

ROTOCARE V
Folding rotary hoes

 **PÖTTINGER**

Multi-role crop care expert



Mechanical crop care



The RTOCARE rotary hoe conserves the crop and is row-independent while delivering maximum output and low wear. In addition to its advantages in mechanical weed control, the machine is equipped for a wide range of other applications. For instance, breaking up the surface of the soil, incorporating fertiliser, planting a companion crop or applying micro-granules, and also for shallow stubble cultivation. Setting up is quick and straightforward.

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All information on technical data, dimensions, weights, output, etc. and the images shown, are approximate and are not binding. The machines shown do not feature country-specific equipment and may include equipment that is not supplied as standard, or is not available in all regions. Your PÖTTINGER dealership would be pleased to provide you with more information.

Successful mechanical weed control



Plant protection is evolving

For decades, increasing yields have been ensured by using chemical crop protection. However, with increasing use, the resistance of harmful organisms also increases, meaning that the effectiveness of plant protection products is stagnating. Fewer permits are being issued for plant protection products with new active ingredients. Furthermore, consumer acceptance of chemical pesticides is declining, and new health and environmental goals require a sharp reduction in their usage.

PÖTTINGER accepts these challenges and now includes mechanical crop care machines in its product range for sustainable, crop-specific and site-specific plant protection.

Objectives of mechanical weed control:

A key objective of mechanical crop care is to promote the growth of the crop. To achieve this, competition from weeds and grasses must be kept to a minimum. A high density of weeds cause:

- Reduction in yield, or even a failed crop
- Contaminated crop or seed
- Difficult, cost-intensive harvesting conditions

By using our crop care machines, it is possible to avoid higher production and follow-up costs.

Mechanical crop care



Crop cultivation factors

Successful mechanical weed control depends on several factors. The crop, weeds, soil, weather, and the equipment parameters all play an important role.

- A healthy and vital crop depends on the most suitable sowing time, the quality of the seed and the best seed drill technology for the plant. The intensity and timing of the crop care depend largely on how far the crop has developed.
- The type of weeds and their propagation determine the choice of the right crop care machine. The settings of the weeding tools must be adapted to the type and size of weeds.

Key location factors

Mechanical crop care machines need to be set up to perfectly match the location-specific conditions.

- The soil conditions include soil type, soil state and soil moisture. This influences the intensity and timing of the crop care measures. The quantity of stones in the soil and preceding tillage passes determine the tool settings.
- The time frame must also be adapted to parameters that cannot be changed. This includes weather conditions such as ambient temperature, soil temperature, precipitation, direct sunlight and wind.

Successful mechanical weed control



For a healthy crop

In cereal crops, minor damage to the plant can promote tillering. Mechanical cultivation of the topsoil leads to better nutrient availability. The working results of the crop care machines give the crop a growth advantage over the weeds.

Targeted mechanical plant protection can reduce the use of chemical plant protection products (PPPs) and, in ideal cases, replace them entirely. The combination of mechanical and chemical plant protection can improve the effectiveness of existing PPP processes.

Integrated crop protection saves PPPs and prevents PPPs from entering surface water and groundwater. The variety of species and biodiversity are then preserved and promoted.

Positive effects on the soil

The positive side effects of mechanical crop care are reflected in the soil. Heavily encrusted soils can be broken up. This promotes quality tilth and thus improves the drainage capacity of the soil. Aeration of the soil ensures a higher activity of microorganisms, which promote the build-up of humus.

Versatile applications in different crops

The QR code takes you to a list of weed control measures for various crops and suitable application time windows.

This QR code takes you directly to the application.





Adjustable ROTO CARE parameters

Settings on the machine can be adjusted to handle different operating conditions. Optimum ground tracking is ensured using depth control wheels and setting the lower linkage on the tractor to the floating position.

The position of the top link regulates the working intensity by adjusting the pressure on the rotary hoe stars. The driving speed determines the aggressiveness of the process.

Working effects of mechanical weed control

Different working effects can be achieved using ROTO CARE.

- Breaking up incrustations: The rotary hoe pierces the soil surface to produce a crumbling effect. This aerates the soil, improves drainage and promotes nutrient mineralisation.
- Uprooting, exposing, sweeping: The weeds are pulled out of the soil with their root system and deposited on the surface where they are left to dry out.
- Overturning: The weeds are completely covered with soil. Photosynthesis is prevented by the lack of sunlight so that the weeds perish.

