

COMBINED  
CULTIVATOR

**BEDNAR**

## ACTROS RO

Quality soil cultivation  
in one pass.



**JOY**  
OF FARMING



ACTROS RO

## Why the ACTROS?



“The ACTROS RO is an ideal machine for farmers who plant crops that create a large quantity of crop residue, such as corn for grain. Crop residue is cut and mixed with soil in one pass thanks to two rows of discs. The soil is then cultivated in depth by shares and crop residue is incorporated into deeper soil layers. Its design also makes the ACTROS RO usable for the demanding autumn work, such as soil cultivation after harvesting sugar beet.”

Jan Bednář

The ACTROS RO is a robust combined (disc-chisel) machine that is able to cut and process large quantities of crop residue in one pass and mix it with loosened soil up to a depth of 35 cm (ACTIVE-MIX tines) or disrupt soil layers with the ZERO-MIX tines (only undercutting, no mixing).

The machine can work without rear packers, the transport wheels are followed by shares. An ideal solution in difficult conditions.



## Why the ACTROS

### ADVANTAGES THAT BRING SAVINGS

- Excellent cutting and incorporation of crop residue with two rows of **discs, 690 × 6 mm. The largest discs in this category on the market!**
- **Intense soil cultivation up to a depth of 35 cm** with two rows of shares with vertical non-stop protection (**ACTIVE-MIX tines**).
- **Fast and cheap disruption of compacted layers without active soil mixing (ZERO-MIX tines).**
- **The integrated axle** ensures a lower turning radius and allows working without packers. A suitable solution for soil processing in extremely difficult conditions
- **A wide range of optional rear packer equipment for specific soil conditions.**

### TECHNICAL ADVANTAGES

- **Two rows of discs, 690 × 6 mm** – large discs for quality cutting and mixing of crop residue.
- **Massive double-spring vertical non-stop protection** – enables working in a depth of up to 35 cm, even in difficult conditions.
- **Shares with fixed invariable geometry – low tractive resistance.**
- **Various types of chisels or shares – stubble breaking, deep loosening.**
- **Levelling mouldboards or levelling discs with hydraulic setting.**
- **Convenient working depth hydraulic control.**
- **Integrated transport axle.**

### INTEGRATED TRANSPORT AXLE

- **Excellent incorporation of large quantities of crop residue** after harvest.
- **Optional use of ZERO-MIX tines** in dry summer season.
- **More air in soil needed for a better soil climate.**
- **Functional water regime** = increased soil capability to absorb excessive precipitation. Better access of roots to underground moisture.
- **Maintaining soil layers**, mixing only takes place at the top.
- Application of fertilizers and easy crop establishment thanks to the optional connection to **FERTI-BOX** and the **ALFA DRILL** seeding mechanism.

# Why the ACTROS

## EXAMPLE OF WORK DONE BY THE ACTROS



– after harvesting corn for grain



– after harvesting cereal



– after harvesting rapeseed



– after harvesting alfalfa



“The ACTROS RO helped us improve soil structure, it especially eliminated negative soil compaction. I like the machine because it can do several operations in one pass. The disc section cuts the crop residue and mixes it with soil, which speeds up the mineralization process. If we wanted to till the crop residue, it would get to the depth of 20 cm and more where mineralization does not take place. The large distance between the individual discs and tines contributes to a continuous flow of matter through the machine. The chisel sections disrupt soil layers in a quality way. The packer perfectly levels and creates ideal soil structure to let moisture in. We chose the ACTROS RO machine by BEDNAR namely thanks to our excellent experience with the SWIFTER seedbed cultivators we already own.”

Oleksandr Pavlenko, the owner

TOV AF „AGROTEKHOLOGIYA-PLYUS“  
Kirovohrad (Ukraine)



“I have to admit that we are pleasantly surprised by the robustness of the ACTROS RO, its robust frame, large discs, working bodies allow it to work even in the most demanding conditions. We grow 600 hectares of maize and 150 hectares of sunflowers, so the ACTROS RO was the right choice for us.”

