

HE-VA Disc-Roller Contour

*Precise primary and secondary cultivation
and consolidation*



The HE-VA Disc Roller *Contour* is the ideal multipurpose cultivator for any farm. Most importantly it's simple to use, reliable, and saves time and money!

The Disc Roller is a result of years of development and testing to find the ideal disc design, spacing and angle for shallow cultivations whilst the DSD system automatically changes the angle of the disc for deeper work.

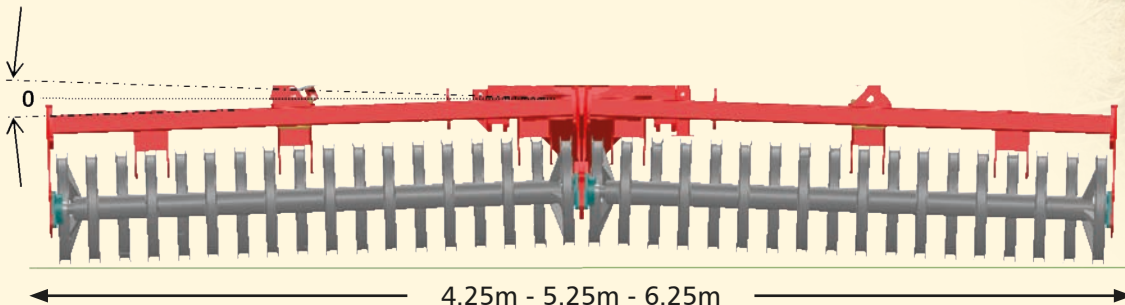
NEW - CONTOUR FOLLOWING SYSTEM

To make a stale seedbed or prepare a seedbed for drilling you need to ensure that the machine you are using follows the contours of the field. If not you will have areas in the field that are under or over cultivated or consolidated and this will effect the crop growth and yield at harvest. The Disc Roller *Contour* combats this with its unique contour following system.



SPECIAL ACTIVE TRANSFER (SAT) SYSTEM

The Disc Roller *Contour*'s hydraulic folding system is linked to two accumulators and a hydraulic pressure gauge. The gauge allows the operator to even the pressure out across the working width to ensure consistent cultivation on uneven ground. The accumulators act as an oil buffer when the cultivator travel over uneven ground and the hydraulic rams need to extend or shorten to allow the disc cultivator to follow the contours.



The amount of contour following "float" varies depending on the working width.

4.25m Disc Roller Contour = 45mm up and 45mm down = total 90mm float.
5.25m Disc Roller Contour = 55mm up and 55mm down = total 110mm float.
6.25m Disc Roller Contour = 65mm up and 65mm down = total 130mm float.

REAR ROLLER

Like many of the machines, the rings are mounted on a U profile to continue to work in very rough conditions. The aggressive rib and slip surface provide a good finish.

Alongside the standard options, there are also twin V or twin U profile rollers for consolidation for specific applications.

The U profile roller has been designed to reduce the soil pressing that occurs when the machine is in operation.

VERSATILE CULTIVATION

The Disc Roller is highly versatile, it can be used to incorporate stubble and other crop residues to a depth of up to 125mm (5") in minimal tillage cultivations. It is also a superb tool for working ploughed land prior to drilling and with around 1 tonne per metre you have an efficient consolidating press for secondary cultivations.

The HE-VA Disc Roller has automatic transport locks and all functions are adjustable from the tractor seat. This makes it quick and easy to setup and ensures minimal downtime when moving between fields.

INCREASED CLEARANCE

The Contour features 90mm increased clearance between the two rows of discs and the same again between the discs and packer. This ensures a consistent flow of material through the machine even in trashy conditions.



BORDER DEFLECTOR

The border deflector comes standard on every Disc Roller ensuring that a level finish can be achieved on any soil type.



OPTIONS

In the HE-VA range the Disc Roller uses the proven pressed steel V profile ring. However, all on a 150mm solid axle so that each section of the roller turns as one ensuring the machine can operate in wet sticky conditions. Each ring section is castellated ensuring the roller turns in light soils and the shoulder profile combines with the 145mm spacing to leave an excellent consolidated weatherproof

In addition to the single row of V Profile Rings, the Disc Roller Contour 'Twin' model incorporates different roller options. A U profile ring can be specified to suit different soils. These new roller options provide different applications in different situations and should ensure that there is a machine suitable for every customer's needs.

