



Disc-Roller



HE-VA Disc-Roller

A New Angle on Cost
Effective Cultivations




EuroAgri

Importers of Machinery Excellence



Billericay



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 important it saves time and money.

The HE-VA Disc-Roller is developed and tested 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 work is carried out by two rows of off-set scalloped discs mounted on a twin roller race 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.



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.

DEPTH 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 and 5 m 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 8.0 m machines the Electro Hydraulic Depth Stop (right)

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 and 5 m machines.



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 125 mm (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.



EDGE EQUIPMENT
As standard all models are equipped with adjustable edge plate and plough ensuring that the Disc-Roller leaves a totally plane soil surface between each pass in the field.



Drawbar Height is hydraulically adjustable to suit tractor hitch 3, 3.5, 4 and 5 m.



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



HE-VA SABRE DISC - NEW UNIQUE DESIGN

A major part of the development work on the Disc-Roller has been the optimising of the disc design. This has resulted in the new HE-VA Sabre Disc. 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 Sabre means you have cost effective cultivations at speeds up to 16 Kilometres per hour.



Manual side shift of front gang

The offset of the two rows of discs is preset to the optimum from the factory. However, it is adjustable, in 2 cm increments if particular conditions require. (below)



ROLLER TYPES

The Disc-Roller comes with three roller types

V-Profile

This is a cleverly designed press ring, with cutting action, that leaves an ideal consolidation and, more important, a weatherproof surface.

The V-profile is a pressed steel, castellated ring with shoulder profile giving aggressive clod crushing in heavy soils and even consolidation in lighter soils. The rings are connected by a lug ensuring each section is able to turn as one in wet, sticky conditions to prevent blocking.

Each ring has some free movement to improve turning on the headland. The press, with around 1 ton per meter, leaves a perfect finish ready for the drill.



T-Profile

The T-Profile ring has a flat surface to consolidate the soil and control the depth of the machine whilst the stem of the T provides a sharp cutting edge for clod crushing.

The individual T-Profile rings are also connected by a lug ensuring each gang turns as one in wet sticky conditions preventing blocking. Each ring has some free movement to improve turning on the headland.



Square Tube Roller

550 mm square tube roller - made of strong sectional tubes - is ideal for loose soil (not sticky soil). An excellent depth control is achieved via this square tube roller which is available for 3.0 m and 4.0 m rigid Disc-Rollers.



Sizes to improve the workload on all farms

The HE-VA range of Disc-Rollers is comprehensive with matching powerbands to enable most farms to add this technology to its cultivation options.

1 SECTION MOUNTED AND TRAILED - 3 / 3.5 / 4 M from around 100 hp



This simple, effective one section unit is below the legal transport width and is designed for tractors around 100 hp. This means smaller arable and mixed farms can add Disc-Roller technology transforming their high speed shallow cultivations and increasing cost and time saving.



2 SECTION MOUNTED AND TRAILED - 4 / 5 M from around 130 hp



The ideal machine for most medium to larger farms. The unit is built in two sections and requires around 130 hp to make the most of the high speed cutting and mixing action.

The sizes available are 4 and 5 m mounted or trailed, giving an option to suit most medium farms horsepower's and allowing most farmers to beat windows in the weather at peak busy times.



3 SECTION TRAILED - 6.3 / 8 M from around 200 hp

This is designed for the largest farmers to maximise the use of their bigger tractors in applying high speed cultivation technology. This will convert this seasons stubble into ready-to-drill fields in less time and with less demand on operators. Although working 6.3 to 8 m wide the clever folding, down to 2.45 m, is simple and quick. Even this small timesaving makes a contribution to the workload on high pressure days.



HE-VA
DISC-ROLLER

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. Allly this to the fact that when you unfold it you are virtually straight into work with just a simple adjustment to the depth to fit your work. You are immediately into high-speed, cost effective cultivation.

2 SECTION FOLDING 4 / 5 M



3 SECTION FOLDING 6.3 / 8 M



HE-VA CONTROL

Maintenance-free disc-hubs

HE-VA Disc-Roller is equipped with maintenance-free disc-hubs. The new developed sealing system for the bearings consists of the unique steel washer mounted on the shaft with only 0.1 mm distance from the hub. Thus impurities cannot enter the quintuple gasket system – nor in situations, where long materials are wrapped around the shaft and hub.



Transport width 2.45 m

Another unique element of the HE-VA Disc-Roller is that all machines fold to below 2.45 m which is significantly less than the legal transport width.

This provides maximum manoeuvrability and the operator having that little extra confidence in tight situations around trees or barns.

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.

Transport Locks

The two section machines are equipped with central transport locks which are hinged on the main beam producing a positive control of both sections in transport.



HE-VA Disc-Roller

TECHNICAL SPECIFICATIONS

MODEL	SECTION	WORKING WIDTH	FOLD	NO. OF DISCS	HP	WEIGHT				WHEEL SIZES	
						T-PROFILE RINGS		V-PROFILE RINGS			SQUARE TUBE ROLLER
Mounted	1	3 m	Fixed	22	100	24	1810kgs	24	2080kgs	1460kgs	
Mounted	1	3.5 m	Fixed	26	110	28	2125kgs	28	2395kgs		
Mounted	1	4 m	Fixed	30	130	32	2440kgs	32	2710kgs	1880kgs	
Mounted	2	4 m	Vertical	30	130	32	2760kgs	32	3120kgs		
Mounted	2	5 m	Vertical	38	160	40	3290kgs	40	3750kgs		
Trailed	1	3 m	Fixed	22	100	24	2360kgs	24	2630kgs		11.5/80x15.3
Trailed	1	3.5 m	Fixed	26	110	28	2670kgs	28	2945kgs		11.5/80x15.3
Trailed	1	4 m	Fixed	30	130	32	2990kgs	32	3260kgs		11.5/80x15.3
Trailed	2	4 m	Vertical	30	130	32	3320kgs	32	3680kgs		400/60x15.5
Trailed	2	5 m	Vertical	38	160	40	3850kgs	40	4300kgs		400/60x15.5
Trailed	3	6.3 m	Horizontal	50	200	54	5720kgs	54	6290kgs		400/60x15.5
Trailed	3	8 m	Horizontal	64	250	66	6970kgs	66	7700kgs		500/50x17.0

OPTIONS



SPRING-BOARD

Spring-Board levelling bar is available on all trailed Disc-Rollers and an excellent levelling effect is hereby achieved – especially on ploughed land.



BRAKES

Air braking or hydraulic braking systems are available for all trailed Disc-Rollers.



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. This mat is adjustable on 3.0, 3.5, 4.0 and 5.0 m machines so the effect can be maximised.



ELECTRIC DEPTH STOP

Standard on the larger machines and available as an option on the 3.0, 3.5, 4.0 and 5.0 m machines. This gives you the ability to control the depth maintained at all times. It has a manual override.



SUPPORT/DEPTH WHEELS

Height adjustable support/depth wheels are available, mounted in front, on trailed Disc-Rollers. A more stable Disc-Roller is hereby achieved. Mainly for loose soil types and/or for very ground cultivations.



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MULTI-SEEDER

Mounting set allows HE-VA Multi-Seeder to be fitted for seeding oil seed rape, stubble turnips, grass seeds and other small seeds or slug pellets.



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