Domagoj Bokun, owner of the farm

Agricultural company BOKUN,  
Croatia

# ACTROS RO Important Working Parts



## TWO ROWS OF DISCS WITH A DIAMETER OF 690 mm

The ACTROS is equipped with large, serrated discs in two rows. The discs have a diameter of 690 mm and a thickness of 6 mm. These parameters guarantee excellent work in higher quantities of crop residue, in heavier or dry soils.

## DISCS WITH A SPACING OF 42 cm



The discs are 42 cm apart and they work at an angle of 11° (front) and 9° (rear).

This design guarantees a very good cutting ability and also excellent throughput of material through the machine.

## ROBUST DISC BEARINGS



The bearings are attached to the disc with 6 screws. Their oversizing guarantees trouble-free operation.

## ROBUST VERTICAL DOUBLE-SPRING NON-STOP SHARE PROTECTION

Solid tines are protected against overload with a double-spring, vertical, maintenance-free non-stop protection. The springs are loaded to resistance starting at 450 kg, maximum 700 kg, which ensures a constant geometry of tines, even in extremely dry soils.



## ACTIVE-MIX TINES

ACTIVE-MIX tines provide a highly intensive mixing effect, important for maximal incorporation of crop residue.

ACTIVE-Mix tines can be easily switched for ZERO-MIX, and vice versa.



## ZERO-MIX TINES

ZERO-MIX tines have a zero-mixing effect. They are especially useful in summer soil cultivation when it is essential to maintain soil moisture for the next crop.

ZERO-Mix tines can be easily switched for ACTIVE-MIX, and vice versa.

# ACTROS RO Important Working Parts



## LONG LIFE CHISELS

The reinforced LONG LIFE chisels with an extended service life are fitted with carbide points and increased protection in the bottom part and around the bolts. The durability of such chisels is multiple times longer, namely in abrasive soils. The time spent replacing chisels can be thus used more efficiently.

LONG LIFE chisels for your comfort and overall lower costs.

Size: 40 mm and 80 mm



## MEDIUM-DEPTH STUBBLE CULTIVATION – WORKING DEPTH OF 10–20 cm



### MULCH CHISELS WITH WINGS

The chisel (60 or 80 mm) can be equipped with wings that perfectly loosen soil at medium depth levels and mixes it evenly with crop residue. The wings increase the mixing effect and undercut soil along the entire machine width.

## DEEP LOOSENING – WORKING DEPTH OF 20–35 cm



### MULCH CHISELS WITH MOULDBOARD

Suitable for intense deep loosening of the entire profile for fast and cheap restoration of soil structure. The combination of the chisel (60 or 80 mm) and mouldboard creates a high mixing effect at low resistance of the machine against soil.

## SPRING LEVELLING SECTION



The basic ACTROS equipment includes spring levelling section that level the soil after shares. Suitable mainly for lighter soils.

