

Weed Control Technology INDIVIDUAL-LINE



space to grow



member of the LEMKEN group

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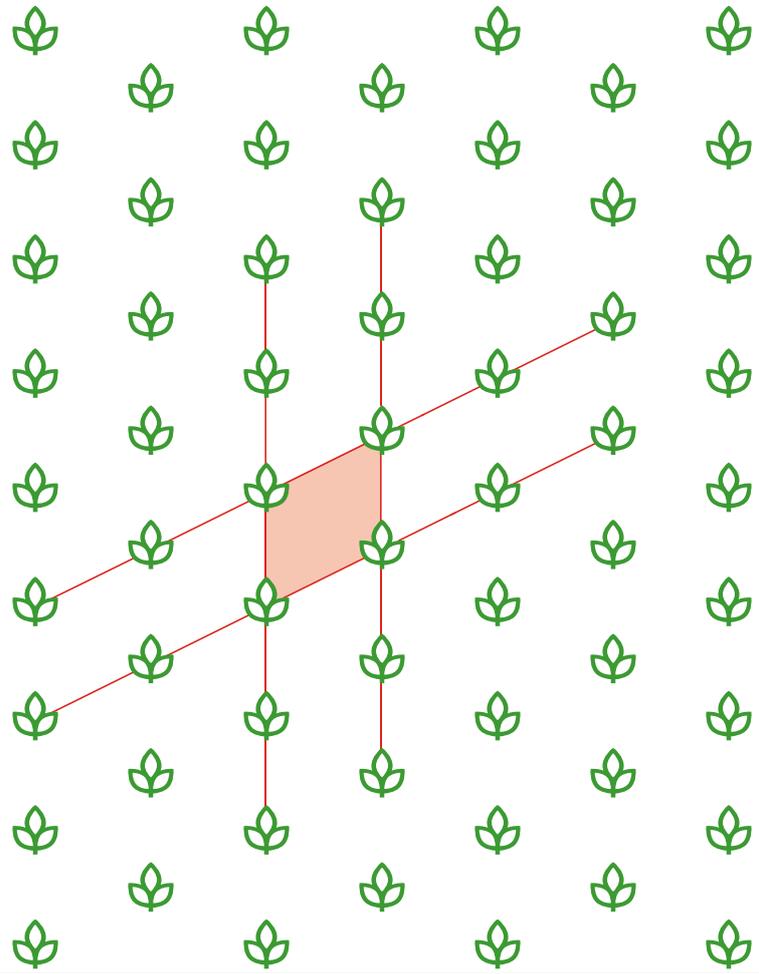


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Tomorrow's agriculture means balancing natural resources and human needs. We create **"space to grow"** – for crops, for farmers, for contractors and for our employees.

To do this, we offer you easy-to-operate, smart technologies, naturally enhanced by optimal service and support both before and after purchase! The Individual-Line boasts tailor-made solutions for the particular demands and needs of your crops – from conventional row crops through to highly specialised vegetable crops.

Our vision





LIMITED TIME WINDOW



HIGH WEED DENSITY



**HIGHLY VARIABLE
SOIL CONDITIONS**



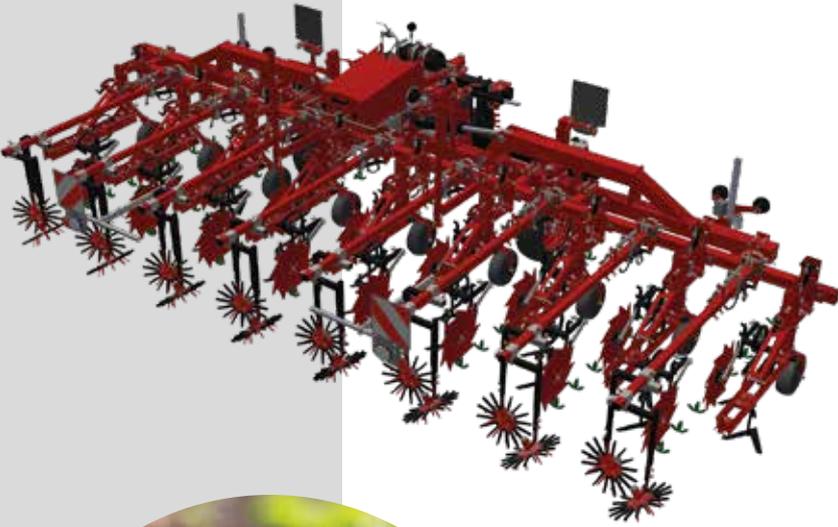
MANY STONES

Challenges accepted

Hoeing work presents many challenges. It's good to know you have a partner whose technology you can rely on. Because Steketee is guaranteed to deliver the right solution for you!

Each machine is unique

And optimally adapted to your needs. That's what we take the time for – from personal, customised, on-site consultation , all the way to your machine working in the field. That's how we build quality made to measure!



DIVERSE REQUIREMENTS OF DIFFERENT CROPS

- 1 Evaluation of your requirements
- 2 Individual development and production of your hoeing machine
- 3 Delivery of your unique machine
- 4 First use supported by professionally trained technicians
- 5 Reliable after-sales support by our experienced sales partners



EC-Weeder

CUSTOMISABLE HOEING MACHINE

The right hoeing machine for your row crops? Easily solved with the EC-Weeder. You have a choice between numerous inter-row and intra-row tool options to match your local soil conditions. Hydraulically operated parallelogram elements allow section control and flexible adaptation to changing soil conditions. The EC-Weeder is optionally available with the IC-Light camera control for even greater precision and fatigue-free work.

- 🌿 Individually customisable row spacing from 15 to 150 cm
- 🌿 Individually customisable working widths up to 17 m / transport width > 3 m
- 🌿 Profile toolbar for flexible row widths
- 🌿 Numerous tool options
- 🌿 Optional: hydraulically operated parallelogram elements
- 🌿 Optional: IC-Light camera control
- 🌿 Optional: infinitely variable manual EC-Space tool adaptation for different row spacings and growth stages





Steketee is a good company that is backed by LEMKEN as its partner. They have my full confidence!

Jelle Jukema, farmer, Sexbierum, Netherlands



Jelle shares his experiences:

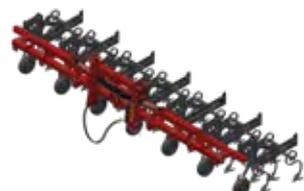


SERIES

The number indicates the strength of the base frame. The higher the number, the stronger the frame. The V stands for the integrated parallel steering frame.



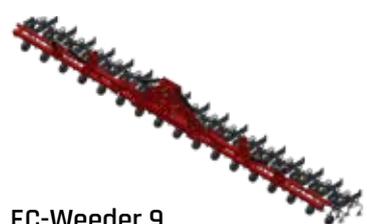
EC-Weeder 5
80 x 80 mm profile toolbar



EC-Weeder 7
100 x 100 mm box section frame



EC-Weeder 8
120 x 120 mm box section frame



EC-Weeder 9
120 x 120 mm box section frame



EC-Weeder 5 V
80 x 80 mm profile toolbar
+ parallel steering frame
+ various controls
(joystick, pushbutton, camera)



EC-Weeder 7 V
100 x 100 mm box section frame
+ parallel steering frame
+ various controls
(joystick, pushbutton, camera)



EC-Weeder 8 V
120 x 120 mm box section frame
+ parallel steering frame
+ various controls
(joystick, pushbutton, camera)



EC-Weeder 9 V
120 x 120 mm box section frame
+ parallel steering frame
+ various controls
(joystick, pushbutton, camera)

EC-Weeder

FRAMES AND ELEMENTS



BASE FRAME

Depending on the working width, the base frame is rigid or folding and designed with the requisite strength. The base frame has the profile toolbar with the parallelogram elements attached to it. The V series features a parallel steering frame in front.



