



Adelhelm Landtechnik Maschinenbau



THE FLEXIBLE HOE

FOR VEGETABLE CULTIVATION
AND SPECIAL CROPS





CONTENTS

Why hoeing?.....	4
Weeding technique made by ALM	5
Individual weeding devices	6
Frames and elements	7
Parallelograms	8
Infinitely adjustable tine head	9
Working tools	10
Finger weeders	12
Bed cultivation with DUO Solo parallelogram.....	13
Ridge weeding system	14
Dam weeding system with DUO parallelogram	15
Strawberry weeding system	16
Mid-mounted attachment	17

WHY HOEING?

MECHANICAL WEED CONTROL – AN INTEGRAL PART OF MODERN AGRICULTURE

Mechanical weed control is now an **indispensable part** of agricultural practice. It is no longer just part of everyday life for organic farms – conventional farms are also increasingly relying on mechanical weed control.

This is due to the **many agronomic advantages** associated with the use of mechanical weeders.

Mechanical cultivation has been proven to **improve crop development, promote root growth** and thus contribute to **healthy crops and stable yields**.

Weeding with the CulturaX from ALM means:

- Reduce manual labour to a minimum
- Breaking up crusted soils
- Interrupt capillarity
- Promote mineralisation
- Promote healthy growth

CULTURA-X WEEDING TECHNIC

made
by ALM

QUALITY FROM NORDHEIM – CUSTOM WORK WITH PRECISION

At our Nordheim production site, every product is manufactured individually and receives the highest level of precision and material quality. Specially tailored to the customer, each machine is truly unique - that's what we're proud of.

FLEXIBILITY, PRECISION AND COST-EFFECTIVENESS

Today, the CulturaX hoe is a true all-rounder. Thanks to its modular design, each machine can be configured exactly to the customer's requirements – for maximum flexibility in bed, ridge or row crop cultivation.

MAINTENANCE-FREE AND DURABLE

Our maintenance-free assemblies guarantee minimal downtime, reduce your operating costs and ensure a long service life. This means you are investing in a weeding machine that delivers reliable, top performance day after day.

VARIABLE SOLUTIONS FOR...

... row crops

Our weeding machines are as wide-ranging as your crops. Whether vegetables, maize, beet or special crops – we offer the right solution for every row crop. Precise, efficient and flexible for gentle and effective cultivation.

... bed cultivation

The ideal weeding machine for vegetable cultivation: it enables precise and gentle cultivation of beds – both within rows and between rows. This keeps your crops healthy and saves you time on maintenance.

... dam cultivation

The complete solution for ridge cultivation: precise cultivation of ridge tops, sides and spaces – including integrated ridging discs. For optimally shaped ridges, effective weed control and maximum working efficiency.

CULTURA-X CUSTOMISED WEEDING TOOLS

FOR FRONT, REAR AND MID MOUNTED ATTACHEMENT

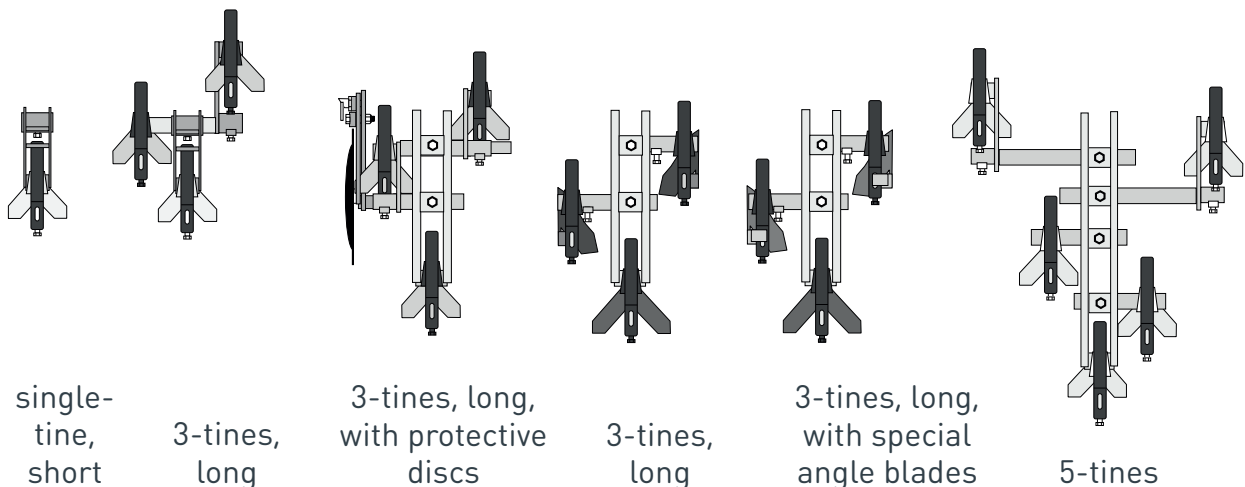
The right weeding machine for every row crop, bed or ridge crop. You have a choice of numerous tool options.

