



# Tip & Swing Roller



# HE-VA Rolls

## Tip- & Swing-Roller

*Taking rolls technology to a new level*



  
**EuroAgri**

Importers of Machinery Excellence



Billericay



# A Rolling One Pass Concept

## Don't just roll - Cultivate, level and consolidate

... all in one pass! By switching to HE-VA rolls technology you will reduce your time and costs and improve effectiveness.

HE-VA now offers a Spring-Board and a Spring-Board with slicing plates to turn their Rolls into an all round cultivator. Coupled with a wide choice of ring types this means you can specify the right machine to suit any type of land.

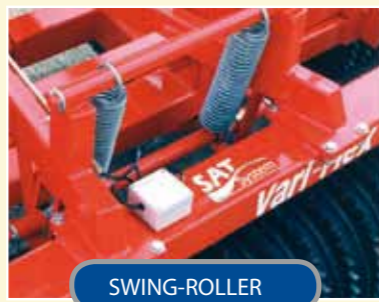
Don't just roll it - HE-VA roll it!

### UNIQUE SAT SYSTEM

#### SPRING ACTIVE TRANSFER



TIP-ROLLER



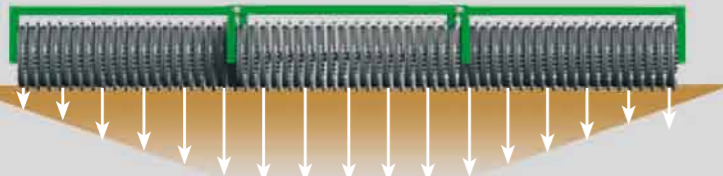
SWING-ROLLER

3 section rolls with contour flexing chassis, centre pivoting wings and the unique SAT - 1000kg automatic weight transfer system.

5 section rolls with SAT system independent flotation on all 5 sections thanks to the additional spring system built into the end section pivots and centre roll.

#### AUTOMATIC WEIGHT BALANCING

Rolls without HE-VA Automatic weight balancing tend to exert the highest ground pressure on the centre roller section. This roller section carries the weight of the drawbar, wheel frame and hydraulics as well as its own weight, far more than the two wing sections

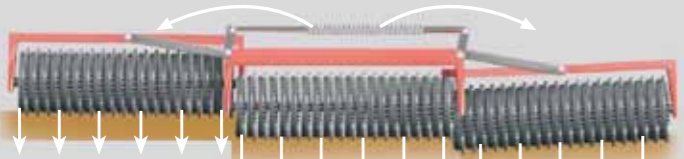


1 With a basic roller set up there is no weight transfer and the uneven weight distribution is great as can be seen above.



2 Even with a basic sprung weight transfer system the hinges at the end of the centre section roller negate much of the transfer effect.

#### FREE FLOATING ROLLER SECTIONS



3 The HE-VA SAT system is fully spring loaded and has the outside roll section attached with centre pivot hinges, maximising the weight transfer to give even weight distribution across the full width of the rolls.



### ALL IN ONE ACTION

Real power in action - firming and levelling with clod busting or slicing, cultivating or combinations of both, on top of full width rolling action.

With this choice of combinations and working widths from 4.5 m to 12.2 m, HE-VA rolls can meet the demands for improved efficiency regardless of farm size or soil conditions



As the HE-VA wing sections are suspended from the central pivot the rolls can follow the most difficult contours. Deep hollows and undulations in the ground will often leave ordinary rollers hanging in mid air, achieving nothing.

HE-VA always give FULL width rolling power



Contour following section



5 Section Hinge

### HE-VA TIP-ROLLER

3 Section - 4.5 m to 10.2 m



Rings are mounted on 60mm axles for strength and long life. These axles run on 4 bolt bearings protected inside u-profile steel.



**Support Bearing**  
The axle in the side sections of the 8.2 m, 9.5 m and 10.2 m Tip-Rollers has a ball bearing in the centre as an additional support in order to prevent a bending of the axle.

Stone trays are fitted as standard and the rolls are all hydraulically operated from the tractor seat using two double acting services.