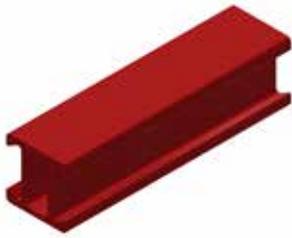
PARALLEL STEERING FRAME

The parallel steering frame has a swivel range of up to 20 cm to the right and 20 cm to the left. When the EC-Weeder is raised, the hoeing machine is automatically centred behind the tractor. The support wheels allow the machine to be operated with open lower link stabilisers, which prevents the transfer of movement between the tractor and steering frame. Two or four support wheels in two different versions are optionally available for the parallel steering frame.



Watch the benefits of a parallel steering frame compared to a linear frame in this video:





PROFILE TOOLBAR

For flexible row widths: The elements are clamped to an 80 × 80 mm profile toolbar via robust connections and can be easily adjusted. This allows for a range of row widths. The components can be attached both at the front and at the rear of the profile toolbar. As a result, components such as support wheels or finger hoes can be flexibly attached.



SUPPORT WHEEL WITH STEEL WHEEL FLANGE

- ✦ Wheel flange for improved directional stability when traversing slopes
- ✦ Height adjustment via a perforated grid



RUBBER SUPPORT WHEEL

- ✦ Large wheel diameter for optimal load-bearing capacity
- ✦ Height adjustment via a perforated grid
- ✦ Gentle to crops



EC-Weeder

FRAMES AND ELEMENTS



BASIC ELEMENT - THE COMPACT OPTION

For light soils and smaller crops with row spacings of 15 to 50 cm. A tension spring maintains the requisite ground pressure to keep the tools working at the correct working depth. The depth control wheel allows the working depth of the tools to be infinitely adjusted. The underframe clearance is an optional 50, 60 or 70 cm.

COMBI ELEMENT - THE ALL-ROUNDER

Suitable for medium and heavy soils with row spacings of 20 to 80 cm. Features a maintenance-free parallelogram supported by a ball bearing. Hydraulic lifting or pressurisation are optionally available to support both manual and GPS-controlled section control via ISOBUS and improve penetration into hard and muddy soils. The system is controlled via the IC-Light-Terminal or any ISOBUS terminal. The Combi element is available in a short version with a holding element for up to three blades and in a long version with up to five blades. The depth control wheel allows the working depth of the tools to be infinitely adjusted using a scale. The underframe clearance is 70 cm.



EC-SPACE - PRECISION HOEING MADE EASY

EC-Space, our toolless option for adjusting hoe blades for the Combi element, makes it quick and easy to adapt hoeing tools to the size of your individual crop. This means that time-consuming adjustments to hoeing tools are a thing of the past.

EC-Space_{Manual} allows tools to be infinitely adjusted manually via a screw, which is operated via a manual crank to move the blade holder. The adjusted distance can be easily read from the integrated scale and transferred onto the remaining elements. EC-Space is particularly economical for businesses with very heterogeneous fields or in situations where there are frequent changes between fields sowed or planted at different times.



TRS ELEMENT - THE HEAVYWEIGHT

Particularly suitable for heavy soils and high loads with row spacings of 50 to 100 cm. The underframe clearance is 70 cm, and the depth adjustment is made via a screw. The TRS element is particularly robust and can have up to five hoeing tools attached via the tool holder.

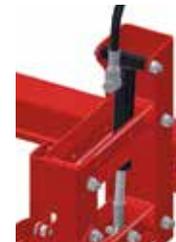




HYDRAULIC LIFTING AND LOWERING

OPTIMISES THE TURNING PROCESS AND MINIMISES HOEING LOSSES FOR BETTER CROP OUTCOMES AND GREATER USER-FRIENDLINESS.

- ✦ The hydraulic lifting process is operated manually via the Steketee IC-Light terminal or automatically based on GPS and the Section Control application, controlled via an ISOBUS-certified terminal.
- ✦ The pressure of the hydraulic element is adjusted either via a double-acting spool valve or, in combination with the lifting function, via the Steketee IC-Light terminal or optional ISOBUS terminal. The pressure can be manually adjusted between 0 and 50 kg or controlled via an automatic system.



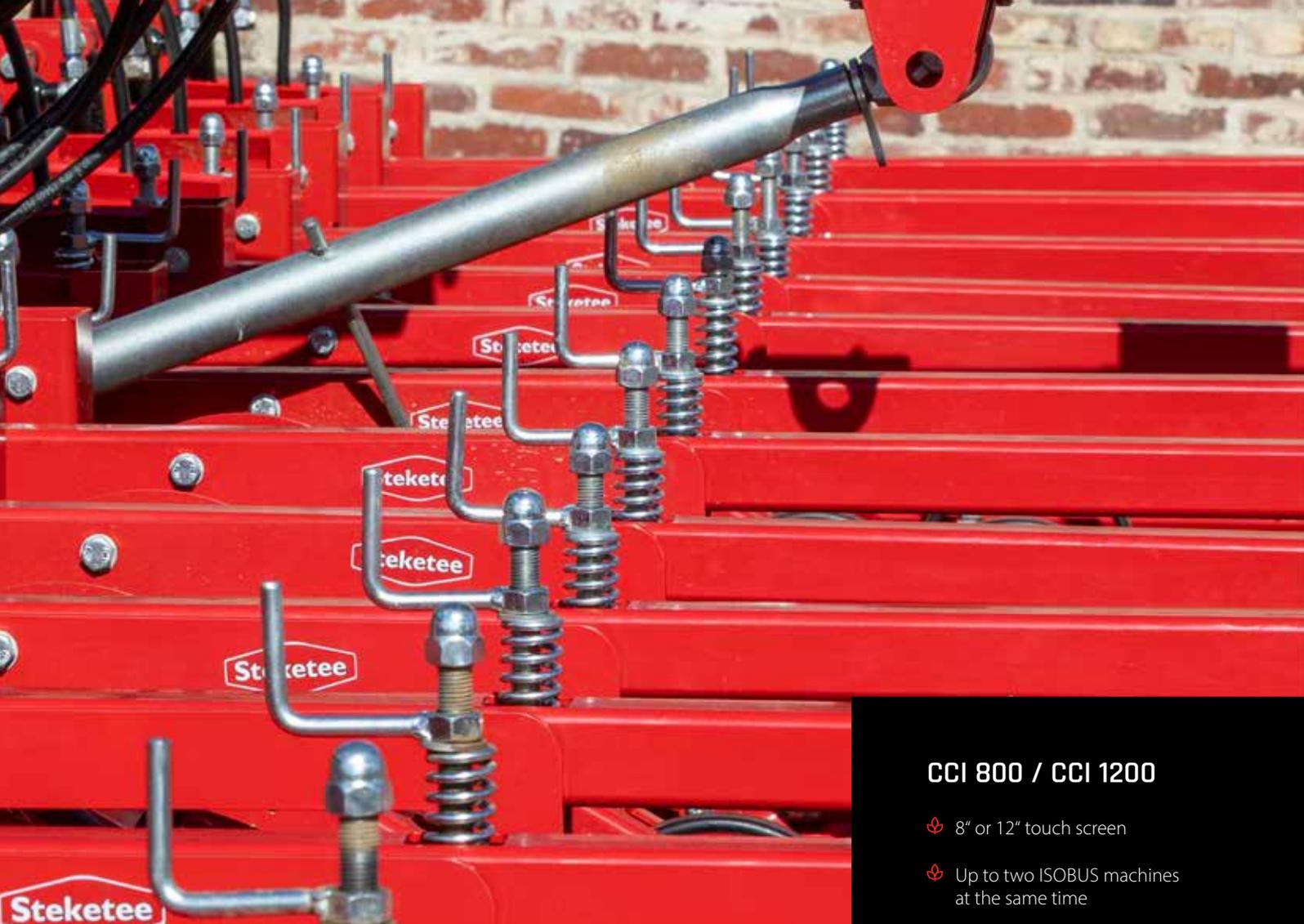
Hydraulic pressure adjustment via a double acting spool valve



Hydraulic lifting via LS or oil circulation control



Hydraulic lifting and pressurisation via LS or oil circulation control



CCI 800 / CCI 1200

- 🍀 8" or 12" touch screen
- 🍀 Up to two ISOBUS machines at the same time
- 🍀 MaxiView function or split screen
- 🍀 Automatic Section Control of elements via ISOBUS in combination with a GPS receiver and CCI Command SC



STEKETEE IC-LIGHT TERMINAL

- 🍀 Manual lifting and pressure control of elements
- 🍀 Ability to raise / lower elements from the left, from the right or from a previously selected element (e.g. section 4)
- 🍀 Up to 26 elements



EC-Weeder

TOOLS

HOEING TOOLS

The hoeing tools cut weeds close to the surface, pull them out or bury them. Various hoeing tools are available for different soil conditions.



