

# HE-VA Rolls

*Our widest ever range covers every need*



**HE-VA**  
An **OPICO** brand



# A comprehensive range of Rolls for all conditions

Switch to HE-VA Rolls technology to reduce your workload and costs whilst improving effectiveness.

If you mention the name HE-VA to most UK farmers the first machine they think of will be Rolls!

HE-VA have been manufacturing Agricultural Rolls for approximately 40 years, their experience and knowledge in designing and building the best machines money can buy is second to none.

Every model from 4.5m to 18.3m incorporates many clever features ensuring the Rolls give even consolidation across the full working width. By switching to HE-VA Rolls technology you can speed up the consolidation process and reduce costs. On Tip Rollers HE-VA offer a Shattaboard or Shattaboard 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.

## TIP ROLLER - 3 Section

4.5m to 10.2m working widths, available with 510mm rings on all sizes, 610mm rings on 6.3m to 10.2m models. Shattaboards are available for all 3 section machines.

## SWING ROLLER - 5 Section

12.2m working width and available with 510mm rings only, No Shattaboards available on the 5-Section Swing Roller.

## KING ROLLER - 5 Section

12.3m to 18.3m working widths, available with an option of 510mm or 620mm rings, No Shattaboards are available on the King Roller.

## CHOOSE YOUR RING PROFILE



\*3-Spoke CAMBRIDGE & BREAKER  
510mm / 21" (Standard)



\*5-Spoke CAMBRIDGE & BREAKER  
620mm / 24" (Standard)



2-Piece CROSSKILL



\*2-Piece CAMBRIDGE Breaker  
510mm / 21" (Aggressive)



\*2-Piece CAMBRIDGE Breaker  
620mm / 24" (Aggressive)

HE-VA Rolls are available with a choice of ring types. All carefully designed to cope with today's higher machine weights but retain the time-proven qualities of traditional ring engineering, the range includes new developments created to meet customer demand and changing farming methods.

[See back page for full ring configuration, specifications and weights.](#)

\*Available as Cambridge only rings

## HE-VA TIP ROLLER - 3 Section 4.5m to 10.2m



HE-VA have one of the largest Agricultural Rolls ranges on the market and the 3-Section Tip Roller makes up approximately 75% of all HE-VA Rolls sold in the UK.

Sizes range from 4.5m to 10.2m, each size comes in 2 different variations, HD (Heavy Duty) and a XHD (Extra Heavy Duty), the HD has 510mm rings and the XHD 620mm rings.

A full range of Shattaboards are available to fit all Tip Rollers, turning each set of rolls into a cost effective cultivator.

From shed to field the driver doesn't need to leave the tractor cab as the Rolls can be put to work in seconds simply and safely straight from the tractor seat. Just pull into the field, unfold using the tractor hydraulics and you are ready to go. Folding is just as simple, each 3-Section machine folds up to 2.5m (2.7m for 9.5 and 10.2m machines), each wing section locks into a transport cradle once in the fully folded position increasing road transport safety and giving peace of mind that they stay where they should at all times.

# Unrivalled contour following ensures full width cultivation



All models of TIP ROLLER have 5 pivot points across their working width and each wing section can pivot centrally and move independently from the main frame allowing the Rolls to adapt and follow the contours no matter how undulating the ground may be.

One of the key features of HE-VA's Tip Roller is its SAT Spring Active Transfer System. Unlike other machines HE-VA Rolls spread their weight evenly across their working width.

## All in one action

Firming and levelling with clod crushing and slicing, on top of full width rolling action – that's real power in action.

