



**BUSA**  
WWW.BUSAROTOR.EU

Products with BUSA ROTOR





# THE BUSA™ ROTOR

The new generation BUSA™ Rotor rotary hoe marks a significant advancement in the realm of soil cultivation. Our company's founder, Benedek Horváth, embarked on its development and secured patents for this innovative tool in the late 1980s. Through a continuous process of development and the acquisition of new patents, we have introduced solutions that were once considered unattainable.

The BUSA™ Rotor rotary hoe represents a groundbreaking approach to soil cultivation, finding application in diverse settings, including fields, interrows, and plantations. Its cultivating elements operate with remarkable efficiency, delivering intense clod breaking and exceptional weed control capabilities. Furthermore, due to the high-speed operation and rapid acceleration of its tines, it stands out for its remarkable effectiveness. Notably, when compared to traditional rigid or spring-loaded tools, it distinguishes itself by its non-clogging and non-disruptive nature, enabling high-speed, unattended operation.

Initially, the adaptation of the BUSA™ Rotor rotary hoe was primarily a tool for primary tillage finishing and preparing seedbeds, but today, it has become a key tool in regenerative soil cultivation. You can find different versions of it, such as a weed control cultivator for plantations, interrow cultivators for row crops, and it is also used for terminating cover crops in fields.



The blades of our BUSA™ Rotor rotary hoes are made from premium-quality, specialized Swedish spring steel. Thanks to the free-form forging technology, they are strong, durable, and extremely wear-resistant.



## Adjustment in 5 steps

### Shallow

- Low pressure
- Fine structure
- Crop control
- Ultrashallow

### Deep

- Aggressive
- Extra clod breaking
- Termination
- Deep Mulch







# BUSA™ GYMF Series

The Busa™ Rotary Hoe, with its Busa™ Rotor Weeder version, makes the cultivation of orchards and plantations quick and easy. It's also suitable for field stubble management and cover crop regulation. With the rotary hoe's cultivating elements, it can completely eliminate weeds if required in the given technology. When adjusted, it effectively manages interrow cover crops by controlling and partially terminating plants while preserving root continuity to maintain soil vitality. The Busa™ Rotary Hoe remains clogging-free whether you're clearing thistles or managing extensive cover crop stands. Its outer rotors approach trunks and stems with their rolling points, ensuring that the machine won't get stuck or damage plants upon impact. During continuous cultivation, the rotors level the surface without forming ridges or berms, in contrast to discs harrows. This translates to a smoother ride for subsequent operations, allowing the tractor, sprayer, or trailer to move more efficiently within the plantation.



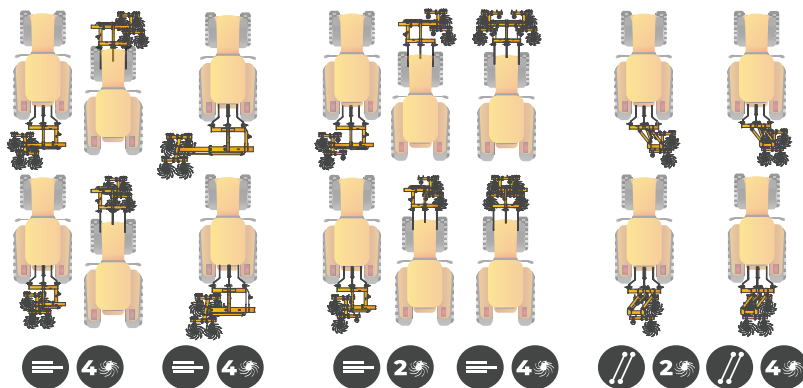
The rotating blades break the weeds' stems, pull off their leaves, snap their roots, and cover them with soil, rendering the weed unable to continue its growth.



The machine's operating speed and, therefore, its area performance surpass those of disc harrows. It boasts a long lifespan, high operational safety, and low operating costs.



If needed, the machine can be equipped with side-extending frames, allowing it to work under lower canopies as well.



„One remarkable advantage is its ability to cultivate both rows and interrows at speeds of 15-20 km/h, an astounding pace in this field.”

Arpád B.



