

Pöttinger SYNKRO

Two-row and three-row cultivators



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PÖTTINGER



SYNKRO

Soil is life ...

The classic piece of equipment for conservation in soil preparation is the cultivator. The mixing in of harvest residues close to the surface increases the fertility of the soil, improves water economy, and protects against erosion.

In the cultivation of land today, saving time and cost are the top priorities. SYNKRO cultivators in two- or three-row versions, with many options of rear rollers, create the ideal conditions for the germination of weeds, volunteers and catchcrops.



The SYNKRO series cultivators are designed so that they can be used for both shallow and deep soil preparation (up to 12" / 300 mm).

“Farmers today are responsible for the soil of tomorrow.”

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SYNKRO



SYNKRO Series 1000 / 1000 S two-row mounted cultivators

After the harvest, the harvest residues must be efficiently mixed with the soil so that the rotting process can begin early. This straw-soil mixture ensures the optimal living conditions for the soil life.

Pöttinger SYNKRO cultivators have been developed to deliver optimum stubble cultivation. Compact machines for shallow and intensive mixing preparation.

Easy-to-pull, two-row cultivator in a short, compact design for lightweight tractors and smaller tractors. The leg clearance of 16.9" / 430 mm and a frame height of 32.3" / 820 mm guarantee smooth operation.

SYNKRO	2600	3000	2600 S	3000 S	4700 SH
Working width	8.53' / 2.60 m	9.84' / 3.0 m	8.53' / 2.60 m	9.84' / 3.0 m	15.42' / 4.70 m
No. of tines	6	7	6	7	11
Frame dimensions in/mm	31x31 / 80x80	31x31 / 80x80	39.3x39.3 / 100x100	39.3x39.3 / 100x100	39.3x39.3 / 100x100
Concave discs	5	6	5	6	10
Concave width	8.53' / 2.60 m	9.84' / 3.0 m	8.53' / 2.60 m	9.84' / 3.0 m	9.84' / 3.0 m

All information is provided without obligation



Robust construction

SYNKRO 1000 cultivators are equipped with a main frame for two rows of tines and mounting brackets for a wide range of rear rollers. The frame is designed to withstand the stress of continuous heavy duty operation.

SYNKRO 4700 SH model with hydraulic folding.

- Frame beams 4" x 4" / 100 x 100 mm on S models, 3" x 3" / 80 x 80 mm on standard models.
- The inter leg distance of 17" / 430 mm and a wide 29.5" / 750 mm row interval, and a 32.3" / 820 mm (S models) or 29.5" / 750 mm frame height guarantee uninterrupted working at all times.
- Following the tines, concave discs smoothly level the surface.
- Because of its 17" / 430 mm inter leg distance, the 1000/1000 S range has a low power requirement, and the two-row design brings the centre of gravity close to the tractor.

SYNKRO



Individually hitchable

- In order to achieve close coupling, the position of the tractor's lower linkage should be angled slightly upwards to the machine.
- The solid Cat. II or Cat. III cross shaft gives two coupling heights depending on the tractor's tyres.
- The top link can be mounted in 4 different positions. The hitch-angle can also be adjusted to obtain sufficient lifting height. This enables the cultivator to be adapted to different tractor sizes.



Two-row mounted cultivators

The SYNKRO hitch is also adjustable for inclination. This enables ideal matching to the tractor. This optimized hitching geometry improves ground clearance on headland turns and during transport.

Tines and point designs

- The tine distance of 17" / 430 mm requires a point design of its own so that a full cut through is obtained. Here, Pöttinger relies on a split duck foot point in combination with a chisel blade. For working on particularly flat ground, the combination of a flat blade with a dual-heart point is recommended.
- Chisel points that are reversible give the most efficient use of materials. The blades and chisel points are 0.4" / 10 mm thick, and are hardened to give a long useful lifetime.
- Inward-turned side shins guide the flow of soil inwards, in order to prevent ridging at the sides.



Tine tilt setting

- The different settings enable the leg angle to be adapted to the soil conditions – no problem on dry, hard ground.
- Three settings on the 1000 range.
- Two settings with overload protection.



