

Interrow Cultivators



Vibro Crop and
Vibro Crop Intelli

Vibro Crop



Save Herbicides use a Vibro Crop

The price of chemicals for the controlling of weeds is very high. This can be reduced by the use of band spraying in combination with an interrow cultivator by almost 50 percent.

The Kongskilde Vibro Crop with the combination of vibrating Stines and rolling shields enables the user to work the maximum area possible between the rows as well as maintaining a high working speed. The Vibro Crop is designed to give absolute accuracy both above and below the working surface. Each individual unit is a separate cultivator with its own depth wheel and parallelogram suspension. This ensures that the shares are always working at the correct depth.

The Kongskilde S-tines are not only cutting the weeds but are also vibrating the weeds free from the surrounding soil, so that they can die on the soil surface. In conjunction with this they are also aerating the soil and improving the drainage without disturbing the soil structure.

For improved accuracy, whilst working minimum depths, a specially designed tine is available.

The Vibro Crop is equipped with stabilizing discs to make the machine self-steering, even on undulating land and around corners.

Row widths up to 55 cm are cultivated with 3 tines on each parallelogram. Distances from 55 cm and above are cultivated with 5 tines.

Stabilizing discs

In conjunction with loose tractor check chains the Vibro Crop is ensured of following the correct course even on undulating and sloping land whilst still maintaining a high working speed.

Parallel guiding

The parallelogram suspension ensures that the shares remain at a constant working depth over an uneven surface. It also absorbs any sideways movement that may be incurred.

Vibrating S-tines

The vibrating patented Stines penetrate precisely to the pre-determined depth. It vibrates to give a shattering effect on the weeds. The weeds are raised to the surface, the soil is shaken from their roots, ensuring they die quickly.

Due to the vibrations the soil is aerated. Warmth and moisture retention is improved.

Two different types of tine are available, the UNIVERSAL-tine and the VCO-tine.

The VCO-tine, standard on the VCO-3, is specially designed to work very precisely at shallow working depths.

The very small but powerful vibrations results in an improved cleaning effect causing minimum soil sideways throw.



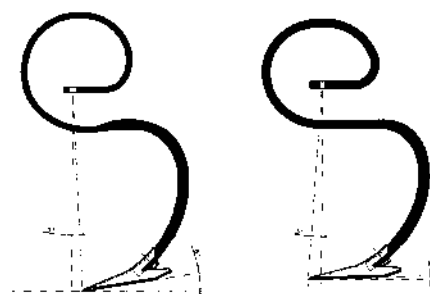
Spring loaded stabilizing disc.



Depth control with spindle.



3-tined row section for row spacings from 45 - 55 cm.



UNIVERSAL-tine.

VCO-tine for vulnerable crops.



Rolling Shields

These protect the leaves and roots of the crop as well as preventing weeds, seeds and untreated soil from being thrown onto the crop rows.

The stepless adjustable shields can be adjusted in width from 7 cm. They are fitted on the parallelogram.

The specially designed shields mini-mise the area in contact with the soil and the quantity of soil thrown onto the crop.

Just by lifting the plantshield it can be automatically locked in raised position.

Independent unit - Independent control

Each individual unit is a separate self-contained cultivator with its own depth control and parallelogram suspension.

The depth control wheel with a diameter of 29 cm and a width of 10 cm makes the section very stable in maintaining the uniform depth. The depth control wheel is adjustable by means of a spindle from 0-7 cm. It is a puncture proof tyre manufactured from rubber and nylon which is earth repellent. This ensures that even in humid conditions soil will not stick to the tyre. The axle has totally sealed bearing units.

Connection brackets

For mounting the Vibro Crop onto the tractor, the machine is equipped with 3 separate moveable connection brackets. Each bracket can be adjusted in the optimal way in relation to tractor make, model and 3 point hitch category (1, 2 or 3).

In order for the Vibro Crop to follow the tractor correctly it is essential that the lower link arm brackets on the machine are adjusted correctly.