Folding rotary hoes





Impressive working results



Optimum ground tracking

Because each rotary star is mounted individually on a 8.5 mm spring, the machine can adapt to uneven terrain. The RTOCARE rotary hoe offers excellent reliability because each rotary star is able to ride up over any obstacle. Thanks to the depth control wheels being mounted close to the frame, the machine tracks the ground perfectly. The wheels are height-adjustable using lock pins and can be adapted to the position of the top link.

Perfect weeding tools

Wear-resistant, self-sharpening spoon points with a width of 18 mm ensure an even, clean and tidy working pattern. The optimum working angle protects the crop but pulls out fine weeds. The soil is moved to a maximum depth of 40 mm. The forged arms are mounted on precision-fit bushings to ensure that the star spacing of 89 mm is consistently maintained.

Crop care in action

The row-independent rotary hoe stars sweep weeds in the white thread, germination and 1-leaf stage out of the soil and deposit them on the surface. The rolling effect protects the crop and minimises plant losses. The driving speed determines the aggressiveness of the treatment; the higher the speed, the lower the actual working depth and the gentler the process.



User friendly operation

Straightforward configuration and simple technology make the rotary hoe easy to use. Adjusting the machine is easy and not complicated, and because there are only a few settings, sources of error are reduced. During operation, the tractor's lower linkage is allowed to sway freely while the hitch is set to the floating position for optimum ground tracking.

Wide range of applications

"Our first impression of RTOCARE has been very positive. During the first season, we have already covered around 200 hectares. Among other things, manure from the barn and chicken sheds was incorporated. Before reseeding the pumpkin crop, we loosened the rain-hard soil to avoid having to use primary tillage again.

We really like the maintenance-free and simple operation of the machine. The substantial weight of the machine also greatly benefits the rotary hoe process. Despite its weight, the machine can still be operated using our 110 hp tractor. We definitely recommend the RTOCARE, because its range of uses is much wider compared to a conventional tine harrow. Being able to drive at high speed means that it achieves a very high output."

Thomas Hagenauer
Farmer
Dobersberg im Waldviertel | Austria

Flexible in operation



Multiple deployment capabilities

In addition to weed management, the ROTOCARE can also be deployed for numerous other applications. The rotary hoe is also suitable for breaking up encrusted soil, incorporating fertiliser, applying various seed materials, and shallow stubble cultivation. The wide range of applications increases the flexibility of the machine as well as its utilisation.

Suitable for almost all crops

The rotary hoe can be used to cultivate row crops such as maize or soybeans as well as broad and narrow seeds such as cereals where a row-independent process is needed. The intensity must be adapted to the stage of development of the crop. The better established the crop, the more aggressive the working method that can be chosen.

No problems in organic residues

The high under-frame clearance of 500 mm ensures maximum reliability. When used after harvesting, high volumes of organic matter are no problem for the rotary hoe. Clogging of the machine is avoided by the single row configuration of the rotary hoe stars with an offset of 105 mm.

Thanks to the underframe clearance and its gentle operation, the ROTOCARE can also be used in well-developed crops, such as maize plants up to 30 cm high or oil seed rape up to 20 cm in height.



Maximum output

All RTOCARE machines have a multiple segment frame structure. The 6.6 m and 8 m machines are in three parts, while the 12.4 m machines have a five-segment folding system. The outer folding cylinders are integrated into the frame so they are protected from damage and dirt ingress. The outer segments can be folded inwards during operation if needed. Overlaps can be reduced as a result.

High driving speeds

The RTOCARE's effective driving speed range is between 10 and 30 kph. The driving speed needs to be adapted to the operating conditions.

TEGOSEM hopper

With the flexible TEGOSEM hopper, soil cultivation and sowing a cover crop can be handled in a single pass. Micro-granules or a companion crop can be applied at the same time, saving time and money.

The TEGOSEM hopper is mounted on the main frame of the RTOCARE rotary hoe with working widths of 6.6 and 8 metres. A loading platform ensures safe filling of the 200 or 500 litre hopper.

Advantages of the TEGOSEM hopper:

- Crop care and sowing in a single pass
- Rapid and cost-effective application of micro-granules or sowing a cover crop or companion crop
- Deposited behind the airborne flow of soil, which subsequently covers the material with soil
- Loading platform with handrail for convenient and safe filling

Maximum efficiency



Low pulling power requirement

Only a low pulling power requirement is needed thanks to the rolling action of the 540 mm rotary hoe stars. Each of the rotary hoe stars is mounted on precision bush bearings to ensure good friction-free operation. This effectively saves fuel while maintaining a high output.

