

Force down your costs

- Reduced Establishment Costs • Lower Seedrates • Better Rooting

TILL-SEEDING

Subsoiler Till-Seeding O.S.R. improves root growth and gives Oilseed rape the foundations it needs to maximise yield.

Modified seeder outlets allow the OPICO Variocast Seeder to be used to band sow in 150-250mm wide rows directly in line with the Subsoiler legs. The loosened ground promotes better taproot growth enabling the plant to assimilate more nutrients throughout its life.



OPICO Variocast Seeder and HE-VA Subsoiler.



Oilseed rape drilled with the Variocast and Subsoiler.

Subsoilers Specifications

Working Width (m)	Transport Width(m)	No of Legs	Protection	Min Hp	Weight Kgs	
					c/w V-Profile	c/w Sq. Tube Roller
2.5	2.5	2	Shearbolt	60-80	1415	900
2.5	2.5	2	Hyd Reset	60-80	1485	970
2.5	2.5	3	Shearbolt	90-120	1500	985
2.5	2.5	3	Hyd Reset	90-120	1605	1090
3	3	2	Shearbolt	60-80	1595	975
3	3	2	Hyd Reset	60-80	1665	1050
3	3	3	Shearbolt	90-120	1680	1060
3	3	3	Hyd Reset	90-120	1785	1170
3	3	5	Shearbolt	150-200	1850	1230
3	3	5	Hyd Reset	150-200	2025	1410
3.5	3.5	5	Shearbolt	150-200	2030	1310
3.5	3.5	5	Hyd Reset	150-200	2210	1490
3.5	3.5	7	Shearbolt	210-280	1480	2200
3.5	3.5	7	Hyd Reset	210-280	1720	2440
4	4	7	Shearbolt	210-280	2380	1560
4	4	7	Hyd Reset	210-280	2620	1640
4	2.43	7	Shearbolt	210-280	2730	1910
4	2.43	7	Hyd Reset	210-280	2970	1990
5	2.43	7	Shearbolt	210-280	3090	2070
5	2.43	7	Hyd Reset	210-280	3450	2150
5	2.43	9	Shearbolt	270-360	3260	2240
5	2.43	9	Hyd Reset	270-360	3690	2390

Combi-Lift Specifications

Working Width	Transport Width	No of Legs	Protection	Min Hp	Weight Kgs	Options Available
3	3	6	Shearbolt	100-150	820	• Lights
3	3	6	Hyd Reset	100-150	1160	Subsoiler only
4	4	8	Shearbolt	130-200	N/A	• 350mm wing point in lieu of standard 200mm
4	4	8	Hyd Reset	130-200	N/A	• Additional tine assemblies
4	2.45	8	Shearbolt	130-200	N/A	• Variocast mounting Kit
4	2.45	8	Hyd Reset	130-200	N/A	
5	2.45	10	Shearbolt	160-250	N/A	Combi-Lift only
5	2.45	10	Hyd Reset	160-250	N/A	• Bolt on Draw Hook

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

YOUR LOCAL HE-VA DEALER



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HE-VA Sub-soilers & Combination Soil Looseners



Feel the Force



MM3460 12-05 DESIGNED BY MARKSMAN INTERNATIONAL 9 DUDLEY ST. CRIMSBY, ENGLAND DN31 2AW. TEL: +44 (0)1472 240869 www.marksmann-int.co.uk

The Sub-surface *Force*

Feel the force with the HE-VA Subsoiler - Designed for minimum draft and maximum heave without bringing large unwanted clods to the surface.



HE-VA technology embraces the traditional 'V' formation of legs.

This reduces horsepower requirement and minimises surface disturbance. Only the central leg is fixed, all the others can be moved along the

frame to provide the required spacing to suit the job in hand, this means it can also be set for tramline loosening with some legs removed.

The HE-VA Subsoiler has 6 frame options 2.5m, 3m, 3.5m and 4m Rigid and 4m and 5m Hydraulic Folding with a number of different leg options to create the correct specification for any individual farm.

TOP OF THE RANGE

7 and 9 leg hydraulic folding 4m and 5m models which split fold down to 2.43m for road transport are available for higher horsepower tractors.



'HAMMER THRU' SHEARBOLT

The 'Hammer Thru' shear bolt protects the machine in tough conditions and means minimum down time for the operator. Alternatively there is a hydraulic reset version for extremely stony conditions



Hydraulic depth control is a useful feature making it easy for the operator to alter the working depth - for example, to work the machine deeper up the tramlines or in habitually water logged areas. It also simplifies hitching and unhitching the Subsoiler from the tractor.



HYDRAULIC RESET MODELS

All models are available with hydraulic auto reset for extremely stony conditions. An individual hydraulic ram on each leg which is connected to a gas accumulator allows the leg to break back and reset if it comes into contact with an unmovable object. As the legs on a Subsoiler are adjusted deeper the leverage on the hydraulic reset ram increases and so a pressure gauge is used to allow the operator to set the Force required for the leg to break back.

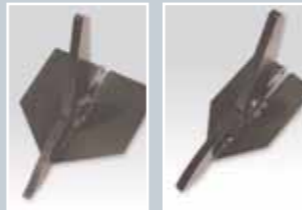
THE LEG DESIGN



Low draft and minimal down time

HE-VA leg design means that the single piece winged hardox point lifts, cracks and fissures at depth without huge power requirement.

The standard point has a 200mm wide wing whilst a wider 350mm wing is available for different applications



Bolt on points using a single bolt are quickly replaced keeping down time to a minimum.

The Combined *Force*

The New 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 new Combi-Lift as a one-pass subsoiling and surface cultivation tool.

Two versions of the Combi-Lift 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.



Optional drawbar to allow trailed machines to be towed behind Combi-Lift



The bolt-on, hardened, points are quick to change and provide lift and cracking of the subsoil to open it up and ensure better plant rooting.

DEPTH ADJUSTMENT

A simple pinned depth adjustment system gives the operator the ability to vary the working depth up to 14" (350mm) and the top link attaching the Combi-Lift to the 3m Disc Roller allows setting and adjustment for the Disc Roller.

The category II linkage on the back of the unit allows it to be quickly coupled on to a Disc Roller or any other 3m 3-point linkage mounted machine. The optional Drawbar allows other implements to be towed behind.



ONE UNIT OR TWO

Just as importantly the Combi-Lift can easily be decoupled and the Disc Roller used on it's own for surface cultivation only on a smaller tractor.



HE-VA
Subsoilers &
Combination Cultivators