Each machine is configured according to customer requirements

- Row width from 11 cm to approx. 150 cm
- Working width up to 6 m
- The right solution for every row crop
- Various combination options for ridge cultivation or bed cultivation
- Many variations of various weeding tools
- Hoeing in a row with the finger weeder
- Numerous variations of parallelograms and tine heads
- Rear mounting optionally with hand control or camera control

VARIANTS OF TINE HEADS

All shares spring-loaded, suitable for the parallelogram head



CULTURA-X FRAMES AND ELEMENTS

MOUNTING RAIL – FLEXIBLE AND ROBUST



For flexible row widths: The elements are attached to a 70 × 80 mm device rail using robust clamp connections. This makes them easy to move and allows different row widths to be set quickly and easily.

The components can be attached both at the top and bottom of the device rail. This ensures maximum flexibility when attaching the respective weeding elements and allows optimal adaptation to different crops.

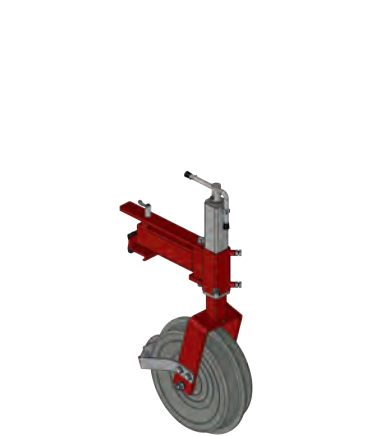
FRAME TYPES



Our weeding machines are available for front, intermediate and rear mounting and, depending on the working width, are available in either rigid or hydraulically folding versions.

For weeding machines with a working width of up to 6 m, we offer a particularly simple and quick solution: Hydraulic vertical folding. The outer segments are folded upwards securely and space-savingly – for a convenient handling and transport.

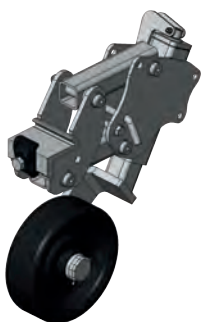
Available as single or double frames, specifically adapted to your needs and operating conditions.



STEEL SUPPORT WHEEL WITH FLANGE

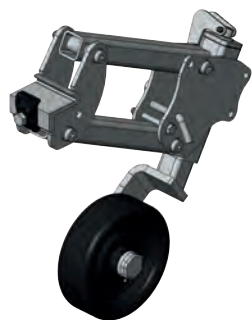
- Flange for improved track stability
- Height adjustment via spindle
- Optionally available as a rubber support wheel

CULTURA-X PARALLELOGRAMS



PVK PARALLELOGRAM REINFORCED SHORT

- Frame clearance approx. 50 cm
- Maintenance-free joints
- Fitting: Short, medium or long tine head
- Adjustable support wheel 230 x 80 mm, optional 300 x 100 mm



PVL PARALLELOGRAM REINFORCED LONG

- Frame clearance approx. 75 cm
- Maintenance-free joints
- Fitting: Short, medium or long tine head
- Adjustable support wheel 230 x 80 mm, optional 300 x 100 mm



DUO SOLO PARALLELOGRAM FOR BED CULTIVATION

- Row width from 20 cm
- Maintenance-free joints
- Individually equipped with shares, angle blades and/or discs
- Adjustable support wheel 200 x 67 mm



