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 is the top priority. 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 1000 and 1000 S / SH range

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Cultivator Frame and Obstacle Protection

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Optional Equipment
DRILLBOX Catchcrop seeder

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Imprint
The new SYNKRO 1003 cultivators are fitted with a stable three-bank basic frame, while the conventional SYNKRO 1000 has two rows of teeth and a bracket for hitching up follow-on devices. The basic frame is designed to handle the loads of hard, continuous operation.

SYNKRO 1000 and 1000 S / SH range

Robust construction

SYNKRO models feature 4” x 4” / 100 x 100 mm box section frame for the 1000 S range, 3” x 3” / 80 x 80 mm for the 1000 range. The inter leg distance of 17” / 430 mm and a wide 29.5” / 750 mm row interval, and a 32” / 820 mm frame height (29.5” / 750 mm for the 1000), guarantee uninterrupted working at all times. Following the tines, hollow 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.
Pure strength

Compact design is a fundamental trademark of the 1003 range. 4” x 4” / 100 x 100 mm box section frames made from SG 50 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 clogging. The hollow discs that follow level the intensively mixed soil.
Hitching up – a secure connection

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.

Individually hitchable
In order to achieve close coupling, the position of the tractor’s lower link should be angled slightly upwards to the machine. The housing for the top link can be placed in four positions, and the lower link in two. The hitch-angle can also be adjusted to obtain sufficient lifting height. This enables the cultivator to be adapted to different tractor sizes. This optimized hitching geometry improves ground clearance on headland turns and during transport.

Hitching variants:
Cat 2 or Cat 3 with two-position lower link pins 1.

A variable Cat 2 or 3 hitching point gives the 1000 range two coupling heights – depending on the tractor’s tyres.

Tine tilt setting
Two settings on the 1003.
Three settings on the 1000.
Two settings with overload protection.
The different settings 2 enable the leg angle to be adapted to the soil conditions - no problem on dry, hard ground.

The rear roller of the CULTIVATOR looks after depth control. Different working depths can be set with a finely matched adjustment matrix 3.
Overload protection

Obstacles are no problem
This makes “non-stop cultivation” possible, even on soils with a stony underlying surface.
When obstacles are met, uninterrupted working is guaranteed by safe unlatching and the large radius of movement.
The triggering force is adjustable.
The implementation of overload protection is the same on all SYNKRO cultivators, and can be retrofitted.
Tine Options – 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 on the market for making a clean cut through the whole soil structure, producing good crumbling incorporations and mixing.

**SYNKRO 1000 and 1000 S range**

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 1. For working on particularly flat ground, the combination of a flat blade with a dual-heart point 2 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 3 guide the flow of soil inwards, in order to prevent ridging at the sides.

**SYNKRO 1003 range**

The narrow leg distance 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 1 with a quick-change system, or the combined mulch-duck foot points 2 – a combination of a chisel point or dual-heart point with removable blades.

For deeper cultivation, there is a choice between a narrow point 3 with a quick-change system, a chisel point 4, and a dual-heart point 5.

The purpose of the three-row cultivator is to avoid getting oversized clods that would have a negative 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.
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 duck foot points** can be dismantled with just one screw.

### Hollow discs

#### 1000 / 1000 S range
These are fastened on a separate bar and can be adjusted independently in pairs.

#### 1003 range
The hollow disc depth is controlled by the rear roller. The roller is fitted with a unique suspension which has a central adjustment for the rear roller to permit quick changes to the working depth without rearranging the hollow discs.

#### Side discs
Optional side discs prevent ridging. They can be folded in for transport.
Rear Rollers – the choice is yours

Pottinger 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.

**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**.

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

**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.

**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.
# Roller versions and applications

<table>
<thead>
<tr>
<th>Type</th>
<th>Diameter (inch / mm)</th>
<th>Use on moist soil</th>
<th>Use on soil type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>dry</td>
<td>medium</td>
</tr>
<tr>
<td>Knife Ring Roller</td>
<td>23.6&quot; / 600</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Cage Roller</td>
<td>21.3&quot;/540 or 26&quot;/660</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Double Cage Roller</td>
<td>21.7/16.5&quot; / 540/420</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Packer Ring Roller</td>
<td>21.7&quot; / 550</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Roto Pack Roller</td>
<td>10.6&quot; / 8.5&quot; / 270 / 215</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
## Technical data

### SYNKRO 1000 range

<table>
<thead>
<tr>
<th></th>
<th>Linkage category</th>
<th>Working width</th>
<th>Transport width</th>
<th>No. of tines</th>
<th>Tine distance</th>
<th>Row interval</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2600</strong></td>
<td>Cat. 2</td>
<td>8.53’ / 2.60 m</td>
<td>8.53’ / 2.60 m</td>
<td>6</td>
<td>16.9” / 430 mm</td>
<td>29.5” / 750 mm</td>
</tr>
<tr>
<td><strong>3000</strong></td>
<td>Cat. 2</td>
<td>9.84’ / 3.00 m</td>
<td>9.84’ / 3.00 m</td>
<td>7</td>
<td>16.9” / 430 mm</td>
<td>29.5” / 750 mm</td>
</tr>
</tbody>
</table>

