulic folding Catros with wedge ring tyre roller in 7.5 m working width.

Model	Working width
Catros/Catros+ 7501-T	7.5 m



High performing 9 m or even 12 m working widths arise from the linking of three compact disc harrows onto the AMAZONE coupling frame. When turning on the headland and for transport, then the three lift frames are hydraulically raised. The AMAZONE coupling frame can also be used to mount either ED precision seeders or D9 seed drills as well. This technology is conceived for use by large operations working in a ring fence.

Model	Working width
Catros/Catros ⁺ 9000-2T	9.0 m
Catros/Catros ⁺ 12000-2T	12.0 m



Catros or Catros+?

Make use of those specific strengths!

Extremely precise, extremely shallow

Catros discs with their smooth rims are the ideal solution for the precise, extremely shallow and intensively mixing stubble work at working depths of 3 cm to 5 cm resulting in optimum conditions, for both the germination of volunteer grain and weed seeds, and quick straw breakdown.



Catros discs: 4 mm thick, 460 mm diameter

“ Plus point for the Catros with its smooth discs is the minimal pulling power required and the aptitude for very shallow working. ”

(dlz Practice Technical · 05/2011)

For larger amounts of plant organic matter

The 510 mm diameter serrated discs on the Catros+ play to your advantage when it comes to incorporating large quantities of straw and plant residues. They come into their own when used for the incorporation of maize straw and stubble, rejuvenating grassland or cultivating fallow land. With the Catros+, it is possible to work down from 5 to 15 cm deep.



Catros+ discs: 5 mm thick, 510 mm diameter

“ The Catros+ pulls itself in and cuts the stubble nicely from the soil. ”

(dlz Practice Technical · 05/2011)



Working quality does get any better!

Perfect contour following – individually suspended discs

Whether a Catros or Catros⁺, on all models is each individual disc suspended from the frame on elastic sprung rubber elements which is much better than machines with rigid disc suspension. Every Catros concave disc can individually follow the ground contours, so that not only are the tracks filled up, but they are actually worked up, ensuring an evenly shallow soil tillage operation even with prevailing undulations on the soil surface. The individual suspension of the discs – without being mounted on a continuous shaft – at the same time allows the optimum passage of material through.