## Product Data

| Type                  | Use case                 | Description                   | Working Width (mm) | Rotor size (mm) |
|-----------------------|--------------------------|-------------------------------|--------------------|-----------------|
| GYMF Classic, GYMF-RF | Full surface, Tree strip | classic fix frame             | 700 - 4300         | 520             |
| GYMF-H                | Full surface             | heavy fix frame               | 700 - 6700         | 620             |
| GYMF-RP               | Full surface, Tree strip | parallel offset frame         | 1200 - 2800        | 520             |
| GYMF-FT / FT 2x       | Field cultivation        | parallel telescopic frame     | 750 - 1100         | 520             |
| GYMF NS               | Field cultivation        | 2 module foldable frame       | 3300 - 6400        | 520             |
| GYMF-H NS             | Field cultivation        | 2 module foldable heavy frame | 3300 - 6700        | 620             |





## **BUSA™ GYMF - PLANTATION** **THE SOIL REGENERATOR**

The Busa™ Rotor rotary hoe machines used in plantations are known for their excellent weed control capabilities. However, they now have a new role: regulating the crop. By restraining the rotor and adjusting it to a shallower setting, we control the crop, only partially terminating cover crops. Excessive cover crop density can limit the plantation's growth and yield, potentially turning it into a breeding ground for pests. On the other hand, the cover crops' root zones in the soil assist in water and nutrient supply, and they even sequester carbon dioxide. Equipping the machine with a small-seed drill allows for reseeding, promoting biodiversity and sustainability. With the rotary hoe's weed control capabilities, sustainable soil-regenerative plantation management is achievable.



Controls covercrops in between the rows, then overseeds, to keep the stock strong and diverse.



Even 12-17 km/h is comfortable for safe working.

REGENERATIVE



## **BUSA™ GYMF Strip** **FIELD CULTIVATOR GYMF**

The BUSA™ GYMF can be used for full-surface cover crop termination and ultra-shallow stubble cultivation. Through an innovative approach, by rearranging the rotors, the machine can operate in strips. We only terminate the crops in the areas where we plan to sow later. The entire ecosystem in the roots of the broken but living plants is left undisturbed. This isn't an issue since it can later be managed with a Busa™ KS rotary hoe in the interrows. What's surprising is that in the crop sown after this, pest damage is less than if we had terminated the entire surface.

**TRANSFORM**  
**IT TO STRIP**  
**TILL**





 **BUSA**

# BUSA™ FKM

## SEEDBED IN ONE GO



The rotary hoe is a fundamentally innovative tool for creating seedbeds and performing primary tillage, developed and patented by our company's founder, Benedek Horváth. Thanks to its exceptional clod-breaking capacity, it can replace up to four rounds typically done with conventional machinery. The Busa™ Rotor rotary hoe serves as an ideal solution for mechanical weed control tasks by providing excellent incorporation and shredding without clogging. The vertical movement of the blades results in depth consolidation, creating a well-settled soil condition. Freshly tilled soil can usually be seeded after a single pass, allowing for plants to emerge simultaneously and rapidly. With the development of adjustable rotors, the rotary hoe is now suitable for spring seedbed preparation, leveling, and the shallow incorporation of chemicals and fertilizers. The Busa™ Rotor rotary hoe ensures high operational safety, a long lifespan, and low operating costs, while also guaranteeing increased crop yields and yield stability. Its use leads to quick returns and outstanding profitability.

The cultivation depth is easily and quickly adjustable to accommodate various soil moisture conditions, preventing the equipment from forming clods in excessively wet layers. In the flat angle position, the shallowest working depth is achieved, suitable for spring work on the dried upper layer. The highest number of blades are in the ground in this setting, which reduces the pressure per blade but works the layer more frequently. The default medium setting is appropriate for normal conditions and soil states. In the steep angle position, the maximum working depth and pressure per tine are attained, making it an ideal configuration for weed control, incorporation, and compacting freshly tilled soil.



Forged tools exhibit high wear resistance and strength. The lifespan of the blades is approximately 600 hectares per meter, with one blade per meter serving as a sufficient spare / replacement part.



Springs manufactured with automotive technology ensure good soil tracking and prevent tool damage.



It can perform in one pass the functions that conventional implements can only perform collectively, and it executes the majority of these functions even better than other implements.



**Mulch covered**

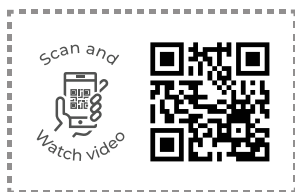


**Dry, Clods**



**Wet black soil**

**Clogging free operation**



## AVAILABLE FINISHING ELEMENTS

The implement comes standard with an axle-less slated roller, but you can also request it with a patented roller with an internal scraper, which offers a solution to the nightmare of seedbed preparation: clogging. You can also order it with a double finishing roller, a self-cleaning rubber roller, or a wedge-shaped roller.