Concave levelling discs

- These are fastened on a separate bar and can be adjusted independently in pairs.



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These three-row cultivators have been designed so they can be used for both shallow and deep soil cultivation (up to 11.8" / 300 mm). The different working depths can be set via a finely aligned pin hole matrix on the rear roller.

SYNKRO 1003 / 1003 K / 1003 T range three-row cultivators

The SYNKRO 1003 cultivators are equipped with a rugged 3-row main frame; the concave discs are guided by the rear roller.

The purpose of the three-row cultivator is to get fine clods that would have a positive effect on the desired result with mulch seedbeds. The points fitted with blades move all of the soil surface, producing a high level of incorporation. The fine crumbling action reduces cavities, leaving a level finish and an area of fine earth for sowing to ensure good germination.

SYNKRO	3003	4003 K	5003 K	5003 T	6003 T
Working width	9.84' / 3.0 m	13.12' / 4.0 m	16.4' / 5.0 m	16.4' / 5.0 m	19.68' / 6.0 m
No. of tines	11	14	18	18	22
Frame dimensions in/mm	39.3x39.3 / 100x100	39.3x39.3 / 100x100	39.3x39.3 / 100x100	39.3x39.3 / 100x100	39.3x39.3 / 100x100
Concave discs	6	8	11	11	13
Transport width	9.84' / 3.0 m	9.84' / 3.0 m	9.84' / 3.0 m	9.84' / 3.0 m	9.84' / 3.0 m

All information is provided without obligation



SYNKRO K models are equipped with hydraulic folding and mechanical transport interlocks.

Serie 1003 K / 1003 T – with hydraulic folding

- The hydraulic folding of the frame enables convenient and problem-free road transport, with a width of less than 10' / 3 m.
- The interlock engages automatically using a hydraulic-activated catch.



SYNKRO

The legs

- In the 1003 range, the leg is made curved.
- The slightly curved leading tines do not guide the soil upwards, but mix it in thoroughly to the side in a strong rolling movement without throwing up soil.
- The mulch duck foot points can be dismantled with just one bolt.



Point designs

- The narrow leg width ensures the best mixing-in of harvest residues – an ideal prerequisite for mulch seedbeds.
- For incorporating stubble, Pöttinger recommends two options that work efficiently: the duck foot points with a quick-change system, or the combined mulch-duck foot points – a combination of a chisel point or dual-heart point with removable blades.
- For deeper cultivation, there is a choice between a narrow point with a quick-change system, a chisel point, and a dual-heart point.
- Hardened steel points and armoured duckfoot points available for an extended service life.



The tines give the soil air to breathe

SYNKRO supplies proven point designs for the even incorporation and intensive mixing of harvest residues, liquid manure, dung, mulch etc.

Pöttinger's SYNKRO cultivators are renowned and successful in many markets for making a clean cut through the whole soil structure, producing good crumbling incorporations and mixing.

Tine tilt setting

- The different settings enable the leg angle to be adapted to the soil conditions – no problem on dry, hard ground.
- Two settings on the 1003 models with either shearbolt or overload protection.