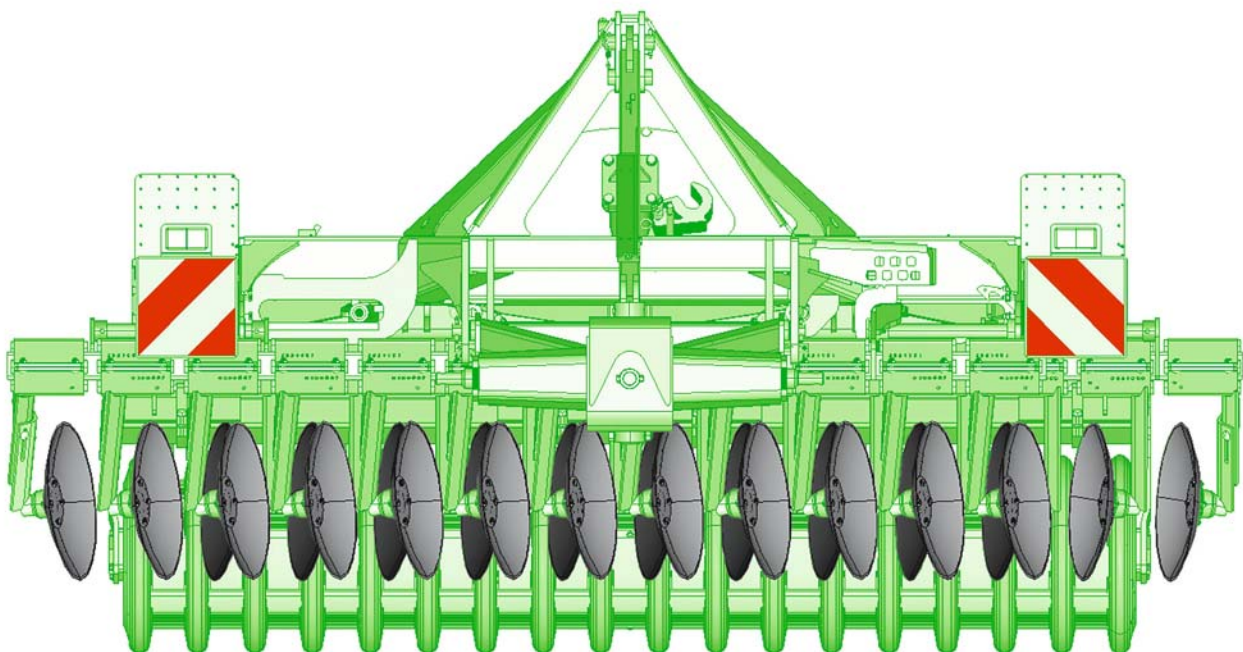


Aggressively angled discs

With a cutting angle of 17° at the front and 14° to the rear, the Catros discs are arranged especially aggressively ensuring the uninterrupted transfer of the soil-straw mixture from the first to the second row of discs resulting in a first class mixing of soil and plant material. Compared with shallower angled discs, the discharge angle of the more aggressive disc arrangement is no-

ticeably smaller. So the boiling soil-straw mixture settles down again on the soil surface in front of the following roller.

The result: a superb levelling effect via the perfect smooth running of the machine.

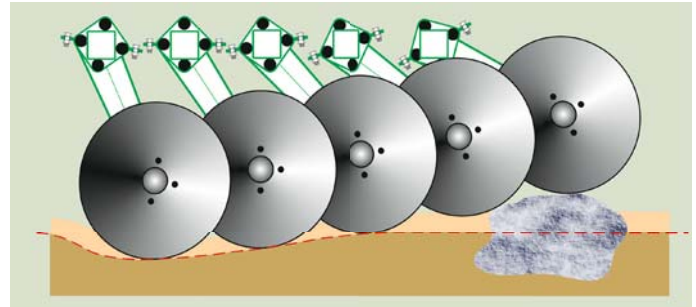




Practically orientated down to the last detail!

Safe and absolutely maintenance-free!

The elastic sprung rubber elements that suspend each disc, do not only serve to aid perfect adaptation to the ground contours, but also as a stone safety device for the individual discs. The large dimensioned rubber buffer blocks are maintenance-free and feature a long spring deflection that provides you with peace of mind, even in stony ground.