If the lines of the lower link arm are extended forward until they meet, this point should be approximately 1/3 of the distance between the tractors' wheel axles.

With this correct setting the Kongs-kilde Vibro Crop works accurately and precisely, even at high working speeds

Hydraulic folding machines

Machines wider than 3 meter can all be equipped with a special folding beam. Folding and unfolding is achieved with 2 double acting cylinders, which are activated from the tractor.

Adjustable row width

To alter the spacing between the individual units is very straight forward. Adjustments in row spacing is done by one single bolt on each unit.



Independent moveable connection brackets.



Patented system for locking/unlocking.



5-tined row section for row spacings from 55 - 80 cm.

Technical Data

Standard

Vibro Crop (3-tines)	Vibro Crop (5-tines)
• Heavy duty parallelogram • Spindle depth adjustment • Wheel 4"x12" • 3 punch ball VCO-tines • Adjustable rolling shield • Stabilizing disc • Adjustable 3-point hitch • 3 x 13,5 cm share	• Heavy duty parallelogram • Spindle depth adjustment • Wheel 4"x12" • 5 punch ball UNIVERSAL-tines • Adjustable rolling shield • Stabilizing disc • Adjustable 3-point hitch • 5 x 13,5 cm share

Rows widths 45-55 cm (3 tines)

Model	Number of rows	Frame width cm	Transport width cm	Type of folding	Number of tines	Number of discs	Weight kg
VCO-3-430	4	300	300	-	13	1	410
VCO-3-530	5	300	300	-	16	1	465
VCO-3-630	6	300	300	-	19	1	555
VCO-3-637	6	370	370	-	19	1	570
VCO-3-737	7	370	370	-	22	1	600
VCO-3-747	7	470	470	-	22	2	645
VCO-3-847	8	470	470	-	25	2	700
VCOF-3- 637	6	370	290	hydr.	19	2	645
VCOF-3- 737	7	370	290	hydr.	22	2	705
VCOF-3- 747	7	470	290	hydr.	22	2	720
VCOF-3- 847	8	470	290	hydr.	25	2	780
VCOF-3- 947	9	470	290	hydr.	28	2	840
VCOF-3- 967	9	670	290	hydr.	28	2	870
VCOF-3-1067	10	679	290	hydr.	31	2	925
VCOF-3-1167	11	670	290	hydr.	34	2	985
VCOF-3-1267	12	670	290	hydr.	37	2	1045

Row widths 55-80 cm (5 tines)

Model	Number of rows	Frame width cm	Transport width cm	Type of folding	Number of tines	Number of discs	Weight kg
VCO-5-430	4	300	300	-	21	1	455
VCO-5-437	4	370	370	-	21	1	470
VCO-5-537	5	370	370	-	26	1	540
VCO-5-547	5	470	470	-	26	2	585
VCO-5-647	6	470	470	-	31	2	655
VCOF-5-437	4	370	290	hydr.	21	1	545
VCOF-5-537	5	370	290	hydr.	26	1	615
VCOF-5-547	5	470	290	hydr.	26	2	660
VCOF-5-647	6	470	290	hydr.	31	2	730
VCOF-5-867	8	670	290	hydr.	41	2	-

Vibro Crop Intelli

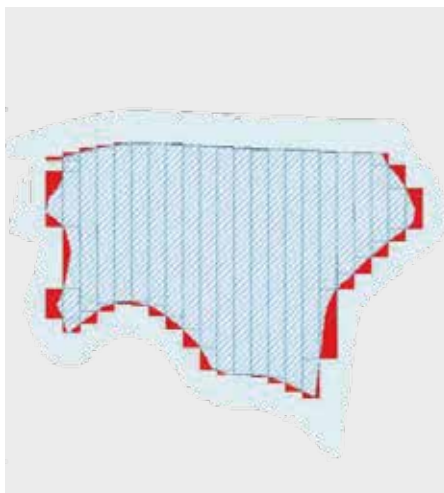


With the new Vibro Crop Intelli series Kongskilde offers a range of row crop cultivators with new intelligent solutions for the farmers, providing increased capacity, precision, and user-friendliness. All these elements improve the profitability and efficiency of mechanical row crop cleaning.