## CULTIVATOR ADAPTER

For breaking compacted soils, equipped with spring-loaded, terrain-following or fixed, chisel-tine tines.



| Working width [m] | Frame Type |         |       | Transport width [m] | Power requirement [LE] |
|-------------------|------------|---------|-------|---------------------|------------------------|
| 2,7               | Hitched    | Light   | Fix   | 2,7                 | 75                     |
| 3,3               |            |         |       | 3,3                 | 90                     |
| 4,0               |            |         |       | 4,0                 | 110                    |
| 2,7               | 2,7        |         |       | 75                  |                        |
| 3,3               | 3,3        |         | 90    |                     |                        |
| 4,0               | 4,0        |         | 110   |                     |                        |
| 4,0 K             | Foldable   |         | 3,2   | 110                 |                        |
| 4,0               | Heavy      |         | Fix   | 4,0                 | 120                    |
| 4,7               | Trailed    |         | Light | Foldable            | 3,2                    |
| 4,7               |            | 3,2     | 140   |                     |                        |
| 5,2               |            | 3,2     | 160   |                     |                        |
| 5,9               |            | 3,2     | 180   |                     |                        |
| 6,5               |            | 3,2     | 200   |                     |                        |
| 7,2               |            | 3,2     | 220   |                     |                        |
| 7,9               |            | 3,2     | 240   |                     |                        |
| 8,4               |            | 3,2     | 250   |                     |                        |
| 4,0               |            | Hitched | Heavy |                     | Foldable               |
| 5,2               | 160        |         |       |                     |                        |
| 6,5               | 200        |         |       |                     |                        |





Clod breaking



Levelling



Weed control



Blending in



Wide moisture range



Clogging free operation







# BUSA™ KS

## THE ULTIMATE WEEDER



For small plants, our cultivator can be safely used on heterogeneous terrain at a productive pace. With protective disc adjustment, the amount of soil dispensed can be precisely controlled with filling rotor settings, allowing for the treatment of weaker weed growth between plant rows.



Our cultivators can be equipped with different material dispenser units. There is option for small seeder and a granulated fertilizer drill, also certain elements can be equipped with liquid fertilizer injectors.



Different elements are available, like the light and versatile Gen3 unit, the massive yet simple Gen4, or the widely adjustable striptill Gen5

Our interrow cultivators enable rapid and efficient crop management, from plant emergence up to nearly 1 meter in height. These machines are suitable for working between rows with protective spacings of approximately 2-10 cm. They can even perform light filling of the rows, as well as the precise application of fertilizers and granules into the consolidated soil. The frame system comes in various cross-sections: 4, 6, 8, or 12 rows, all equipped with the same cultivating elements. There is a variety of frame folding systems from elegantly simple hand folding to hydraulic ones. The compact, forward-set cultivating elements enhance machine precision and significantly reduce transport size. The sway bars are adjustable to maintain precision after wear. Busa™ Rotor row crop cultivators effortlessly operate in both No-till and Minimum-till conditions, effectively managing mulch, intercrops, and volunteer crops with ease.

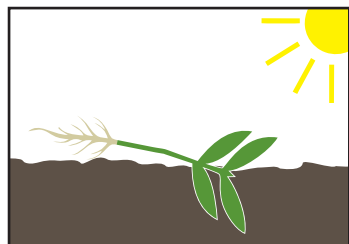
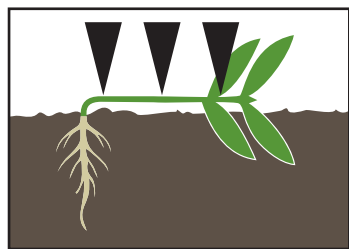
### Camera

Supported by Claas-developed, world-leading camera-guided row steering, our Busa™ Rotor rotary cultivator is capable of exceptional accuracy (with a 4-4 cm protective spacing), operating continuously across three shifts throughout the season with minimal maintenance and oversight.





