

DISC ROLLER SPECIFICATIONS

Model No.	Type	Working Width	Transport Width	No of Discs	No. of Packer Rings	HP	Weight (Kgs)
1063091-60	Mounted	3m	3m	22	24	100	2080
1063096-60	Mounted	3.5m	3.5m	26	28	110	2395
1063092-50	Mounted	4m	4m	30	32	130	2710
1063092-60	Mounted	4m	2.45m	30	32	130	3120
1063093-64	Mounted	5m	2.45m	38	40	170	3750
1063091-64	Trailed	3m	3m	22	24	100	2630
1063096-64	Trailed	3.5m	3.5m	26	28	110	2945
1063092-64	Trailed	4m	4m	30	32	130	3260
1063092-65	Trailed	4m	2.45m	30	32	130	3680
1063093-65	Trailed	5m	2.45m	38	40	170	4300
1063094-65	Trailed	6.3m	2.45m	50	54	220	6290
1063095-65	Trailed	8m	2.45m	64	66	270	7700

COMBI-LIFT SPECIFICATIONS

Model No.	Type	Working Width	Transport Width	No. of Legs	Stone Protection	Weight (Kgs)
1064511-33	Mounted	3m	3m	5	Shearbolt	365
1064511-43	Mounted	3m	3m	6	Shearbolt	400
1064511-53	Mounted	3.5m	3.5m	6	Shearbolt	410
1064511-63	Mounted	3.5m	3.5m	7	Shearbolt	445

Standard – Cat III top link & balls, Disc Roller support legs, hydraulic hose extensions, road light extensions.

Model No.	Type	Working Width	Transport Width	No. of Legs	Stone Protection	Weight (Kgs)
1064531-05	Trailed	3m	3m	5	Shearbolt	TBA
1064531-15	Trailed	3m	3m	5	Hydraulic Reset	TBA
1064531-25	Trailed	3.5m	3.5m	6	Shearbolt	TBA
1064531-35	Trailed	3.5m	3.5m	6	Hydraulic Reset	TBA
1064531-45	Trailed	4m	2.5m	7	Shearbolt	TBA
1064531-55	Trailed	4m	2.5m	7	Hydraulic Reset	TBA
1064531-65	Trailed	4m	2.5m	7	Shearbolt	TBA
1064531-75	Trailed	4m	2.5m	7	Hydraulic Reset	TBA
1064531-85	Trailed	5m	2.5m	9	Shearbolt	TBA
1064531-95	Trailed	5m	2.5m	9	Hydraulic Reset	TBA

Standard – Support wheels for hydraulic folding models, hydraulic hose extensions, road light extensions, factory fit, heavy duty Disc Roller drawbar

Options – Retrofit heavy duty drawbar



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Due to our company policy of continual improvement we reserve the right to change specifications without notice. E. & O.E.

HE-VA Disc Roller and Combi-Lift

All your cultivation requirements in one machine



HE-VA Disc Roller Technology

Unfold it, put the tractor in gear and instantly take the cultivation workload down in size

The HE-VA Disc Roller has the key ingredient of any effective cultivation machine - it works - it is simple and most importantly it saves time and money.

The HE-VA Disc Roller is a result of years of development and testing to find the ideal combination of disc angle and packer ring to give perfect incorporation, mixing and consolidation in one high-speed pass.

UNIQUE DSD TECHNOLOGY

DSD - Depth Synchronised Disc - Aggressiveness



The unique DSD technology is in 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, mixing and chopping crop residues thoroughly.



Drawbar height is hydraulically adjustable to suit tractor hitch Trailed 3m, 3.5m, 4m and 5m machines

Drawbar height is hydraulically adjustable to suit tractor hitch (9 positions) 6.3m and 8m

HIGH SPEED 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 is a high-speed, high output machine for farms with many hectares of work to cover in a short space of time.

ADJUSTMENT & CONTROL



When turning on the headland the operator lifts the discs out of work and puts them back into work on the hydraulics.

The simple depth gauge on the 3, 3.5, 4, 5m machines (left) can be clearly seen from the

tractor seat and allows the operator to set the working depth of the machine hydraulically from the cab.

On 6.3 and 8.0m machines the Electro Hydraulic Depth Stop (below) senses when the preset depth has been reached. A simple activation of the spool in the tractor seat takes the discs out of work and back to exactly the same depth.

There is also an override switch incorporated into this depth stop so that the operator can switch the depth control off and put the discs in deeper where conditions require.

Electro Hydraulic Depth Stop is an option on 3, 3.5, 4, 5m machines.