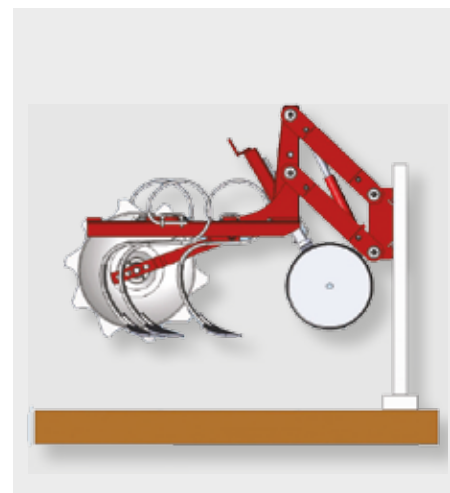
Section Control

Via a GPS terminal the automatic section control can individually raise and lower the tine sections when the cultivator approaches the headland or irregular-shaped areas of the field. This means that the field can be 100% cleaned.

- No crop damage in headlands
- Possible to save the last herbicide spraying
- Utilise existing GPS investment for auto-steering
- Great advantage in irregular-shaped fields
- Possible to raise each individual section manually
- Reduced transport width with the sections in raised position



GPS section control ensures 100% cleaning of the field without damaging the crop.



New cleaning sections ensure 25 cm ground clearance in raised position.

Camera Steering

A stereo camera mounted on the row crop cultivator identifies the green plants in the rows, ensuring that the cultivator constantly follows the individual rows.

- The cultivator is mounted in a hydraulic side-shift frame attached to the tractor
- The cultivator is adjusted to follow the row and therefore works independently of the tractor's position in the rows
- Accuracy down to +/- 2.5 cm
- Working speed can be increased
- Cleaning shares can be adjusted to work very close to the plant rows
- Automatic steering reduces operator fatigue
- Stabilizing discs ensure 100% transfer of the side shift to the machine



Camera steering allows higher speed, thus increased capacity.



The height and angle of the stereo camera can be adjusted depending on the actual growth stage of the crop.



VCO-I with section control - outer section to the left is raised

Large Working Width

A new frame construction with double folding system enables working widths up to 9.0 m, whilst at the same time maintaining a compact and easy-to-transport design.

- Large cleaning capacity
- Integrated side-shift frame gives a compact machine with the gravity point close to the tractor
- 9.0 m version can be used for 6.0 m working width by folding the outer side wings
- Simple folding mechanism ensures a transport width of 3.0 m
- Automatic transport lock for safe road transport
- Heavy-duty support legs for safe parking in folded position
- 2 stabilizing discs ensure a 100% transfer of the side shift to the cultivator
- Large rubber support wheels ensure in-field frame stability

FS Seeder

Compact pneumatic seeding unit for sowing intermediate crops in e.g. maize simultaneously with the final cultivation pass.

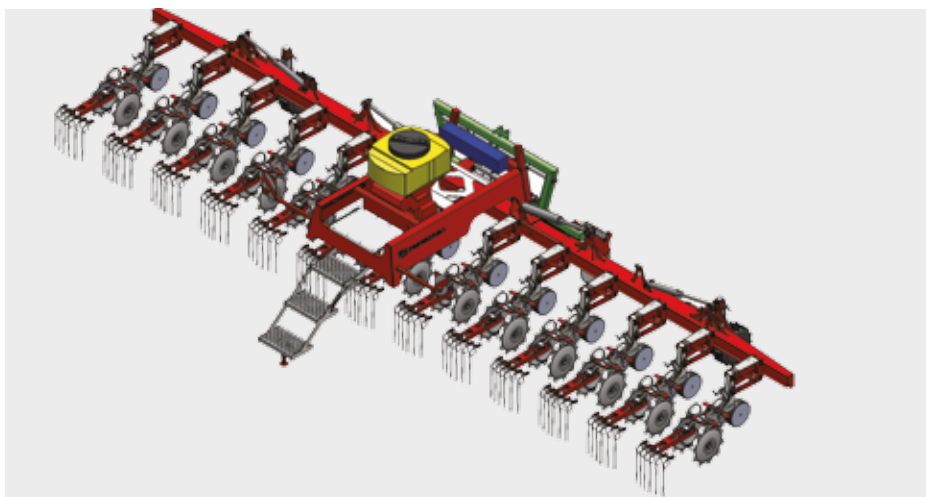
- Electric and highly accurate mechanical feeding
- Adjustable spreader plates mounted in front of the rear harrow tines
- Incorporation of the seeds for a fast germination
- Application rate based on either fixed speed or forward speed
- Steps and platform with handrails for easy and safe access to the hopper
- Simple design with gravity point close to the tractor
- Simple and easy calibration of the seeding system