The U profile ring has been utilised in HE-VA machines for over a decade. It is designed to provide shallow consolidation without smearing due to the "soil on soil" effect where the U profile fills with soil.



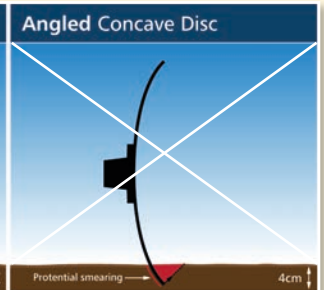
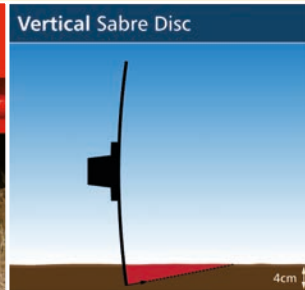
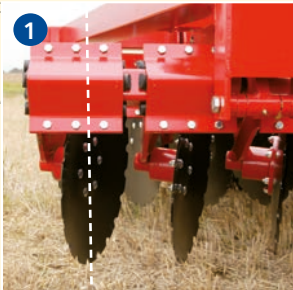
"Single" V-Profile

UNIQUE DSD TECHNOLOGY

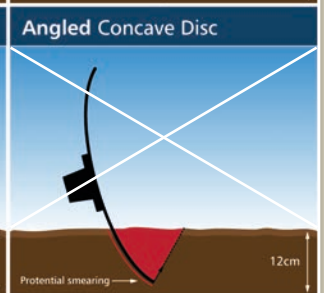
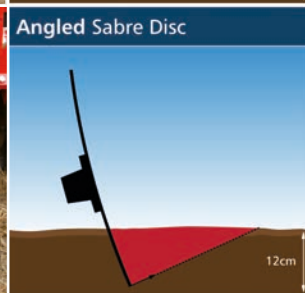
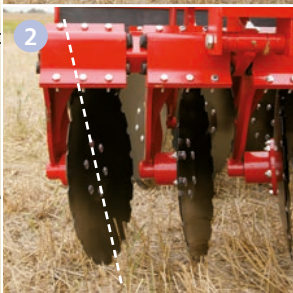
DSD - Depth Synchronised Disc - Aggressiveness

When designing the Disc Roller the aim of the HE-VA engineers was to produce a machine that could fulfil all the roles that a disc cultivator is asked to. It needed to be able to work shallow to create stale seedbeds at 2 - 5cm and at the same time be able to cut and incorporate crop residues when working deep in heavy soils. The unique DSD system is the way that both aims were achieved. When the machine is being used for shallow cultivation (**position 1**) the disc is virtually perpendicular to the soil. As the operator adjusts the discs deeper using the tractor hydraulics (**position 2**) the disc angle automatically increases (see below).

- 1 When working shallow the DSD system ensures that the angle of the Disc to the soil is perpendicular (vertical) which means that the discs push the soil horizontally (sideways) and the whole soil surface is moved. Another key benefit of the vertical disc is that it breaks the soil loose rather than "scooping" it out like a concave disc at an angle, this means there is no smearing which would create a disc pan.



- 2 When being used as a deep disc cultivator or for residue mixing and incorporation a more aggressive disc angle is required. The DSD system automatically increases the aggressiveness of the disc angle relative to the soil surface.



The end result is that the discs pull themselves into the ground more which assists penetration meaning more soil is inverted and residue incorporated. All this happens automatically and hydraulically as the depth of the discs is being altered by the tractor driver.

