



HYDRAULIC AUTO RESET



The Combi-Disc's soil loosening legs can be fitted with on the move hydraulic reset. A pressure gauge allows the hydraulic system to be set according to the working depth and oil accumulators provide temporary expansion room for the hydraulic system when the legs trip. This means that the leg breaks back quickly and is able to reset immediately once it has passed the obstacle.

The sensitivity of the break back system is quickly and easily adjusted by the operator according to the working depth and type of soil. The whole system reduces the amount of lost time due to shearbolt breakages and makes the machine easy and convenient to use.

A shearbolt option is available for larger machines.

LEG AND POINTS



The soil loosening legs on the Combi-Disc are set at 55cm centres and staggered in two rows at 400 - 420 (dependant on model) to allow soil and residue to flow between them and keep the draft requirement to a minimum.

The standard 25mm Combi-Disc leg is made from Hardox 400 steel to minimise wear. The point itself is made from cast steel which is hardened to prevent wear without becoming brittle. A single bolt located behind the heel of the leg is used to hold the point in place, this makes it a matter of a few minutes work to change all the points on a Combi-Disc.

The Combi-Disc point has been developed by HE-VA through over 10 years experience of subsoiling and soil loosening in a huge variety of conditions all over the world. The experiences of customers each year has lead to continuous evolution of the point to provide the best wear characteristics and yet ensure it gets the job done.

The standard Combi-Disc point is 200mm wide but narrower 80mm and 120mm versions are available as well as a 350mm point. Whilst the 200mm point is suitable for most applications the soil type, working depth and desired end result varies so a simple change of point size will allow the Combi-Disc to suit most applications.



LOW DISTURBANCE LEG AND POINT

The 15mm low disturbance leg and tungsten tipped LD point are also the product of many years development. Whilst many customers are moving towards reduced tillage systems they appreciate that drainage is key to crop development, allowing timely field operations and preventing the relentless progress of grass weeds such as Blackgrass. The low disturbance leg and point that HE-VA has developed allows deep soil loosening whilst minimising surface disturbance and preventing mixing of the soil profile.

The thinner legs are made from stronger Hardox 500 steel and can be interchanged with the standard Combi-Disc legs as necessary. However it is the point that really makes the difference. The LD point has a shallower wing angle and shorter tungsten tipped nose that opens the soil to create drainage without disturbing the whole soil profile.



Specify a Combi-Disc to suit the requirements on your farm

Once you have decided on which model suits your requirements there are a number of other optional extras that can be added to help you get the most out of your Combi-Disc. 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 Combi-Disc.



HPV CONTROLLER

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



VARIOCAST MOUNT KIT

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



FRONT DISC

Trailed machines can be fitted with front discs in line with the subsoiling legs to reduce surface soil disturbance.



LOW DISTURBANCE LEG & POINT

All Combi-Discs can be fitted with low disturbance legs and points to reduce soil disturbance whilst providing drainage.



BRAKES

Air braking or hydraulic braking systems are available for all trailed Combi-Discs as a factory fit option.

COMBI-DISC SPECIFICATIONS

Model	Working Width m	Transport Width m	No. Legs	No. of Discs	Roller Diameter mm	HP Requirement	Weight Kg
300 - Mounted	2.75m	3m	5	22	600	170 - 240	3420
350 - Mounted	3.25m	3.5m	6	26	600	210 - 270	3870
300 - Trailed	2.75m	3m	5	22	700	180 - 240	4620
350 - Trailed	3.25m	3.5m	6	26	700	210 - 270	5280
450 - Trailed	4.25m	2.61m	7	34	700	300 - 400	5540
550 - Trailed	5.25m	2.61m	9	42	700	350 - 450	6820



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YOUR LOCAL HE-VA DEALER

Due to our company policy of continual improvement we reserve the right to change specifications and/or prices without prior notification.

HE-VA Combi-Disc

Subsoil, surface cultivate and press the soil in one pass



See the working video at www.he-va.co.uk



HE-VA Combi-Disc

Subsoils, cultivates and consolidates all in one pass

The HE-VA Combi-Disc is a multipurpose cultivator designed to subsoil, surface cultivate and consolidate in one pass. The compact mounted 3m version can be used on tractors from 170hp upwards whilst the 4.25m and 5.25m trailed units are capable of being used on tractors up to 450hp. The Combi-Disc provides versatility for smaller farms by being able to perform a number of different jobs from primary to secondary cultivation and from subsoiling to shallow disc cultivating. Equally the larger folding trailed machines are at home being used as shallow stale seedbed preparation on 180hp tractors or working up to 350mm (14") deep moving the whole soil profile from the surface down on a 450hp tractor. Adaptability and ease of adjustment are standard features throughout the range.



