Always the right choice

Rotary harrows and rotary cultivators are still the best all-rounder when it comes to seedbed preparation. No other soil tillage implement can be used so flexibly on ploughed or unploughed ground. Used in combination with a rear mounted or pack-top mounted seed drill, they are, for many farms, the ideal system solution.

Overview of features and benefits:

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<th>Page(s)</th>
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<tr>
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<td>32</td>
</tr>
</tbody>
</table>
We build in confidence!

There is now the right PTO-driven soil tillage system for every performance class and every size of farm.

AMAZONE now offers a total of 5 models:

• KE Special rotary harrow with working widths of 2.5 m and 3.0 m up to 140 hp
• KE Super rotary harrow with working widths of 3.0 m and 4.0 m up to 180 hp
• KX rotary cultivator with a 3.0 m working width up to 190 hp with option for trailing or “on-grip” tines
• KG Special rotary cultivator with working widths of 3.0 m, 3.5 m and 4.0 m up to 220 hp with “on-grip” tines
• KG Super rotary cultivator with working widths of 3.0 m, 3.5 m and 4.0 m up to 300 hp with “on-grip” tines

The “extreme” stone test track

All AMAZONE soil tillage implements are subjected to extreme stresses, being tested for several weeks on the stone torture track. This is not only for newly developed machines but also as part of series production supervision, meaning they are well prepared for the extremely wide range of operating conditions encountered when in actual use. This ensures the utmost reliability in all rotary harrows and rotary cultivators.
Quick tine change system:
The tines are simply pushed into the sockets of the tine carrier and secured with a lynch pin. It couldn’t be easier or quicker as there are no tine fixing bolts that require retightening. Even converting tine operation from “on-grip” to trailing mode is quick and simple. The tines, which are forged from special hardened steel, are elastic and wear-resistant.

Integrated stone release
The sprung tine fixing system allows the tines to yield when stones are encountered. The tines are firmly clamped in the socket in the centre of the tool carrier. The socket becomes wider towards the outside so that the horizontal part of the tine can twist out of position while remaining sprung. Much of the shock is absorbed when the tip of the tine hits a stone. This tine fixing system provides reliability on stony soils and allows the tines on the rotary cultivators to be set to “on-grip” mode.
Compare for oneself!

Superbly robust – Even at the highest work and transport speeds

The high hopper profile of the gear trough made of special hardened steel is extremely torsion resistant. The large clearance above the tool carrier and between the tines ensures the maximum passage of straw, earth and stones, even when the tines are heavily worn, which means low wear costs. The result is an excellent seedbed structure which promotes optimum germination of the young plants.

10 rotors on a 3 m working width provide clearance and robustness

More clearance means more robust drive components, stronger tines and better material passage.

Offset tine arrangement guarantees smooth running

The tines on AMAZONE rotary harrows and rotary cultivators are set at a special angle in relation to each other. This guarantees even soil crumbling and smooth machine running. Incidents of vibration and peak loading are thereby prevented. The machines suffer less stress, and the power and fuel requirement is reduced.
KE Special – The strong lightweight!

Light and easy to use, makes the job more enjoyable

The KE Special is the ideal solution for tractors up to 140 hp because it is robust and light at the same time. The KE Special with a working width of 3.0 m weighs just 850 kg and thus, the whole sowing combination including tooth packer roller and AD pack-top mounted seed drill with its perfectly placed centre of gravity weighs in at a mere 1,900 kg.

Quality in a series

The levelling bar levels the flow of soil between rotary harrow and roller, and presses down stones. The levelling bar is set in height comfortably and quickly via a crank handle thereby easily establishing the pre-conditions for an even reconsolidation via the following roller.

The flexible side plates prevent the outer tines from throwing out ridges. They are sprung mounted, allowing them to yield outwards in front of obstructions such as stones.
with e-box
KE Super – the reliable, long-distance runner

Seedbed preparation under extremely harsh conditions

The KE Super is just the right machine for the demanding requirements of a modern arable farm. Due to its sturdy design, it is fine-tuned against hard permanent stresses. For tractors up to 180 hp, the KE Super is the right rotary harrow for a punchy sowing combination.

Comfortable, simple and reliable – technology which is a cut above average

The working depth of the rotary harrow can be easily adjusted by repositioning and turning an eccentric pin in 16 different settings. During operation the carrying arm rests underneath the eccentric pin and when lifted it drops onto the gear case trough. In this way, the rotary harrow or rotary cultivator can jump over stones without having to raise the roller and the seed drill at the same time. This saves tines and rotor damage.
The side plates are mounted on sprung suspension which allows them to yield upwards when stones are encountered. A long carrying arm and sturdy springs also make the KE Super reliable to use on stony, heavy soils.