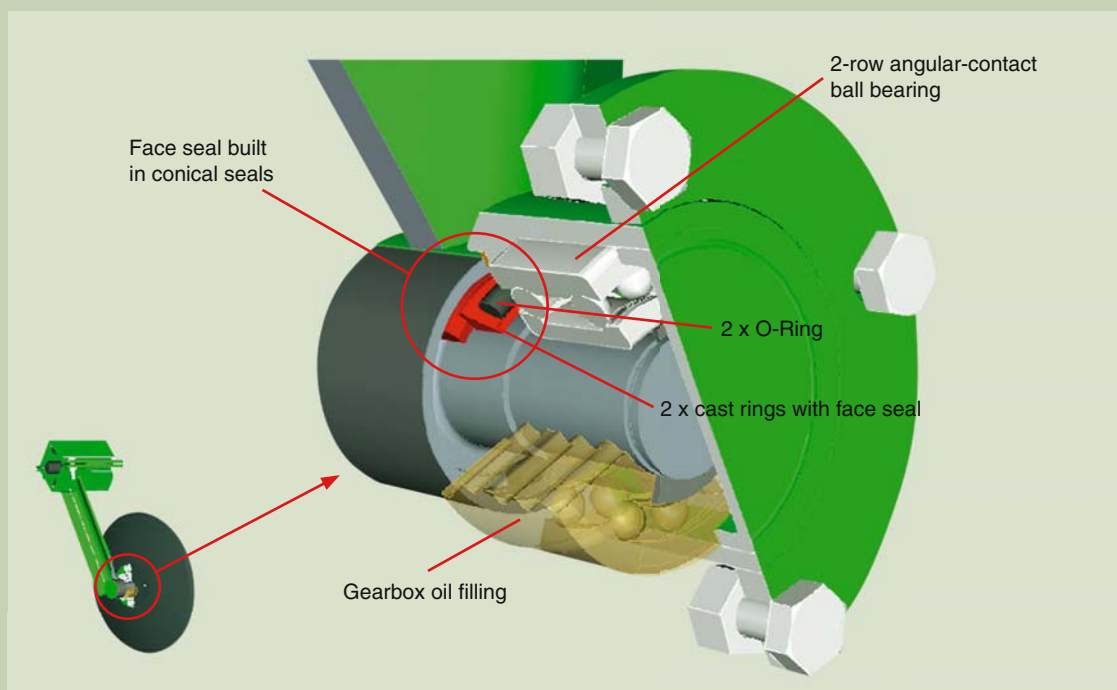


Ground contour adaptation of the individual disc segments including overload safety device

No lubrication ever again – thanks to the maintenance-free disc bearings

Lubrication is not necessary. This noticeably reduces the total maintenance costs. 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 effectively sealed and continue to work absolutely reliably under the toughest of operational conditions.

Catros slide seal – one of the best on the market



Highly comfortable – the offset slide mechanism

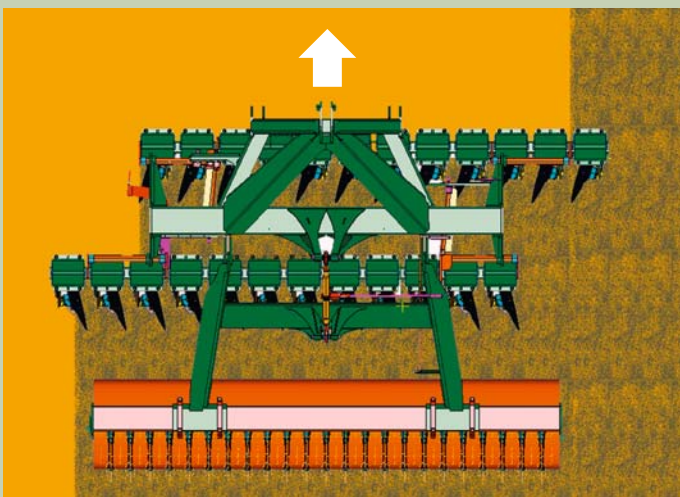
Thanks to the uncomplicated and compact build the need for adjustment is kept to a minimum. Only in extreme operating conditions it is necessary that an improvement in the setting of the disc rows needs to be carried out via the offset slide mechanism. So, in cases where the soil has not been loosened across the full working width, the setting of the disc rows can, via the offset slide mechanism, be quickly, simply optimised and without tools. The adjustment is carried out via the four-sided eccentric block that acts as the limit stop.



When, due to wear, the disc diameters decrease in the course of time, with the aid of the offset slide mechanism the disc position can also be adapted in such a way that the soil can still be moved across the full working area. This results in a noticeable extension of the service life.



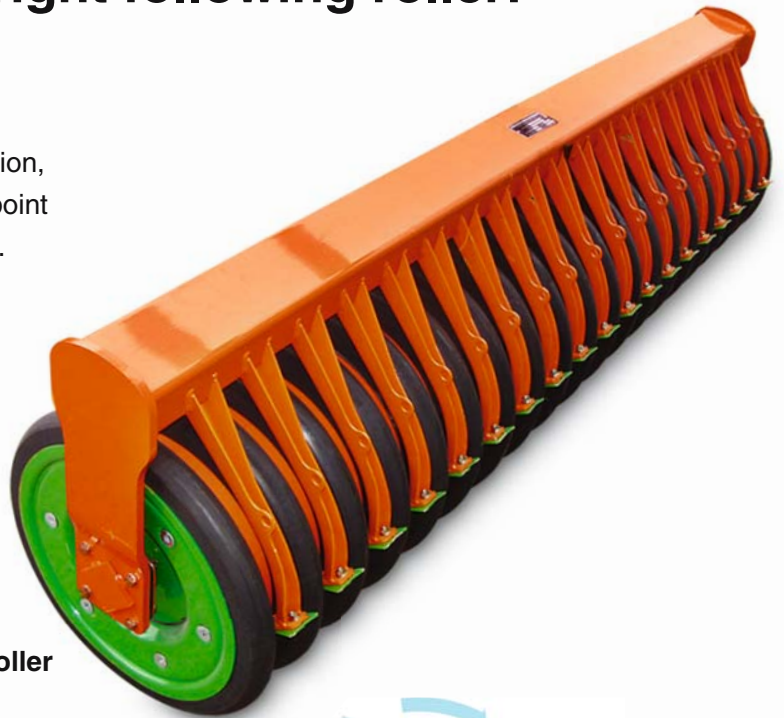
Optimum setting of the disc row stagger





For any application: the right following roller!

