

Einböck

**When hoeing
is joy!**

IN-ROW CULTIVATOR INVERA

NEW

RELIABLE IN-ROW HOEING
MODERN AI-DRIVEN CAMERA TECHNOLOGY
EFFICIENT, RELIABLE, ECONOMICAL



WWW.EINBOECK.EU



RELIABLE. INTELLIGENT. EFFICIENT.

IN-ROW CULTIVATOR INVERA

The INVERA in-row cultivator offers maximum precision in mechanical weed control directly inside the crop row. With an AI-supported camera, the system reliably recognizes single crops and hoes precisely and fully automatically between the plants in a row using hydraulically driven hoeing blades.

The INVERA is available in two versions: the flying AIR hoeing element with an electric motor for automatic height control without wheels, ideal for vegetable cultivation, and the PLUS hoeing element with depth-control wheels for larger working widths and areas. The PLUS element can also be equipped with trailed working tools such as a special row weeder with indirect spring-loaded tines or finger weeders.

The INVERA in-row cultivator combines precision, robustness, as well as digital intelligence and offers a very practical solution for farms that are looking for reliable, durable and professional technology. It was designed for both special crops and smaller areas in vegetable cultivation as well as for larger arable areas with standard crops.



STANDARD EQUIPMENT

- ✓ Sideshift frame with 500 mm sideshift range
- ✓ Guide shafts made of high-strength, coated material for minimal wear and tear
- ✓ Height-adjustable stabilizing wheels with fine gradation
- ✓ Upper and lower link pins guided on both sides
- ✓ Hoeing frame made of robust, durable special profile-tube frame
- ✓ Greasable, durable parallelograms with optional depth-control wheels (PLUS) or linear motor (AIR) for height control
- ✓ Possibility for mounting bypass tines for PLUS hoeing element
- ✓ AI-supported camera in robust aluminum housing
- ✓ Computer, modem, Wi-Fi router, and all electrical wiring
- ✓ Tablet for handling the machine via app
- ✓ Option to install a SIM card for remote monitoring and data transmission
- ✓ ON/OFF switch on the machine for safe operation
- ✓ Hydraulic drive of the in-row blades
- ✓ Hoeing knives in various designs made of wear-resistant steel
- ✓ Integrated hydraulic block with pressure accumulator for energy-efficient oil supply
- ✓ ISOBUS connector for power supply (NO ISOBUS control)
- ✓ Parking supports

OPTIONS

- » Rear wheels with tractor tire profile for stabilizing the frame
- » CHOPSTAR-ROLL elements for working in bed track
- » Cutting disc pair for hoeing element PLUS
- » Professional row weeder with two indirect spring-loaded tines above the row for hoeing element PLUS
- » Holder for bypass tine for hoeing element AIR
- » Bypass tines & sweeps
- » SECTION CONTROL for hoeing element PLUS
- » Additional equipment (warning signs, etc.)