DUCK-FOOT SHARE ON SPRING TINE

- 🌿 Robust tool for stony soils, as the spring tine can deflect in the direction of travel and to the sides
- 🌿 Excellent soil penetration
- 🌿 Also suitable for deeper tillage up to 4 cm deep
- 🌿 Vibrating, burying and pulling action



HOE BLADES ON A RIGID MOUNT

- 🌿 Precise tool for soils without stones
- 🌿 Very shallow tillage
- 🌿 Works as close as 2 cm from crop plants
- 🌿 Cutting action



HOE BLADES ON A VIBRO MOUNT

- 🌿 Precise tool, also for stony soils, as the Vibro mount is able to deflect both to the sides and in the direction of travel
- 🌿 Good soil penetration
- 🌿 Shallow tillage
- 🌿 Works as close as 3 cm from crop plants
- 🌿 Vibrating, cutting and burying action



L-BLADES ON A RIGID MOUNT

- 🌿 Precise tool for soils without stones and young, small crop plants
- 🌿 L-blades prevent crop plants being buried
- 🌿 Very shallow tillage
- 🌿 Works as close as 2 cm from crop plants
- 🌿 Cutting action and transfer of weeds towards the centre of the row



L-BLADES ON A VIBRO MOUNT

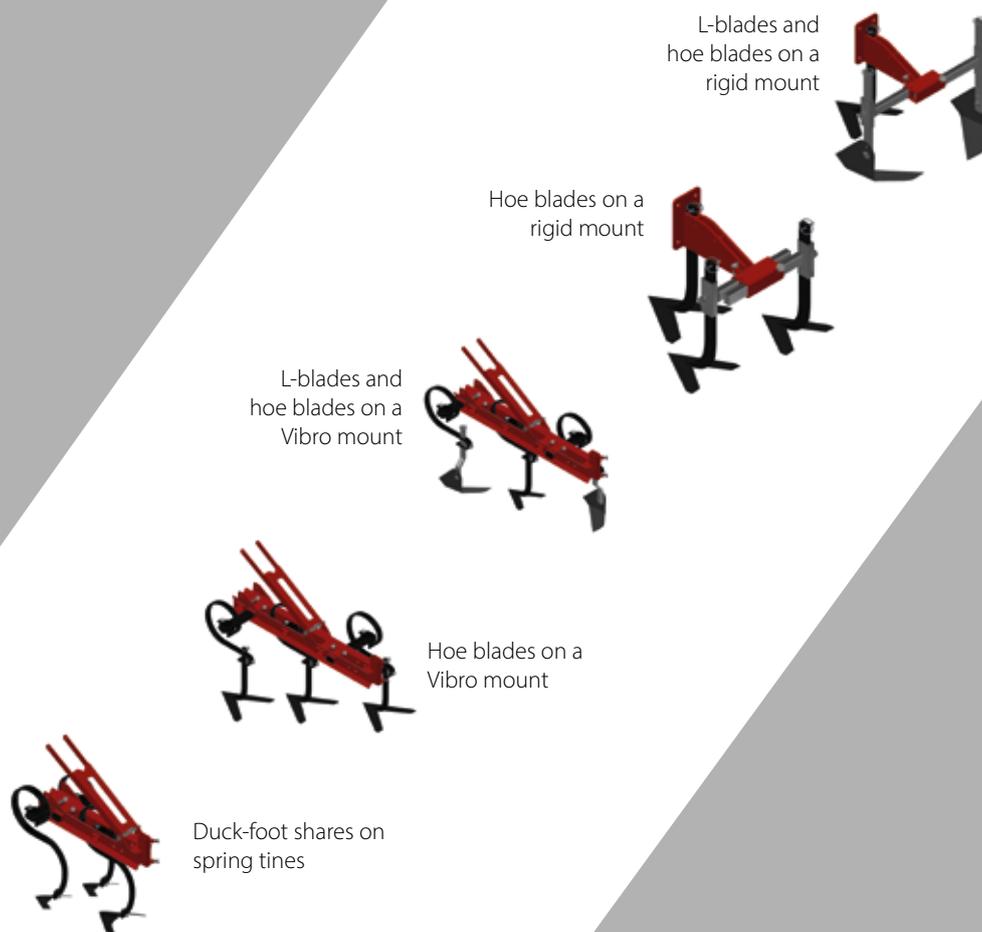
- 🌿 Precise tool, also for young, small crop plants and stony soils, as the Vibro mount is able to deflect both to the sides and in the direction of travel
- 🌿 L-blades prevent crop plants being buried
- 🌿 Good soil penetration
- 🌿 Shallow tillage
- 🌿 Works as close as 2 cm from crop plants
- 🌿 Vibrating, cutting and burying action



DEPENDENCE OF BLADE SELECTION ON SOIL CONDITIONS

HIGH PRECISION

NO STONES



LOW PRECISION

LOTS OF STONES

EC-Weeder

TOOLS

PROTECTIVE TOOLS

Protective tools are mainly used in combination with hoe blades on Vibro mounts and duck-foot shares to protect crop plants against being buried by the hoeing tools.



GEARED PROTECTIVE DISCS

- ✦ Can be used with the Combi element
- ✦ Multiple parking positions for applications when no protection is required
- ✦ Not susceptible to blockages due to self-propulsion
- ✦ 500 mm diameter



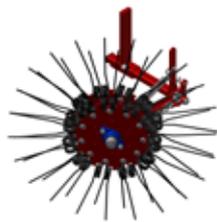
SMALL PROTECTIVE DISCS

- ✦ Can be used with the Basic element
- ✦ Cutting action due to a smooth, bevelled disc shape
- ✦ 305 mm diameter



GUARD PLATES

- ✦ Available for the Basic and Combi element
- ✦ When using several rows of spring tines with duck-foot shares



HARROW

Harrows extract young weeds from the soil and remove soil from extracted weeds to prevent them from becoming established again.

ROTOR WEEDER

- ✦ Can be used with the Combi and the TRS element
- ✦ Uproots or buries weeds in rows between crop plants
- ✦ Allows intra-row cultivation
- ✦ Can also be used in stony and crusted soils and with organic residue after mulch tillage
- ✦ Sweeps weeds out of rows
- ✦ Angle adjustment supports adjustment of the working width / aggressiveness for relieving spring loads

HARROW, 8 AND 12 TINES

- ✦ Can be used with the Basic element from 15 to 50 cm row width
- ✦ Can be used with the Combi element from 15 to 80 cm row width

EC-Weeder

TOOLS

FINGER HOES

Finger hoes remove weeds from within crop rows (intra-row action) by means of rubber fingers, which act between crop plants.