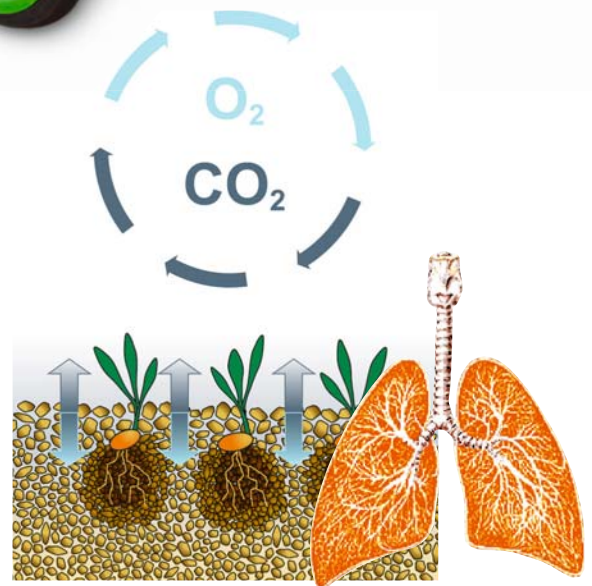
For reconsolidating the soil after the discing operation, various following rollers are available for all three-point linkage machines with or without a bogey chassis. Choose the right roller for your individual situation.



Wedge ring roller

Unique and almost always ideal – the wedge ring roller

In most applications the AMAZONE wedge ring roller is the ideal tool. It perfectly levels the soil surface whilst the reconsolidation is only carried out in strips. These strips provide an optimum soil contact resulting in ideal germination conditions for volunteer grain and weed seeds. The open, unconsolidated areas in between are still able to let water infiltrate, so that the risk of capping is minimised – even on pressure sensitive soils.



All Catros-T compact disc harrows (working widths 3 m, 3.5 m, 4 m and 7.5 m) are equipped with either wedge ring rollers, or alternatively, wedge ring tyres. They offer the same distinct advantages as the wedge ring roller and serve also as integrated running gear. With a roller diameter of 580 mm (wedge ring roller) or 800 mm (wedge ring tyre) they work perfectly in light and sandy soils.



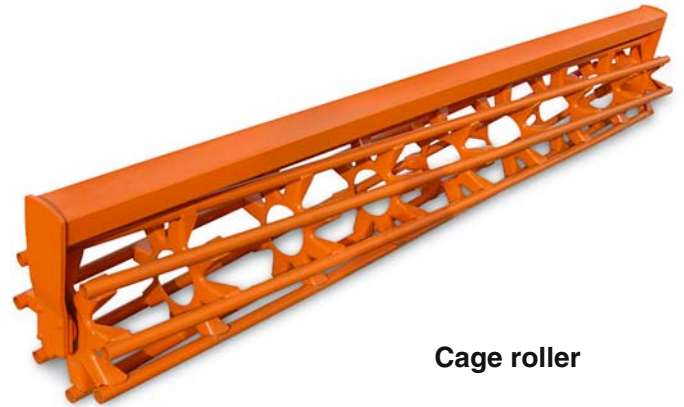
The alternatives

The simple **cage roller** is mainly used where smaller tractors with limited lifting power are available as the towing vehicle. This roller is comparatively cheap, achieves less reconsolidation and is less suited for operation in wetter soil conditions.

Tandem rollers are often used for seedbed preparation. As the rear, smaller roller, rotates faster than the one in the front, it slightly loosens up the top soil enabling wet soil to dry better. Where wet conditions, and/or too many stones prevail, tandem rollers are not recommended.

With **tooth packer rollers** an even, however, not so intense, soil reconsolidation is left over the entire working width. They are favoured for use in vegetable production systems.

