

# HE-VA Combi-Tiller



**Force and flexibility ...**



**HE-VA**  
COMBI-TILLER

# Combi-Tiller

- Soil loosening combined with ...

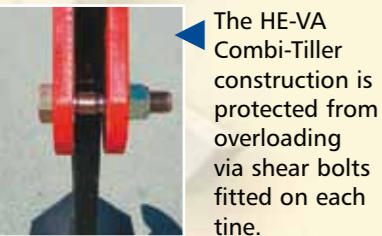


The HE-VA Combi-Tiller is a sub-soiler developed for working solo or combined with a trailed implement. With a total length of merely 750 mm and 160 mm tine staggering, the HE-VA Combi-Tiller is ideal for combination. The HE-VA Combi-Tiller is available with various number of tines for row spacing from 500 mm to 600 mm.

Combi-Tiller mounted in the linkage arms of the tractor for working solo – or combined with a trailed implement.



The quick couplings allow the HE-VA Combi-Tiller to be built together with another three-point mounted implement, for example the HE-VA Disc-Roller.



The HE-VA Combi-Tiller construction is protected from overloading via shear bolts fitted on each tine.



The working depth is adjusted manually in increments of 50 mm by the height position of the tines. This includes a parking position as well where the tines are lifted completely from the ground.

# Combi-Tiller MKII

- the extended version ...

The HE-VA Combi-Tiller MKII lifts the soil to break hard stratum of earth/ plough pan together with an oxidation of the soil - without bringing large unwanted clods to the surface. The 420mm tine staggering and the hydr. automatic release system prepare the HE-VA Combi-Tiller MKII for even the heavy soil types, to the advantage of the professional farmer.

Combi-Tiller MKII built together with the HE-VA Disc-Roller. The depth wheel stabilizes the front corner of the machine (extra equipment on rigid models).



The 4.00 and 5.00 m Combi-Tiller MKII are available with hydr. folding in two sections.

Hydraulic adjustable drawbar with drawing clevis

- this allows the HE-VA Combi-Tiller MKII to work solo, mounted directly in the three-point linkage of the tractor, or to be combined with a trailed implement.



## HYDR. THREE-POINT LINKAGE



Hydr. three-point linkage - is standard equipment on the Combi-Tiller MKII. This linkage allows the Combi-Tiller MKII to be mounted with a trailed implement directly in the three-point linkage Cat. 2/3. The linkage will then act as a hydr. depth adjustment of the Combi-Tiller MKII tines.

A scale on the hydraulic linkage allows the driver to see the exact position of the hydr. linkage.



When combined with a HE-VA Disc-Roller, the tine working depth can be adjusted from 50 mm above the soil surface to a max. depth of 300 mm.



## STONE PROTECTION

The Combi-Tiller MKII is available with two different stone protections:



Hydraulic automatic release system - the machine is protected against overloading by a hydraulic cylinder connected to two large gas accumulating tanks. When the tine is released by a stone, it will reposition itself automatically.

Quick-Push stone protection

- when the shear bolt is cut over if a tine has hit a stone or the like, the R-clip is removed and the shear bolt is easily pushed forward into new position.



## COMBINATIONS FOR HE-VA COMBI-TILLER & COMBI-TILLER MKII

### 1. Soil loosening

- a) Combi-Tiller solo - the soil is loosened but not consolidated.
- b) Combi-Tiller / Disc-Roller (raised discs) - the soil is loosened - the surface is divided into fine particles, leveled and consolidated.

### 2. Stale seedbed / seedbed in ploughed soil

- a) Disc-Roller solo - at high speed, the straw and plant residue is incorporated into a stale seedbed, and the roller consolidates the seed into the soil for rapid germination.
- b) Combi-Tiller / Disc-Roller - with the tines fully raised, this combination creates a stale seedbed as described above. The machine will be heavier, which is a great advantage when cultivating/consolidating newly ploughed or very stony soils.

