

ROTARY HOE

**BEDNAR**

## ROTO-MASTER RMN

Gentle and efficient mechanical cultivation in one pass



**JOY** OF FARMING





ROTO-MASTER RMN 12400

## Why ROTO-MASTER RMN?



**“Our many years of experience with the ROW-MASTER row cultivation machines for wide-row crops led us to develop a machine for full-field mechanical cultivation. The ROTO-MASTER RMN rotary hoe responds to the requirements and changes in legislation. The new demands of society, the pressure to reduce chemical plant protection products and the decline of the products themselves require new agrotechnical solutions. The ROTO-MASTER RMN is a versatile rotary hoe that finds application in the treatment of narrow-row crops such as cereals, but can also be used for row crops with an easy conversion.”**

**Jan Bednář**

**The ROTO-MASTER RMN rotary hoe is a versatile machine that can be used in both organic and conventional farming. It can be used for a wide range of crops, both narrow and wide row. At a time when intense climatic events are becoming increasingly common, the rotary hoe is the ideal machine for every modern farm.**

ROTO-MASTER RMN can break the soil crust after bad weather or stop capillary rise, thus preserving soil

moisture in case of drought. In view of the reduction in available crop protection products, the rotary hoe can also be used for mechanical weed control.

The ROTO-MASTER RMN rotary hoe range includes three models with working widths from 6 to 12.4 m. The rotary hoe stands on a robust frame that allows the machine to reach high working speeds of up to 30 km/h, regardless of the condition of the land.





ROTO-MASTER RMN 12400

## Why ROTO-MASTER RMN?

### TECHNICAL ADVANTAGES

- The offset arrangement of the rotating stars is an interesting design solution that guarantees high machine throughput and excellent terrain countouring.
- The support wheels of the side frames allow excellent guidance of the machine through the terrain and retain the set working depth. The support wheels are mechanically adjustable for height and wheel track offers adjustment to the crop spacing.
- The high frame clearance of 60 cm guarantees excellent machine clearance even through mature vegetation, or allows cultivation of crops even at a later stage of growth (e.g. maize, sunflower or winter rape).
- Adjustable spacing of cultivation units for full or row cultivation (80/75/70 and 50 cm).
- Low maintenance costs thanks to replaceable star tips. High-quality star bearings with plain bushes guarantee a long service life.

### AGRONOMIC ADVANTAGES

- Disturbing and breaking up the soil patch means more air for the vegetation to continue growing without problems.
- Mechanical control of weeds during the growing season represents a reduction in the cost of chemical plant protection.
- Creating an insulating layer in dry periods. Soil moisture stays with the root system. Weeding reduces evaporation.
- Promoting species and biodiversity, reducing the risk of contamination of surface and subsurface waters by chemical plant protection products.
- Early incorporation of mineral fertilisers into the soil after application ensures faster decomposition and eliminates nutrient leakage.
- Increased infiltration of rainfall into the soil due to puncturing and the formation of grooves on the soil surface.
- Promoting tillering and growth, especially of cereals.

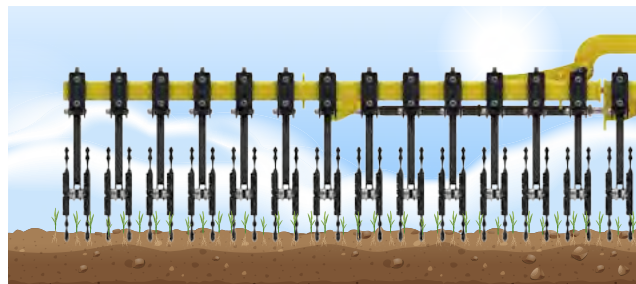


# VARIABILITY OF USE AND NEW AGRONOMIC POSSIBILITIES

To make your investment in a rotary hoe worthwhile, we have designed this machine with variable use throughout the year in mind. By easily converting the cultivation units, the rotary hoe can be converted from full-field cultivator to a row cultivator for row crops (e.g. maize, sugar beet, sunflower, etc.).

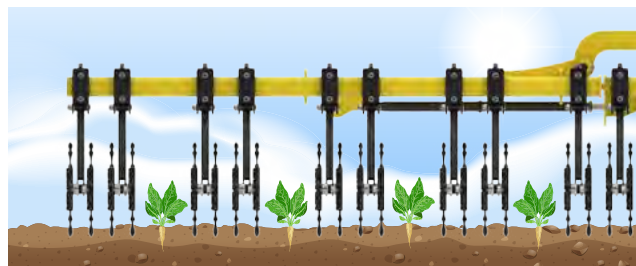
## FLAT CULTIVATION – STAR SPACING 10,5 CM

(demonstration of work in winter wheat)