## LEVELLING DISC SECTION

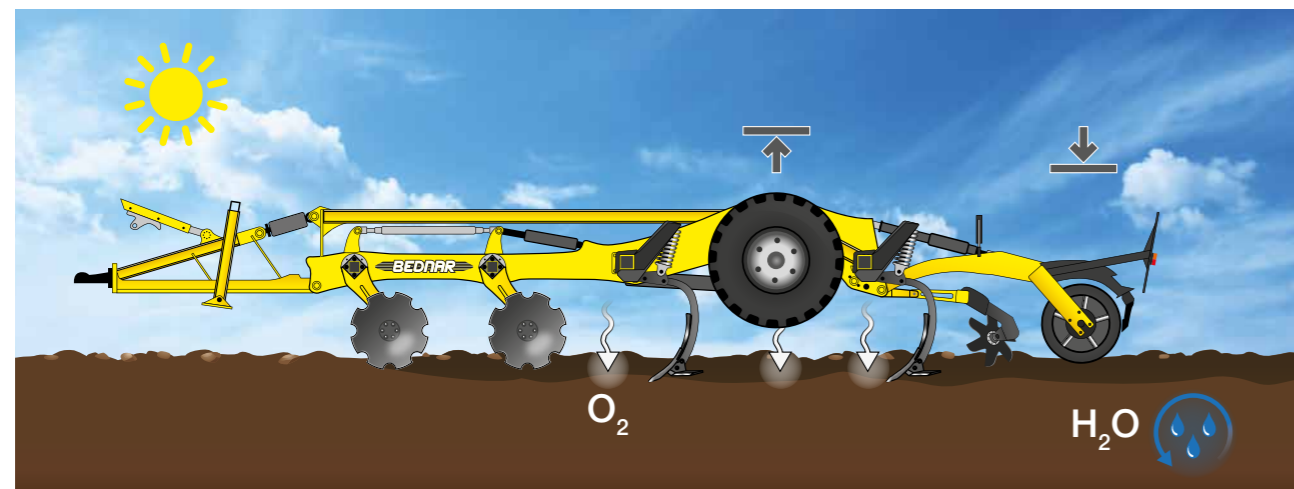


ACTROS can be equipped with levelling disc section with a diameter of 460 mm. The discs level soil after the working shares and before the rear packers. The field is perfectly levelled. Suitable mainly for heavier soils.

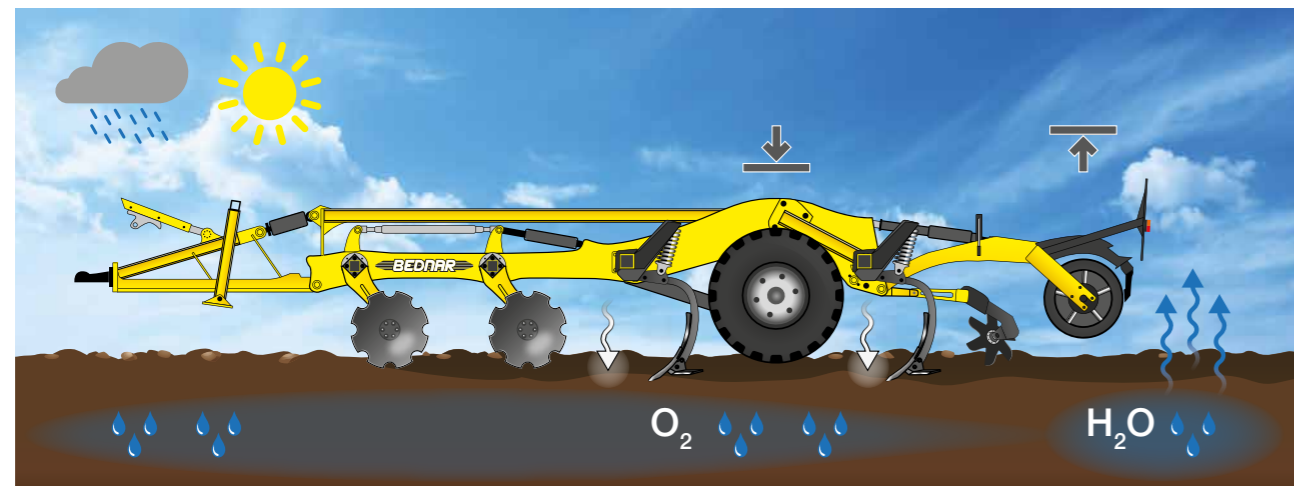
# ACTROS RO Important Working Parts

## THE ACTROS EASILY DEALS WITH WATERLOGGED FIELDS

If you have not managed to cultivate soil before torrential rains and your fields are not waterlogged, you can start working with ACTROS. This usually happens in the summer when there is not enough time and the agronomic deadlines for planting winter crop are approaching. The hydraulically controlled ACTROS allows to respond to waterlogged soil immediately by lifting the rear packers (risk of blockage), the machine works on the axle, and it can also loosen the waterlogged part of the field, which significantly accelerates drying out of the problematic part. When the waterlogged part is done, the rear packers can be put back into operation right away and the field is finished with soil consolidation.