DUO PARALLELOGRAM FOR DAM CULTIVATION

- Row width from 20 cm
- Maintenance-free joints
- Individually equipped with shares, angle blades and/or discs
- Adjustable support wheel 200 x 67 mm

CULTURA-X CONTINUOUSLY ADJUSTABLE TINE HEAD

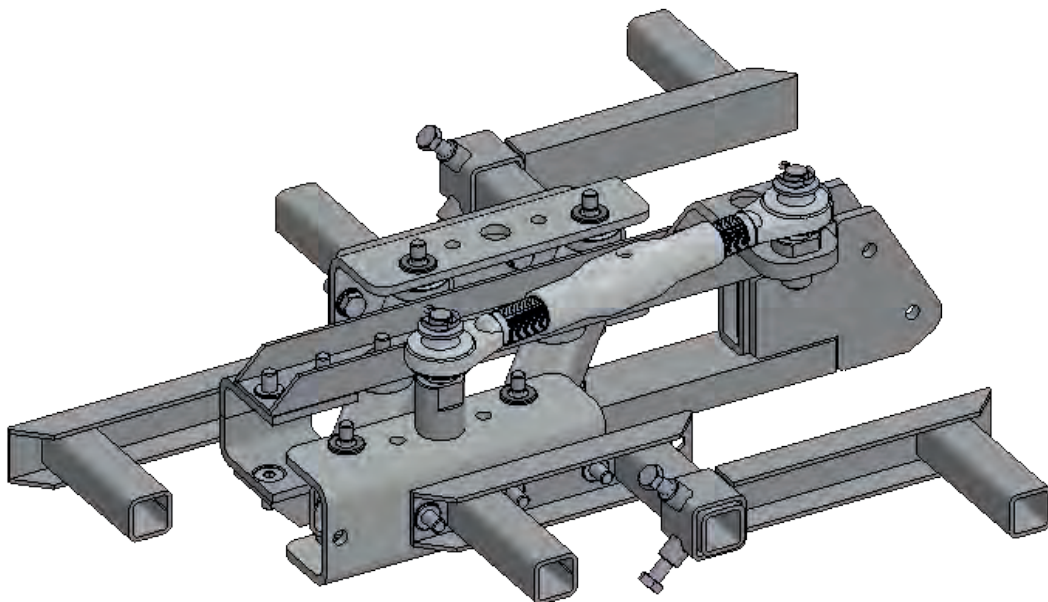
suitable for PVK and PVL parallelograms

MAXIMUM FLEXIBILITY IN VEGETABLE CULTIVATION

With our continuously adjustable tine head, we offer a practical solution for professional vegetable cultivation. The system allows continuous adjustment of the hoeing width and covers row spacings of approx. 20 to 100 cm. Depending on the configuration, adjustments of up to 20 cm are possible – quickly, precisely and without time-consuming conversion.

The machine can be equipped with an individually selectable number of shares and can be adjusted mechanically, hydraulically or electrically. It can thus be optimally and flexibly adapted to different row widths.

The tine head significantly reduces set-up times, increases efficiency in daily use and enables vegetable growers to respond flexibly to changing crops and row spacing. This saves working time, reduces costs and increases profitability in the long term.



CULTURA-X WORKING TOOLS

The cutting tools cut the weeds at the surface, tear them out and scatter them.

The working depth can be adjusted precisely for particularly accurate work. Various weeding shares are available depending on soil conditions. They enable flat, even hoeing that preserves capillary water.

Wide range of tool options



GOOSE FOOT SHARE

- Robust tool for stony soils
- Highly wear-resistant
- Available widths: 150, 200, 250 and 300 mm



FLAT SHARE

Flat shares are the ideal tool for very shallow and even cultivation with minimal earth movement. They enable precise work and are available in widths from 80 mm to 650 mm.