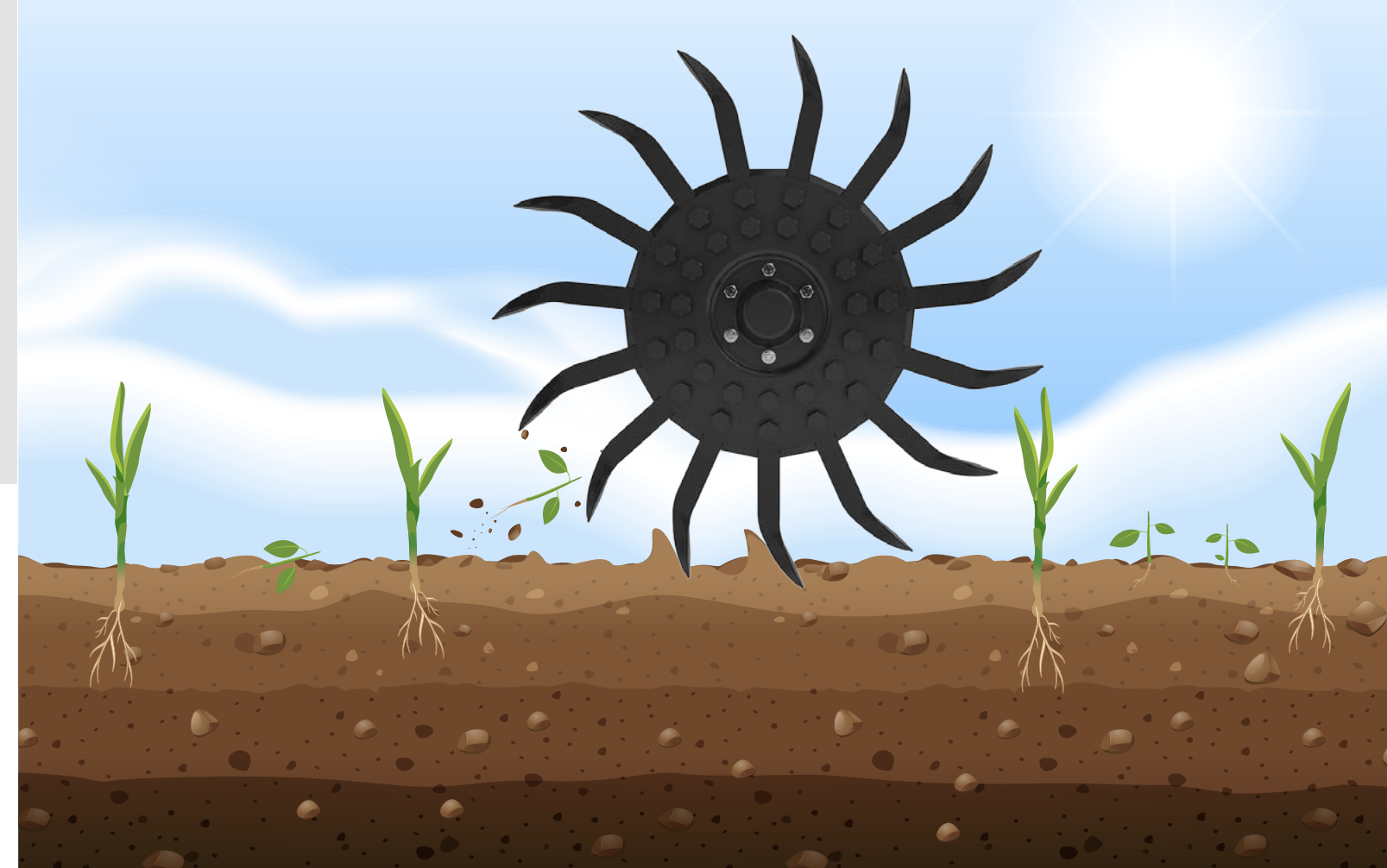
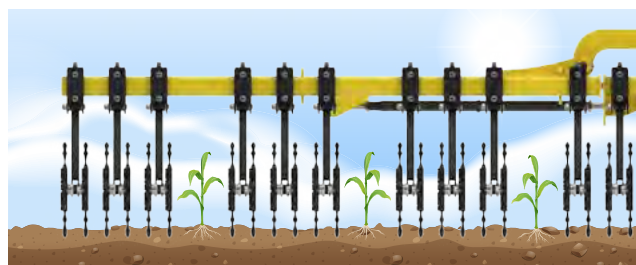
## ROW CULTIVATION – ROW SPACING 50 CM

(demonstration of work in sugar beet)



## ROW CULTIVATION – ROW SPACING 70/75/80 CM

(demonstration of work in corn)



## MAXIMUM EFFICIENCY AND CROP FRIENDLINESS

Mechanical cultivation must be very gentle so as not to damage the cash crop. In particular, weeding works on the principle of removing shallow-rooting weeds from deep-rooting crops. The specially designed star tip with arrowhead ensures trouble-free penetration into the soil even in dry conditions. The tip pulls out the weeds and leaves them on the soil surface. The weeds dry out.