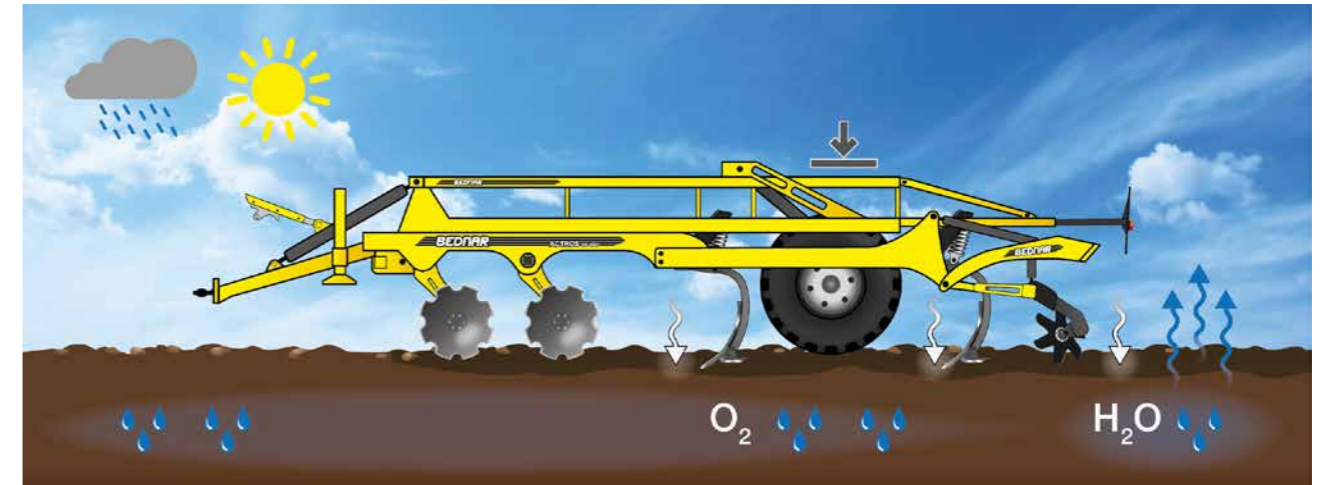
Loosening with compaction (driving on rollers)



Loosening with raised packers = faster drying (driving on the axle on waterlogged ground)

## WORK IN EXTREME CONDITIONS THANKS TO THE INTEGRATED AXLE

The integrated axle mounted between the working tines enables the machine to work without the rear packer (more tines work after the transport wheels). When it is wet, the packers can be easily deactivated, and soil is cultivated without compaction. This advantage can also be used when preparing soil for winter, when it is usually not required or recommended to compact the soil. Another advantage of the integrated axle lies in the increased manoeuvrability of the machine when turning at headlands; the turning radius is smaller.



Loosening without rollers = faster drying (driving on the axle in waterlogged soil)