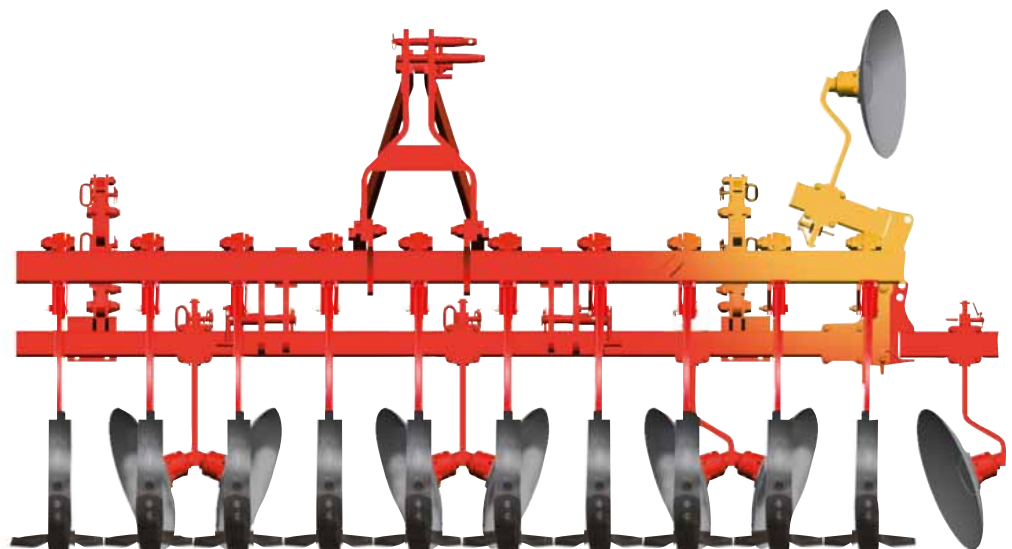
Concave discs

The concave disc depth is controlled by the rear roller. The roller is fitted with a unique suspension which has a centralised adjustment for the rear roller to permit quick changes to the working depth without rearranging the concave levelling discs.

Side discs

- Optional side discs prevent ridging. They can be folded in for transport.

The rear roller of the cultivator looks after depth control. Different working depths can be set with a finely matched adjustment matrix.



SYNKRO



Equipped for high performance

A long useful lifetime is guaranteed only by precise machining and strong connections. At Pöttinger, high-quality machining is standard. The SYNKRO hitch is also adjustable for inclination. This enables ideal matching to the tractor. This optimized hitching geometry improves ground clearance on headland turns and during transport.

Pure strength

- Compact design is a fundamental trademark of the 1003 range.
- 4" x 4" / 100 x 100 mm box section frames made from fine-grained steel provide the greatest strength.
- The first row of tines is placed very close to the tractor.
- The row to row distance is 29.5" / 750 mm, while the frame height of 31.5" / 800 mm guarantees that even large quantities of harvest residues pass through without blocking.
- The concave discs that follow level the intensively mixed soil.



*Hitching variants:
Cat. 2 or Cat. 3 with
two-position lower link pins.*

Overload protection

Obstacles are no problem

- This makes "non-stop cultivation" possible, even on soils with a stoney underlying surface.
- When obstacles are met, uninterrupted working is guaranteed by safe unlatching and the large radius of movement.
- The implementation of overload protection is the same on all SYNKRO cultivators, and can be retrofitted.



SYNKRO T



A transport chassis carries the machine, resulting in less weight on the linkage protecting the tractor.

SYNKRO 1003 T range trailed three-row cultivator

The trailed SYNKRO cultivators were developed for stubble cultivation over large areas and for general seedbed preparation. These trailed machines have a wide working width but can be folded up for transport on roads so that the transport width does not exceed 9.84 ft / 3.0 metres the transport height does not exceed 13.1 ft / 4.0 metres.

The transport chassis wheels are raised while working in the field, resulting in additional weight on the tool. This ensures ground penetration is guaranteed, even in the most extreme ground conditions.

SYNKRO	5003 T	6003 T
Working width	16.4' / 5.0 m	19.68' / 6.0 m
No. of tines	18	22
Frame dimensions	3.93 x 3.93" / 100 x 100 mm	3.93 x 3.93" / 100 x 100 mm
Frame height	3.15" / 800 mm	3.15" / 800 mm
Concave discs	11	13
Transport width	9.84' / 3.0 m	9.84' / 3.0 m

All information is provided without obligation



- A transport chassis with 500/45-17 tyres carries the machine, resulting in less weight on the linkage protecting the tractor. 560/45-22.5 tyres are also available.
- These trailed machines can be supplied with air brakes or hydraulic brakes to enhance safety while travelling at the maximum permissible speed of 40 kph. The parking brake meets all legal requirements.



SYNKRO T



The length and angle of the drawbar are adjustable. An ideal match to every tractor and rear roller is ensured as a result. This optimised mounting geometry improves ground clearance at headlands and during transport.