- ✦ Effective shearing off and removal of weeds from rows
- ✦ Also burying effect at high ground speeds
- ✦ Driven via the steel drive sprocket
- ✦ No blockages, as the rubber fingers are mounted underneath the steel sprocket
- ✦ Diameter of 220, 340 or 400 mm, depending on row spacing
- ✦ Pressure is applied and taken off finger hoes via compression springs
- ✦ Finger hoes can be raised when they are not needed
- ✦ Optionally hydraulic lifting via Section Control



FINGER HOE
MANUAL LIFTING

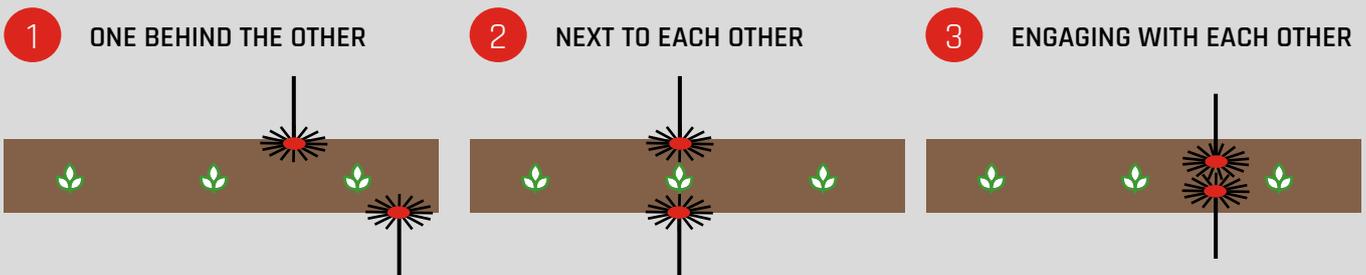


FINGER HOE
HYDRAULIC LIFTING



BRUSH HOE
FOR SENSITIVE CROPS (ONIONS,
LETTUCE)

VARIABLE MOUNTING POSITIONS WITH DIFFERENT LEVELS OF INTENSITY AGAINST WEEDS





RIDGING TOOLS

Ridging tools bury weeds within crop rows (intra-row action).



RIDGING SHARE

- ✦ Can be used with the Combi element
- ✦ For row spacings between 45 and 80 cm
- ✦ Adjustable guide plates



RIDGING BODY

- ✦ Can be used with the Basic and Combi element
- ✦ For row spacings between 35 and 80 cm
- ✦ With share point for an intensive ridging effect
- ✦ Adjustable working width via a turnbuckle



RIDGING PLATE

- ✦ Can be used with the Basic and Combi element
- ✦ For row spacings between 40 and 75 cm
- ✦ Mounted to the duck-foot share

OTHER TOOLS



CRUMBLER ROTOR

- ✦ Can be used with the Basic element
- ✦ Uproots small perennial weeds and breaks up crusted soils



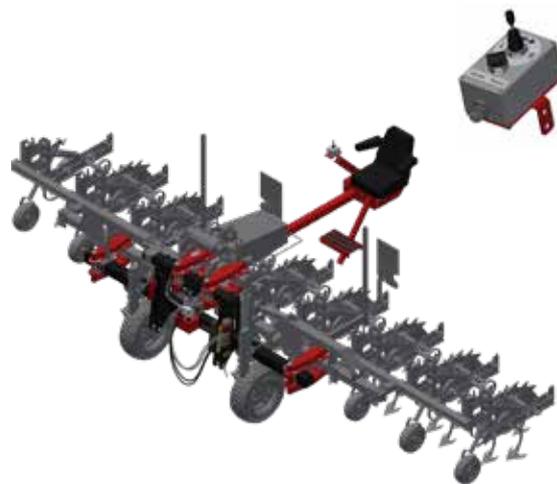
TORSION WEEDER

- ✦ Intra-row tool for sensitive crops
- ✦ Main action by burying small weeds in rows



EC-Weeder

Control options



MANUAL CONTROL VIA A JOYSTICK
FROM THE CAB SEAT



AUTOMATIC CONTROL VIA A ROW SENSOR

- 🌿 Can be used with the Combi element
- 🌿 Precise steering even at late growth stages and with tall crops
- 🌿 Requires strong crop plants



AUTOMATIC CONTROL VIA IC-LIGHT CAMERA (P. 24)



IC-Light

SMART AND PRECISE CAMERA CONTROL

Space for crop plants to grow can be created even more easily by using the IC-Light camera control specially developed by Steketee for the EC-Weeder or EC-Steer. The three key components, i.e. camera, terminal including job computer, and parallel steering frame, allow fatigue-free, precise work even at night. The system precisely controls the steering of the hoeing machine between the rows to minimise damage to crop plants. Data is collected not only from camera images, but also by an angle sensor, speed sensor and lift sensor. This makes the steering particularly precise.

- 🌿 Recognition of hues of green and the RGB colour spectrum
- 🌿 Hoeing as close as 2 cm from crop plants
- 🌿 Ground speeds of up to 15 km/h
- 🌿 Remote maintenance for service directly on the field
- 🌿 LED work lights for night work as standard
- 🌿 Optional second camera for optimal row guidance

CAMERA

- 🌿 Detection of one to five rows of plants
- 🌿 Recognition of hues of green and the RGB colour spectrum
- 🌿 Learning function for recognising the specific colour hue of crop plants in the field
- 🌿 Optimal row guidance even with very deep shadows, as overexposed and underexposed images are offset for higher contrast

PARALLEL STEERING FRAME

- 🌿 Integrated into the EC-Weeder V or separately with EC-Steer; hydraulically transmits steering signals to the hoeing machine
- 🌿 Even, smooth steering movements thanks to parallelogram steering
- 🌿 Hoeing machine swivel range of up to 20 cm to the right and left



We specifically decided on the IC-Light camera system because the support via remote maintenance ensures that we're always reliably operational.

Arndt Gienert, organic farmer from Southern Germany



Arndt shares his experiences:



LED WORK LIGHTS

- Illumination of the camera's field of view for high-precision work at night



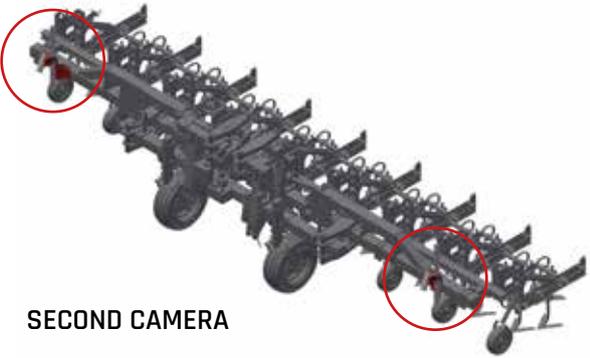
JOYSTICK

- For overriding the camera steering signal from the tractor cab



ROW SENSOR

- Can be used with the Combi element
- Precise steering even at late growth stages and with large crops
- Requires strong crop plants



SECOND CAMERA

- Accurate steering at the headland and in wedge-shaped fields
- Precise hoeing with large working widths
- Accurate steering of the hoe in heterogeneous crops



IC-Light

TERMINAL

Intuitive operation and self-explanatory icons make it a breeze to set up and adjust the IC-Light camera. By switching between live and digital displays, the camera settings can be optimally adapted to individual conditions and optimised. Switching between two cameras is also easily done at the click of a button. And if you do need extra support in the field, a member of our service team is always quickly available for remote maintenance.