### SYNKRO 1000 S range

<table>
<thead>
<tr>
<th></th>
<th>Linkage category</th>
<th>Working width</th>
<th>Transport width</th>
<th>No. of tines</th>
<th>Tine distance</th>
<th>Row interval</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2600 S</strong></td>
<td>Cat. 2</td>
<td>8.53’ / 2.60 m</td>
<td>8.53’ / 2.60 m</td>
<td>6</td>
<td>16.9” / 430 mm</td>
<td>29.5” / 750 mm</td>
</tr>
<tr>
<td><strong>3000 S</strong></td>
<td>Cat. 2</td>
<td>9.84’ / 3.00 m</td>
<td>9.84’ / 3.00 m</td>
<td>7</td>
<td>16.9” / 430 mm</td>
<td>29.5” / 750 mm</td>
</tr>
<tr>
<td><strong>4700 SH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SYNKRO 1003 range

<table>
<thead>
<tr>
<th></th>
<th>Linkage category</th>
<th>Working width</th>
<th>Transport width</th>
<th>No. of tines</th>
<th>Tine distance</th>
<th>Row interval</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3003</strong></td>
<td>Cat. 2 / 3</td>
<td>9.84’ / 3.0 m</td>
<td>9.84’ / 3.0 m</td>
<td>11</td>
<td>10.6” / 270 mm</td>
<td>29.5” / 750 mm</td>
</tr>
<tr>
<td><strong>4003 K</strong></td>
<td>Cat. 2 / 3</td>
<td>13.12’ / 4.0 m</td>
<td>9.84’ / 3.0 m</td>
<td>14</td>
<td>11” / 280 mm</td>
<td>29.5” / 750 mm</td>
</tr>
<tr>
<td><strong>5003 K/T</strong></td>
<td>Cat. 2 / 3</td>
<td>16.40’ / 5.0 m</td>
<td>9.84’ / 3.0 m</td>
<td>18</td>
<td>10.6” / 270 mm</td>
<td>29.5” / 750 mm</td>
</tr>
<tr>
<td><strong>6003 T</strong></td>
<td>Cat. 2 / 3</td>
<td>19.68’ / 6.0 m</td>
<td>9.84’ / 3.0 m</td>
<td>22</td>
<td>10.6” / 270 mm</td>
<td>29.5” / 750 mm</td>
</tr>
</tbody>
</table>

### Weight with roller

<table>
<thead>
<tr>
<th></th>
<th>Cage Roller 23.1” / 540 mm</th>
<th>Cage Roller 26” / 660 mm</th>
<th>Double Cage Roller 23.1”/16.5” / 540/420 mm</th>
<th>Roto Pack Roller</th>
<th>Knive Ring Roller</th>
<th>Packer Ring Roller</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2600</strong></td>
<td>1656 lbs/751 kg</td>
<td></td>
<td></td>
<td>1861 lbs / 844 kg</td>
<td>2125 lbs / 964 kg</td>
<td></td>
</tr>
<tr>
<td><strong>3000</strong></td>
<td>2150 lbs/975 kg</td>
<td>2370 lbs / 1075 kg</td>
<td>2580 lbs / 1170 kg</td>
<td>2315 lbs / 1050 kg</td>
<td>2492 lbs / 1130 kg</td>
<td>2745 lbs / 1245 kg</td>
</tr>
<tr>
<td><strong>2600 S</strong></td>
<td>1943 lbs/881 kg</td>
<td></td>
<td></td>
<td>2125 lbs / 964 kg</td>
<td>2492 lbs / 1130 kg</td>
<td>2745 lbs / 1245 kg</td>
</tr>
<tr>
<td><strong>3000 S</strong></td>
<td>2392 lbs/1085 kg</td>
<td>2187 lbs / 992 kg</td>
<td>2822 lbs / 1280 kg</td>
<td>2362 lbs / 1071 kg</td>
<td>2734 lbs / 1240 kg</td>
<td>2988 lbs / 1355 kg</td>
</tr>
<tr>
<td><strong>4700 SH</strong></td>
<td>4075 lbs / 1848 kg</td>
<td></td>
<td></td>
<td>4381 lbs / 1987 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3003</strong></td>
<td>3252 lbs/1475 kg</td>
<td>3473 lbs / 1575 kg</td>
<td>3682 lbs / 1670 kg</td>
<td>3418 lbs / 1550 kg</td>
<td>3594 lbs / 1630 kg</td>
<td>3848 lbs / 1745 kg</td>
</tr>
<tr>
<td><strong>4003 K</strong></td>
<td>5468 lbs / 2480 kg</td>
<td>5755 lbs / 2610 kg</td>
<td>6086 lbs / 2760 kg</td>
<td>6042 lbs / 2740 kg</td>
<td>6218 lbs / 2820 kg</td>
<td></td>
</tr>
<tr>
<td><strong>5003 K/T</strong></td>
<td>6747 lbs/3860 kg / 8693 lbs/4290 kg</td>
<td>7100 lbs/3320 kg / 5995 lbs/4220 kg</td>
<td>7453 lbs/3380 kg / 10100 lbs/4560 kg</td>
<td>–</td>
<td>7539 lbs/3419 kg / –</td>
<td>7718 lbs/5000 kg / 1084 lbs/4700 kg</td>
</tr>
<tr>
<td><strong>6003 T</strong></td>
<td>10143 lbs / 4600 kg</td>
<td>10584 lbs / 4800 kg</td>
<td>11003 lbs / 4990 kg</td>
<td>–</td>
<td>–</td>
<td>11334 lbs / 5140 kg</td>
</tr>
</tbody>
</table>