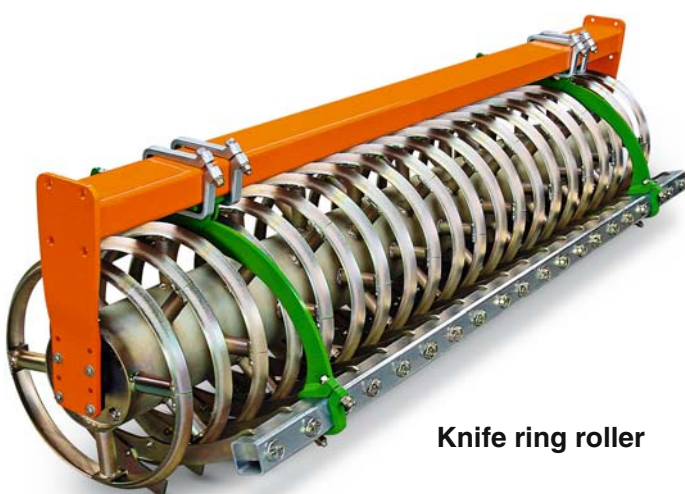
The main advantage of the **knife ring roller** is their cutting action, which makes it particularly suitable for crumbling and reconsolidating dry, heavy soils that have a high clay content.



Cage roller



Tandem roller



Knife ring roller



Tooth packer roller



GreenDrill for catch crops

So that you can sow catch crops directly together whilst stubble cultivating, or carrying out soil tillage and also for sowing grass, AMAZONE can offer the new GreenDrill seed box. It fits together as well with the Catros compact disc harrow as it does with a Cenius mulch cultivator or the KG rotary cultivator and the KE rotary harrow. The seed is distributed evenly by the spreader plates.

The GreenDrill seed hopper holds 200 l or alternatively 500 l and is easily accessed via the loading steps provided. Within the metering system located underneath the seed hopper, is a seed shaft that is equipped, depending on the type of seed and the application rate with either fine or normal seed wheels. The drive to the fan and the seed shaft is via an electric motor, or alternatively, hydraulically.

GreenDrill 200 and 500:

3–6 m working width

200 l or alternatively 500 l hopper capacity

For the control of the seeder, two alternatives with differing levels of operational comfort are available. The GreenDrill terminal, in its basic format, just provides the switching on and off of the seed shaft and the fan plus the initial setting of the seed shaft speed. Additionally in Comfort specification, the terminal offers a menu selection to support the calibration procedure, a display of the forward speed and both the area covered and the hours worked.



Ideal: using the Catros for incorporating liquid manures

Whether as a three point linkage mounted machine mounted on a self-propelled tanker or via a separate operational pass, Catros compact disc harrows are also superbly suited for the incorporation of liquid manure. The unique disc technology with its maintenance-free bearings and the perfectly matching rear roller ensures utmost functional reliability even under these extreme conditions.



A comprehensive options range for even higher work rates

Only work “as deep as necessary”

For the fine tuning of the working depth all AMAZONE compact disc harrows are equipped as standard with a mechanical depth adjustment (except for the Catros 3002-T, 3502-T and 4002-T).

More comfort with hydraulic depth control

As a special option, AMAZONE offers a more comfortable working depth control via double acting hydraulic rams enabling you to adapt the working depth to the individual conditions whilst on the move and from the tractor cab. This proves to be of great advantage, for instance, on changeable soils, compacted headlands, on hilltops and in hollows ensuring that you only work just “as deep as necessary” and at the end of a day you will have, more importantly, saved some extra litres of fuel.



“ The optional hydraulic depth control operates very positively. ”

(dlz Practical Technique · 05/2011)

The perfect supplement to seedbed preparation

In addition, AMAZONE compact disc harrows can be equipped with a harrow for seedbed preparation for maize or sugar beet. This harrow provides a very fine crumbling of the soil structure and thus the perfect starting conditions for the following crop.



For the most arduous of conditions

To achieve a greater working depth on dry, hard soils, additional weights are available as a special option. One set of ballast weights consists of four 25 kg segments which are bolted in pairs to each side of the machines. On rigid machines the maximum additional ballasting is 200 kg, whereas on foldable three-point linkage machines it is 300 kg and for trailed foldable machines as much as 400 kg can be added.