-  Combined touch screen terminal and job computer
-  Intuitive operation thanks to self-explanatory icons
-  Remote maintenance for service directly on the field

Live/digital image from the controlling camera

Angle of the crop plant

Manual override

Status display

Forward speed

Quality of the camera image



Find explanations of the functionality and available settings of the IC-Light camera control here:



- Green/RGB mode and learning function
- Main menu
- Settings menu
- Information menu
- Crop plant diameter
- Switch off terminal
- Activation of camera control
- Parallel steering frame animation

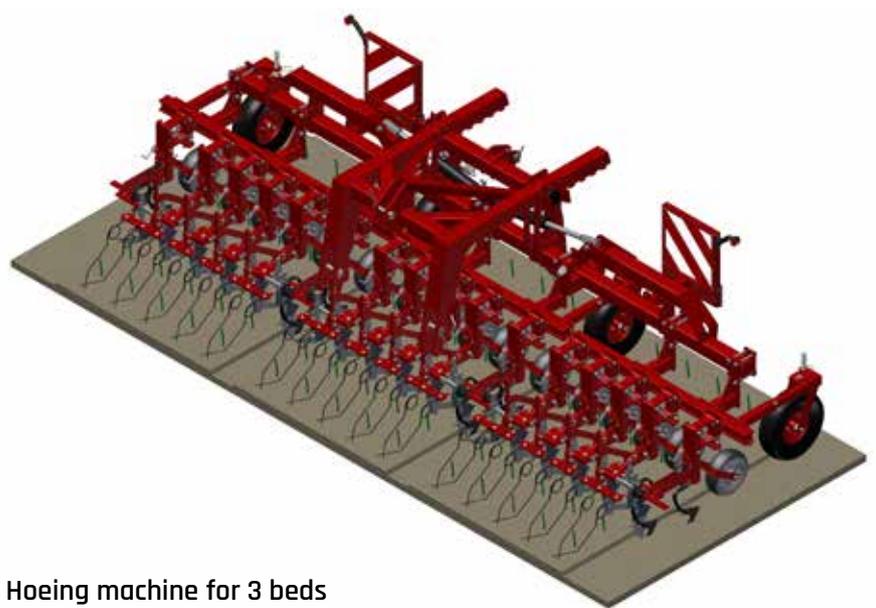


EC-Weeder

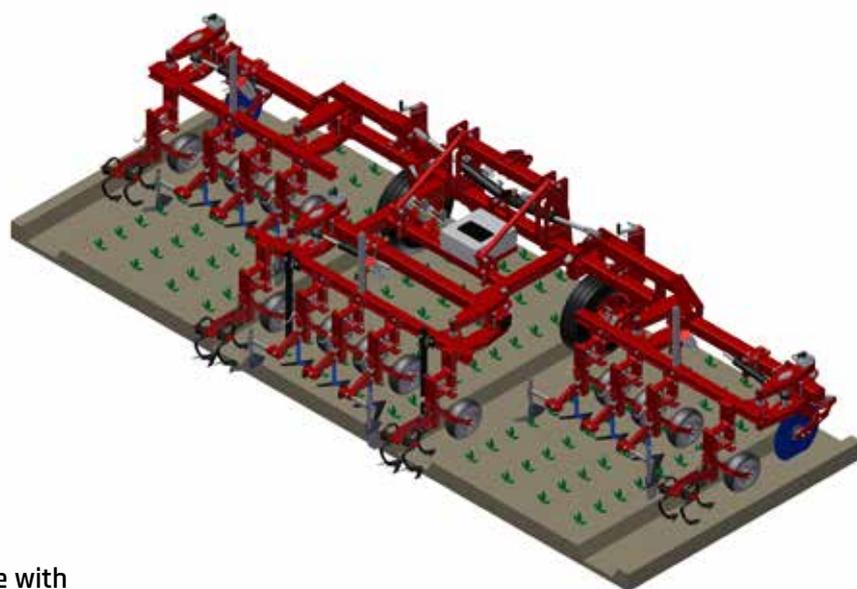
3-BED MACHINE

The 3-bed version of the EC-Weeder is also precisely matched to your crop and cultivation method. A longer element in the track or in the areas next to the beds respectively ensures reliable, full-surface cultivation.

The 3-bed implement is also available with independent control for even greater precision. Each bed is hoed individually thanks to three cameras and three parallel steering frames. This allows beds to be tilled regardless of the planting or seeding method used.



Hoeing machine for 3 beds



Hoeing machine with
3 parallel steering frames and
3 cameras

EC-Weeder

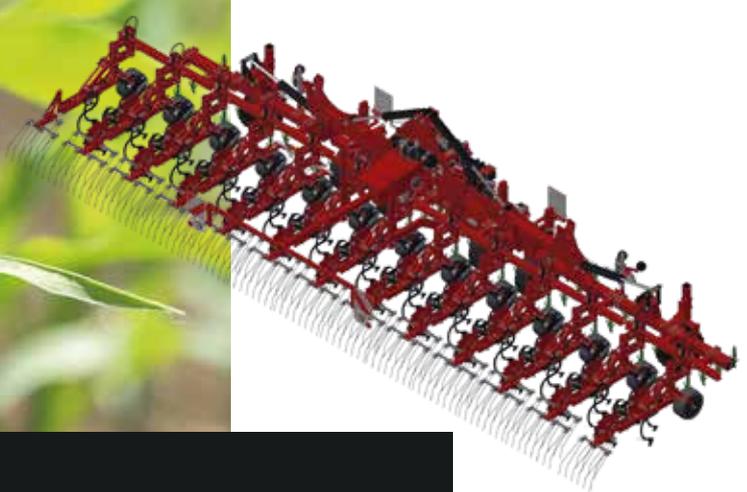
IN USE

GOOD TO KNOW:

Most crop plants are highly sensitive to competing weeds, especially at the early stages of their development. The risk of later yield losses can be minimised by keeping fields weed-free until crops cover the soil. Given that key active substances are no longer available for use, the scope of chemical crop care is becoming more and more limited if weed resistance is to be avoided. Steketee has an optimal mechanical weed control solution for every crop.



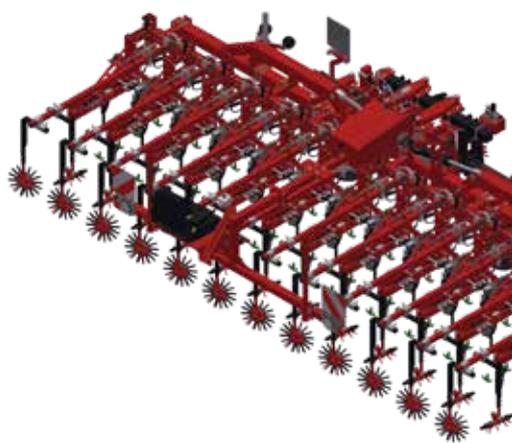
EC-Weeder for maize



Possible EC-Weeder package for maize:

- 🌿 12 rows with 75 cm row spacing
- 🌿 IC-Light camera control with LED work lights for fatigue-free work day or night
- 🌿 Second camera for secure steering at the headland and for heterogeneous crops
- 🌿 Combi elements mounted to the profile toolbar with 370 x 165 mm support wheel for very sandy locations
- 🌿 Row sensor for precise steering even at late growth stages
- 🌿 Hydraulic pressurisation and lifting of the Combi elements for better penetration and less damage to crop plants at the headland
- 🌿 Duck-foot shares on spring tines for intensive tillage even in stony soils
- 🌿 Geared protective discs for preventing crop damage
- 🌿 Trailing harrow for clean removal of soil from weeds
- 🌿 Side-mounted rotating wheels on the main frame for better implement guidance

The EC-Weeder can be customised with tools depending on individual needs and local conditions. IC-Light camera control provides a steering system that is not only precise, but also supports comfortable, stress-free crop care work. So that it's not only your crops that have **space to grow**.