Lower servicing costs

Because they are each mounted individually on sealed bearings, the stars can be replaced separately. Low maintenance costs and minimum downtimes are the result.

Designed for high output

The solid 180 x 180 mm frame construction with a wall thickness between 5 and 8 mm is designed for maximum durability. When unfolded, the segments interlock for the highest possible strength.

On the 12.4 m machine, torsion-resistant folding segments make a significant contribution to ensuring the maximum service life. The folding cylinders are integrated into the frame to protect them from dust.

A stone guard is provided as standard to protect the tractor from any material that is ejected.



Enormous output

With working speeds of 10 to 30 kph and working widths of 6.6 m to 12.4 m, maximum output is achieved in a short time. The ROTO CARE machines are engineered for high productivity. This allows you to make the most of short, optimal time windows for mechanical weed control.

Maximum reliability

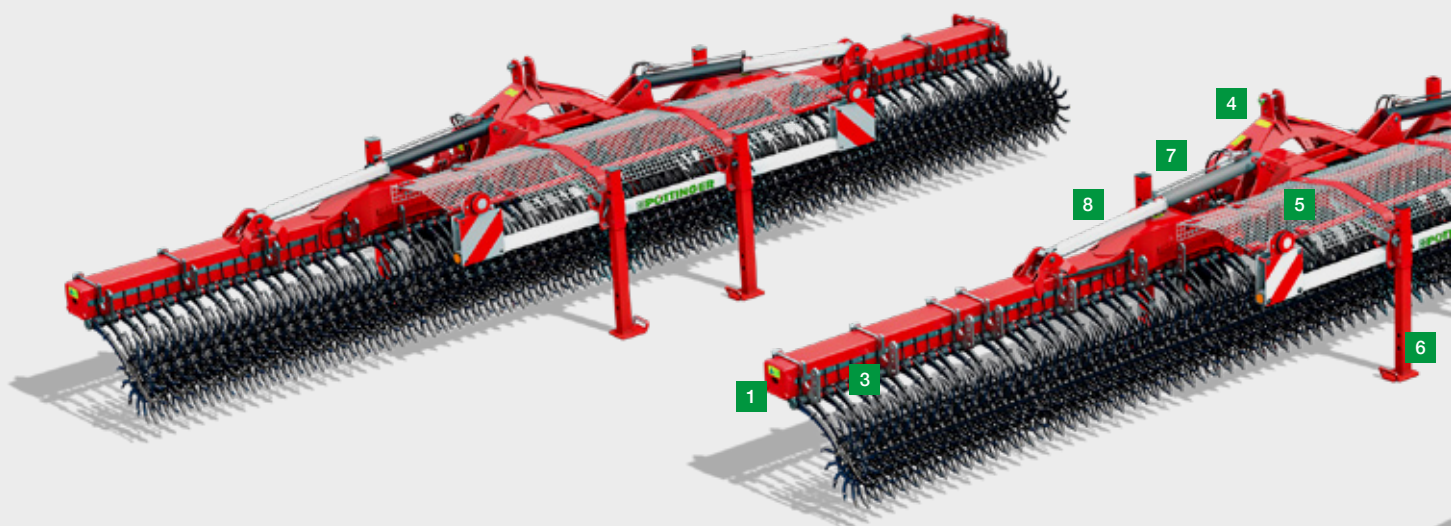
Optional stone scrapers are recommended for trouble-free operation in stony conditions. These are mounted between the rotary hoe stars to prevent fist-sized stones from jamming. Stone guards are also available to protect the folding cylinders if required.

Straightforward machine settings

- Working intensity and ground pressure are adjusted using the top link.
- The working depth is adjusted using the depth control wheels and the top link position.
- When used in row crops, the track width of the depth control wheels can be adjusted to the row spacing; mechanically as standard or hydraulically as an option.
- The driving speed has a decisive influence on the working results and the intensity of the weeding tools (slow = aggressive; fast = gentle).

2 top link and 3 lower linkage coupling points are provided for different tractor geometries.

The advantages at a glance.



1 Frame

The robust, torsionally stiff frame ensures a high level of reliability and precision during operation. The folding segments are secured by an integrated frame system.

- 180 x 180 mm frame
- Working widths of 6.6 m to 12.4 m

2 Rotary hoe stars

540 mm stars with 16 wear-resistant spoon points conserve the soil. Each rotary hoe star is mounted individually to ensure optimum ground tracking across the whole width of the machine.