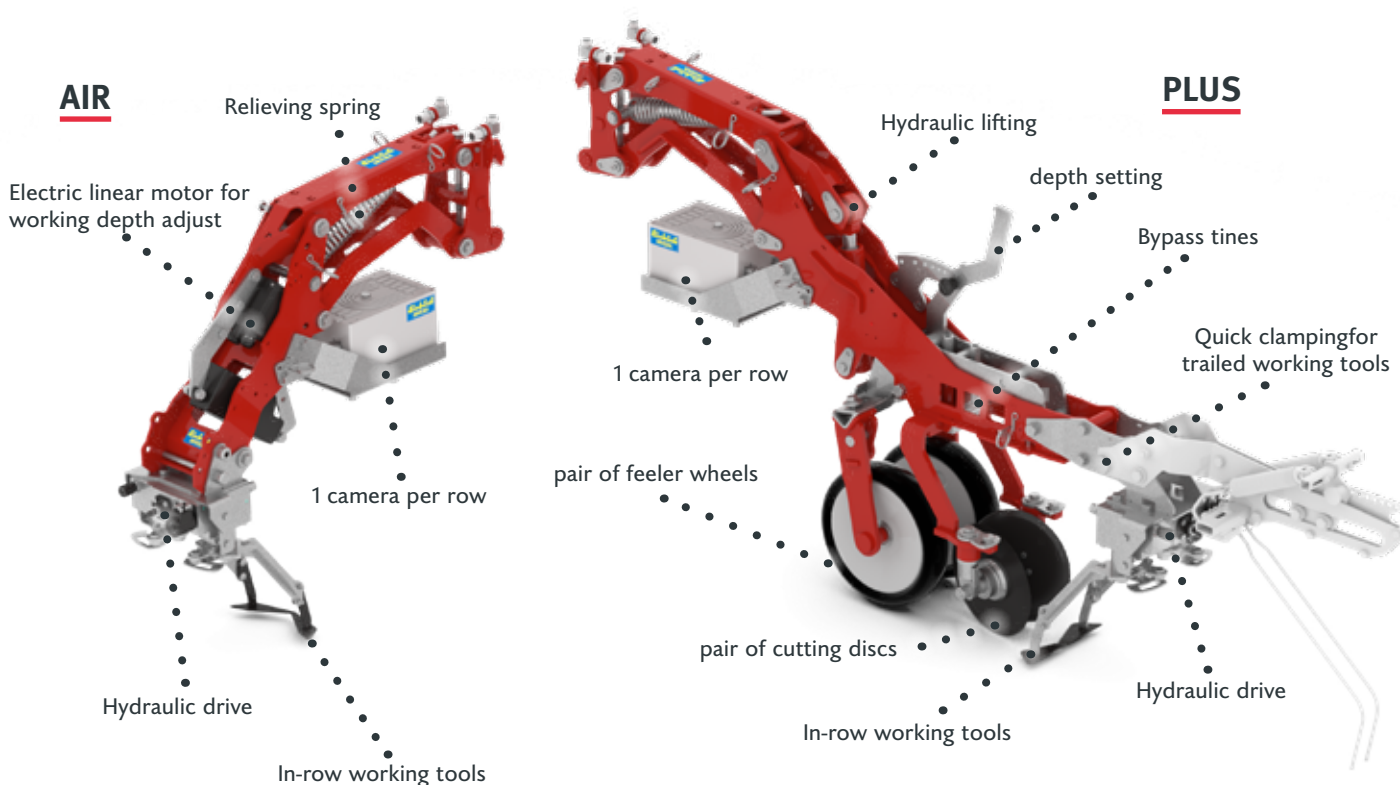


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IN-ROW CULTIVATOR INVERA

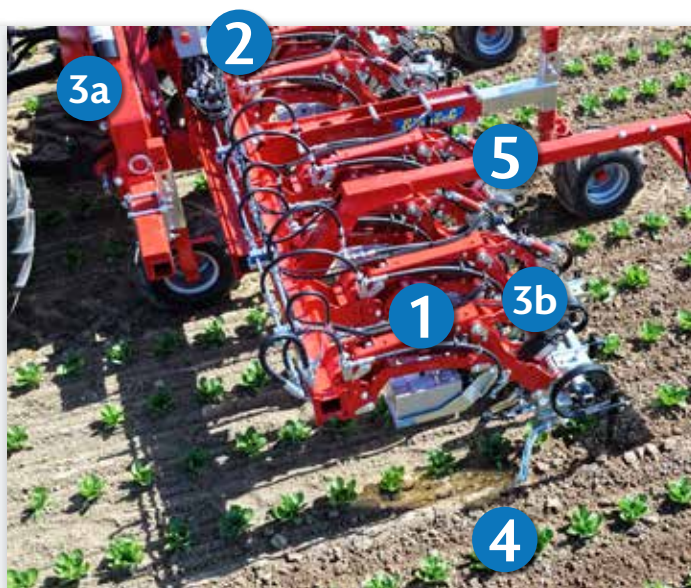
INVERA	Hoeing element AIR	Hoeing element PLUS
Rows	up to 6	up to 12
Frame width	2 - 6 m 3 - 20 ft	
Front wheels	stabilizing wheels with tractor tire profile	
Back wheels	optional	
CHOPSTAR-ROLL in track	optional	
Adjustable tracks	1.400 - 2.250 mm 4.6 - 7.4 ft	
Camera	high-resolution camera with AI-supported single plant and row detection	
Power supply	12 VDC/max. 60A via ISOBUS socket - NO ISOBUS device	
Drive of the InRow blades	hydraulically	
Hydraulic system for In-Row	1x double-acting + 1x pressureless return	
Minimum row spacing	25 cm 10"	30 cm 12"
Height control element	linear motor	twin depth-control wheels
Possible working depth	0-5 cm 2-2"	
Hoeing shaft	straight & curved	
Maximum blade opening width	20 cm 7.9"	
Blade frame clearance	30 cm 12"	
Cutting discs	no	optional
Bypass tine	optional - max. 1	optional - max. 2
1 bypass tine for row distance	30 - 45 cm 12-18"	35 - 50 cm 12"-20"
2 bypass tines for row distance	not possible	50 - 75 cm 20-30"
SECTION-CONTROL	no	optional - up to 27 cm 10.6" lifting height
Trailed working tools	no	optional - indirect spring-loaded row weeder



DETAILS & ADVANTAGES INVERA

LOGICAL OPERATION

- 1: One camera per row detects single cultivated crops.
- 2: The main computer collects all the information and transmits it ...
- 3a: ... to the sideshift frame, which guides the entire machine along the rows.
- 3b: ... to the hydraulic drives.
- 4: The hydraulic drives close or open the hoeing blades before or after each crop plant.
- 5: Additional tools operate between the rows or follow behind.



STATE-OF-THE-ART AI CAMERA TECHNOLOGY

- » Intelligent AI detection of cultivated crops and their root entry points