EC-Weeder for sugar beets

Possible EC-Weeder package for sugar beets:

- 🌿 12 rows with 50 cm row spacing
- 🌿 IC-Light camera control with LED work lights for fatigue-free work day or night
- 🌿 Seat with joystick for manual control of the hoeing machine
- 🌿 Second pair of rubber support wheels for better weight distribution with large working widths
- 🌿 Combi elements with the EC-Space tool adjustment mounted to the profile toolbar for flexible row widths
- 🌿 Hydraulic lifting of the Combi elements for less damage to crop plants at the headland
- 🌿 Hoe blades and L-blades on a rigid mount for ultimate precision
- 🌿 Hydraulic lifting of the finger hoes for less damage to crop plants at the headland

EC-Weeder for grains



Possible EC-Weeder package for grains:

- 🌿 24 rows with 25 cm row spacing
- 🌿 IC-Light camera control with LED work lights for fatigue-free work day or night
- 🌿 Basic element mounted to the profile toolbar for flexible row widths
- 🌿 Hoe blades on the Vibro mount provide precise tools even in stony soils and produce a gentle burying effect into rows



EC-Weeder for lettuce



Possible EC-Weeder package for lettuce:

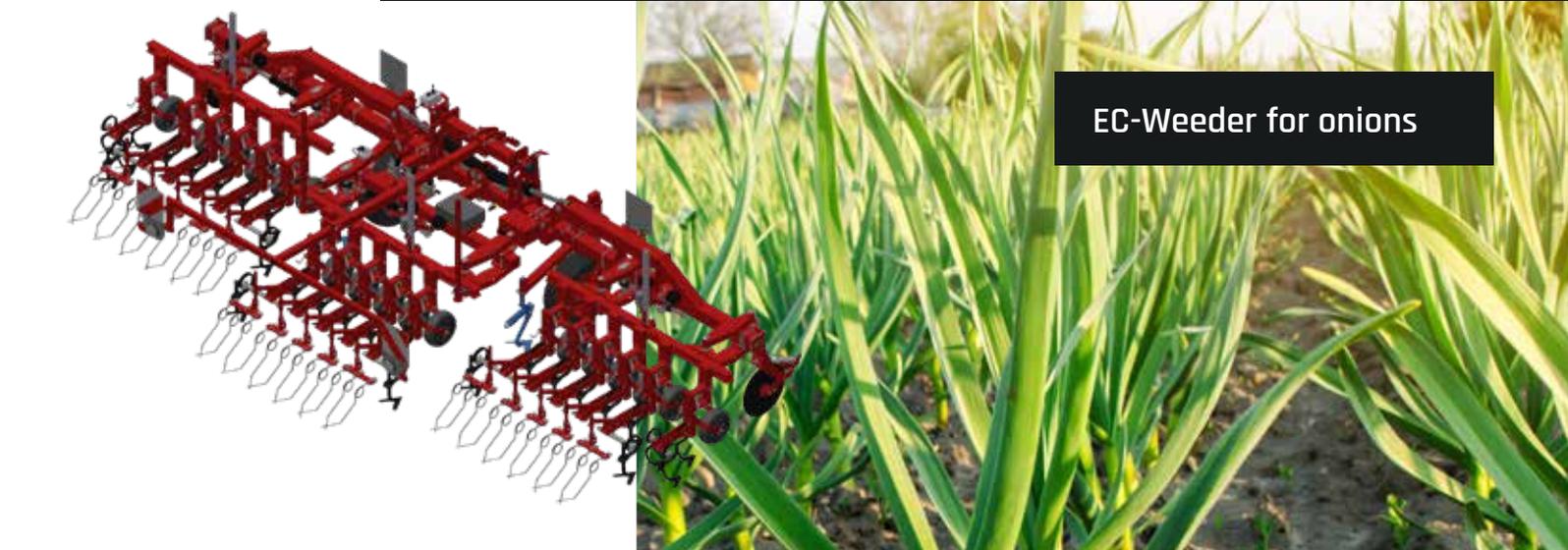
- 🌿 5 rows with 30 cm row spacing
- 🌿 IC-Light camera control with LED work lights for fatigue-free work day or night
- 🌿 Open frame, allowing the camera to be placed at a central position above the bed
- 🌿 Basic element mounted to the profile toolbar for flexible row widths
- 🌿 Hoe blades on a rigid mount for ultimate precision
- 🌿 Separate parallelogram elements to loosen tracks
- 🌿 Brush hoe for cutting weeds with an action that is gentle to crops



EC-Weeder for soy

Possible EC-Weeder package for soy:

- 🌿 18 rows with 45 cm row spacing
- 🌿 IC-Light camera control with LED work lights for fatigue-free work day or night
- 🌿 Second camera for secure steering at the headland and for heterogeneous crops
- 🌿 Second pair of rubber support wheels for better weight distribution with large working widths
- 🌿 Side-mounted rotating wheels on the main frame for better implement guidance
- 🌿 Combi element mounted to the profile toolbar for flexible row widths
- 🌿 Hoe blades on the Vibro mount provide precise tools even in stony soils
- 🌿 Geared protective discs to prevent crop damage
- 🌿 Ridging shares for burying weeds within crop rows



EC-Weeder for onions

Possible EC-Weeder package for onions:

- 🌿 3 beds with 8 rows each with 24 cm row spacing
- 🌿 IC-Light camera control with LED work lights for fatigue-free work day or night
- 🌿 3 independent parallel steering frames with one camera control each
- 🌿 Basic element mounted to the profile toolbar for flexible row widths
- 🌿 Hoe blades and L-blades on a Vibro mount combined with cutter discs for ultimate precision
- 🌿 Separate parallelogram elements to loosen tracks
- 🌿 Torsion weeders remove weeds between crop plants within rows



EC-Steer

PARALLEL STEERING FRAME FOR ANY HOEING MACHINE

Hoeing is high-precision work! That's why every millimetre counts during work. The EC-Steer parallel steering frame makes controlling your hoeing machine a breeze. Whether you have a third-party machine or an EC-Weeder – EC-Steer allows you to upgrade any hoeing machine with a steering system controlled via an in-cab joystick or with the IC-Light camera control. This is particularly advantageous if you want to use hoeing machines for various row widths with a single steering system. Precise, stress-free hoeing for weed-free crops!

- 🌿 Hoeing machine swivel range of up to 20 cm to the right and left
- 🌿 IC-Light camera control or manual control via an in-cab joystick
- 🌿 No transfer of movement between the tractor and steering frame when driving with open lower link stabilisers
- 🌿 Gentle to crops thanks to a high ground clearance
- 🌿 Optional short linkage connection for an optimised centre of gravity

SERIES



EC-Steer 7

- 🌿 Coupling via Cat. 2 (L2 Z2) three-point linkage
- 🌿 Coupling of implements with a gross weight of up to 2500 kg



Watch the
EC-Steer in action:



SUPPORT WHEELS

The support wheels allow the machine to be operated with open lower link stabilisers, which prevents the transfer of movement between the tractor and steering frame. Two or four support wheels in two different versions are optionally available for the parallel steering frame.



EC-Steer 9

- ❖ Coupling via Cat. 3 (L2 Z3 or L3 Z3) three-point linkage
- ❖ Coupling of implements with a gross weight of up to 4000 kg



RUBBER SUPPORT WHEEL

- ❖ Large wheel diameter for optimal load-bearing capacity
- ❖ Height adjustment via a perforated grid
- ❖ Gentle to crops



SUPPORT WHEEL WITH STEEL WHEEL FLANGE

- ❖ Wheel flange for improved directional stability
- ❖ Height adjustment via a perforated grid



IC-Weeder

SMART INTRA-ROW HOEING MACHINE FOR VEGETABLE CROPS

The IC-Weeder delivers automated hoeing at the highest level. Its cameras are mounted underneath the cover and reliably display the field of view, which is illuminated by LED lights, even in changing light conditions and at night. As a result, the IC-Weeder detects the precise position of plants based on their hue, size and position, and hoes precisely around them from both sides.

- 🌿 Minimal row width of 25 cm
- 🌿 Minimal planting distance of 20 cm
- 🌿 Working widths of up to 6 m
- 🌿 Forward speeds of up to 4 km/h
- 🌿 Hoeing as close as 2 cm from crop plants
- 🌿 Multiple cameras, each covering a 60-cm field of view
- 🌿 Recognition of hues of green and the RGB colour spectrum
- 🌿 Remote maintenance for direct support in the field

VERSIONS



IC-Weeder 5 × 30 cm

- 🌿 Lettuce, onions



We work with different row spacings, and we need a machine that can be adapted accordingly very quickly. That's why we decided on Steketee's IC-Weeder.