There is a choice of five ring types along with three 'boards' which can be fitted in front of the rolls for the additional cultivation action.

**3 Section Hinge**  
The folding mechanism has a deep wing link pivot with Teflon coated steel bushing top and bottom to provide strength for cultivation as well as rolling.



### HE-VA SWING-ROLLER

5 section - 10.2 m to 12.2 m

Although designed to cope easily with bigger farms, and larger hp based systems, the 5 sections rolls are still easy to handle - simple to fold and capable of devouring many acres of work in the day.

The rings are also mounted on 60 mm axles with 4 bolt bearings.

The two outside wing sections are supported by deep wing link folding

mechanisms with an additional jump slot for increased flotation and for working field edges.

The clever design of all HE-VA rolls also ensures that tractor drawbar height variation (400-600 mm) does not alter the performance of the rolls.

5 section rolls design features independent flotation on each section. The centre pivot suspension gives full width contour following. Even the centre section floats independently.

#### Centre Pivoting Sections



The folding mechanism has a deep wing link pivot with Teflon coated steel bushing top and bottom to provide strength where it's needed.

# Choose your cultivation action

This is where your cost savings start - work as you roll ... level, firm and crush clods, all in one pass.

Cultivate? Prepare a seedbed? Or conserve moisture - flexibility is the key.



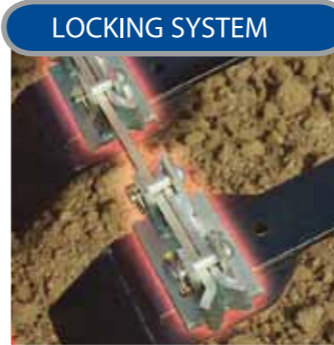
SPRING-BOARD

The spring mounted Spring-Board crushes clods and has an excellent levelling effect. The angle of the boards can be adjusted hydraulically, from the tractor seat to suit the land conditions on the day. Each spring is 10 mm x 80 mm and gives wide surface coverage with 150 mm wide hardened points.



SPRING-BOARD w/slicing plates

Now the successful Spring-Board has been improved further with the addition of 'knives' to the spring-loaded blade increasing the slicing and clod breaking effect on heavier ground. These blades can also be adjusted for angle of attack, hydraulically as with the Spring-Board (left).



LOCKING SYSTEM

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

The boards can be quickly and easily retracted for rolling seedbeds

Whichever combination of cultivation tool and ring you choose the HE-VA System gives you the opportunity to produce the perfect tilth at less cost.

# Choose your ring profile

HE-VA offer a helpful range of ring types

All carefully designed to maximise the time proven qualities of traditional ring engineering but with some new developments created from customer demand and changing farming methods.

See back page for full ring configuration, specifications and weights.



CAMBRIDGE RINGS - 450 mm, 510 mm, 620 mm



CAM RING 550 mm



CROSSKILL RING 485/530 mm



CORRUGATED RING 500 mm



PLAIN RING 505 mm



# Folds in seconds!

Simple, safe folding - what else do you expect from a HE-VA

## FOLDING SEQUENCE 3 SECTION TIP-ROLLER



1  
Rolls in transport position



2  
3  
Swing the side section into working position



4  
Tip the side sections



5  
Tip the rolls forward until the cylinder bottoms



6  
The HE-VA rolls are ready to work



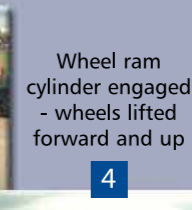
## FOLDING SEQUENCE 5 SECTION SWING-ROLLER



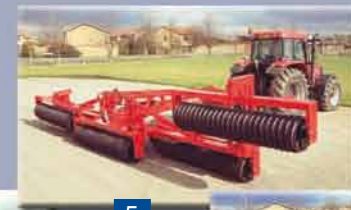
1  
Rolls in transport position, wheels down



2  
3  
Swing the wing sections out



4  
Wheel ram cylinder engaged - wheels lifted forward and up



5  
Outside wing cylinders extending



6  
Rolls ready to work

## SAFE TRANSPORT AND STORAGE



A locking pin secures each wing for transport on 5 section swing rollers.