- 8.5 mm springs
- Up to 20 kg pressure per star possible

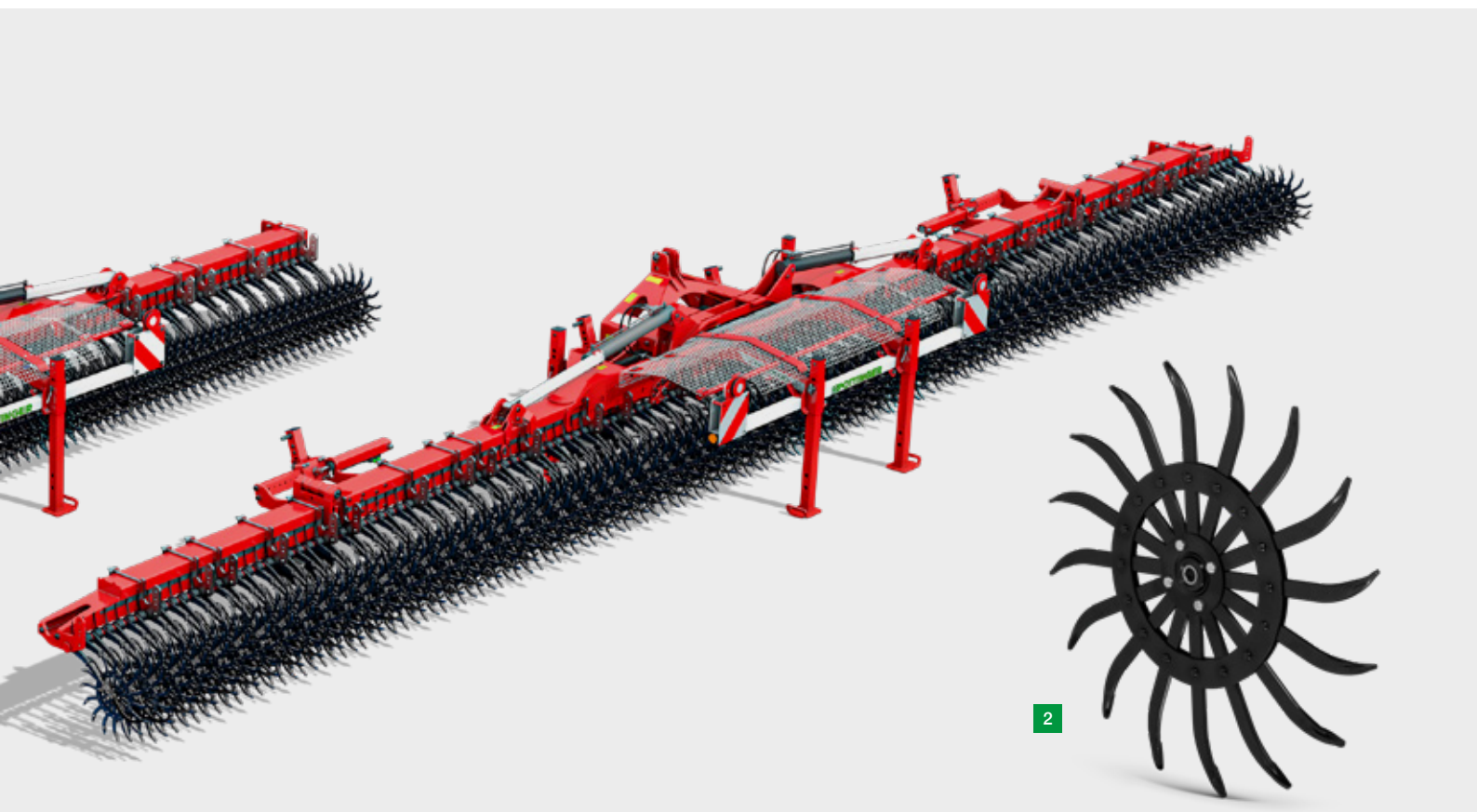
3 Offset position

The rotary hoe stars are positioned at an offset of 105 mm. Together with a star spacing of 89 mm, a high level of reliability is ensured even with surface organic matter.

4 Mounting position

The machine is suitable for different tractor geometries thanks to different top link and lower linkage mounting positions. The top link position regulates the ROTOCARE intensity.

As an option, the flexible TEGOSEM hopper is available with a capacity of both 200 and 500 litres.



5 Stone guard

The stone guard is provided as standard to prevent foreign objects from being ejected upwards during operation.

6 Parking stands

Four parking stands ensure safe stowage. The machine can be parked in the folded position to save space.