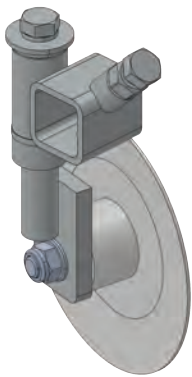
SPECIAL ANGLE BLADES

The special angle blade is ideal for precise hoeing directly along the row of plants. Thanks to the swivelling blade, the working angle can be flexibly adjusted from sharp to flat, allowing you to optimally adapt it to the respective crop and working situation. Available in 120 and 180 mm.



RIDGING ATTACHMENT

- Adjustable baffles
- For row spacing between 25 and 80 cm
- Mounted on the weeding tool



CUTTING DISC

- Very close work to the planting row is possible
- Shallow cultivation minimises soil displacement and protects crops.
- Allows hoeing in earlier stages of development
- Higher driving speeds possible → higher area coverage
- Available in Ø 150 mm or Ø 210 mm



HOLLOW DISC FOR DAM FLANK PROCESSING

- Hollow disc Ø 300 mm
- With angle adjustment for embankment flanking
- Suitable for 40 × 40 mm square tubing
- Minimum row spacing: 30 cm



RIDGER DISCS

- For mounding ridge crops
- Up to 80 cm row spacing
- Available in Ø 400 and 500 mm

CULTURA-X FINGER WEEDERS

MECHANICAL WEED CONTROL WITHIN THE PLANT ROW FOR VEGETABLE AND ARABLE FARMING

Finger weeder – flexible and efficient

Our finger weeders are available in sizes **24 cm**, **29 cm** and **37 cm**, as well as in **three different degrees of hardness** (orange soft, yellow medium hard and red hard). This allows you to find the right tool for almost any crop and row spacing.

The finger weeders enables quick and effective weed control directly within the row of plants without damaging the crops. Thanks to its simple installation, it can be retrofitted to all common hacking systems.

Can be used in:

Corn, sugar beet, sunflowers, soybeans, field beans, tobacco, cabbage, lettuce, beans, leeks, tomatoes, artichokes, lavender, medicinal and aromatic herbs, strawberries, pumpkins, tree nursery crops, roses and much more.



Finger weeder soft

- with handle
- 40 x 40 mm
- ball bearing mounted
- Ø 24 cm



Fingerhacke medium hard

- with handle
- 40 x 40 mm
- ball bearing mounted
- Ø 29 cm



Fingerhacke hard

- with handle
- 40 x 40 mm
- ball bearing mounted
- Ø 37 cm

CULTURA-X BED CULTIVATION

with DUO Solo parallelogram

PRECISION WEEDING SYSTEM FOR BED CULTIVATION: MINIMUM ROW SPACING 25 CM

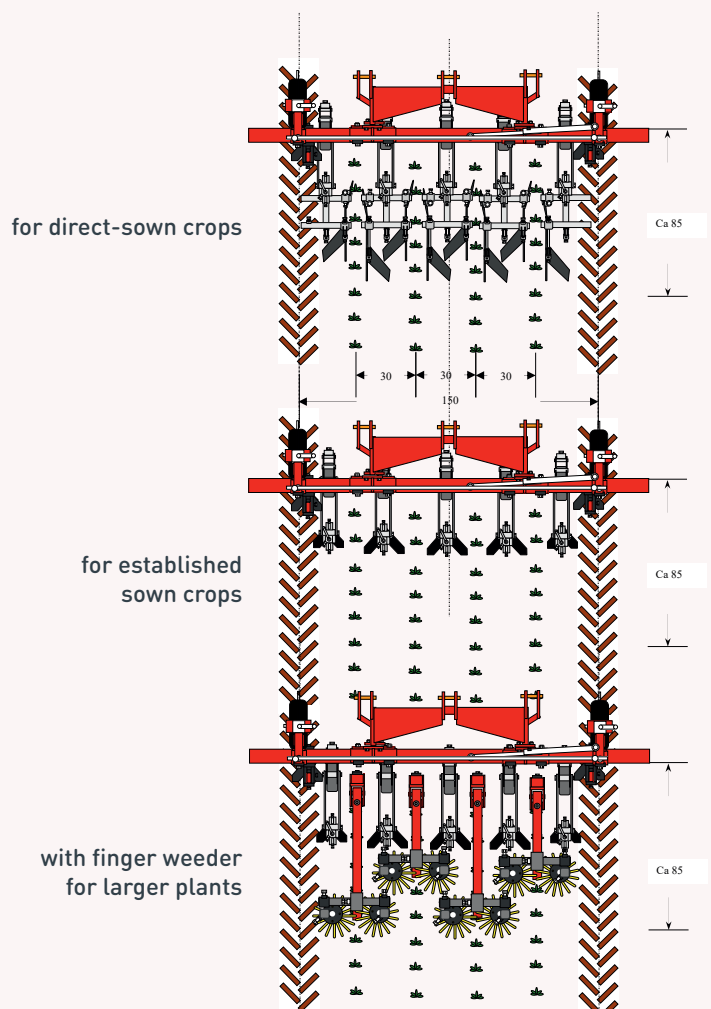
Operating principle:

1. Hollow discs break the crust close to the row.
2. Special angled blades work closely on both sides of the row.
3. The overlapping angled blades create a chopping effect between the rows.

Special features:

- Continuously adjustable concave discs for clog-free operation
- 2-way adjustable angled blades
- Springs to burden or unburden the tools
- Adjustable training wheels

**CulturaX precision weeding system 4 rows
30 cm rear attachment for sowing and
planting crops with finger weeder**



graphic by Stefan Wanke

CULTURA-X DAM WEEDING SYSTEM

3-in-1: Designed for hoeing weeds in ridge crops. Weeding machine and ridging device combined in one machine.

1. PROCESSING THE DAM CREST

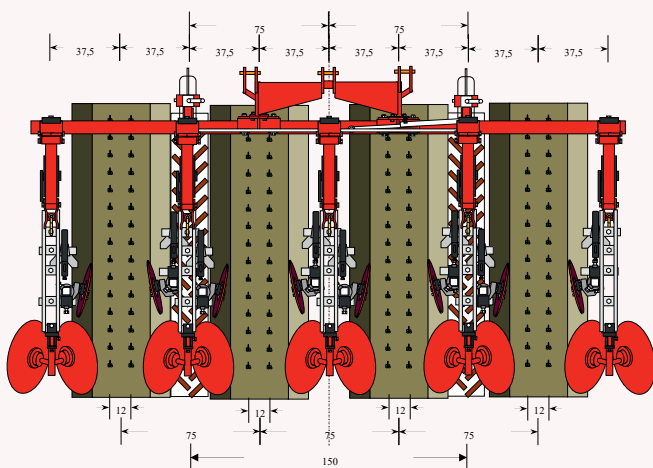
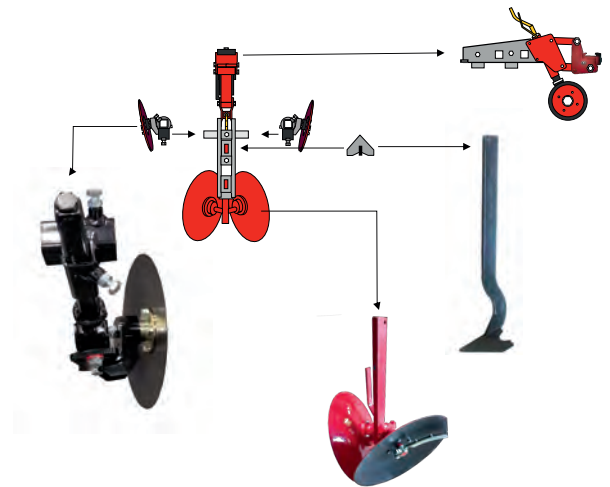
- Hollow discs break the crust close to the row.
- Special angled blades process the dam crest.

2. PROCESSING THE DAM FLANK

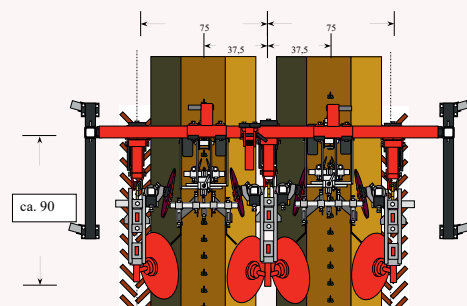
- The dam flank is peeled off with Ø 300 mm discs.