HE-VA 3 section rolls design supports the side section horizontally in a positive locking cradle reducing noise when travelling.



In the completely folded position the weight of the wings is carried between the tractor and transport wheels improving stability.

## OPTIONS



5 Section rolls have an optional auto-lock system. This operates automatically when the wing section is moved in and out of transport.



Mounting set allows HE-VA Multi-Seeder to be fitted for seeding Oilseed Rape, Stubble Turnips, Grass Seed and other small seeds or Slug Pellets.








Optional Tractor Wheel Eradicator for use on ploughing in front of Rolls fitted with Shattaboards, lifts out the tractor wheelings.

Other options include: Spring-Board, Road lights, Hydraulic or Air brakes and Drawbar extensions.

# HE-VA Rolls

## TECHNICAL SPECIFICATIONS

RING TYPE		CAMBRIDGE			CAM	CROSSKILL	CORRUGATED	PLAIN
								
WORKING WIDTH	Ring Size	450 mm	510 mm	620 mm	550 mm	485/530 mm	500 mm	505 mm
<b>TIP-ROLLER</b>								
<b>4.5 m</b> TRANSPORT W. 2.22 m	WEIGHT KG RINGS AXLE (mm)	1800 87 60	2040 87 60	- - -	1480 30 50	1905 45 60	1895 90 60	1600 15 60
<b>5.4 m</b> TRANSPORT W. 2.22 m	WEIGHT KG RINGS AXLE (mm)	2215 105 60	2510 105 60	- - -	1840 36 50	2350 54 60	2330 108 60	1970 18 60
<b>6.3 m</b> TRANSPORT W. 2.46 m	WEIGHT KG RINGS AXLE (mm)	2590 123 60	2940 123 60	*4010 123 60	2080 42 50	2700 63 60	2720 126 60	2280 21 60
WHEELS: 10.0 / 75 X 15.3 - 10 PLY				*WHEELS: 11.5 / 80 X 15.3 - 10 PLY				
<b>7.3 m</b> TRANSPORT W. 2.46 m	WEIGHT KG RINGS AXLE (mm)	3320 143 60	3730 143 60	4580 143 60	2710 48 50	3460 73 60	3470 146 60	2940 24 60
<b>8.2 m</b> TRANSPORT W. 2.46 m	WEIGHT KG RINGS AXLE (mm)	3730 157 60	4180 157 60	5110 157 60	3110 55 50	3880 81 60	3910 162 60	3350 27 60
WHEELS: 11.5 / 80 X 15.3 - 10 PLY								
<b>9.5 m</b> TRANSPORT W. 2.46 m	WEIGHT KG RINGS AXLE (mm)	- - -	5110 180 60	6170 180 60	3870 63 50	4820 95 60	4830 188 60	4220 32 60
<b>10.2 m</b> TRANSPORT W. 2.46 m	WEIGHT KG RINGS AXLE (mm)	- - -	5470 196 60	6640 196 60	- - -	5120 101 60	5130 202 60	4460 34 60
WHEELS: 400 / 60 X 15.5 - 14 PLY								
<b>SWING-ROLLER</b>								
<b>10.2 m</b> TRANSPORT W. 2.7 m	WEIGHT KG RINGS AXLE (mm)	4700 199 60	5400 199 60	- - -	4090 71 60	4670 105 60	5450 210 60	4625 35 60
<b>12.2 m</b> TRANSPORT W. 2.7 m	WEIGHT KG RINGS AXLE (mm)	5230 235 60	6070 235 60	- - -	4550 85 60	5300 125 60	5950 240 60	5150 45 60
WHEELS: 400 / 60 X 15.5 - 14 PLY								

## SPECIFICATIONS - SPRING-BOARD or SPRING-BOARD WITH SLICING PLATES

WORKING WIDTH	NO. OF TINES	SPRING-BOARD	WEIGHT KGS
		with lock	without lock
4.5 m	18	425	370
5.4 m	21	504	440
6.3 m	24	664	590
7.3 m	28	716	630
8.2 m	32	907	810
9.5 m	36	992	880
10.2 m	40	1065	945



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