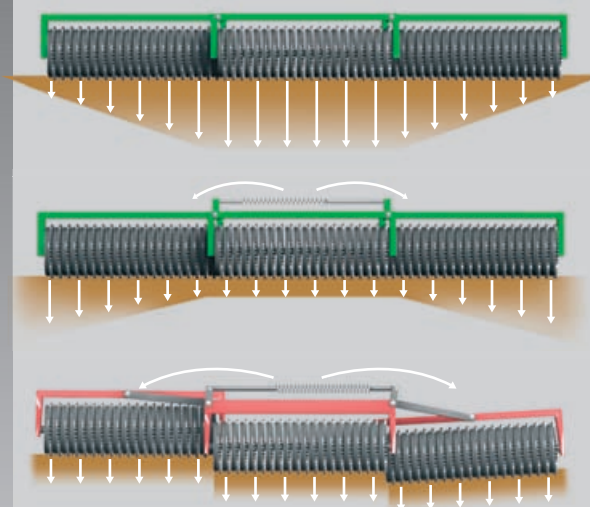
### UNIQUE SAT SYSTEM - Spring Active Transfer



3 section rolls with contour flexing chassis, centre pivoting wings, and the unique SAT - 1400kg to 3800kg automatic weight transfer system.

## 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 on the left.

2

Even with a basic sprung weight transfer system the hinges at either end of the central section prevent weight being spread evenly.

3

The HE-VA SAT system is spring loaded and as the outside roll sections are attached with centre pivot hinges, weight is transferred evenly across the full width of the rolls.



# Build quality, and attention to detail



- **Built-in Strength**

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



- **Extra Support**

The axles on the wing sections of the 8.2, 9.5, and 10.2m Tip Rollers have a centre bearing as an additional support.



- **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.



- **Noise Reduction**

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



- **Improved Stability**

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



- **Air-seeder ready**

Optional air seeder mounting framework allows the OPICO Variocast to be fitted for seeding Oilseed Rape, Stubble Turnips, Grass Seed and other small seeds or Slug Pellets.

## Folding Sequence 3 section Tip Roller



Rolls in transport position



Lift wings off transport cradles



Swing the side section into working position



Tip the side sections



Tip the Rolls forward until the cylinder bottoms



The HE-VA Rolls are ready to work

# Add a Shattaboard for time and cost-saving one-pass cultivations

Available for all 3 section Rolls – from 4.5m to 10.2m

This is where your cost savings start. The Shattaboard transforms your HE-VA Rolls into an all-round implement. Work as you roll – level, press plough furrows and crush clods, all in one pass.





# Cultivate, prepare a seedbed, or just consolidate to conserve moisture! *Flexibility is the key.*

## SHATTABOARD

The spring mounted Shattaboard 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 10mm x 80mm and gives wide surface coverage with 150mm wide hardened points.



## SLICING PLATES

The highly successful Shattaboard 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 Shattaboard.



## LOCKING DEVICE

The blades 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 Shattaboards can be quickly and easily retracted for rolling seedbeds*

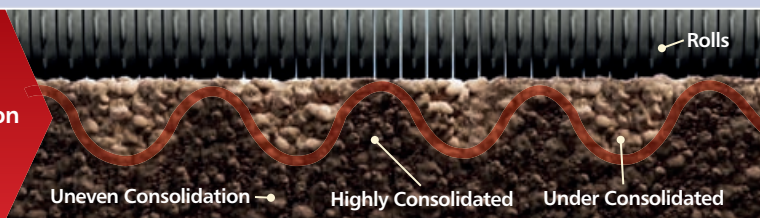


## A winning combination

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

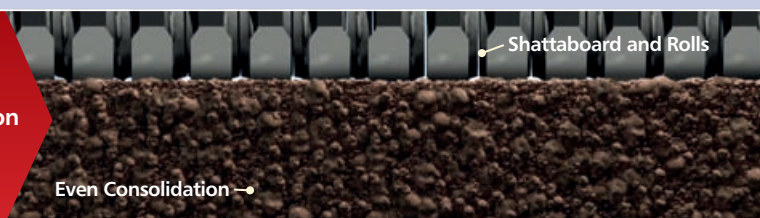
## Why you need a Shattaboard.

