PRODUCTS WITH BUSA ROTOR

Seedbed makers
Row crop cultivators
Plant cultivators
The Goal of the Technology

For profitable production, a good machine is not enough. Good technology is needed, which holds the plant’s needs as a priority. The plant requires water, nutrition, air, light and suitable temperature. In order to secure that, it needs to be sown in a suitable soil, which needs to be maintained throughout the plant’s lifetime.

The ideal soil:
- Moderately rugged, but not dusty surface
- Even surface
- Compressed seedbed base
- Lower layers with air and water traffic

The pinnacle of the technological importance is the row-crop cultivation. This maintains the ideal habitat for the plants, a lot of losses can be decreased by this. However, one wondrous machine is not enough in technology. The success of the steps to be taken later may be improved with the earlier procedures.

Technological Challenges

The condition of a good cultivation is the straight row, with identical row spaces. A curved row is hard to hoe accurately, that is why good sowing is important. The condition of straight sowing is the sowing carts not to be loose, but a grooved seedbed base can drive off the best sowing machine as well. It is hard to open a seedbed on the top of a compressed soil, because the tools are not loosening, but create grooves, not to mention the losses caused by the air and water-compressed soil.

The cultivator may damage the stock if there are large clots under the seedbed in loose soils, which are rolled out by the row-crop cultivator, but this is not the cultivator’s fault, the plants above these clots have a more difficult growth process. The large clots under the surface, the consequences of rolling on a looser soil, instead of crushing the clots it just shoves them under the soil, making the seedbed look good only in aesthetically. Large and hard to crush clots are created by poor primary tillage. The size of the clots are proportional to the depth of cut, their size can be decreased by stubble cleaning before the primary tillage. The stubble cleaning decreases the primary tillage’s loosened layer-thickness, following that the soil humidifies and loosens. If we do not produce unnecessarily large clots, we do not have to crush them later, they do not cause problems.

We give the cultivator an unnecessary challenge by setting the loose row space higher than the stock. A typical reason for this is the sowing without seedbed base. The sowing cart is pushed deeply into the soil, the sowing depth is uneven. The development of the plants will differ greatly within one crop.

The criteria of a profitable farming is the use of a carefully planned technology, like Busa technology.
Busa Rotor PLANT CULTIVATOR

With the help of our rotating hoe weed controller, you can make your orchards, vineyards and other plantations weed-free in a fast and efficient way. The weed control and covering capabilities of the rotating hoe worker tool makes the implement able to eradicate even 100% of the weeds from the soil surface.

A great advantage of the machinery as compared to other cultivators operating with different principles that it is not get clogged. Not even in such extreme situations as the thickly agglomerated chicken weed, bindweed, which would otherwise make the use of rotaries or cultivators impossible. The rotors work with an exceptional leveling function, at the same time they do not build and demolish strips on the edge of the worked lane, as opposed to discs. Since the extreme rotors gather the stems or vines at their rolling point, they do not get stuck even in the case of a possible impact, they do not rip out the plant, the implement does not break apart.

Efficiency

The machine's service speed - as well as its area-performance - exceeds even the disc harrow. Its durability and operational reliability is high, its operational costs are low.

Mountable to the side

By request, the working machinery can be installed with a framework that's mountable to the side, thus it can hoe under lower canopies.

Clogging-free operation

The rotating blades crush the stems of the weeds, strip the leaves off of them, rip their roots and cover them with soil, so the weed will not be capable of growing.

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Work width [m]</th>
<th>Frame type</th>
<th>Required power (Hp)</th>
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Busa Rotor SEEDBED MAKER

The rotary seedbed maker is an innovative seedbed maker and plough finisher, developed and licensed by the founder of our company, Benedek Horváth.

This machinery is capable of performing several functions at the same time, uniting the various sessions of conventional single-task products. Additionally, it outperforms the majority of other machinery at most of these functions.

Due to its outstanding clod breaking ability, this machinery can replace up to four sessions with conventional equipment. The rotary seedbed maker is the perfect solution for mechanical weed control since it covers residues and breaks clods without the risk of clogging. The vertical movement of the tines results in in-depth soil compaction and the soil is properly settled. In most cases one session is enough before sowing on freshly ploughed soil, and the crops will spring up in the optimal seedbed all at the same time.

Thanks to the development of the adjustable rotors, the Busa Rotary Seedbed Maker is suitable for seedbed preparation and soil levelling in the spring, as well as mixing chemicals and chemical fertilizers into top layers of soil.

The Busa Rotary Seedbed Maker is sturdy and it is characterized by great reliability and despite its low maintenance costs crop yield is ensured. Moreover, with the Busa Rotary Seedbed maker increased crop yields are guaranteed. By using this product you will earn premium profits and quick return of the investment.

Wear resistant tools
Forged tools have superb abrasion resistance and strength. Lifespan of tines is ~600 Ha/m, only one spare tine per meter is sufficient.

Spring tool protection
Springs are manufactured applying automotive industry technology to ensure excellent soil surface following and to prevent wear-and tear.