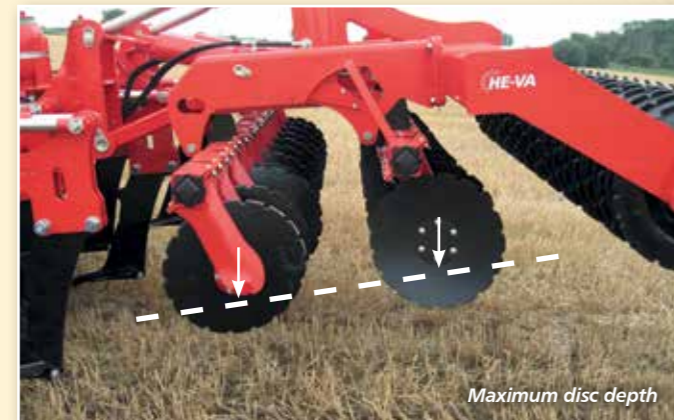
SUBSOILING LEG ADJUSTMENT

The subsoiling legs on the Combi-Disc can be used to work down to 350mm (14") or can be lifted out of work completely and the working depth can be altered on the move. The depth of the legs are controlled by the relative position of the packer roller at the back of the machine.



DISC ADJUSTMENT

Once the leg depth is set in relation to the packer roller then discs can be adjusted and set separately. The discs can work to a maximum of 12cm (5") or can be taken out of work completely. Once again the adjustment is hydraulic and the discs can be adjusted and fine tuned whilst on the move.



VERSATILE CULTIVATION

Having manufactured Subsoilers, Discs and Combination Cultivators for over a decade HE-VA have brought all their knowledge and experience together in the Combi-Disc. Launched as a 3m mounted machine in 2015 the range now includes trailed and larger hydraulic folding machines. The Combi-Disc is designed with the operator in mind, it can be used as a subsoiler with the discs lifted out of work, a set of discs with the legs lifted up or as a complete one pass soil cultivator. Furthermore, all of this is possible without leaving the seat of the tractor. Once the Combi-Disc has been set level the first time it is used the components of the machine can all be hydraulically adjusted from the tractor seat allowing minute changes to settings to be made whilst in work.



BORDER DEFLECTOR

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



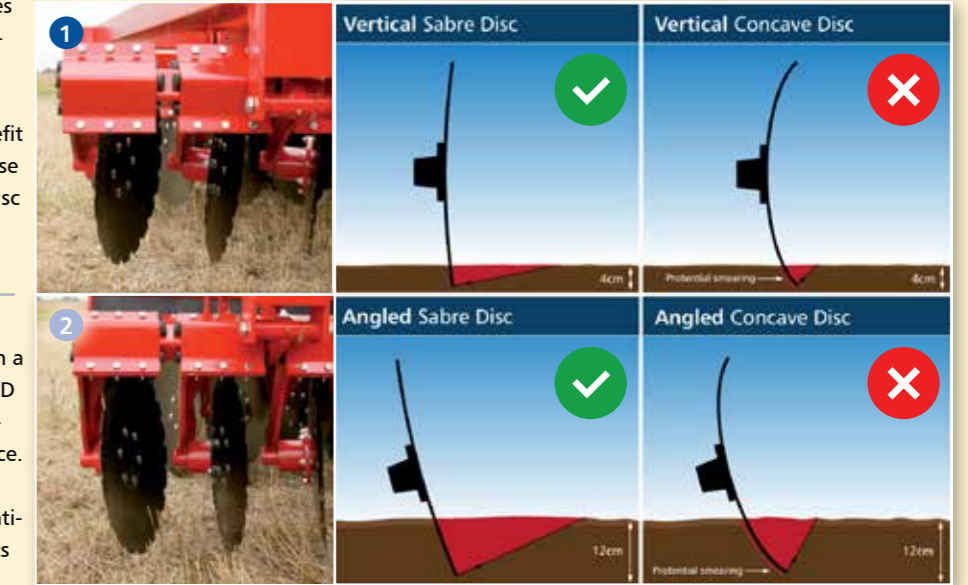
UNIQUE DSD TECHNOLOGY

DSD - Depth Synchronised Disc - Aggressiveness

When the deep soil loosening tines on the Combi-Disc are lifted out of work it can be used as a shallow disc cultivator. The unique DSD system enables the disc sections to be used very effectively when working shallow to create stale seedbeds and at the same time be able to cut and incorporate crop residues when working in conjunction with the subsoiling tines. 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).



- 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 working at an angle. This means there is no smearing which would create a disc pan.
- When the Combi-Disc is being used as a deep cultivator 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 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

The Combi-Disc utilises the HE-VA Sabre Disc that was developed for the Disc Roller. Normal heavily dished discs have too much angle and do not overlap enough to cut all the soil at shallow depths. The Sabre discs 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.



REAR ROLLER OPTIONS

Like many of the machines in the HE-VA range the Combi-Disc 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. The aggressive rib and shoulder profile combines with around 150mm ring spacing to leave an excellent consolidated weatherproof finish. Trailed Combi-Discs are supplied as standard with a larger 700mm V-Profile ring packer.