**Without a Shattaboard on ploughed land**

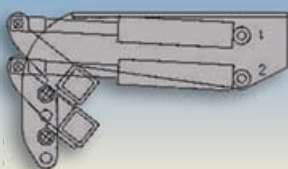


◀ The diagram left shows the consolidation pattern under the soil profile using rolls working straight on to ploughed land without a Shattaboard. What you can clearly see is, the plough ridge and furrow causes more and less consolidated areas.

**With a Shattaboard on ploughed land**



◀ Using a set of Rolls with a Shattaboard on ploughed ground will allow you to create an evenly consolidated seedbed ready for drilling. The diagram left shows the effect to the soil structure, the Shattaboard levels and helps the breakdown of plough ridges whilst filling in furrows in front of the roller. The resulting even surface is then evenly consolidated



▲ 2 or 3 close coupled mounting brackets per Shattaboard section provide optimum strength.





# HE-VA SWING ROLLER - 5 Section 12.2m

The 5 section Swing Roller's design features independent floatation on each section coupled with the centre pivot suspension. This gives full width contour following.



## Wing Hinge

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

Although designed to cope with the higher workloads of larger farms, the Swing Roller is still easy to handle and simple to fold whilst being capable of covering many acres in a day.

The rings are also mounted on 60mm 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 floatation and for working field edges.

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

## UNIQUE SAT SYSTEM - Spring Active Transfer



Like other models in the HE-VA range the Swing Roller employs a SAT Spring Active Transfer System to transfer frame weight evenly to all 5 sections ensuring even rolling.

## Folding Sequence 5 section Swing Roller



Rolls in transport position, wheels down



Unlock wings



Swing the wing sections out



Wheel ram cylinder engaged – wheels lifted forward and up



Outside wing cylinders extending



The HE-VA Rolls are ready to work



**HE-VA KING ROLLER - 12.3m, 15.3m, 16.3m and 18.3m**

**Now even wider to cover  
more acres even faster**

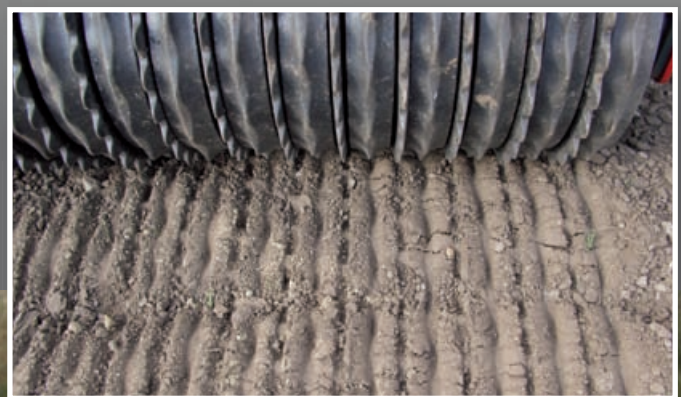


**Supreme contour following  
ensures consistent, high  
quality results across the field**

With working widths of 12.3m, 15.3m, 16.3m or 18.3m the new HE-VA King Roller meets the increasing demand for wider and heavier rolls.