3. WORKING THE RIDGE AND HILLING

- A loosening tine loosens the soil in the dam valley.
- To build up the dam, hilling discs bring soil from the valley back to the dam.
- Scrapers limit the flow of soil to the dam crest.



CulturaX weeding System 4 double rows
12 cm by 75 cm, 2 in 1 dam valley and flank care in chicory



CulturaX dam-weeding system, two-row: 75 cm for the Fendt GT mid-axle system, 3-in-1 working: dam crest, dam flank, dam valley

CULTURA-X DAM WEEDING SYSTEM

with DUO parallelogram

PRECISE HOEING ON THE RIDGE CREST

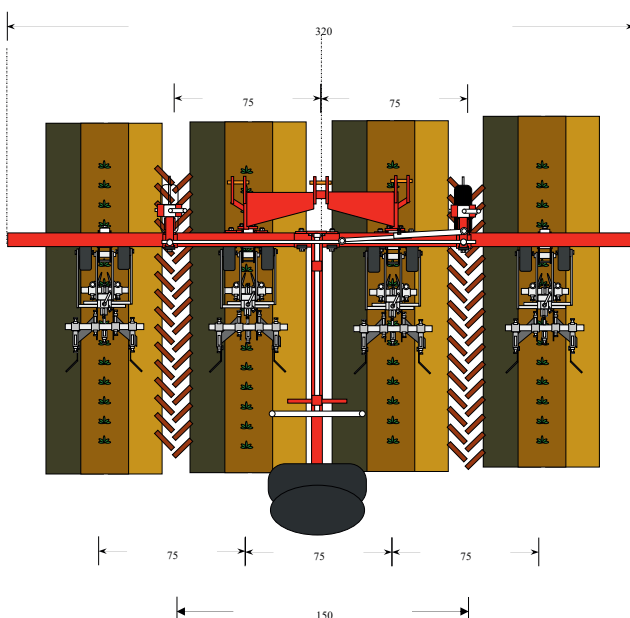
For use in ridge cultivation: onions, leeks, carrots, herbs, etc. Tools for working widths in 8 cm narrow double rows. Minimum row spacing 25 cm.

Operating principle:

1. Hollow discs break the crust close to the row.
2. Special angled blades process the dam crest.
3. Flank blades cut weeds on the sides of the ridges.

Special features:

- Infinitely adjustable concave discs for clog-free operation
- 2-way adjustable angled blades
- 3-way adjustable flanking blades
- Springs to burden or unburden the tools
- 2 adjustable support wheels
- Fits on any dam

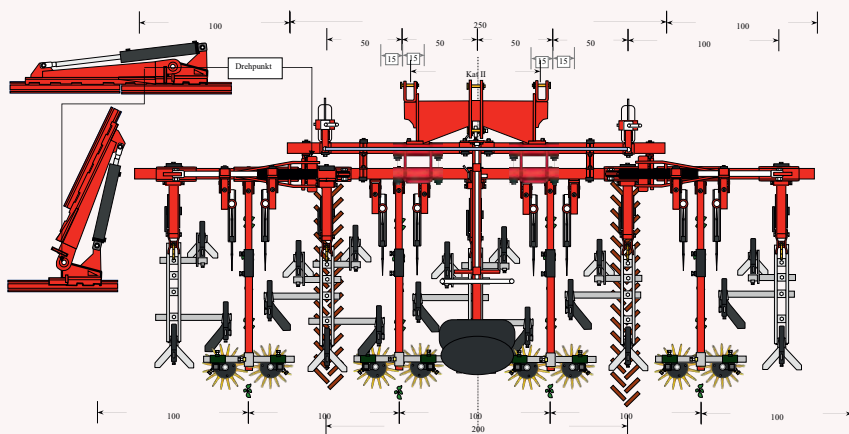


CulturaX weeding System 4-row DUO dam crest with cutting discs, angled blades and ridge flank blades