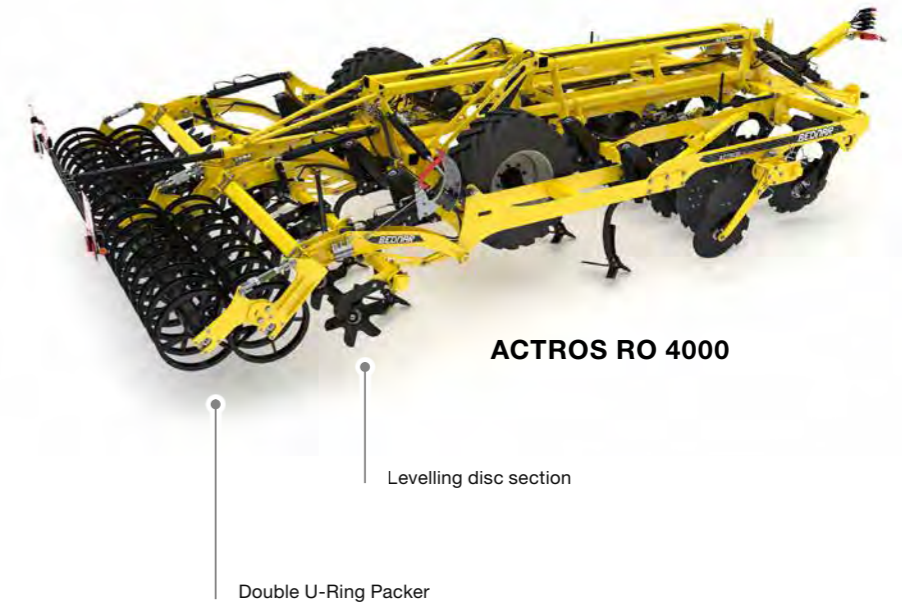
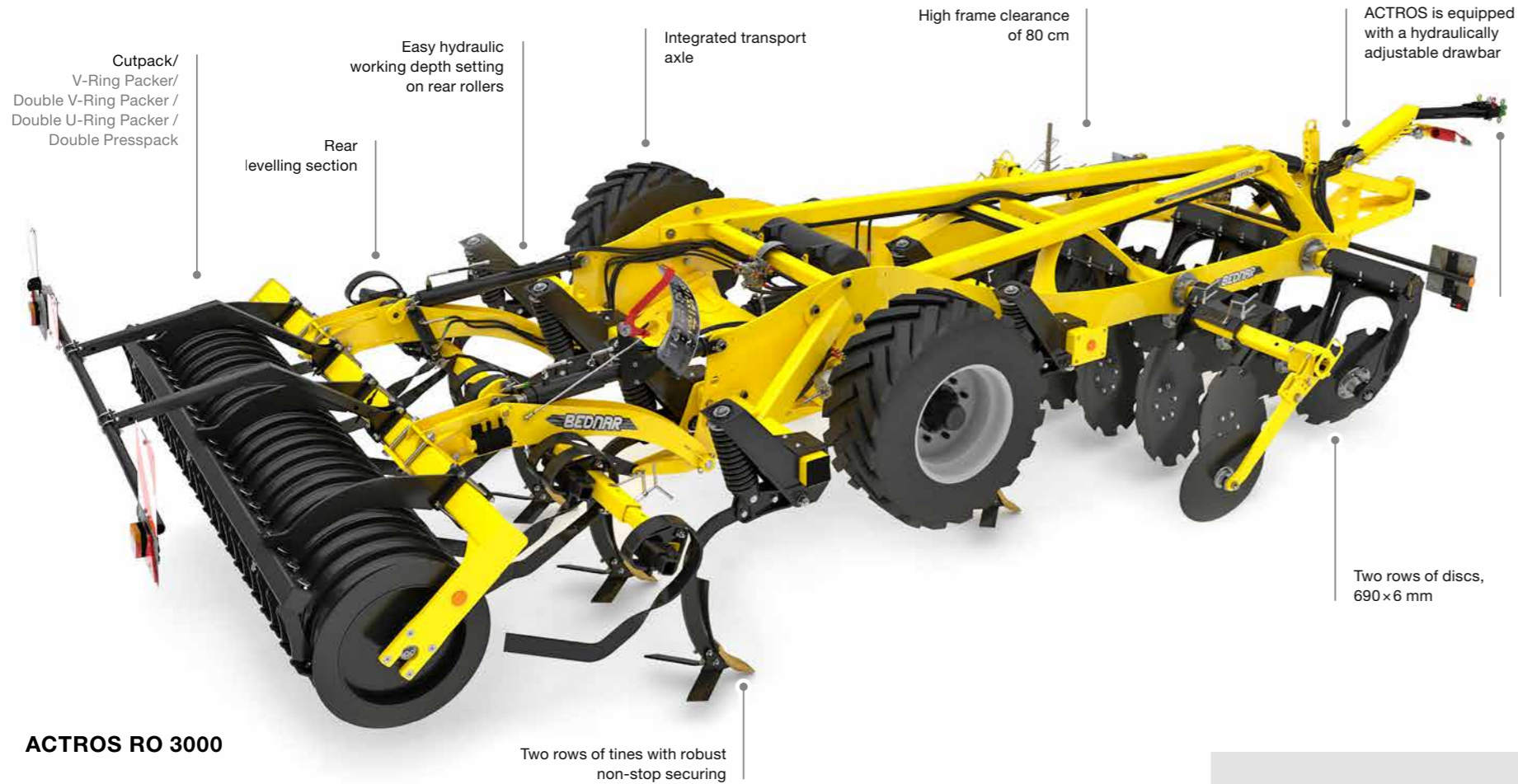