Adjustable rotors
Working depth can be adjusted easily and quickly according to the moist content of the soil. This, clods do not build up from wet layers of soil.

Working depths are the shallowest on flat angular position, during spring works, only the dried upper layers are worked. There are the most blades in the soil at this setup, thus the pressure to one blade is smaller, and in return the layer is worked more thoroughly.

General medium setup for normal circumstances and soil conditions.

Working depths as well as the strain on one blade, are the biggest on a steep angular position, thus, this is the ideal setup for weed control, covering and compression of fresh ploughing.
Cultivator Adapter

For breaking up compact soils with spring-secured, terrain following or rigid, tubular shank hoes.

<table>
<thead>
<tr>
<th>Work width [m]</th>
<th>Frame type</th>
<th>Transport width [m]</th>
<th>Requ. power [Hp]</th>
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<td>Semi-trailed</td>
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<td>Light</td>
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<tr>
<td>4.0</td>
<td>Light</td>
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<td>110</td>
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<td>8.4</td>
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</table>

Optional Finishers

As base equipment, the working machinery is equipped with slat breakers without axles, but can be ordered with double crusher roll, self-cleaning rubber roll, or wedge roll.
Busa Rotor **ROW-CROP CULTIVATOR**

With the help of our row-crop cultivators, you can work the root crop stock in a fast and efficient way, from the rising of the plant up to 1m height. Our machineries are able to work the spaces between the rows, with a ~2-10cm safety distance, for filling, and the joint input of fertilizers and granules. The large cross sectional frameworks are produced in a 4-6-8-12 row edition as well, with the same working units. From the 6 row version they can be ordered with manually backwards foldable frame. The small, front-positioned working units improve the accuracy of the implements and considerably decrease the transportation size. They can be adjusted against the backlash of the balancing arms, to maintain accuracy. By request, the cultivators can be equipped with stainless steel fertilizer-spreader equipment; their dosage may be ordered with either belt- or electronic drive. The traditional working units are available for order as well. (flat feet hoe, side delivery hoe, filler hoe, spring hoe etc.)

### Culti-cam Implement Guidance

Claas-developed, with a world-leading camera machinery guide, the rotating hoe can work with exceptional accuracy (4-4 cm safety distance) in 3 shifts, through the entire season, with minimum maintenance and supervision.

### Protective Disc

With this, the cultivator can be used safely in with small plants as well on heterogenic soil, with productive speed. In case of filler rotor setting, the amount of the transported soil can be precisely regulated, thus the rising weeds can be deadened in the rows of weaker plants as well.

### Rear Steering

The grooved depth-boundary wheels' angles are adjustable, stabilizing the working machinery, and it provides an opportunity to install an optional steering structure as well. With personal supervision, an extremely accurate clear distance can be achieved as well.

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### Technical Specifications

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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of rows</strong></td>
<td>2 - 4 - 6 - 8 - 12</td>
</tr>
<tr>
<td><strong>Fertilizer containers</strong></td>
<td>Big - Bag (1000 kg), Low (2 x 180 kg)</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Rear steering, Large diameter depth boundary wheel, Culti-cam implement guidance, Protective disc</td>
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</table>
Technology
The role of the rotating hoe-spacing worker cultivator is the weed control from the spaces between the lines, the application of nutrients, water management and chemicals management.

Total Weed Control Function
The felled weeds are crushed, cut and pushed under the soil by the frequently cutting blades. The weeds under the surface die out due to lack of sunlight; the roots of the weeds above the soil are dried out by the sun. The cut, crushed, stripped weed dies out.
With the rotating tools, the plant can be approached in closer proximity as ever before, without damaging it. The hoes hoe away from the plant, they can be set to transport soil on the row or not. With a disc charger adapter, professional weed-deadening and fertilizer covering can be achieved.
The tempered and forged blades need to be replaced less often than ever before (in case of 6 rows, after 2000 Ha), allowing large-scale utilization and continuous operation.
With the help of the fertilizer spreader, 50-400 kg granulate can be applied.

Profit
With the use of the rotating hoe-spacing worker cultivator a growth in yields can be achieved by the applied and the retained extra nutrients due to the weed control; by ceasing the surface’s crusting and the retained ground water due to the weed control. Chemical costs may be saved by total weed control. The decreased clear distance results in decreased losses; the spraying in lanes reduces the chemical costs (clear distance smaller by 7 cm gives 10% surface). The maintenance- and operational costs are reduced by the abrasion resistant tools; the rotating hoe-spacing worker cultivator is capable of large scale, three shift work.

Safety
A good hoeing is half the rain, as in the plant's drought-tolerance can be improved, in a given situation the destruction of the crop can be avoided by quickly going through every pane.
Over-spraying may result in the plant's chemical shock, hindering its development, to which it may react with dying, not to mention its costs. This can be avoided!
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WARNING!
Only spare parts with our company's symbol stamped into them are the same quality as the originals. Spare parts without symbols are COUNTERFEITS, their production, acquirement for distribution purposes, keeping and distribution provides for a sentence of imprisonment up to three years by the CrC. In case of conflict of interest, request an immediate POLICE legal intervention!

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