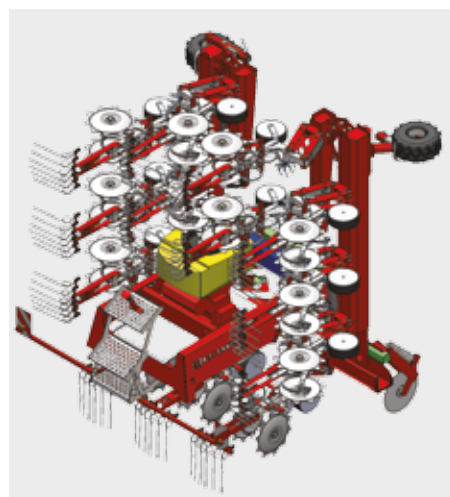
Compact design and easy operation of FS Seeder.



Intermediate crops established together with the final cleaning pass.



9.0 m frame construction with a hydraulic side-shift frame ensures high capacity in season.



Wide boom can be folded to a transport width of only 3.0 m.



Simple and sturdy rear harrow protecting FS Seeder spreader plates.



Cleaning sections with genuine Kongskilde tines and shares and rotating plant protection shields for optimum cleaning.

Cleaning Sections

New reinforced cleaning sections provide reliable strength during work and road transport and optimise the use of the section control and FS Seeder.

- New hydraulic side-shift frame provides 25 cm ground clearance when the sections are raised in the field
- Section control can be retro fitted
- New reinforced beam attachment bracket
- Minimal plant damage and no dragging of plant residues due to rotating plant protection shields
- Genuine Kongskilde Vibro S / VCO tines and shares for optimum weed cut.
- Newly developed rear harrow levels the soil, leaving weeds to dry out on the surface
- Large rubber depth wheels, depth control easily changed via spindle adjustment

Technical Data

Standard	Optional
- Hydraulic side-shift frame - Vision camera with tractor terminal and sensors - Tractor pattern support wheels - Steering disc(s) - VCO-I cleaning sections with Kongskilde Vibro-S / VCO tines and plant protection shields - Hydraulic folding	- Section control (hydraulics + electronics) - FS Seeder (120/200/300 litre) with steps and platform - Rear harrow (necessary with FS Seeder) - Xenon lights to assist camera in low light or dark conditions - Light kit

Model	Number of rows	Row width cm	Beam width m	Transport width m	Tine type	Number of tines	Steering disc	Camera steering	GPS section control	FS Seeder	Rear harrow	Weight kg *
VCOF 8 - 75	8	75	6,7	2,5	Vibro-S	41	1	Standard	Optional	Optional	Optional	1350
VCOF 12 - 50	12	50	6,7	2,5	VCO	37	1	Standard	Optional	-	Optional	1572
VCOF 12 - 75	12	75	9,9	3,0	Vibro-S	61	2	Standard	Optional	Optional	Optional	2264
VCOF 18 - 50	18	50	9,9	3,0	VCO	55	2	Standard	Optional	-	Optional	2600

* With rear harrow, without FS Seeder.

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