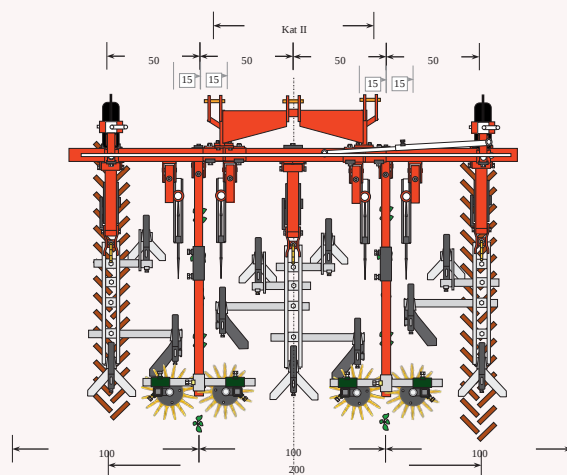
CULTURA-X STRAWBERRY WEEDING SYSTEM

MECHANICAL WEED CONTROL AND CUTTING OFF RUNNERS IN ONE STEP

- Simultaneous removal of runners and weed control in the row through combination with the finger weeder
- Flexible use in new and old systems – can be used in all existing systems without conversion times
- Suitable for all row widths and numbers of rows from 1 to 6 rows
- High impact: Travel speeds of up to 15 km/h enable an area coverage of up to 3 ha/h