V PROFILE ROLLER

Like many of the machines in the HE-VA range the Disc Roller uses the pressed steel V profile ring. However, all the rings are mounted on a 300mm tube 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 125mm spacing to leave an excellent consolidated weatherproof finish.



Diameter 600mm

BORDER DEFLECTOR

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



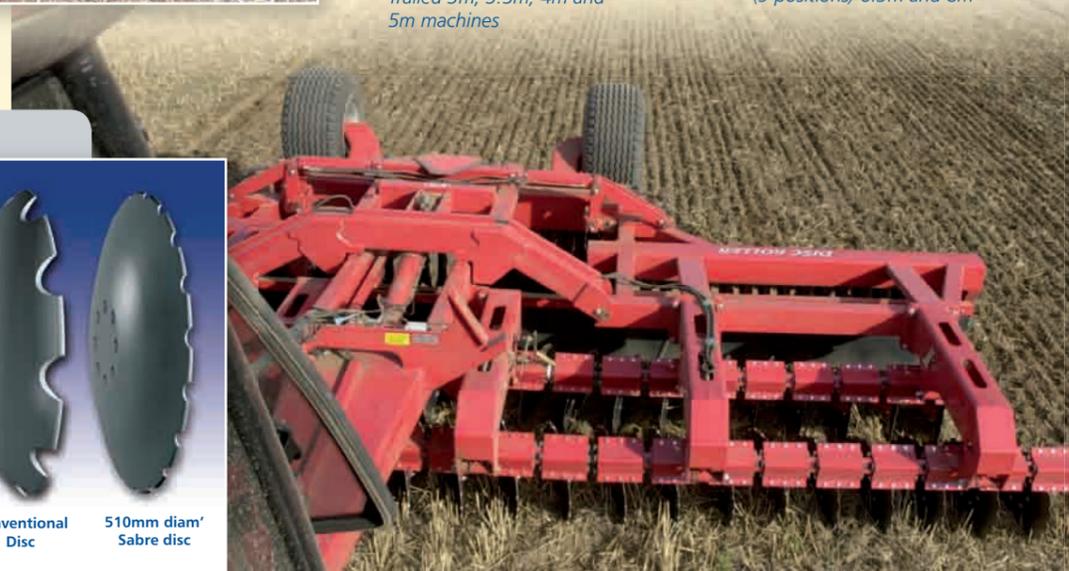
HE-VA 510mm Sabre Disc

A major part of the development work on the Disc Roller was the optimisation of the disc design. This has resulted in the new 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 new shallow disc angle, with its superb cutting action, coupled with the stagger of the two disc rows provides the 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.



Conventional Disc

510mm diam Sabre disc



Simple, quick with positive control

A real advantage of the Disc Roller design is the simplicity of folding. From driving to the field to being in work literally can be measured in seconds. Once in work all the adjustments needed can be done from the tractor seat. You are immediately into high-speed, cost effective cultivation.

2 Section Folding 4m / 5m



Transport Locks

The two section machines are equipped with automatic central transport locks which are hinged on the main beam ensuring safe transport.

3 Section Folding 6.3m / 8m



Transport Cradle

The three section machines have transport cradles for the wing sections. The last part of the folding sequence is to lower the wing sections into the cradles which secure them for transport.

OPTIONS



LIGHTING KIT

An optional lighting kit is available for all machines. In some countries this kit is standard fit to meet legal requirements.



SOIL MAT

For some conditions the Disc Roller has a unique mat which ensures soil falls before the roller to present a level surface to be consolidated.



BRAKES

Air braking or hydraulic braking systems are available for all trailed disc rollers.



ELECTRIC DEPTH STOP

Standard on the larger machines and available as an option on the 3, 3.5, 4 and 5m machines. This gives you the ability to control the depth automatically. It also has a manual override.



VARIOCAST MOUNTING KIT

All Disc Rollers can be fitted with a mounting kit suitable for the OPICO VarioCast.

Level, Shatta, Cultivate and Consolidate

The Disc Roller 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

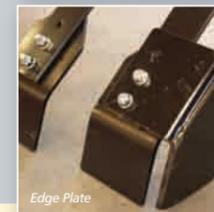


EVEN AND FIRM

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.



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.



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.