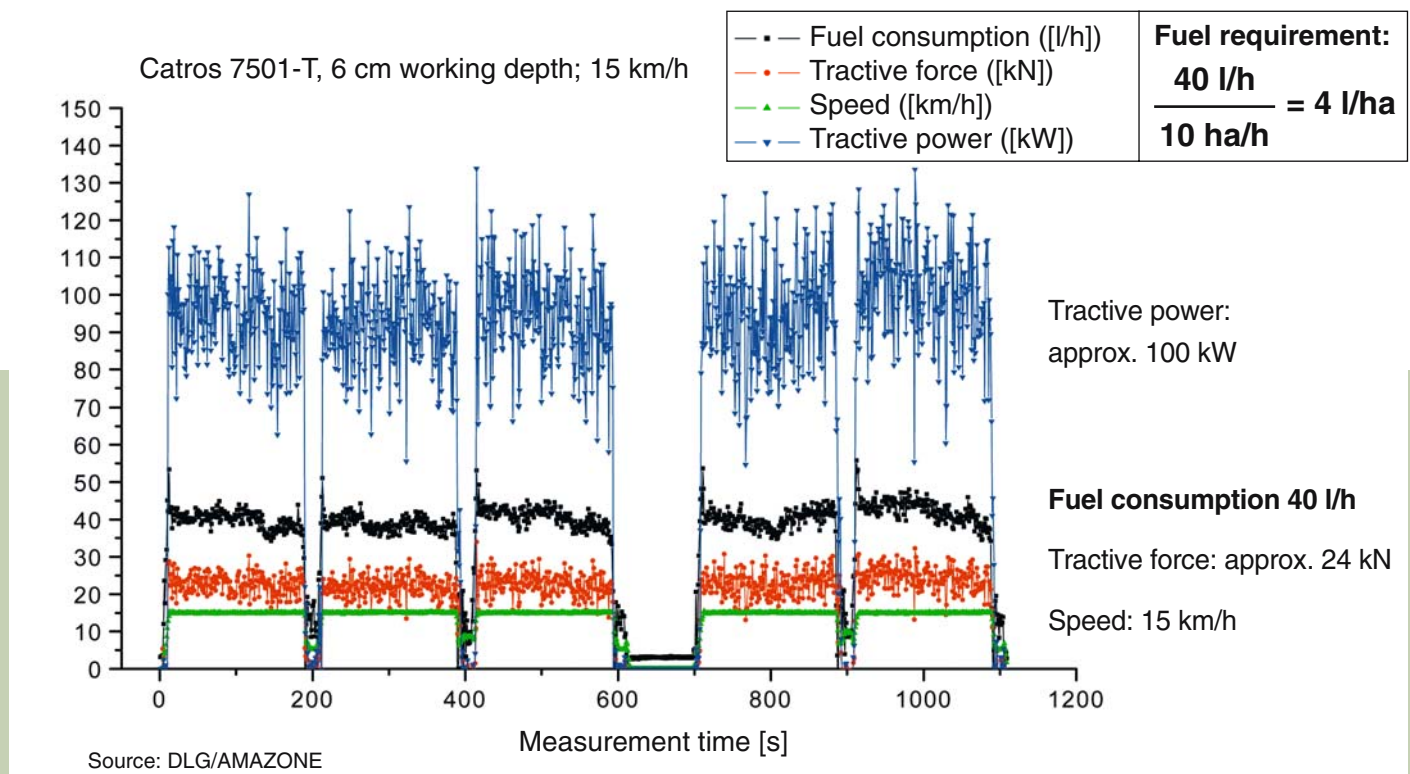


These test results speak for themselves!

With the Catros compact harrow, operational speeds of 10 km/h to 20 km/h are achieved problem-free, enabling outstandingly high work rates and reducing the operational time to a minimum. Important, however, for economical success, are both the fuel, and the wear and tear costs. In order to determine reliable figures for these costs AMAZONE has carried out trials in collaboration with the DLG test centre in Gross-Umstadt.