The individual rotary stars are suspended from an arm that allows the two stars to move independently of each other. The design helps to follow the uneven terrain and guarantees a maximum weeding effect.





# Important working tools



## ROBUST FRAME

The support frame of the ROTO-MASTER RMN rotary hoe is made of 150 x 100 mm profiles. The high robustness of the machine allows working at high working speeds (up to a maximum of 30 km/h).



## SUPPORT WHEELS

The machine comes with 205/65-10 wheels for excellent off-road handling. The RMN 6000 and 9000 models have two support wheels. The largest model, the RMN 12400, is equipped with four support wheels. Each support wheel is equipped with a scraper to prevent dirt from sticking. The height of the support wheels is mechanically adjustable. The gauge are adjusted mechanically depending on the row spacing of the crop to be treated.



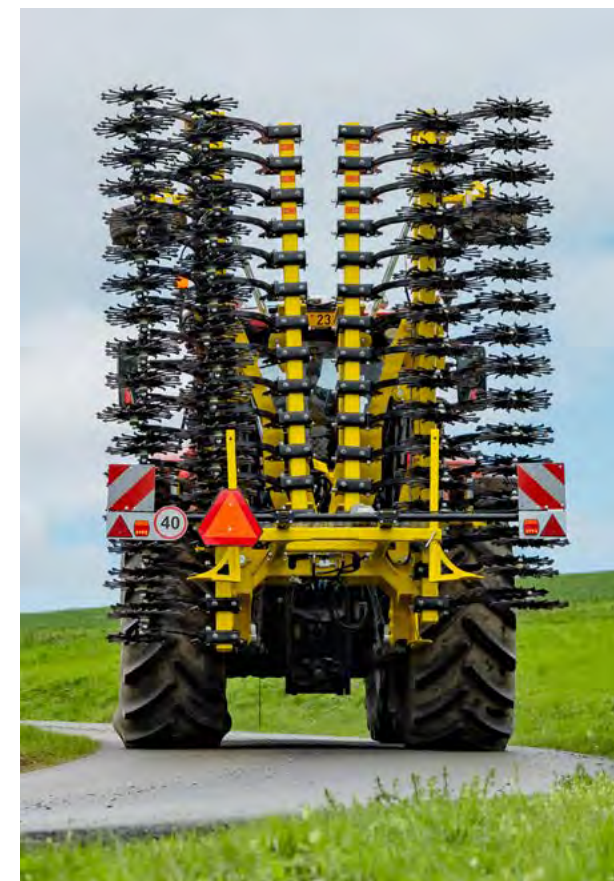
## CULTIVATION UNIT

The cultivation unit consists of an arm and two rotating stars with offset arrangement (star spacing 10.5 cm / arm spacing 21 cm). Each arm is attached to the support frame by a stirrup. The arm is secured by a coil spring. The 480 mm diameter rotating star is fitted with 16 interchangeable tines. The cultivation unit guarantees soil processing up to 4 cm with a pressure of 30 kg/star.



## TRACTOR PROTECTIVE COVER

A protective cover is located in the centre of the machine to prevent damage to the tractor, for example by flying stones or soil. This is a basic equipment of the machine.