Trailed cultivator for large area coverage

- The length and height adjustable drawbar is coupled to the lower links. Mounting to Cat. II and Cat. III is possible using the double flanged hitch. The practical hose holder and two parking struts are standard.
- The chassis is also adjustable to ensure a perfect match to different tractors and rear rollers.
- An air brake or hydraulic brake system is also available to provide enhanced safety at high transport speeds of up to 24.9 mph / 40 kph.





Hydraulic folding

- The hydraulic folding of the frame enables convenient and problem-free road transport, with a width of less than 10' / 3 m.
- New: The interlock engages automatically using a mechanical limit stop catch.
- A hydraulic cylinder plus a lock pin release the catch for folding out the wing sections – Increased safety when transporting the machine.



SYNKRO



Rollers to suit the soil

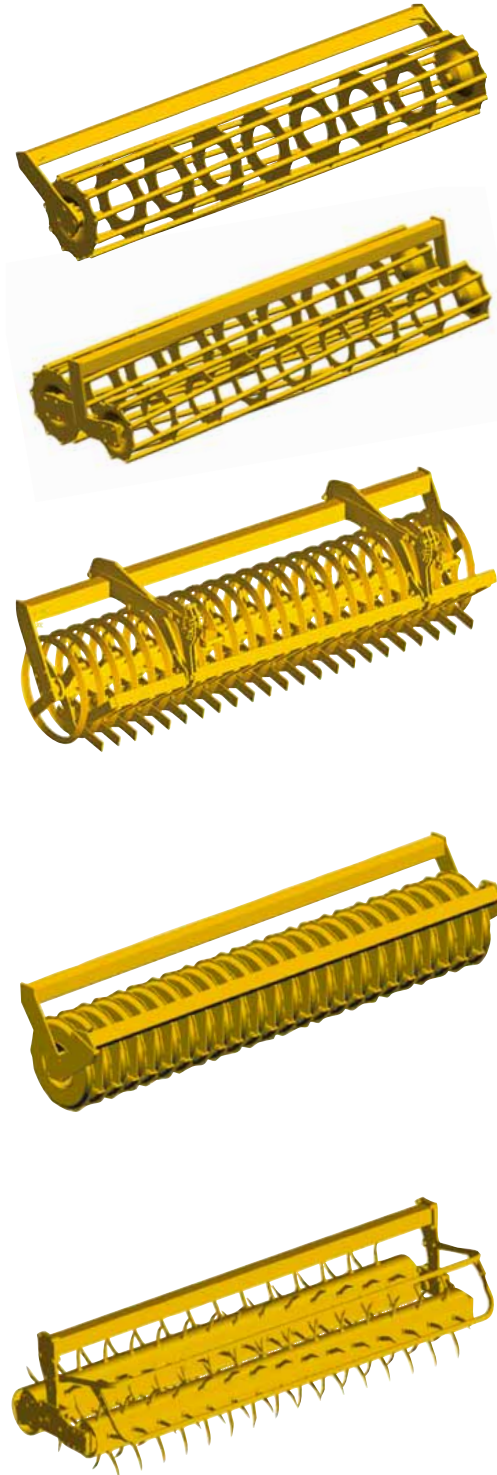
SYNKRO	Cage Roller 21.3" / 540 mm	Cage Roller 26" / 660 mm	Double Cage Roller 16.5/15.0" / 420/380 mm	Double Cage Roller 21.7/16.5" / 540/420 mm	Knife Ring Roller 23.6" / 600 mm	Packer Ring Roller 21.7" / 550 mm	Roto Pack Roller 10.6" / 8.5" / 270 / 215 mm
2600	●						●
2600 S	●						●
3000	●	●	●	●	●	●	●
3000 S	●	●	●	●	●	●	●
4700 SH	●	●	●				
3003	●	●	●	●	●	●	●
4003 K	●	●		●	●	●	
5003 K	●	●		●	●	●	
5003 T	●			●		●	
6003 T				●		●	