A traditional concave disc or an aggressively angled disc will lift soil and cut out "grooves" but will not move all the soil surface. At the same time it will tend to smear and seal the worked soil creating a disc pan. - DSD

HE-VA 510mm Sabre Disc

A major part of the development work on the Disc Roller was the optimisation of the disc design. This has resulted in the Sabre discs from HE-VA. Normal heavily dished discs have too much angle and do not overlap enough to cut all the soil at shallow depths. The Sabre disc shallow disc angle, with its superb cutting action, coupled with the stagger of the two disc rows provides maximum movement and mixing of soil, even at shallow working depths. The other advantage of a relatively flat disc is that it does not smear causing a disc pan in wet conditions, whereas the back of a more conventional concave disc smears the soil as it works creating a pan and causing problems for crop roots and drainage.



Level, shatta, cultivate and consolidate

The Disc Roller *Contour* is an excellent primary cultivator for cultivating stubbles and incorporating crop residues. Add a Shattaboard and you have a superb machine for secondary cultivation as well, a true multipurpose cultivator that can be used on mintill or ploughed land to produce a level, firm seedbed.

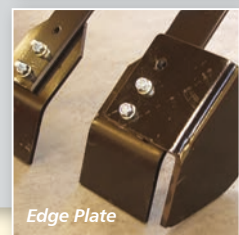


Level, cultivate and consolidate - Shattaboards carry soil along in work levelling off hills and filling in holes, however just as importantly they also consolidate using the weight of the press behind them. This means that the soil presented to the discs is firm and enables them to do a better job of cutting and slicing clods before the V profile Roller consolidates. Hence, whilst the Disc Roller will do a good job on its own as a secondary cultivator the addition of a shattaboard enhances the result. The shattaboard angle can be adjusted from the tractor seat in work to suit the job in hand and the shattaboard can, just as easily, be retracted from work to allow the operator to use the Disc Roller on its own.

EVEN AND FIRM

The Shattaboard can work individually but the levelling effect is increased with the addition of the optional locking bars to convert the individual springs into a complete "board" for full width action.

The optional shattaboard edge plates can be fitted to help keep certain soil types from ridging either side of the press.



FRONT HARROW

When cultivating to create a stale seedbed a Front Harrow with 14mm diameter spring tines can be fitted to provide shallow soil movement.



SLICING PLATES

On heavier soil types slicing plates can be fitted in lieu of the standard flat plates to slice and fissure the clods better.

Specify a Disc Roller Contour to suit the requirements on your farm

Once you have decided on size and roller type there are a number of other optional extras that can be added to help you get the most out of your Disc Roller. If you swap tractors regularly the Memory Cylinder makes it easier to set the drawbar height or if you have a lot of road transport then hydraulic or even air brakes can be fitted. Furthermore as with other machines in the HE-VA range there are also accessories to allow seeding at the same time as cultivating.

OPTIONAL EXTRAS



SOIL MAT

This ensures soil falls in front of the roller to present a level surface to be consolidated. Recommended when fitting a seeder to your Disc Roller.



BRAKES

Air braking or hydraulic braking systems are available for all trailed disc rollers as a factory fit option.



ELECTRIC DEPTH STOP

Standard on the larger machines and available as an option on the 2.5 - 6.5m machines. This allows a preset depth to be selected.



VARIOCAST MOUNTING KIT

All Disc Rollers can be fitted with a mounting kit suitable for the OPICO VarioCast to allow seeding of OSR and cover crops.

DISC ROLLER SPECIFICATIONS

Model	Working Width	Transport Width	Type	No. of Discs	V-Profile Ring No. Kg	Twin V-Profile Ring No. Kg	Twin U-Profile Ring No. Kg
250	2.25m	2.5m	Mounted	18	16 1780	---	---
300	2.75m	3m	Mounted	22	20 2080	---	---
350	3.25m	3.5m	Mounted	26	23 2395	---	---
300	2.75m	3m	Trailed	22	20 2630	20 2910	20 2620
350	3.25m	3.5m	Trailed	26	23 2945	23 3240	23 2930
400	3.75m	4m	Trailed	30	26 3260	26 3570	26 3240
450	4.25m	2.42m	Trailed	34	30 4030	30 4340	30 4010
550	5.25m	2.62m	Trailed	42	36 4740	36 5090	36 4740
650	6.25m	2.62m	Trailed	50	42 5510	42 5860	42 5990
800	7.75m	2.45m	Trailed	64	53 7700	---	---



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