“In addition to traditional tillage, we also wanted to try minimization soil cultivation. We first tested the ACTROS RO cultivator in our conditions and we kept the machine after its demonstration. Since our soils are heavy, machine robustness and quality of work were important to us. The ACTROS RO manages three operations in one pass. I am very pleased with the machine, as well as with the seedbed cultivator and chisel plough by BEDNAR at the farm.”

Sándor Németh, the owner

Gemini Kft.  
Jász-Nagykun-Szolnok megye, Kisújszállás (Hungary)

# ACTROS RO



## HYDRAULIC DISC WORKING DEPTH SETTING INCLUDED IN THE BASIC EQUIPMENT



The disc working depth is set hydraulically using hydraulic clips.

## HYDRAULIC SHARE WORKING DEPTH SETTING INCLUDED IN THE BASIC EQUIPMENT



The share working depth is set hydraulically using hydraulic clips on the rear rollers.

## ACTROS RO

		RO 3000	RO 4000	RO 4000 R
Working width	m	3.0	3.8	3.8
Transport width	m	3	3	4
Transport length	m	8.5	9.7	9.2
Number of discs	pcs	14	18	18
Disc spacing	cm	42.5	42.5	42.5
Working depth of discs	cm	6–18	6–18	6–18
Number of shares	pcs	7	9	9
Share spacing	cm	43	43	43
Working depth	cm	5–35	5–35	5–35
Total weight**	kg	5770	8780	6740
Recommended output *	HP	180–300	200–370	200–370

\* depends on soil conditions \*\* weight with double U-ring rollers



# Packers and Rollers

V-Ring Packer **1**



A heavy steel packer for all types of soil for intense crumbling and reverse compaction.  
weight: 169 kg/m (including the scraper system)  
diameter: 630 mm

Double V-Ring Packer **2**



A heavy double-row steel packer with self-cleaning effect for intense crumbling and reverse compaction. The V-shaped tyres guarantee low soil adhesion and excellent crumbling.  
weight: 162 kg/m  
diameter: 630 mm

Double U-Ring Packer **3**



A double-row steel packer with a self-cleaning effect, excellent crumbling and low stickiness thanks to the U-shaped ring.  
weight: 185 kg/m  
diameter: 600 mm

Cutpack **4**



A very heavy steel packer for all types of soil for intense crumbling and reverse compaction.  
weight: 222 kg/m (including the scraper system)  
diameter: 630 mm

Double Presspack **5**



A heavy steel packer consisting of two rows of steel rings with self-cleaning effect. The packer creates an ideal profile to minimize evaporation of soil moisture.  
weight: 310 kg/m  
diameter: 630 mm



# I did my best, for maximum yield this year

## soil cultivation



**SWIFTERDISC**  
Disc Cultivators



**ATLAS**  
Disc Cultivators



**FENIX**  
Versatile Cultivators



**VERSATILL**  
Versatile Cultivators



**SWIFTER**  
Seedbed Cultivators



**KATOR**  
Rotary Harrow



**TERRALAND**  
Chisel Plough



**ACTROS**  
Combined Cultivator



**PRESSPACK**  
Trailed Packers

## seeding and fertilizing



**OMEGA**  
Seed Drills



**ALFA DRILL**  
Seeding Unit



**COMBO SYSTEM**  
Double-Chamber Storage



**FERTI-BOX**  
Hopper for Fertilizer

## inter-row/line cultivation mulching



**ROW-MASTER**  
Inter-row Cultivator



**STRIP-MASTER**  
Line cultivator



**STRIEGEL-PRO**  
Harrows



**MULCHER**  
Rotary Cutters

**BEDNAR FMT, s. r. o.**  
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\* M A O O \*

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