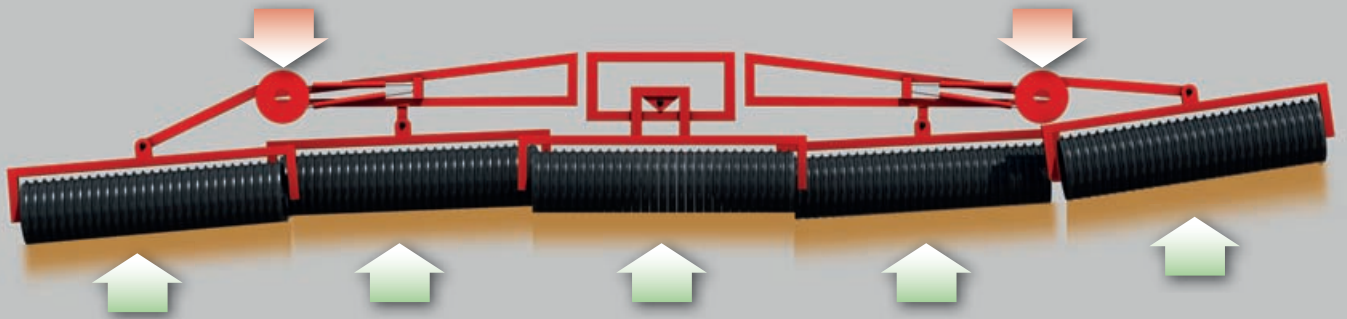
**IMPRESSIVE PRODUCTIVITY**

***A 15.3m set of Rolls*** travelling at 6km/hr with a driver driving at 90% field efficiency will cover ***8.25ha or 21 acres per hour***





## Independent Floatation and 7 Pivot Points



The five centre pivots, two folding pivots and the pivoting drawbar eye allows individual sections to follow the ground contours. The floating inner links, which join the outer wing sections to the main frame, allow all five sections to float completely independently, providing the best possible contour adaption.



The King Roller frame also incorporates HE-VA's Special Active Transfer (SAT) weight transfer system. The additional central support bearings on each roll support section ensure the axles are not placed under excessive stress.

### Unique SAT System

The King Roller's Hydraulic Folding System is linked to two accumulators and a hydraulic pressure gauge. The pressure gauge allows the operator to set the amount of



weight transfer to ensure even consolidation across the full width. The accumulators act as an oil buffer when the rolls are travelling over uneven ground and the hydraulic rams need to extend or shorten to allow the rolls to follow the contours.



*Available with 21" (510mm) or 24" (620mm) rings, the King Roller quickly folds down horizontally to a transport width of 3m.*



**From 12.3m to 18.3m**



## 5 Reasons to Choose a HE-VA King Roller

### 1 HYDRAULIC SAT SYSTEM

SAT allows the operator to ensure the Rolls weight is distributed evenly across the working width.

### 2 INDEPENDENT FLOATATION AND 7 PIVOT POINTS

A centre pivot on each section and two more folding pivots on the outer sections allow floating and pivoting. The result is superb contour following.

### 3 HEAVY-DUTY DESIGN

Built to withstand high workloads, the HE-VA King Roller is also heavier than most other like-for-like rollers, ensuring a better finish.

### 4 3M TRANSPORT WIDTH

The King Roller folds down quickly and neatly to 3 metres for ease of road transport.

### 5 LIGHTS AND HYDRAULIC BRAKES AS STANDARD

Ensure you are legal and safe when on the road.



## Options

- Air brakes are available in lieu of hydraulic brakes.
- Cambridge only rings can be fitted instead of the standard Cambridge and Breaker rings.