7 Depth control wheels

The pneumatic depth control wheels ensure optimum ground tracking. Mechanical track width adjustment (hydraulic optional) enables rapid adjustment to match different row widths.

8 Transport interlock

For safety on the road, a mechanical transport interlock is provided in addition to the hydraulic check valves.

Accessories



Rotary hoe

Mechanical track width adjustment

Hydraulic track width adjustment

Stone guard

ROTOCARE V 6600
ROTOCARE V 8000
ROTOCARE V 12400

■
■
■

□
□
□

■
■
■



Rotary hoe

TEGOSEM 200

TEGOSEM 500

ROTOCARE V 6600
ROTOCARE V 8000
ROTOCARE V 12400

□
□
-

□
□
-

■ = Standard, □ = Optional

Often ordered together



Stone guard for each star



Warning sign with lighting



Parking stands



Folding cylinder guard

Technical data



ROTOCARE V

ROTOCARE	V 6600	V 8000	V 12400
Working width	6.6 m	8.00 m	12.4 m
Number of rotary hoe stars	74 pcs	90 pcs	140 pcs
Star spacing		89 mm	
Weight ¹	1,650 kg	1,850 kg	3,050 kg
Transport width (m)		3.00 m	
Transport height (m)	3.05 m	3.80 m	3.90 m
Transport length (m)		1.70 m	
Frame dimensions		180 x 180 mm	
Underframe clearance		500 mm	
Jockey wheel tyres		16 x 6.5-8	
Power requirement	90 hp	110 hp	160 hp

¹ Basic machine



MyPÖTTINGER – it's easy. Anytime. Anywhere.

Benefit from numerous advantages

MyPÖTTINGER is our customer portal that provides you with key information about your PÖTTINGER machines.

Get specific information and useful tips on your PÖTTINGER machines in "My machines". And find out more about the PÖTTINGER product range.

My machines

Add your PÖTTINGER machinery to "My machines" and assign a name. You will receive valuable information such as: useful tips on your machine, operating instructions, spare parts lists, maintenance information, as well as all the technical details and documentation.

Info on the product range

MyPÖTTINGER provides you with machine-specific information for all machines built starting 1997.

Scan the QR code on the machine's data plate with a smartphone or tablet or go to www.mypottinger.com and enter the machine number from the comfort of your own home. You will immediately receive all the information on your machine, such as: instruction manuals, equipment options information, brochures, photos and videos.

ORIGINAL PARTS



CLASSIC

DURASTAR

DURASTAR PLUS

Rely on the original

PÖTTINGER Original Parts meet the highest demands in terms of functionality, reliability and performance. These are characteristics that PÖTTINGER is committed to delivering.

That is why we manufacture PÖTTINGER Original Parts from the highest quality materials. We ideally match each individual spare part and wear part to your machinery's overall system. This is because different soil and operating conditions often need to be taken into consideration.

We have been listening to our customers and now offer three different lines - CLASSIC, DURASTAR and DURASTAR PLUS - to make sure you have the right part to meet every requirement. Original parts are worth every cent, because know-how cannot be copied.

Your advantages

- Immediate and long-term availability.
- Maximum durability thanks to innovative production processes and the use of the highest quality materials.
- Avoidance of malfunctions due to a perfect fit.
- The best working results thanks to optimum match to the overall system of the machine.
- Save time and costs thanks to longer replacement intervals on wear parts.
- Comprehensive quality testing.
- Ongoing advancement through research and development.
- Worldwide spare parts supply.
- Attractive, competitive prices for all spare parts.

Wear parts

The CLASSIC line is for standard duty applications. With these ORIGINAL INSIDE parts we have defined the benchmark for quality, best price/performance ratio and reliability.

DURASTAR is the innovation on the wear components market - durable, high quality, productive and reliable.

Are you used to putting your machines to work in the most extreme conditions? Then the DURASTAR PLUS line is the right choice for you.



More success with PÖTTINGER

- A family-owned company since 1871
Your reliable partner
- Specialist for arable and grassland
- Future-safe innovation for outstanding working results
- Roots in Austria - at home throughout the world

Rely on ROTOCARE

- Enormous output thanks to working speeds of 10 to 30 kph with working widths of up to 12.40 metres
- Gentle method of weed control with minimum plant losses
- Individually mounted rotary hoe stars, each with 16 wear-resistant spoon points for perfect ground tracking
- Effective weed control and aeration of the topsoil
- Maximum application flexibility with the optional TEGOSEM hopper

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