Benefit from the extremely low fuel consumption

In all the tests, the Catros compact disc harrows proved to be extremely fuel efficient. So when stubble cultivating at a medium working depth of about 6 cm – depending on soil type and ground topography – an approximate fuel consumption of only 4 l/ha was measured. Similarly favourable were the consumption figures during seedbed preparation.



Test report from stubble cultivating with the Catros 7501-T compact disc harrow

Minimal – the wearing costs

The concave discs of the Catros offer outstanding durability. Depending on the prevailing conditions – that means around 500 ha per metre of implement width. At an average of only 1 €/ha, the wearing costs are extremely low and, more importantly, noticeably

more favourable than at, for instance, cultivator shares. Thanks to the maintenance-free bearings with their integrated face seals and the overload safety mountings even the repair costs are minimised.



Technical data: Catros

Mounted machines	Catros 3001 Catros ⁺ 3001	Catros 3501 Catros ⁺ 3501	Catros 4001 Catros ⁺ 4001	Catros 4001-2 Catros ⁺ 4001-2	Catros 5001-2 Catros ⁺ 5001-2	Catros 6001-2 Catros ⁺ 6001-2
Working width (m)	3.00	3.50	4.00	4.00	5.00	6.00
Power requirement from (kW/HP)	66/90	77/105	91/125	91/125	110/150	130/180
Disc diameter (mm)	Catros 460/Catros ⁺ 510					
Disc spacing (mm)	250					
Number of discs	2 x 12	2 x 14	2 x 16	2 x 16	2 x 20	2 x 24
Working depth (cm)	Catros 3 – 12/Catros ⁺ 3 – 15					
Setting the disc stagger	Mechanical via offset slide					
Transport length with lighting (m)	2.45	2.45	2.45	2.65	2.65	2.65
Transport width (m)	3.00	3.70	4.10	2.95	2.95	2.95
Transport height (m)	1.70	1.70	1.70	2.50	3.00	3.50
Weight (kg) Catros/Catros ⁺ (base machine, road lights, mech. depth adjustment, wedge ring roller)	1668/ 1718	1858/ 1918	2048/ 2108	3040/ 3100	3310/ 3630	3535/ 3920

Trailed machines	Catros 3002-T Catros ⁺ 3002-T	Catros 3502-T Catros ⁺ 3502-T	Catros 4002-T Catros ⁺ 4002-T	Catros 7501-T Catros ⁺ 7501-T	Catros 4001-2 TS Catros ⁺ 4001-2 TS	Catros 5001-2 TS Catros ⁺ 5001-2 TS	Catros 6001-2 TS Catros ⁺ 6001-2 TS
Working width (m)	3.00	3.50	4.00	7.50	4.00	5.00	6.00
Power requirement from (kW/HP)	60/80	74/100	90/120	160/240	91/125	110/150	130/180
Disc diameter (mm)	Catros 460/Catros ⁺ 510						
Disc spacing (mm)	250						
Number of discs	2 x 12	2 x 14	2 x 16	2 x 30	2 x 16	2 x 20	2 x 24
Working depth (cm)	Catros 3 – 12/Catros ⁺ 3 – 15						
Setting the disc stagger	Mechanical via offset slide						
Linkage	Lower link mounting Cat. III (Cat. II on request)			Swinging draw- bar, straight drawbar or lower link arms	Lower linkage		
Roller	Wedge ring roller			Wedge ring tyre roller	Of choice		
Transport length with lighting (m)	4.50	4.50	4.50	5.60	6.30	6.30	6.30
Transport width (m)	3.00	3.55	4.55	3.00	2.95	2.95	2.95
Transport height (m)	1.90	1.90	1.90	4.00	2.80	3.30	3.80
Weight (kg) Catros/Catros ⁺ (base machine, road lights, mech. depth adjustment, wedge ring roller)	2100/ 2150	2300/ 2350	2500/ 2570	6245/ 6725	4090/ 4150	4360/ 4680	4585/ 4970

Illustrations, content and technical data are not binding! Machine illustrations can vary due to country-specific traffic legislation. For specific road traffic specifications, please refer to the instruction manual.



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

MI 3698 (en_GB) 10.11

Printed in Germany

www.amazone.de

www.amazone.co.uk

E-Mail: amazone@amazone.de