To Fit Disc Roller Width	Shattaboard Part Number	Slicing Board Part Number	Locks Part Number
3m - 1 section	1063391-00	1063791-00	1063491-00
3.5m - 1 section	1063396-00	1063796-00	1063496-00
4m - 1 section	1063392-00	1063792-00	1063492-00
4m - 2 section	1063592-00	1063892-00	1063692-00
5m - 2 section	1063593-00	1063893-00	1063693-00
6.3m - 3 section	1063594-00	1063894-00	1063694-00
8m - 3 section	1063595-00	1063895-00	1063695-00

Options - Edge plate - 1063301-00



The Combined Force

The HE-VA Combi-Lift sub-soiling unit

Add a Combi-Lift Subsoiler to your Disc Roller and loosen the lower soil structure whilst incorporating and mixing surface residues in the same pass.

Reducing tillage costs is one of the key elements in keeping a profit showing on the bottom line. HE-VA have always looked hard at utilizing machines to a maximum so that several jobs can be done in one man/tractor pass.

Now the Disc Roller can be used in conjunction with the Combi-Lift as a one-pass subsoiling and surface cultivation tool.

Two versions of the Combi-Lift are available, the mounted and the trailed versions. Designed with the same principles in mind the 3 and 3.5m working widths are available as mounted machines with shearbolt protection whilst the wider widths and longer hydraulic reset machines come as trailed units,

Both types of Combi-lift can be fitted to customers existing Disc Rollers with the trailed versions available up to 5m in working width.

STONE PROTECTION

Two types of stone protection are available the hydraulic reset version allows the ability to cope with stony conditions on the move whilst the simple shearbolt unit provides manual protection.

With or Without

When the operator does not need to cultivate the soil surface then the Disc Roller discs can be lifted out of work hydraulically from the tractor seat effectively leaving the machine working as a subsoiler. Similarly the Combi-Lift can be lifted out of work if just surface cultivation is required.

One unit or two

With the 3 point linkage machine, where weight and size of tractor is important for lifting the implement there is also always the option to decouple the integrated Combi-Lift and Disc Roller and use the Disc Roller on its own on a smaller tractor for surface cultivation.

Rigid Combi-Lift



Available in 5 and 6 leg formats to suit 3m Disc Rollers or 6 and 7 leg formats to suit 3.5m Disc Rollers, the rigid shearbolt protected Combi-Lift is suitable for 150 to 275Hp tractors.

The heavy duty box section frame and cat III / IV linkage ensures there is strength in the machine to cope with the most arduous of conditions. Large under frame clearance and stagger of the subsoiling legs ensures that there is plenty of room for even the trashiest of crop residues to work through the machine. Besides the advantage of being able to split the two units to work either machine independently the fact the Combi-Lift and Disc Roller are connected by lower link hooks and a top link means that the top link length can be adjusted to change the pitch of the tines and therefore adjust the heave from the points. This allows fine adjustment of the job in hand ensuring the best results.

SUBSOILING DEPTH

All Combi-Lifts can be used at a working depth of up to 350mm (14") enabling them to alleviate most types of soil pan and compaction whilst the Disc Roller cultivates the surface. Adjustment is either manual on the mounted machines with a pin and hole system or Hydraulic, from the tractor seat, on trailed models



Trailed Combi-Lift

HYDRAULIC FOLDING

Two widths of Combi-Lift are available to fit Hydraulic Folding Disc Rollers, a 4m with 7 tines and a 5m with 9 tines, these will suit tractors from 250Hp to 450Hp.

Available as Hydraulic Reset or Shearbolt protected units the Hydraulic Folding

Combi-Lifts all have front depth wheels fitted as standard to prevent the machine being damaged if tines on one side or the other go in deeper on uneven soil. The tine holders are mounted onto the frame by clamps which enables tines to be dropped out of the frame and spacing to be altered within the limitations of the frame. Similar under frame clearance to the mounted units and increased stagger of 420mm along the row of tines allows even better trash clearance. A significant benefit of the trailed machine is that the tine depth is hydraulically adjustable from the tractor seat. Furthermore the Combi-Lift can be folded and locked in the folded position to allow the Disc Roller to be used on its own if necessary and as with the other machines in the range the Disc Roller discs can be retracted from work to allow the combination to be used as a subsoiler.



HYDRAULIC RESET

Only available as a trailed unit the Hydraulic Reset Combi-Lift is designed to fit 3m, 3.5m 4m, and 5m Disc Rollers.

It incorporates two Hydraulic Accumulators (See Left) and a pressure gauge to allow the operator to set the pressure on the legs dependant on working depth. The Hydraulic Reset system allows legs to trip back when they hit an obstacle and then reset automatically on the move once the obstacle has been cleared.



HE-VA

An **OPICO** brand

Hydraulic Accumulators