- » Precise detection of even the smallest crops and under heavy weed pressure
- » Reliable performance in varying light and sunlight conditions
- » Flexibly adjustable for many crops, rows, and plant spacing



ULTIMATE USER COMFORT

- » Easy setup via tablet
- » No calibration or complicated setup required
- » High working speed (up to 5 km/h, depending on crop and size)
- » Remote access for support and updates



DETAILS & ADVANTAGES INVERA

HYDRAULIC DRIVE

- » Powerful hydraulic drive for reliable hoeing blade movement
- » Powerful performance even under challenging field conditions
- » Easy adjustment to crop type, working speed, and intensity of use (e.g., closing and opening widths, opening speed)
- » No heavy PTO generator or expensive extra tools required – this saves setup time, weight, and costs
- » Smooth operation for precise work inside the crop row
- » Very quiet operation for greater operator comfort
- » Robust technology for long working days and maximum practicality



INNOVATIVE PRECISION HOEING BLADES

- » Various hoeing blades for different crops and operating conditions
- » Overlapping or opposing hoeing blade arrangements are possible
- » Straight or curved hoeing shafts for maximum adaptability to crop width
- » Precise adjustment to row distance, crop stage, and weed pressure
- » Clean weed removal with minimal soil disturbance
- » Push-type hoeing blades are resistant to clogging



WELL THOUGHT OUT IN EVERY DETAIL

- » Many well-thought-out design features for maximum user-friendliness
- » Special constructions for optimum performance in the field
- » Reliable components for a long product life
- » Robust construction for continuous professional use
- » Neat component layout and top-quality manufacturing

For decades, Einböck quality has stood for well-thought-out, practical technical solutions - developed with professional know-how for professionals!