Lothar Tolksdorf, Bursch Organic Farm, North Rhine-Westphalia

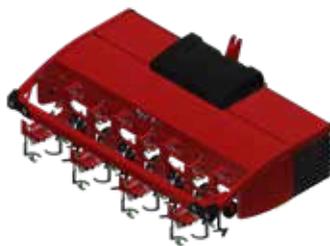


Lothar shares his experiences:



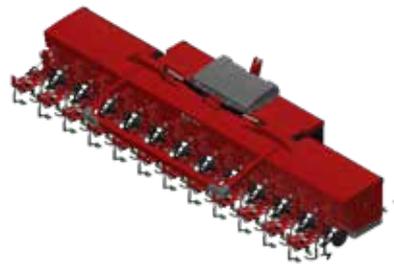
IC-Weeder 6 × 45 cm

🌿 Cabbage, celery, iceberg lettuce



IC-Weeder 4 × 75 cm

🌿 Cabbage, pumpkin



IC-Weeder 12 × 50 cm

🌿 Cabbage

IC-Weeder

FRAMES AND ELEMENTS

PARALLEL STEERING FRAME

The parallel steering frame has a swivel range of up to 20 cm to the right and left. When the IC-Weeder is raised, the hoeing machine is automatically centred behind the tractor. The support wheels allow the machine to be operated with open lower link stabilisers, which prevents the transfer of movement between the tractor and steering frame.



PARALLELOGRAM ELEMENT

The parallelogram element is equipped with either three or four tool holders for inter-row and intra-row tools. The front tool holder features a rigid or Vibro mount with hoe blades for working between rows. Behind it are two crescent-shaped blades, which remove weeds between plants within a row. Once the area around a plant has been hoed, the Crop Clean blast of air removes dust and soil from the plant. Optional: The ground pressure of the element can be reduced via pneumatic cylinders.



SUPPORT WHEELS

The two support wheels hydraulically correct the height of the machine and transmit the speed signal to the job computer. They also ensure the lateral stability of the machine.





CAMERA

The cameras are located underneath a cover to prevent shadows from natural sunlight. The field of view is instead illuminated with LED lights to provide high-quality camera images. Depending on the mode set, the integrated software searches for green hues or a calibrated colour hue. Each camera covers a field of view of 60 cm. The images are transferred to the job computer and visualised on the terminal.



TERMINAL

The terminal processes the camera images to produce precise steering signals. The actual plant position is calculated from the camera image, the plant size and the expected plant position. This steering signal is transmitted both to the parallel steering frame to ensure that rows are followed precisely and to the active hoe blades, which remove weeds within the row. The touch screen terminal is used to control the job computer. Operating the IC-Weeder via the terminal is very simple and intuitive. Remote maintenance additionally ensures quick support when needed.



EC-Ridger

HOEING AND RIDGING IMPLEMENT FOR RIDGE CROPS

The EC Ridger is suitable for all crops grown on ridges with a 75 cm row spacing, such as potatoes and carrots. Its operating principle comprises three to five steps: The deep loosener optionally loosens the soil between the ridges. The hoeing discs next cut weeds both along the sides of the ridge and on top of the ridge right next to crop plants. Spring tines loosen the soil between ridges. At the end of the process, the ridging body returns the ridge to its intended shape. A leaf guard optionally protects crop plants against damage.

- 🌿 Row spacing of 75 cm
- 🌿 Working widths of up to 6 m
- 🌿 Forward speeds of up to 8 km/h
- 🌿 Automatic and manual steering systems



SERIES



EC-Ridger 5

- ✦ Available for front or rear mounting with optional steering
- ✦ Basic elements for hoeing the ridge crest and sides
- ✦ Only cutting, no rebuilding of the ridge



EC-Ridger 7

- ✦ Rear mounting
- ✦ TRS element with hoeing discs, spring tines and ridger
- ✦ Cutting of ridge sides and simultaneous rebuilding of the ridge
- ✦ Optional leaf lifter. Protects small crop plants; lifts drooping foliage



EC-Ridger 9

- ✦ Rear mounting
- ✦ Modular design due to exchangeable tool modules on the main frame
- ✦ Optimal adaptation to plant size during the season or when changing crops

EC-Ridger

ELEMENTS AND TOOLS

EC-Ridger 5 ELEMENTS



BASIC ELEMENT - ON TOP OF RIDGES

- ✦ For light soils and smaller crops
- ✦ L-blades remove weeds
- ✦ Breaks up crusted soils
- ✦ Depth control wheel with leaf guard



BASIC ELEMENT - BETWEEN RIDGES

- ✦ For light soils and smaller crops
- ✦ Removes weeds between ridges and on their sides

EC-Ridger 7 ELEMENTS



TRS ELEMENT - THE HEAVYWEIGHT

- ✦ Suitable for heavy conditions
- ✦ For ridging bodies and other heavy tools

EC-Ridger 7 TOOLS



SUBSOILER

- ✦ Optional subsoiler for loosening the soil between ridges
- ✦ Supports water flows
- ✦ Individually adjustable working depth



LEAF GUARD

- ✦ Protects crop leaves when hoeing along ridge sides and ridging
- ✦ Allows excess soil to slide gently off the crest of the ridge
- ✦ The distance between plates can be adjusted in keeping with the growth stages of the crop



RIDGING DISCS

- ✦ Optional instead of ridging shares
- ✦ Particularly well suited for light soils

EC-Ridger 9
TOOL MODULES



**HOEING -
ON TOP OF RIDGES**

- ✦ L-blades remove weeds
- ✦ Breaks up crusted soils
- ✦ Depth control wheel with leaf guard



**HOEING -
BETWEEN RIDGES**

- ✦ Removes weeds between ridges and on their sides
- ✦ Depth control wheels



SPRING TINES

- ✦ Loosening of the soil for subsequent ridging



RIDGING DISCS

- ✦ Ensure that ridges are built
- ✦ Soil is not placed against but on top of ridges



RIDGING SHARES

- ✦ Ensure that ridges are built
- ✦ Consolidate the soil and form rows
- ✦ Adjustable spring for additional force on the share

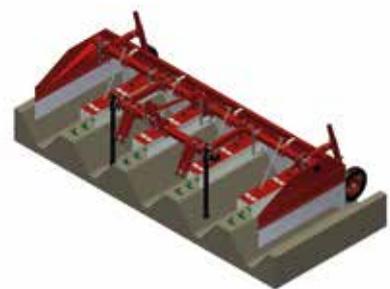


EC-Spray

BAND APPLICATION BETWEEN OR ON TOP OF ROWS

Steketee EC-Spray systems offer you versatile options for targeted crop care applications. These ingenious systems can reduce application rates by up to 80%. As crop care products are directly applied to weeds, growth retardation of crop plants is prevented.

- 🌿 Working widths of up to 6 m
- 🌿 Forward speeds of up to 8 km/h
- 🌿 Row spacings of 20 to 75 cm
- 🌿 Automatic and manual steering systems



EC-Spray_{Tunnel}

- 🌿 Front implement
- 🌿 Crop care tunnel over a crop row encases crop plants
- 🌿 Product is applied between rows



EC-Spray_{Hood}

- ✦ Available as front or rear implement (with IC-Light camera control only as rear implement)
- ✦ Spray hoods between crop rows enclose the application nozzle
- ✦ Product is applied under the spray hood



EC-Spray_{UnderLeaf}

- ✦ Front implement
- ✦ Self-steering spray cap along ridges
- ✦ The spray cap lifts foliage and thus allows crop care products to be applied underneath



EC-Spray_{Band}

- ✦ Front implement
- ✦ Skid with trailed nozzle fork
- ✦ Crop care product is only applied to the crop row

EC-Spray

FOR ANY REQUIREMENTS



EC-SPRAY_{Tunnel}

For ridge crops and standard row crops. The tunnel slides over the crop, protecting it against herbicide applied between the rows.