### 3. Seedbed preparation

- a) Combi-Tiller / Disc-Roller - the tines loosen and oxidize the soil, the discs cultivate the soil at sowing depth, and the roller consolidates the soil again to a well drained and structural seedbed.

### 4. Sowing with the Multi-Seeder

- a) A mounting of the Multi-Seeder allows you to choose between broadcast sowing and row sowing of cover crops/ green manure or rape.
- b) When row sowing rape, a soil loosening by means of the Combi-Tiller tine is the obvious solution. Disc Cultivation of the soil is optional.



## COMBI-TILLER TINE



The HE-VA Combi-Tiller has a working depth down to 300 mm. The tine points have 200 mm wing shares, lifting and loosening the soil in the chosen working depth. The design of the tine avoids bringing stones and unwanted clods to the surface.

The hardened steel cast wearing point is designed for minimum power requirement. It is wide at the bottom with an extra protection around the side of the tine, whereas it is narrow at the top in order to break/cultivate the surface at the minimum. The durable point is mounted with one bolt resulting in an easy and quick replacement.



### Combi-Tiller

### Specifications

Working width	Stone protection	No. of tines	Tine spacing mm	Transport width m	Power requirement HP	Weight kg	Working depth: -50 mm to 300 mm
3.00 m rigid	Shear bolt	5	600	3.00	50-100	365	Tine staggering: 160 mm
		6	500	3.00	60-120	400	Tine height under the frame: 560 - 860 mm
3.50 m rigid	Shear bolt	6	583	3.50	60-120	410	Length from coupling point to coupling point (centre): 750 mm
		7	500	3.50	70-140	445	
4.00 m rigid	Shear bolt	7	571	4.00	70-140	455	
		8	500	4.00	80-160	490	

### Combi-Tiller MKII

### Specifications

Working width	Stone protection	No. of tines	Tine spacing mm	Transport width m	Power requirement HP	Weight kg	Working depth: -50 mm to 300 mm
3.00 m rigid	Quick-Push shear bolt	5	550	3.00	50-100		Tine staggering: 420 mm
	Hydr. automatic release system	5	550	3.00	50-100		
3.50 m rigid	Quick-Push shear bolt	6	550	3.50	60-120		Tine height under the frame: 700 mm
	Hydr. automatic release system	6	550	3.50	60-120		
4.00 m rigid	Quick-Push shear bolt	7	550	4.00	70-140		Length from coupling point to coupling point (centre): 1,470 mm
	Hydr. automatic release system	7	550	4.00	70-140		
4.00 m rigid	Quick-Push shear bolt	7	550	2.50	70-140	1580	
	Hydr. automatic release system	7	550	2.50	70-140	1735	
5.00 m hydr	Quick-Push shear bolt	9	530	2.50	90-180	1840	
	Hydr. automatic release system	9	530	2.50	90-180	2035	

## SEEDING OF RAPE AND COVER CROPS/GREEN MANURE



With the Combi-Tiller combined with a Disc-Roller (with Multi-Seeder) you have several possibilities for seeding rape and cover crops/green manure. The Combi-Tiller tines ensure the loose soil needed for the rape plant. The discs of the Disc-Roller can be raised so that only the roller mixes the seed and consolidates the soil – this is particularly used for row sowing. Lowering the discs of the Disc-Roller gives a perfectly cultivated seedbed, and row sowing or broadcast sowing is optional.



N. A. Christensensvej 34  
DK-7900 Nykøbing Mors  
Tel: +45 9772 4288  
Fax: +45 9772 2112

Email: [info@he-va.com](mailto:info@he-va.com)  
Web: [www.he-va.com](http://www.he-va.com)



Importers of Machinery Excellence

50 Methven Highway,  
RD6, Ashburton, 7776  
New Zealand

**P:** 03 307 7445

**M:** 027 782 7606

**E:** [info@euroagri.co.nz](mailto:info@euroagri.co.nz)

**W:** [www.euroagri.co.nz](http://www.euroagri.co.nz)

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