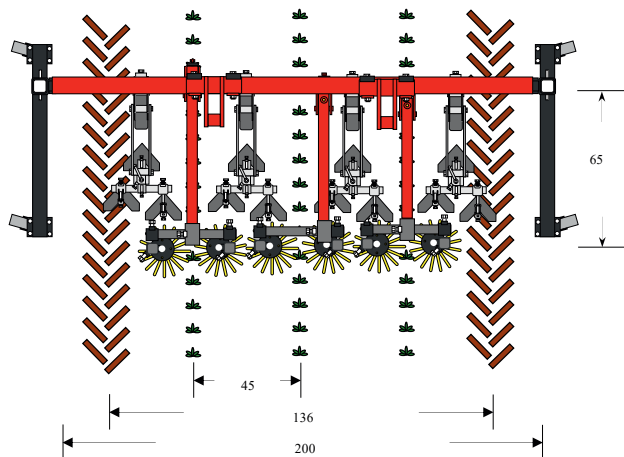


CulturaX strawberry weeding system, 4 rows

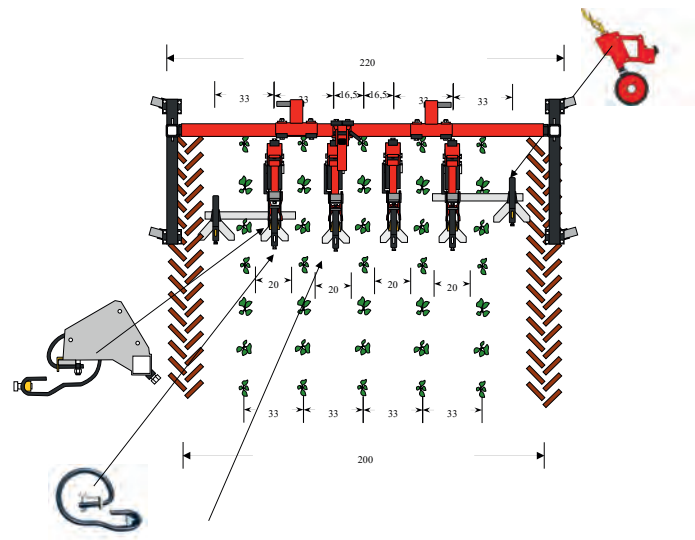


CulturaX strawberry weeding system, 2 rows, 100 cm

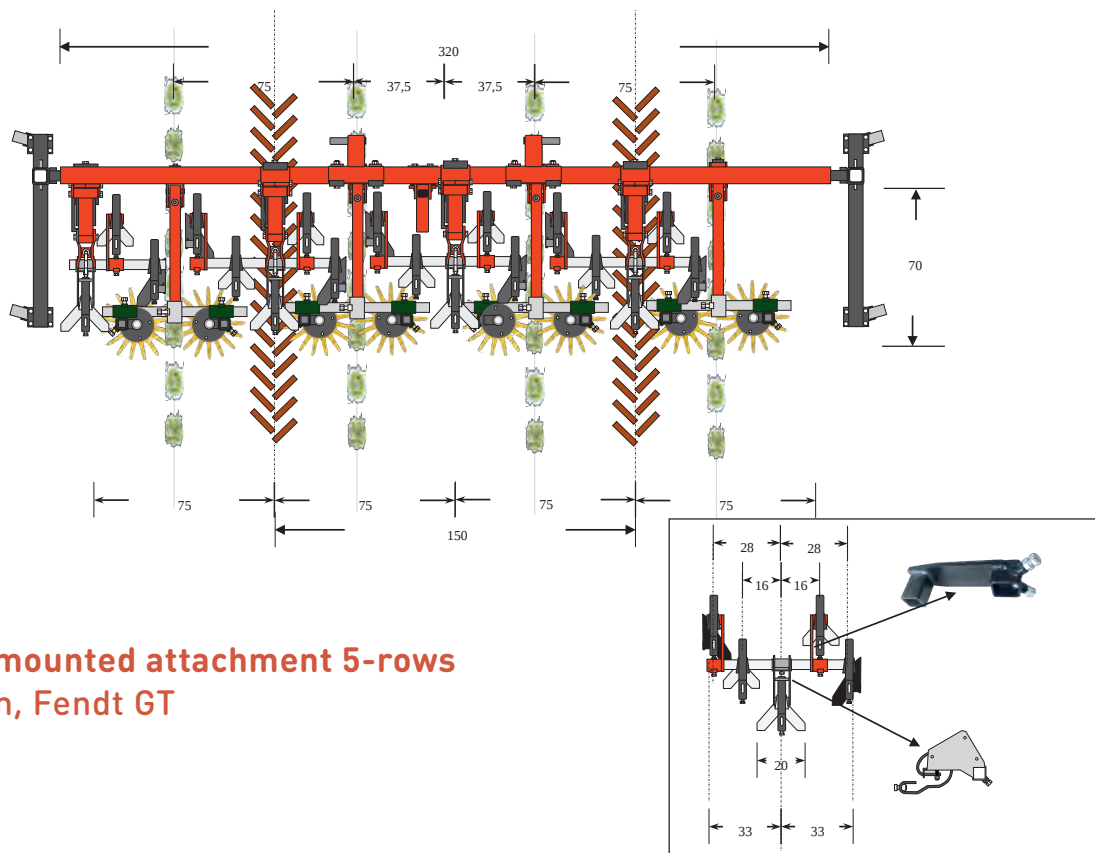
INTERAXLE MOUNTING



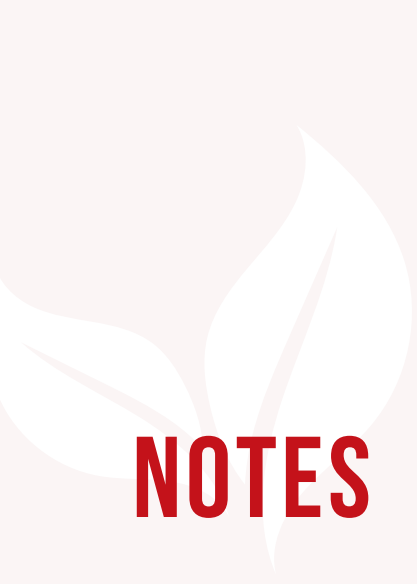
Mid-mounted attachment 3-rows
45 cm, Fendt 231 GT



Mid-mounted attachment 5-rows
33 cm, Fendt GT



Mid-mounted attachment 5-rows
75 cm, Fendt GT



NOTES

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Handwriting practice lines consisting of 18 horizontal dotted lines.



GET THE FULL EXPERIENCE!

Discover our new
product line for
vegetable cultivation
and special crops.



Adelhelm Landtechnik Maschinenbau



Lerchenstraße 52, D-74226 Nordheim, Germany



<https://kertcenter.com/alm-adelhelm-maschinenbau>

Your contact in Hungary:

Kertcenter Kft. Mr. Laszlo Keki
Tel: +36 20 311 3805
info@kertcenter.com