## Total weeding function



The toppled weeds are crushed, shredded, and pushed underground by closely descending blades. Weeds beneath the surface perish due to a lack of light, while those above ground wither under the sun-dried roots. The shredded, fragmented, and pulled-off weeds die. With rotary tools, you can get closer to the plants faster than ever without causing harm. The hoes move away from the plants, and they can be adjusted to transport soil onto the row or not at all. When equipped with a disc filling adapter, proper weed control and fertilizer coverage are achievable. The hardened forged blades need replacement less frequently (around 1500-2000 hectares for 6 rows), enabling large-scale use and continuous operation. The Busa Rotors perform well in mulch, making organic mintill a feasible system.

## PROFIT

The use of the BUSA™ Rotor rotary hoe interrow cultivator results in increased crop yields due to the preserved extra nutrients from applied fertilizers and weed control, as well as the elimination of surface cracking and conservation of soil moisture. Total weed control can lead to savings in pesticide costs. Reduced row spacing correlates with lower losses, and the use of band spraying reduces pesticide expenses (a 7 cm narrower row spacing saves 10% of the surface). Maintenance and operating costs are reduced by the wear-resistant tools, allowing for long-term, large-scale, three-shift work with the rotary hoe interrow cultivator.



## Green productivity

Busa™ Rotor cultivators revolutionize organic mintill farming. They eliminate the need for non-selective herbicides in pre-seeding termination. A Busa™ Rotor Cultivator effectively cleans the interrows post-seeding, making it suitable for striptill or mintill practices. It minimizes crop loss due to weed overgrowth with narrow safety distances. While there are herbicide-resistant crops, there are none that can resist steel.



# BUSA™ GRÖTSCHL TILLAGE SYSTEM



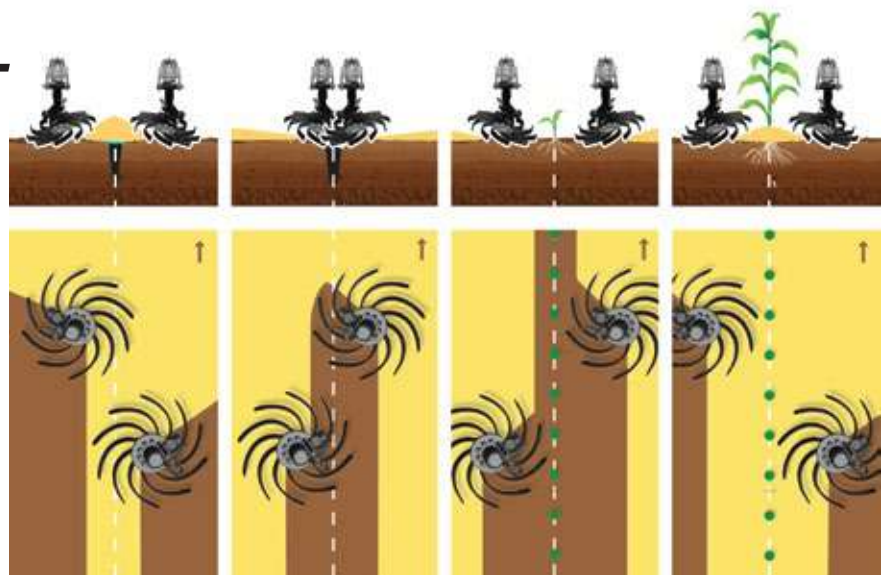
Achieving balanced vapour pressure with evenly covered surface.



Allows for the injection of manure or other fertilizers, and the use of conventional seeder technology due to its multifunctionality.



Maintains root structure for erosion prevention, making it eco-friendly, sustainable, and climate-friendly.



In our innovative "Grö-Till" system, on-site composting promotes natural vapor pressure balance, ensuring excellent soil structure and erosion prevention without pesticides. Strip processing elevates the soil, creating roof-like ridges for the subsequent BUSA™ Rotor to fully and ultra-shallowly shave the soil surface. The rotor prevents material loss, unlike traditional strip-till systems. Depth adjustment ranges from 4 to 35 cm, allowing for manure or mineral fertilizer injection at various heights. These mini-compost ridges expedite soil warming, maintaining root continuity to prevent erosion. Active mulch halts carbon and nutrient release and inhibits unwanted plant germination.

The steam hood guarantees ideal soil structure and moisture retention, even in wet conditions.

During planting, the rotor section can be front-mounted for ridge opening. Rows are cleared of interfering organic matter to accommodate standard seeders. A shallow rotor angle prevents trenching and covers the interrow area, preventing unwanted plant emergence.