Roller versions and applications

Type	Use on moist soil			Use on soil type		
	dry	medium	moist	light	medium	heavy
Cage Roller 21.3"/540 mm	●	●		●	●	
Cage Roller 26"/660 mm	●	●		●	●	
Double Cage Roller 16.5/15.0" / 420/380 mm	●	●		●	●	
Double Cage Roller 21.7/16.5" / 540/420 mm	●	●		●	●	
Knife Ring Roller 23.6" / 600 mm	●	●	●	●	●	●
Packer Ring Roller 21.7" / 550 mm	●	●	●	●	●	●
Roto Pack Roller 10.6/8.5" / 270/215 mm	●	●	●	●	●	●

Rear rollers – it's your choice

Pöttinger provides a wide range of rear rollers that give perfect operating results, with the desired crumbling structure, in any type of soil. Our entire range of rollers features precise machining and robust construction.



Cage Roller

The ideal roller for dealing with dry, non-sticky soils. The roller is fitted with strong rods for optimal compression. Diameter 21.7" / 540 mm, eleven rods or 26" / 660 mm, twelve rods.

Double Cage Roller

The double cage roller is fitted with different diameters (21.7" / 540 mm front and 16.5" / 420 mm rear). The pendular function ensures optimal crumbling and adjustment to the contours of the ground.

Knife Ring Roller

The advantages of the cutting ring roller (23.6" / 600 mm diameter) include enhanced crumbling and compression by means of wedge-shaped rings. The blades between the rings crush the lumps of earth and also clean the spaces between them.

Compression in strips has the advantage that water can be absorbed better. The correct choice for dry, difficult soils.

Packer Ring Roller

The shoulder rings have a diameter of 22" / 550 mm, and there are eight rings per metre of working width.

The roller leaves behind consolidation in strips, promoting water absorption and soil respiration. This is the ideal roller for stony, damp soil conditions and large quantities of organic material.

Roto Pack Roller

Two aggressive tine rotors that reach into each other, crumble and mix particularly well. Each rotor consists of a central tube. The front rotor has a diameter of 11" / 270 mm, the rear rotor 8.5" / 215 mm (tine external diameter is 24" / 600 mm and 21.5" / 545 mm). The pendular suspension ensures the best adaptation to any unevenness of the terrain.

Rotopack rotors mix particularly intensively – for light to heavy, non-sticky soils.

Harvest residues remain on the surface of the soil and protect the soil against drying.



Technical data

Series 1000	Linkage category	Working width	Transport width	No. of tines	Tine distance
SYNKRO 2600	Cat. 2	8.53' / 2.60 m	8.53' / 2.60 m	6	16.9" / 430 mm
SYNKRO 3000	Cat. 2	9.84' / 3.00 m	9.84' / 3.00 m	7	16.9" / 430 mm

Series 1000 S	Linkage category	Working width	Transport width	No. of tines	Tine distance
SYNKRO 2600 S	Cat. 2	8.53' / 2.60 m	8.53' / 2.60 m	6	16.9" / 430 mm
SYNKRO 3000 S	Cat. 2	9.84' / 3.00 m	9.84' / 3.00 m	7	16.9" / 430 mm
SYNKRO 4700 SH	Cat. 3	15.42' / 4.70 m	9.84' / 3.00 m	11	16.9" / 430 mm

Series 1003	Linkage category	Working width	Transport width	No. of tines	Tine distance
SYNKRO 3003	Cat. 2 / 3	9.84' / 3.0 m	9.84' / 3.0 m	11	10.6" / 270 mm
SYNKRO 4003 K	Cat. 2 / 3	13.12' / 4.0 m	9.84' / 3.0 m	14	11" / 280 mm
SYNKRO 5003 K	Cat. 2 / 3	16.40' / 5.0 m	9.84' / 3.0 m	18	10.6" / 270 mm
SYNKRO 5003 T	Cat. 2 / 3	16.40' / 5.0 m	9.84' / 3.0 m	18	10.6" / 270 mm
SYNKRO 6003 T	Cat. 2 / 3	19.68' / 6.0 m	9.84' / 3.0 m	22	10.6" / 270 mm