As an option, the soil can be loosened in the tractor wheel marks with the height-adjustable eradicator tines. The wheel mark eradicators are equipped with a sprung overload safety device to protect against damage.
e-box – the innovative gearbox for rotary harrows

The direct drive

A simple angle drive redirects the power only once and connects directly with the tine carriers.

- That saves fuel as fewer gear wheels mean less internal friction, less heat generation and less wear.
- The highest torques only appear directly at the rotor shaft. That provides a high level of durability and reliability, and puts less stress on the tractor.
Less weight – more efficiency

**KE Special: only 850 kg over 3 m**

E-box is lighter than other gearboxes.

- That saves weight and requires less lifting power. Even smaller tractors can lift this rotary harrow.

**Rotor speed change: simple and quick**

Without requiring tools, the rotational speed of the tines can be changed by interchanging the two bevel gears, even when working in the field.

- This system allows optimum adaptation to any soil conditions, can be easily managed and is cost-effective because no additional replacement gears are required.

**Speeds of rotation**

<table>
<thead>
<tr>
<th>540 rpm</th>
<th>750 rpm</th>
<th>1,000 rpm</th>
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<tbody>
<tr>
<td>PTO shaft</td>
<td>PTO shaft</td>
<td>PTO shaft</td>
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<tr>
<td>152 rpm</td>
<td>212 rpm</td>
<td>282 rpm</td>
</tr>
<tr>
<td>200 rpm</td>
<td>280 rpm</td>
<td>373 rpm</td>
</tr>
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</table>

The PTO shaft through drive is fitted as standard enabling the rotary harrow to be fitted to a front linkage frame and powered from the rear, or used to drive a pack-top mounted implement, such as a pneumatic seed drill.
Rotary cultivator: the Cultimix system

De-mixing effect

The “on-grip” tine position has proved its effectiveness particularly when mulch sowing as it guarantees a thorough mixing of soil and organic residues. When set to “on-grip” the tines break up the soil from underneath creating no smeared horizons. Coarse clods are thrown further than the finer tilth and as a result, the fine soil collects in the lower part of the working zone, while the coarser clods remain on the surface.

The seed is therefore placed in the area where the fine soil is collected with the coarser clods staying on the surface to protect the soil from capping, drying and wind and water erosion, and provide protection for young plants. This creates the optimum conditions for good seedling emergence.
Intelligent crop establishment with “on-grip” tines

Always maintains the set working depth

The AMAZONE rotary cultivator always maintains the set working depth, whether the soil is ploughed, cultivated or even not worked at all, even in heavy soils, as the tines in the leading position draw themselves down into the soil.

More clearance

The large frame height, the absolutely smooth trough bottom without bracing pieces and the long tines ensure the maximum clearance between the trough and the tine carriers. Even extremely large clods of soil or volumes of straw can therefore pass through without hindrance. The tines have a long service life, i.e. low wearing metal costs.

The principle of higher yields with less outlay

Soil builds up in front of other makes of rotary harrow which have a low gearbox trough, especially when the tines are worn.
Rotary cultivator: ruggedness wins the day

Strong rotor head
The rotor shaft and tine carrier is forged in one piece from high grade steel. The shaft diameter is a heavy-duty 60 mm.

The rotary shaft is supported by bearings with the optimum bearing spacing. Downward sealing is with a special cassette seal with an optimum sealing effect and maximum service life. In addition, labyrinth seals prevent the ingress of plant fibres.

Robust trough
The high-standing 8 mm thick gear case made in a trough-type profile with double skin base and welded-in bearing sleeves is extremely resistant to distortion, which enables it to easily withstand the high forces that occur when transporting heavy packer rollers and pack-top mounted seed drills without cumbersome external bracings.

Illustration of KX and KG rotor shaft (scale 1:1)
Compare the details

Cross section of KX and KG

Welded, torsion-resistant trough-type profile made of 8 mm special steel

Hardened spur gears

Double skinned trough base

Welded-in bearing sleeves

Heavy-duty taper roller bearings with wide spacing between mounting points (100 mm)

Large clearance between tool carrier and smooth trough base for blockage-free mulch sowing

Double sealing system with cassette sealing ring against oil loss and labyrinth seal against entry of plant fibres and dirt

Large clearance between tool carrier and smooth trough base for blockage-free mulch sowing

Safe system: sprung tine fastening system for protection against stones

Quick system: tine fastening system for faster tine change

Tool carrier and shaft in one-piece casting with large diameter shaft (Ø = 60 mm)

320 mm long “on-grip” tines made from hardened boron steel for long lifespan

Quick system:
Tine fastening system for faster tine change
New KX series rotary cultivator

The gap between the KE and KG ranges has been reduced with the introduction of the KX rotary cultivator with a working width of 3.0 mm for the 190 hp tractor class. It now offers the right implement for all PTO-shaft driven soil tillage requirements.

