

# 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 multi-purpose cultivator that can be used on mintill or ploughed land to produce a level, firm seedbed.

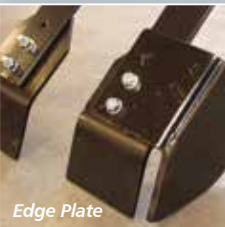


Level, cultivate and consolidate - Shattaboard carry soil along in work levelling off hills and filling in holes, however just as importantly they also consolidate using the weight of the press behind them. This means that the soil presented to the discs is firm and enables them to do a better job of 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. There are of course accessories to allow seeding at the same time as cultivating.

## OPTIONAL EXTRAS



### SOIL MAT

This ensures soil falls in front 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.



### FRONT WHEELS

A set of adjustable front mounted pivoting support wheels 300/65x12ply, for use on very uneven terrain.



### FOLLOWING HARROW

Adjustable spring loaded 12mm diameter following harrow behind the roller, often fitted when seeding.



### HPV CONTROLLER

Reduces the number of tractor spools needed by controlling up to four double acting functions. Multiple functions can be activated simultaneously.



### MEMORY CYLINDER

Hydraulic adjustment of the drawbar angle to set the balance of left and right draft from discs in place of spacer clips.

## 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	Trailled	22	20   2630	20   2910	20   2620
350	3.25m	3.5m	Trailled	26	23   2945	23   3240	23   2930
400	3.75m	4m	Trailled	30	26   3260	26   3570	26   3240
450	4.25m	2.42m	Trailled	34	30   4030	30   4340	30   4010
550	5.25m	2.62m	Trailled	42	36   4740	36   5090	36   4740
650	6.25m	2.62m	Trailled	50	42   5510	42   5860	42   5990
800	7.75m	2.45m	Trailled	64	53   7700	---	---



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# HE-VA Disc Roller Contour

Precise primary and secondary cultivation and consolidation





# HE-VA Disc Roller Contour

“Precise” depth control for stale seedbeds  
“Aggressive” mintill cultivation or levelling and pressing  
“Weatherproof” consolidation for preparing seedbeds

The HE-VA Disc Roller *Contour* is the ideal multi-purpose cultivator for any farm. Most importantly it's simple to use, reliable, 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.

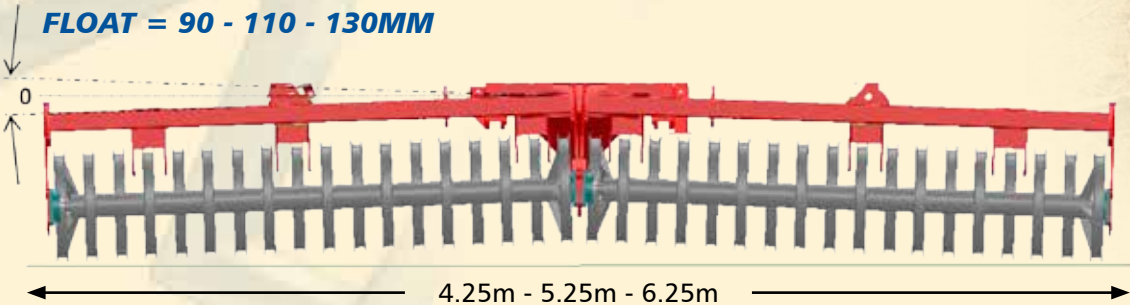
## NEW - CONTOUR FOLLOWING SYSTEM

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 will be 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 *Contours* 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 across the full width on uneven ground. The accumulators act as an oil buffer when the cultivator travels 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.

## VERSITILE CULTIVATION

The Disc Roller is compact and manoeuvrable around the field and on the road, and is simplicity itself to operate. It 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. With around 1 tonne per metre you have an effective slicing action combined with a very 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 new 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.

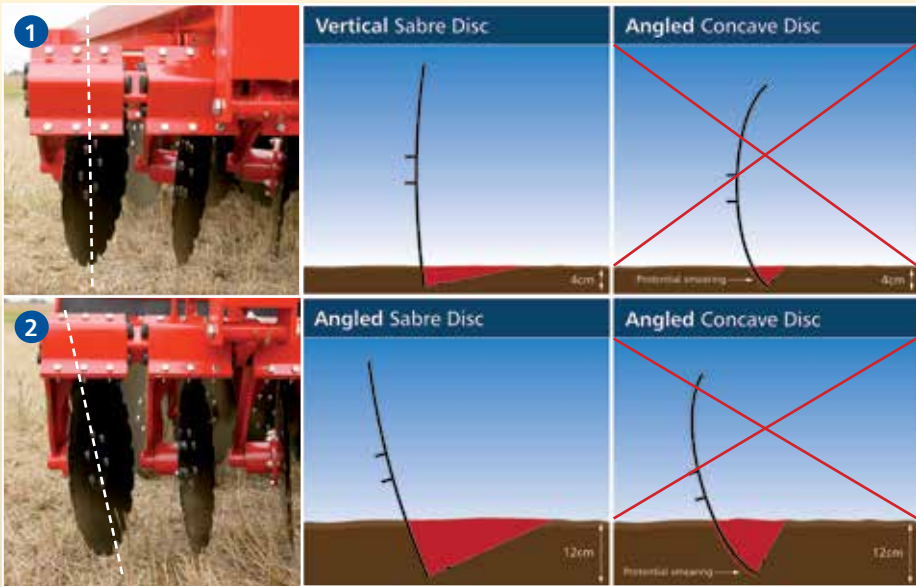
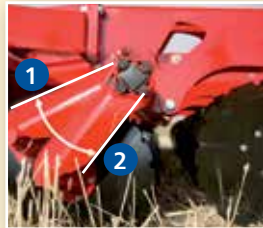


## UNIQUE DSD TECHNOLOGY

### DSD - Depth Synchronised Disc - Aggressiveness

The unique DSD system is the way that the aggressiveness of the discs changes with the working depth. When the operator needs the machine to work deeper, the tractor hydraulics are used to alter the working depth of the discs. This is beneficial in two ways, it transfers more weight to the discs but more importantly changes the angle of the disc in its approach to the work producing a more aggressive action which effectively pulls the discs into the soil.

The work is carried out by two rows of off-set scalloped discs mounted on a sealed twin taper roller bearing hub assembly. These discs are set at +18°/-18° to the direction of travel. This configuration aggressively cuts all the soil in one pass,



## BORDER DEFLECTOR

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



## 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 disc 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, 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.



## REAR ROLLER OPTIONS

Like many of the machines in the HE-VA range the Disc Roller Disc Harrow uses the proven pressed steel V profile ring. However, all the rings are mounted on a 150mm solid axle so that each section of the roller turns as one ensuring the machine can continue to work in very wet sticky conditions. Each ring section is castellated ensuring the roller turns in light soils and the aggressive rib and shoulder profile combines with the 145mm spacing to leave an excellent consolidated weatherproof finish.

Alongside the standard single row of V Profile Rings, the Disc Roller Contour ‘Twin’ model incorporates different roller options. A twin V or twin U profile ring can be specified to suit different soils. These new roller options provide different consolidation for specific situations and should ensure that there is a machine suitable for every customer’s needs.

The U profile roller 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” pressing that occurs when the U profile fills with soil.