Weight of rear rollers

	Cage Roller 21.3" / 420 mm	Cage Roller 21.3" / 540 mm	Cage Roller 26" / 660 mm	Double Cage Roller 16.5/15.0" / 420/380	Double Cage Roller 21.7/16.5" / 540/420	Knife Ring Roller 23.6" / 600 mm	Packer Ring Roller 21.7" / 550 mm	Roto Pack Roller 10.6" / 8.5" 270 / 215 mm
2600	344 lbs / 156 kg	443 lbs / 201 kg	–	–	–	–	–	626 lbs / 284 kg
3000	–	717 lbs / 325 kg	937 lbs / 425 kg	633 lbs / 287 kg	1147 lbs / 520 kg	1058 lbs / 480 kg	1312 lbs / 595 kg	882 lbs / 400 kg
4000	–	1058 lbs / 480 kg	1345 lbs / 610 kg	–	1962 lbs / 760 kg	1962 lbs / 890 kg	1808 lbs / 820 kg	–
4700	–	944 lbs / 428 kg	–	1188 lbs / 539 kg	–	–	–	–
5000	–	1235 lbs / 560 kg	1588 lbs / 720 kg	–	1940 lbs / 880 kg	2026 lbs / 919 kg	2205 lbs / 1000 kg	–
6000	–	1433 lbs / 650 kg	1874 lbs / 850 kg	–	2293 lbs / 1040 kg	2324 lbs / 1054 kg	2624 lbs / 1190 kg	–









Row interval	Concave discs	Frame dimensions	Frame height	Power required from	Weight without roller	Weight with over-load protection
29.5" / 750 mm	51 / 70	31x31" / 80 x 80 mm	29.5" / 750 mm	51 / 70	1235 lbs / 560 kg	1700 lbs / 771 kg
29.5" / 750 mm	66 / 90	31x31" / 80 x 80 mm	29.5" / 750 mm	66 / 90	1433 lbs / 650 kg	1973 lbs / 895 kg

Row interval	Concave discs	Frame dimensions	Frame height	Power required from	Weight without roller	Weight with over-load protection
29.5" / 750 mm	5	39.3 x 39.3" / 100 x 100 mm	32.3" / 820 mm	59 / 80	1499 lbs / 680 kg	1965 lbs / 891 kg
29.5" / 750 mm	6	39.3 x 39.3" / 100 x 100 mm	32.3" / 820 mm	88 / 120	1676 lbs / 760 kg	2216 lbs / 1005 kg
29.5" / 750 mm	10	39.3 x 39.3" / 100 x 100 mm	32.3" / 820 mm	118 / 160	3131 lbs / 1420 kg	3980 lbs / 1805 kg







Row interval	Concave discs	Frame dimensions	Frame height	Power required from	Weight without roller	Weight with over-load protection
29.5" / 750 mm	6	39.3 x 39.3" / 100 x 100 mm	31.5" / 800 mm	80 / 110	2536 lbs / 1150 kg	3014 lbs / 1562 kg
29.5" / 750 mm	8	39.3 x 39.3" / 100 x 100 mm	31.5" / 800 mm	110 / 150	4410 lbs / 2000 kg	5025 lbs / 2511 kg
29.5" / 750 mm	11	39.3 x 39.3" / 100 x 100 mm	31.5" / 800 mm	132 / 180	5512 lbs / 2500 kg	–
29.5" / 750 mm	11	39.3 x 39.3" / 100 x 100 mm	31.5" / 800 mm	132 / 180	8158 lbs / 3700 kg	9607 lbs / 4357 kg
29.5" / 750 mm	13	39.3 x 39.3" / 100 x 100 mm	31.5" / 800 mm	147 / 200	8710 lbs / 3950 kg	10480 lbs / 4753 kg

All information is provided without obligation. Fittings can vary from country to country.