## Folding sequence King Roller



Rolls in transport position, wheels down



Open hydraulic transport locks



Swing the wing sections out



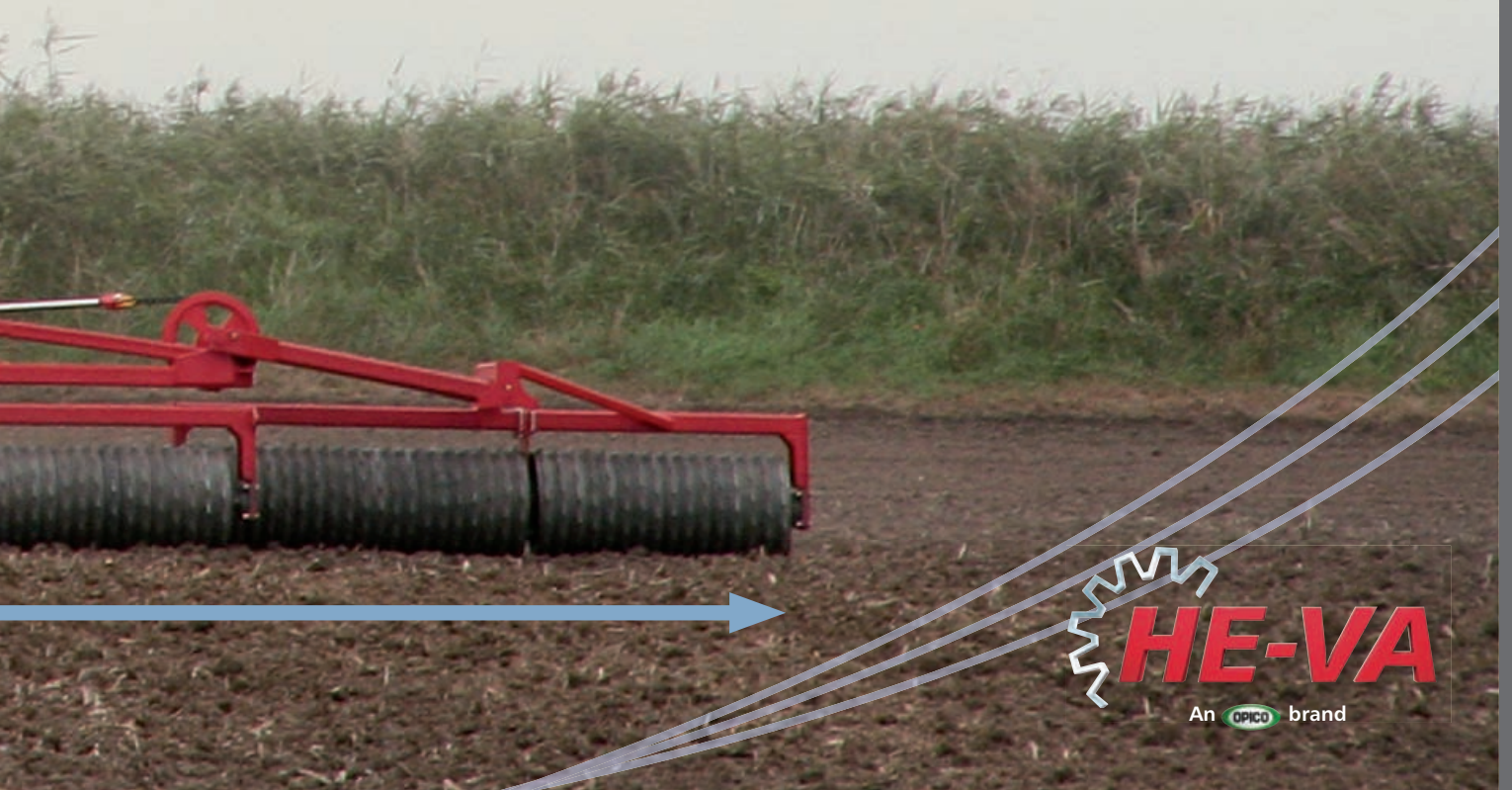
Wheel ram cylinder engaged – wheels lifted forward and up