## HYDRAULICALLY FOLDING FRAME

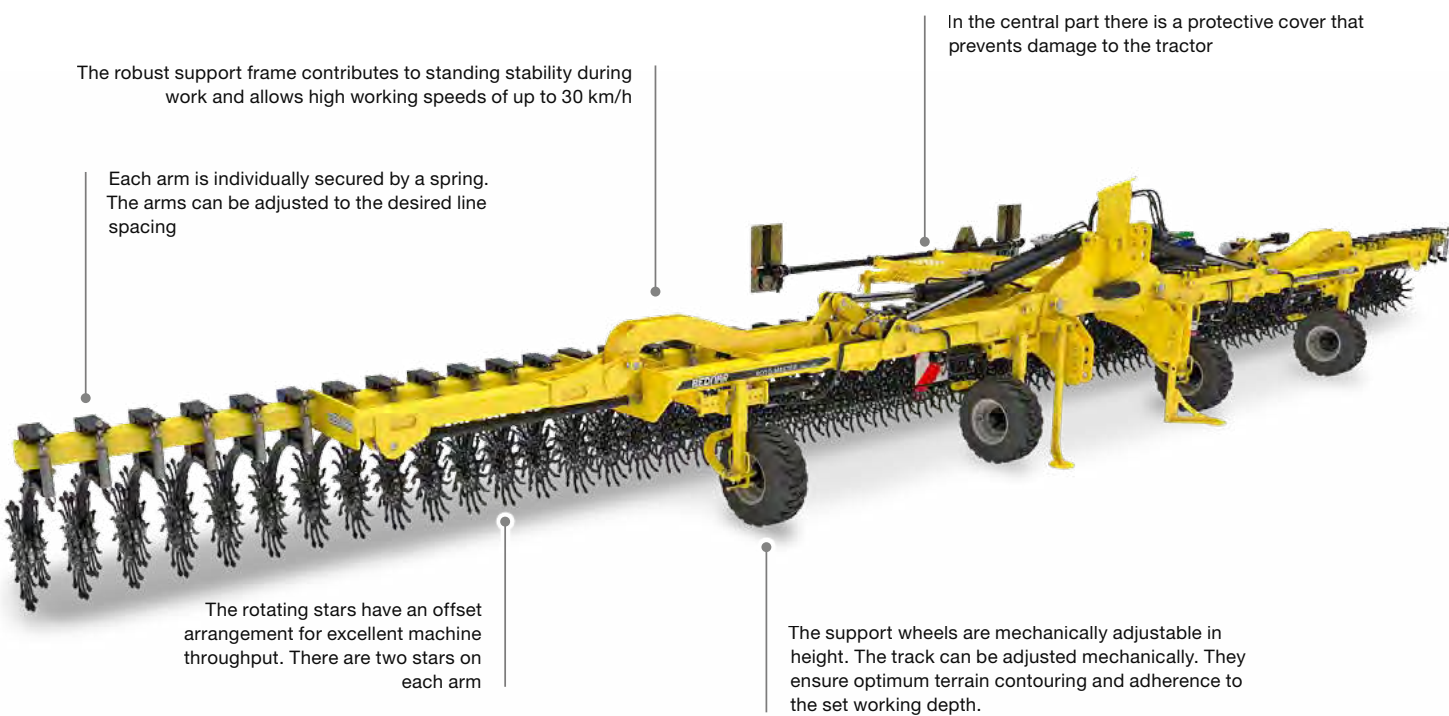
The ROTO-MASTER RMN rotary hoe meets all requirements for safe transport of the machine on roads. The machine does not exceed the permitted dimensions of a transport width of 3 m and a transport height of 4 m. Transport LED lighting is available as an option for the machine.

- RMN 6000 – two frame sections
- RMN 9000 – three frame sections
- RMN 12400 – four frame sections



Important working tools

ALFA DRILL



ROTO-MASTER RMN

		RMN 6000	RMN 9000	RMN 12400
Working width	m	6	9	12,4
Transport width	m	3	3	3
Transport length	m	2,2	2,2	2,2
Transport height	m	3,2	3,6	3,6
Number of rotating stars	pcs	58	86	118
Spacing of star wheels/units	cm	10,5/21	10,5/21	10,5/21
Max. working depth*	cm	4	4	4
Frame height	cm	60	60	60
Recommended tractor power*	HP	90–110	110–160	160–200
Frame type		folding	folding	folding
Recommended tractor power**	kg	2041	3219	3701

\* depending on soil conditions    \*\* depending on machine equipment

**ALFA DRILL is a seeder for seeding small seeds, catch crops and microgranulate application.** It can be mounted on various types of BEDNAR machines for tillage and seeding. The powerful hydraulically driven fan ensures trouble-free distribution even on wide-ranging machines.

The mounting of the ALFA DRILL seeder on the ROTO-MASTER RMN rotary hoe offers the possibility of applying microgranulate or small-seeded crops in one pass with simultaneous extra shallow soil cultivation. The combination of two working operations in one pass saves time and costs.

ISOBUS CONTROL

Easy connection of the seeder to the ISOBUS socket of the tractor. One ISOBUS tractor monitor replaces the many different monitors specific to the trailed machines aggregated with the tractor.

# I did my best for maximum yield this year

## Tillage



**SWIFTERDISC**  
Compact Disc Harrows



**ATLAS**  
Compact Disc Harrows



**FENIX**  
Arm Cultivators



**VERSATILL**  
Arm Cultivators



**SWIFTER**  
Seedbed Cultivators



**KATOR**  
Power Harrows



**TERRALAND**  
Chisel Ploughs



**ACTROS**  
Combination Cultivators



**GALAXY**  
Rollers

## Seeding and Fertilising



**OMEGA**  
Seed Drills



**MATADOR**  
Strip-till Seed Drills



**DIRECTO**  
No-till Seed Drills



**FERTI-BOX**  
Hoppers for Fertiliser

## Row Crop Cultivation / Strip Tillage Mulching



**ROW-MASTER**  
Row Crop Cultivators



**STRIP-MASTER**  
Strip-Till Cultivators



**STRIEGEL-PRO**  
Straw Harrows



**MULCHER**  
Rotary Mowers

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and Innovations for Competitiveness



\* M A O O O \*

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