100+ CROP MODELS

- » More than 100 crop models available
- » Precise and highly reliable AI detection of single cultivated crops
- » Ongoing improvement and expansion of models
- » Rapid adaptation to new crops and operating conditions
- » Future-proof technology through continuous development using AI and remote support

An overview of the most important crops:

- » Broccoli
- » Strawberry
- » Fennel
- » Cabbage (white cabbage, cauliflower, Chinese cabbage)
- » Lettuce
- » Pumpkin
- » Leek
- » Corn
- » Sunflower
- » Celery
- » Tobacco
- » Sugar beet
- » Onion
- » and many more.



RELIABLE EINBÖCK SUPPORT

- » Remote control for quick remote access to your INVERA
- » First start-up by Einböck specialists or trained INVERA service partners
- » Expert service network throughout the entire season
- » Support for questions, settings, and software updates



INVERA ASSIST+ SUPPORT PACKAGE

The INVERA ASSIST+ support package is free for the first two years (optionally extendable up to 5 years):

- » Regular software updates & upgrades
- » Continuous improvements to plant models
- » Unlimited access to all available plant models
- » Extended camera support
- » Remote diagnostics & field support



OPTIONS INVERA

REAR WHEELS ON THE FRAME

For smoother operation of the machine and easier adjustment, wheels can be optionally mounted in the track at the rear. These can also be equipped with following weeder tines or sweeps.

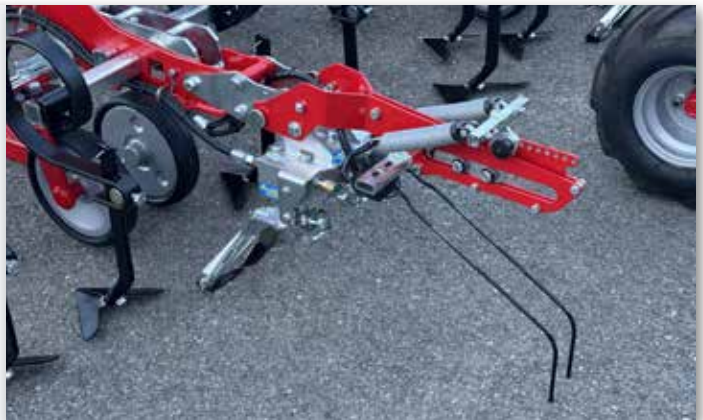


CUTAWAY DISCS

On the PLUS model, optional cutaway discs remove soil precisely next to the crop, thereby creating optimal working conditions for the subsequent hoeing blades.

PROFESSIONAL ROW WEEDER

The professional row weeder, equipped with two indirectly spring-loaded tines positioned above the row, reworks the area immediately next to the plant and exposes previously cut weeds so they dry out more quickly.



ADDITIONAL OPTIONS

- » Parallelogram lifting via SECTION-CONTROL
- » Bypass tines between rows
- » Quick-release couplings for quick configuration of the machine
- » And many other components from the Einböck hoeing technology modular system

CONFIGURATIONS INVERA



OUR HANDBOOKS

THE HANDBOOK OF ORGANIC FARMING

- » **Proven practices:** Our decades of experience and that of our customers worldwide are graphically illustrated in this handbook.
- » **In-depth knowledge:** Through detailed descriptions of topics such as tillage, catch crops or crop rotations, as well as tips and suggestions on organic farming, we would like to encourage you to think outside the box.
- » **The latest technology:** The techniques and settings prescribed in the book will help you get the most out of your machines.
- » **10 cultivation instructions:** The manual contains 10 detailed cultivation instructions graphically explaining the best time for use.



THE HANDBOOK OF FUSION-FARMING

- » **Combined weed control:** The manual is the perfect guide for combined weed control. It combines the advantages of conventional and organic cultivation methods.
- » **Mechanics & chemistry:** Tips and tricks from mechanical and chemical weed control are presented. These applications lay the foundation for sustainable and successful arable farming.
- » **Cultivation instructions:** You will find instructions on weeding, hoeing and spraying in 5 different crops for a versatile and effective application of the Fusion-Farming method.