## Adjustment options include:

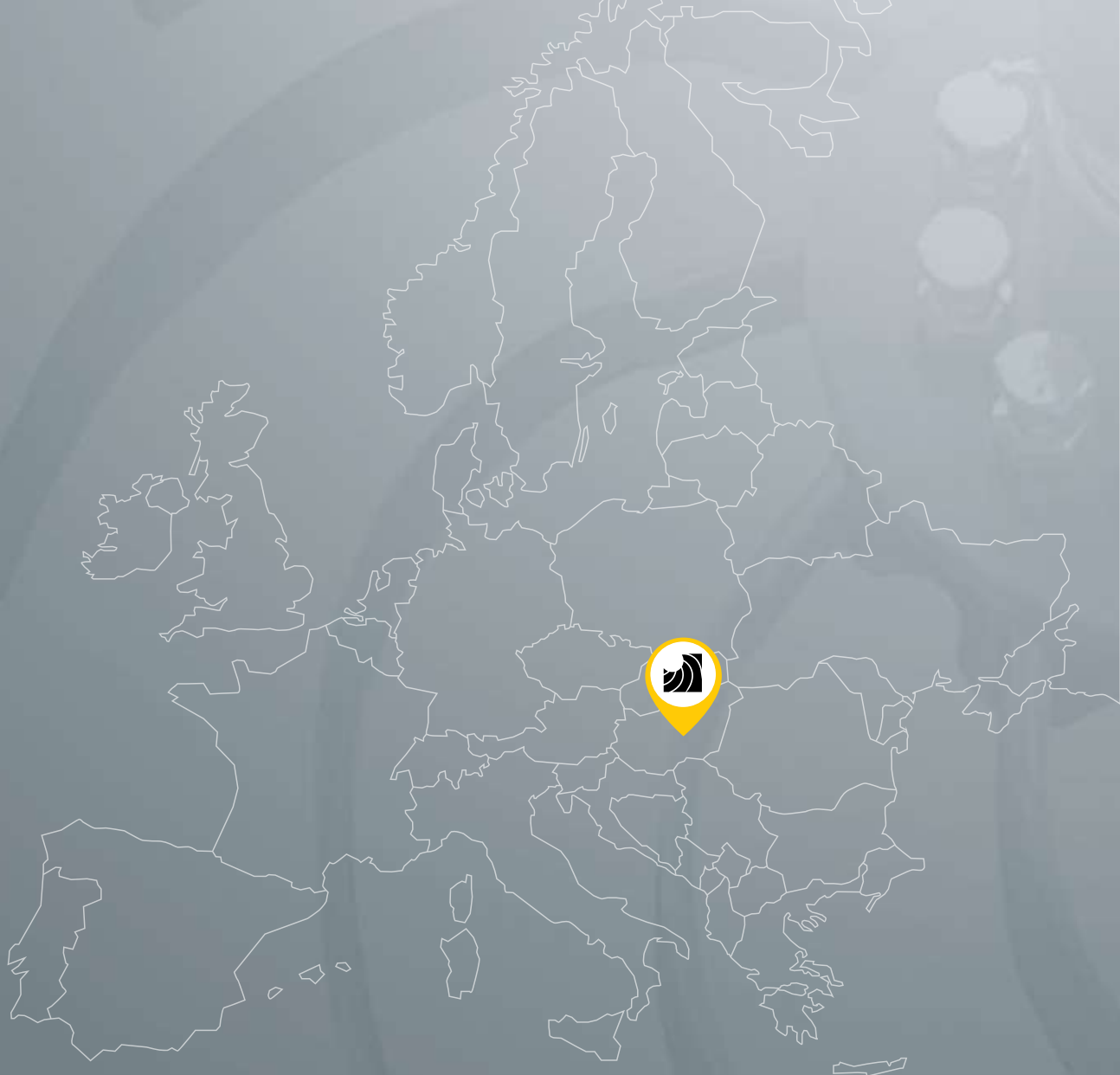
**Standard cultivation using the Busa™ KS row cultivator.**

## Reversing the rotor for row mulching with interrow material.

This method benefits maize by promoting additional crown or support roots and preventing unwanted weed germination. Properly selected cover crops can recover and regrow, serving as undersowing. By excluding pesticides, undersowing in row crops ensures year-round harvest access, minimizes compaction, and effectively prevents road pollution. Green plants, through assimilation, actively enrich the soil with carbon. These eco-friendly methods contribute to sustainable agriculture, reduce carbon emissions, and align with the Farm to Fork strategy.







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