NOZZLES

- Adjustable height
- Applies herbicide between ridges or rows



TUNNEL

- Width can be adapted to different growth stages (8 to 10 cm or 10 to 20 cm)
- Shields crop leaves against herbicide



EC-SPRAY_{Hood}

For row crops. Herbicide is applied between rows under the hood. Crops are therefore optimally protected against the herbicide. EC-Spray_{Hood} is insensitive to wind and can be flexibly adjusted.



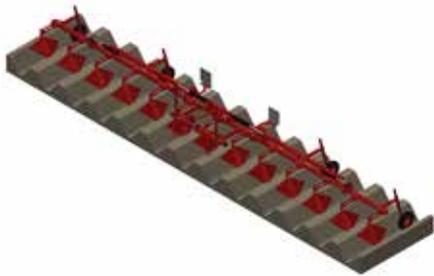
ELEMENTS

- The hood is mounted to the Basic or Combi element to optimally follow the ground contour.
- Easy conversion to a rear implement



HOOD

- Nozzle inside the hood for precise herbicide application between crop rows
- The width of the hood can be adapted to the different growth stages of the crop (30 to 75 cm)
- Glides through the soil on skids to seal the soil completely
- Two nozzles per hood for larger row distances



EC-SPRAY UnderLeaf

For ridge crops with ample foliage. The torpedo-shaped hood lifts the plant leaves to apply herbicide to the maximum soil surface to be treated.



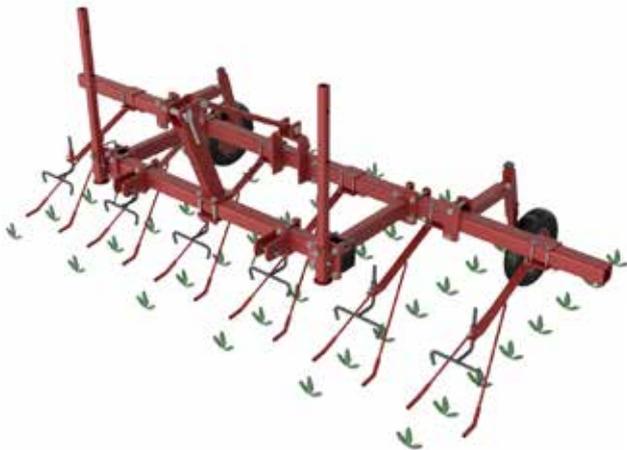
ELEMENTS

- Optional for specialty crops: Torpedo hood mounted to the Basic element for optimal ground contour following



TORPEDO HOOD

- The nozzle is mounted inside the hood, so that it applies product precisely between ridges
- The hood lifts the crop foliage to prevent damage to the crop
- The horizontal parallelogram ensures that the hood can follow the ridges along their sides



EC-SPRAY Band

For row crops. The nozzles are positioned on the crop row to apply either herbicides or fungicides.



NOZZLE ELEMENTS

- The nozzle element follows the ground contour on skids to maintain a consistent distance from plants
- The height and angle of the nozzles can be adjusted to the growth stage of the crop

Service

WE'RE HERE FOR YOU...

... DURING FIRST USE

First impressions count. We'll support you personally when your new machine makes its debut on the field to ensure that everything runs smoothly. This allows us to answer any questions directly and to adapt the machine to your specific needs together with you.

... REMOTELY

Thanks to our special remote maintenance system, you'll get support quickly while you're at work. With your consent, our trained sales is able to access your terminal and troubleshoot any problems directly.



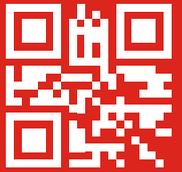


... ON-SITE

Naturally, we also provide personal service on the field. Our trained sales partners and service technicians from specialist agricultural machinery dealers ensure that machines and spare parts are available quickly.

SERVICE HOTLINE

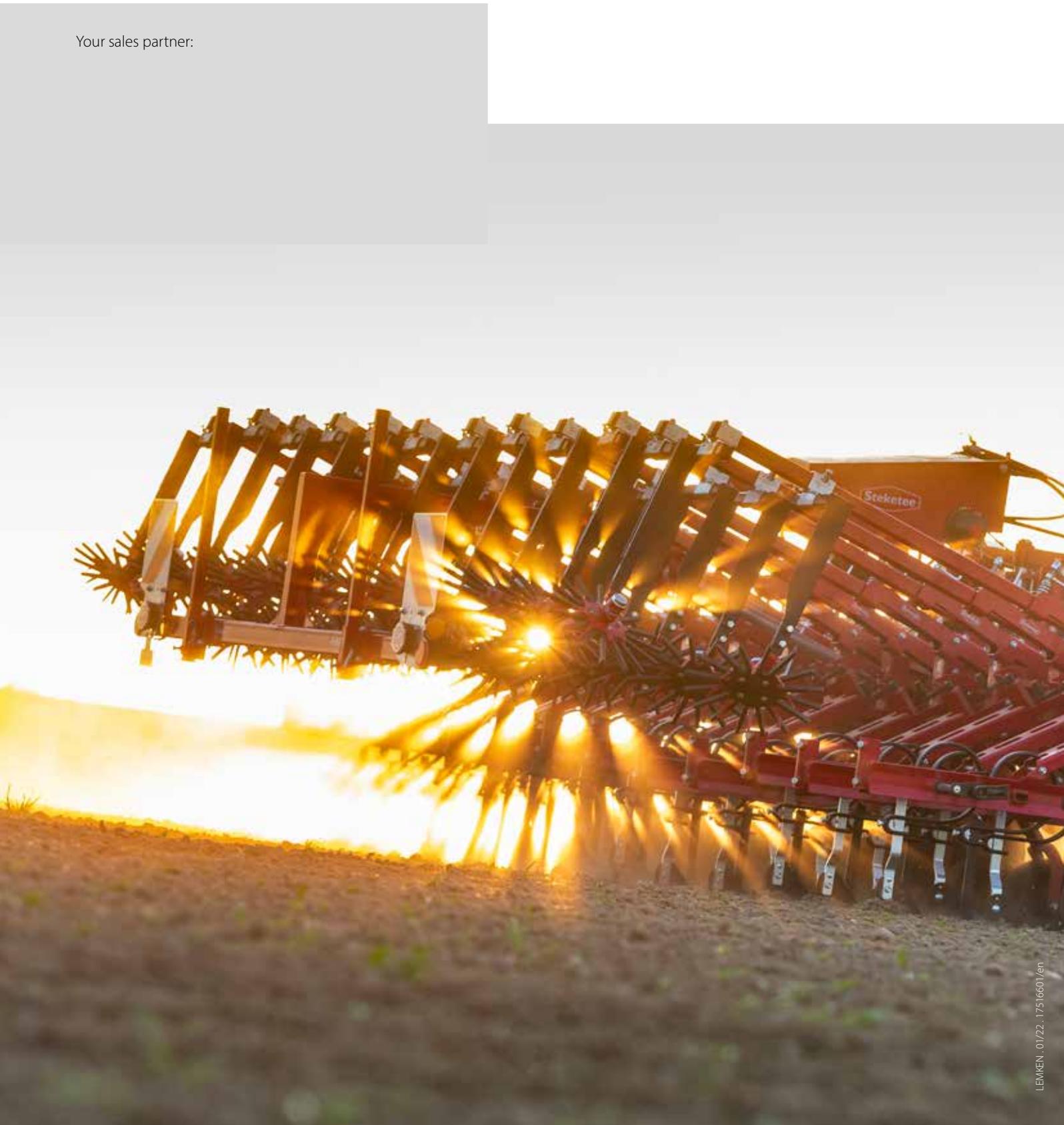
service@lemken.com





space to grow

Your sales partner:



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