THE HANDBOOK OF GRASSLAND CARE

- » **Problems and solutions:** The Grassland Care Handbook deals with challenges such as increasing dryness, weed infestation or nutrient deficiency and offers practical solutions for grassland farmers.
- » **Maintenance & reseeding of grassland:** We show detailed instructions on maintenance and reseeding with effective methods that can increase the quality and yield of grassland in the long term.
- » **Practical examples with data, facts and figures:** Practical examples with well-founded data, facts and figures not only impart theoretical knowledge but also provide practical insights with successful grassland care strategies.



EINBÖCK AT A GLANCE

100% DESIGNED & MANUFACTURED IN AUSTRIA

- » We are a fourth-generation, owner-managed family business
- » Our development and production site is located entirely in Dorf, in the Innviertel region in Austria
- » We stand for 100% in-house production expertise: from cutting and further processing to welding, painting, and assembling our red machines.
- » Energy-self-sufficient production, e.g., with photovoltaic systems, wood chip heating, etc., awarded the "German Sustainability Award."

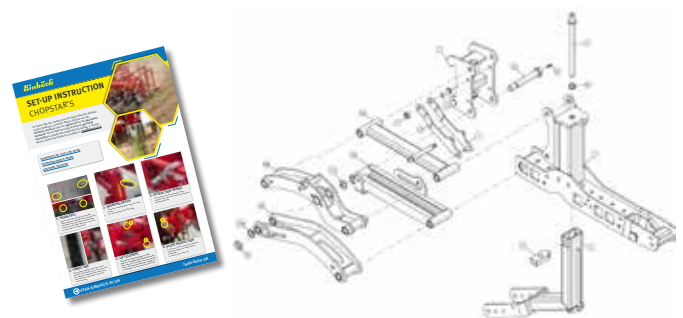


FROM THE FIELD, FOR THE FIELD!

- » We continuously develop our technology further in collaboration with our global customers
- » For over 90 years and four generations, we have stood for trustworthiness, reliability, honesty, hands-on mentality and common sense
- » We are consultants and partners, working together with farmers around the world to find the best solutions
- » We have been at home in the mechanical weed control segment for over 45 years

ORIGINAL SPARE PARTS

- » Decades of spare and wear part availability
- » Perfect fit and compatibility
- » Highest quality standards
- » Competent and prompt advice
- » Online spare and wear parts catalog, operating and set-up instruction, and much more at www.einboeck.at/en/help



CUSTOMER SERVICE

- » Practical service with maximum reliability
- » Rapid support even during peak season
- » An answer to every question
- » Expert advice and support for questions about machine settings



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Related brochures regarding "organic farming & mechanical weed control":



WEEDING TECHNOLOGY

- » Tined weeder
AEROSTAR-CLASSIC
- » Precision tined weeder
AEROSTAR-EXACT
- » Premium tined weeder
AEROSTAR-FUSION
- » Rotative weeder
AEROSTAR-ROTATION



HOEING TECHNOLOGY

- » Row-crop cultivator
CHOPSTAR's
- » Camera steering system
ROW-GUARD
- » Rotary hoe
ROTARYSTAR

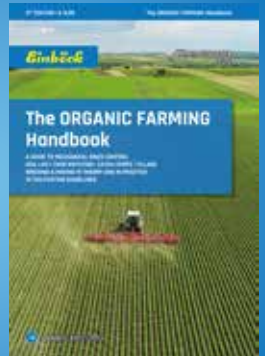


ROTARY HOE ROTARYSTAR

- » Break crusts
- » Regulate weeds
- » Aerate soil

ORGANIC FARMING

- » Guide to mechanical weed control
- » Tips and interesting facts about weeding and hoeing technology
- » With FUSION FARMING to success



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