All information is provided without obligation. Fittings can vary from country to country.
<table>
<thead>
<tr>
<th>Hollow discs</th>
<th>Frame gauge</th>
<th>Frame height</th>
<th>Power required from kW / HP</th>
<th>Weight without roller</th>
<th>Weight with Roto Pack Roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>31x31“ / 80 x 800 mm</td>
<td>29.5“ / 750 mm</td>
<td>51 / 70</td>
<td>1235 lbs / 560 kg</td>
<td>1700 lbs / 771 kg</td>
</tr>
<tr>
<td>6</td>
<td>31x31“ / 80 x 800 mm</td>
<td>29.5“ / 750 mm</td>
<td>66 / 90</td>
<td>1433 lbs / 650 kg</td>
<td>1973 lbs / 895 kg</td>
</tr>
</tbody>
</table>

| 5            | 39.3 x 39.3“ / 100 x 1000 mm | 32.3“ / 820 mm | 59 / 80 | 1499 lbs / 680 kg | 1965 lbs / 891 kg |
| 6            | 39.3 x 39.3“ / 100 x 1000 mm | 32.3“ / 820 mm | 88 / 120 | 1676 lbs / 760 kg | 2216 lbs / 1005 kg |
| 10           | 39.3 x 39.3“ / 100 x 1000 mm | 32.3“ / 820 mm | 118 / 160 | 3131 lbs / 1420 kg | 3980 lbs / 1805 kg |

SYNKRO K – foldable

The hydraulic folding of the frame enables convenient and problem-free road transport, with a width of less than 10‘ / 3 m. Locking is automatic by means of a hydraulic end-position lock.

An integrated stop valve in the hydraulic cylinder secures the cultivator in transport position.

SYNKRO T – trailed

The transport chassis ensures that the rear axle of the tractor is not overloaded.

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 metres.

The transport wheels are raised whilst working in the field, resulting in additional loading of the implement. Good penetration is therefore guaranteed on heavy and dry soils.
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.
### Tine point and blade options

<table>
<thead>
<tr>
<th></th>
<th>Chisel point</th>
<th>Dual-heart point</th>
<th>Chisel point solo</th>
<th>Dual-heart blade</th>
<th>Quick-change</th>
<th>Quick-change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with duck foot point</td>
<td>with flat blade</td>
<td>with duck foot blade</td>
<td>with duck foot blade</td>
<td>duck foot point</td>
<td>narrow blade</td>
</tr>
<tr>
<td>2600</td>
<td>standard</td>
<td>alternative</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>3000</td>
<td>standard</td>
<td>alternative</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>2600 S</td>
<td>standard</td>
<td>alternative</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>3000 S</td>
<td>standard</td>
<td>alternative</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>4700 SH</td>
<td>standard</td>
<td>alternative</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>3003</td>
<td>–</td>
<td>–</td>
<td>standard</td>
<td>alternative</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>4003 K</td>
<td>–</td>
<td>–</td>
<td>standard</td>
<td>alternative</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>5003 K/T</td>
<td>–</td>
<td>–</td>
<td>standard</td>
<td>alternative</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>6003 T</td>
<td>–</td>
<td>–</td>
<td>standard</td>
<td>alternative</td>
<td>optional</td>
<td>optional</td>
</tr>
</tbody>
</table>

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Quality for the future

Machines with the cloverleaf mark are internationally successful with reliable quality and service.

Cathodic electrodip priming and powder coating – automobile paint quality.

Laser cutting machines for high-precision panel forming.

New durability centre for expendable parts.

The latest 3D construction.

Future-safe component part testing – at the new Grieskirch Technology and Innovation Centre, the most demanding working conditions are simulated and maximum limits are determined.

Pöttinger original expendable parts offer added value at a glance: High durability, precise fitting accuracy and constant availability.

Product delivery – Every Pöttinger customer has a right to the orderly delivery of the product by their Pöttinger sales agent, in order to ensure the guarantee.

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