Fittings

	Adjustable leg angle	Overload protection	Side discs	Depth wheels	Drillbox	Tine cover
						
2600	3 settings	optional	optional	optional 579x240	optional	–
3000	3 settings	optional	optional	optional 579x240	optional	–
2600 S	3 settings	optional	optional	optional 579x240	optional	–
3000 S	3 settings	optional	optional	optional 579x240	optional	–
4700 SH	3 settings	optional	optional	optional 579x240	–	–
3003	2 settings	optional	optional	optional 579x240	–	–
4003 K	2 settings	optional	optional	optional 579x240	–	optional
5003 K	2 settings	optional	optional	optional 579x240	–	optional
5003 T	2 settings	optional	optional	optional 560/45-22,5	–	optional
6003 T	2 settings	optional	optional	optional 560/45-22,5	–	optional

Tine point and blade options

	Reversible chisel point with wings	Reversible dual-heart point with one piece wing	Single chisel point with wings	Reversible dual-heart point with wings	Quick-change duck foot point	Quick-change narrow point
						
2600	standard	alternative	–	–	–	–
3000	standard	alternative	–	–	–	–
2600 S	standard	alternative	–	–	–	–
3000 S	standard	alternative	–	–	–	–
4700 SH	standard	alternative	–	–	–	–
3003	–	–	standard	alternative	optional	optional
4003 K	–	–	standard	alternative	optional	optional
5003 K/T	–	–	standard	alternative	optional	optional
6003 T	–	–	standard	alternative	optional	optional

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Air brakes / hydraulic brakes	Warning boards illumination
	
-	optional
-	optional
-	optional
-	optional
-	optional
-	optional
-	optional
optional	optional
optional	optional



Economical solutions

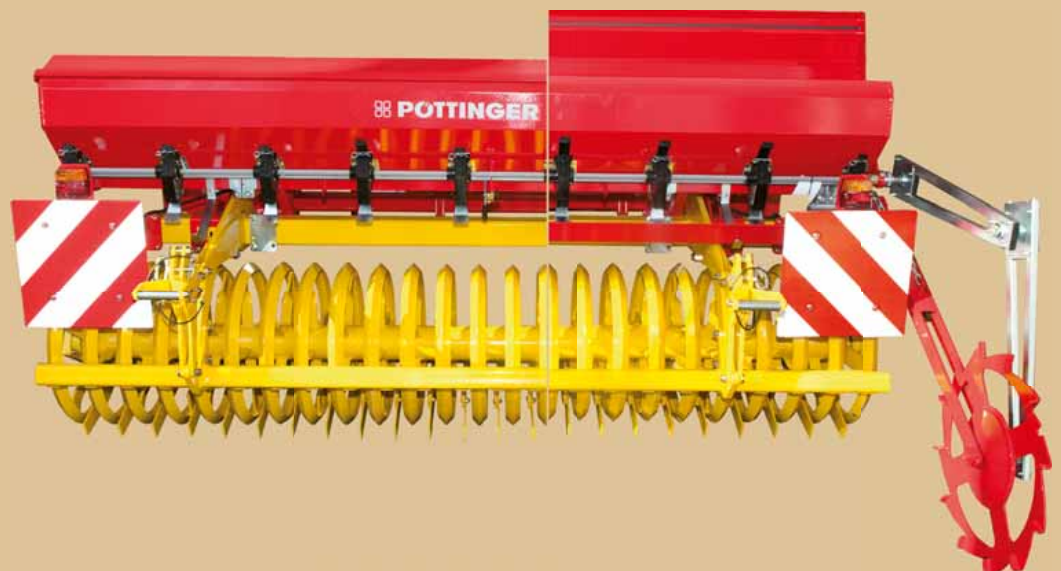
DRILLBOX catchcrop seeder

Working widths 8.5' and 10' / 2.60 m and 3.0 m

- For all crop types and mixtures.
- Easy adjustment with a lever, fine adjustment with a rotary knob.
- Scattering plates for even distribution.
- Optional agitating shaft for seed mixtures.
- Forward speed via ground driven wheel.
- Calibration trays.

Narrow point, hardened, armoured wings

-
-
-
-
-
optional
optional
optional
optional





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