Outside wing cylinders extending



The HE-VA Rolls are ready to work





## TECHNICAL SPECIFICATIONS

Ring Type		Cambridge only (Standard)		Cambridge & Breaker (Standard)		Cambridge only (Aggressive)		Cambridge & Breaker (Aggressive)		Crosskill	Crosskill
Width	Ring Size	500mm	600mm	510mm	620mm	500mm	600mm	510mm	620mm	485/530mm	550/600mm
Working 4.5m Transport 2.22m	Weight Kg Rings Axle (mm)	1860 57 60	2220 97 60	2040 87 60	2630 87 60	1705 57 60	2065 57 60	1915 87 60	2375 87 60	1905 45 60	2455 45 60
Working 5.4m Transport 2.22m	Weight Kg Rings Axle (mm)	2300 69 60	2730 69 60	2510 105 60	3220 105 60	2115 69 60	2545 69 60	2360 105 60	2915 105 60	2350 54 60	3010 54 60
Working 6.3m Transport 2.46m	Weight Kg Rings Axle (mm)	2640 78 60	3360 78 60	2930 123 60	*3610 123 60	2420 78 60	3140 78 60	2755 123 60	3250 123 60	2746 63 60	3490 63 60
<i>Wheels 10.0 / 75 x 15.3 - 10 ply</i>						<i>*Wheels 11.5 / 80 x 15.3 - 10 ply</i>					
Working 7.3m Transport 2.46m	Weight Kg Rings Axle (mm)	3370 90 60	3810 90 60	3555 143 60	4280 143 60	3115 90 60	3555 90 60	3350 143 60	3865 143 60	3360 73 60	4380 73 60
Working 8.2m Transport 2.46m	Weight Kg Rings Axle (mm)	3840 102 60	4350 102 60	3860 157 60	4280 157 60	3555 102 60	4065 102 60	3630 157 60	3815 157 60	3880 81 60	4900 81 60
<i>Wheels 11.5 / 80 x 15.3 - 10 ply</i>											
Working 9.5m Transport 2.46m	Weight Kg Rings Axle (mm)	4740 118 60	5320 118 60	4685 184 60	5730 184 60	4410 118 60	4990 118 60	4420 184 60	5190 184 60	4820 95 60	6020 95 60
Working 10.2m Transport 2.46m	Weight Kg Rings Axle (mm)	5020 126 60	5650 126 60	4935 192 60	6035 192 60	4665 126 60	5295 126 60	4650 192 60	5455 192 60	5120 101 60	6390 101 60
<i>Wheels 400 / 60 x 15.5 - 14 ply</i>											
Working 12.2m Transport 2.7m	Weight Kg Rings Axle (mm)	5460 125 60	N/A N/A N/A	6070 235 60	N/A N/A N/A	5035 125 60	N/A N/A N/A	5730 235 60	N/A N/A N/A	5300 125 60	N/A N/A N/A
<i>Wheels 400 / 60 x 15.5 - 14 ply</i>											
Working 12.3m Transport 3m	Weight Kg Rings Axle (mm)	7690 150 60	8470 150 60	8270 236 60	9710 236 60	7260 150 60	8040 150 60	7925 236 60	9010 236 60	7870 125 60	9445 125 60
Working 15.3m Transport 3m	Weight Kg Rings Axle (mm)	9050 187 60	10000 187 60	9730 292 60	11490 292 60	8515 187 60	9465 187 60	9305 292 60	10620 292 60	9240 153 60	11170 153 60
<i>Wheels 500 / 50 x 17 - 18 ply</i>											
Working 16.3m Transport 3m	Weight Kg Rings Axle (mm)	9560 199 60	10600 199 60	10400 306 60	12240 306 60	8990 199 60	10030 199 60	9945 306 60	11310 306 60	9800 163 60	11890 163 60
Working 18.3m Transport 3m	Weight Kg Rings Axle (mm)	TBA 223 60	TBA 223 60	TBA 346 60	TBA 346 60	TBA 223 60	TBA 223 60	TBA 346 60	TBA 346 60	TBA 183 60	TBA 183 60
<i>Wheels 560 / 45 R 22.5 - 153E</i>											

### Specifications - Shattaboard and Slicing Boards

Width	No. of Tines	SHATTA BOARD WEIGHT kgs	
		with lock	without lock
4.5m	18	425	370
5.4m	22	504	440
6.3m	24	664	590
7.3m	28	716	630
8.2m	32	907	810
9.5m	38	992	880
10.2m	40	1065	945



Cherry Holt Road, Bourne, Lincolnshire PE10 9LA  
**Tel: 01778 421111 Fax: 01778 425080**  
**Email: ask@opico.co.uk**  
**Web: www.he-va.co.uk**

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