Many farmers want to use a flexible machine for differing soil and operating conditions. That means, for example, a rotary cultivator with tines set to “on-grip” on relatively heavy soils for mulch sowing and a rotary harrow with tines set to trailing mode on lighter, stony soils, so that the stones are pressed back down into the soil.

Previously, the tines have often simply been turned from “trailing” to “on-grip”. The finished result can then often be unsatisfactory, because only tines specially designed for each specific purpose can produce the best work.
The proven tine quick-change system enables the KX to be converted without tools and in next to no time into a specialist machine which is suited to the particular ground conditions.

The optional rotary harrow tines are simply pushed into the sockets of the tine carriers and secured by pin and lynch pin. It couldn’t be easier or quicker. There are no tine fixing bolts that require retightening.

The KX is switched to the “on-grip” tine setting when heavy soil conditions are encountered. The “on-grip” position has proved itself the most ideal for mulch sowing, as an intensive mix of soil and organic residues is ensured.
KG Special rotary cultivator

The Original is always the best!

The high output KG Special with working widths of 3.0 m, 3.5 m or 4.0 m for tractors up to 220 hp.

Incorporation effect

The AMAZONE rotary cultivator tines mix soil and straw evenly through the working depth. Even large amounts of organic residues are properly incorporated.

The standard “on-grip” tine option is now available in a new reinforced version for an even longer service life. This new type of tine is fitted as standard on the KG Super.
With TL deep loosening: all in one operation

Deep loosening, seedbed preparation, reconsolidation, sowing and seed coverage.

The compact TL deep loosener breaks open the soil. With this feature, AMAZONE now offer the option of plough-less cultivation even where a high level of straw prevails.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>TL 3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width</td>
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<tr>
<td>Transport width</td>
<td>3.00 m</td>
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<td>Number of deep loosening legs</td>
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<tr>
<td>Width of the wing share</td>
<td>30 cm</td>
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<tr>
<td>(60 cm optional as separate item)</td>
<td></td>
</tr>
<tr>
<td>Frame height</td>
<td>1,000 mm</td>
</tr>
</tbody>
</table>
KG Super rotary cultivator

The “muscle man”

The KG Super with working widths of 3.0 m, 3.5 m or 4.0 m and a new high capacity gearbox for tractor outputs of up to 300 hp.

The KG Super has reinforced tines as standard and can be ordered with hydraulic depth adjustment and oil cooler as options.

100 % would buy AMAZONE again

Extracts from owner survey in top agrar magazine 06/2000:

✓ Rotary cultivator tines are clearly on the cutting edge of a trend.
   In nearly all operations, KG tines performed better than the two other tine profiles.

✓ A striking feature is the high-quality mixing effect. In dry, hard conditions, the tines can tear up more soil, which makes it easier to mix in harvest residues. Rotary cultivator tines are very insensitive to stones. Although the tines work on land with the highest degree of stones, they attain the best score. The tines in the tine fixings can deviate in their course by several millimetres.

✓ As a further development on from the tyre packer, the AMAZONE wedge ring roller received the best marks out of all the rollers. The re-consolidation in the seed furrow, for example, received a mark of 1.3. Sticking is apparently not an issue.
Continuous operation even in very hot climatic conditions presents no problem, thanks to the optional oil cooler.

Optional oil cooler

Optional hydraulic depth adjustment
Folding rotary cultivator
with working widths of 4.0 m, 5.0 m or 6.0 m

The right working width for tractors of any power

The 4.0 m, 5.0 m and 6.0 m working width rotary cultivators fold hydraulically to a transport width of 3.0 m and are suitable for tractors up to 220 kW (300 hp).

The main gearbox of the folding rotary cultivator is equipped with 3-speed lever change for rapid adjustment of the tine speed to different soils and working intensities.

The correct tine speed can be set in seconds by selecting the right gear, especially when going from farm to farm or under frequently changing operating conditions. This makes it possible to achieve the optimum working quality under all conditions.

Hydraulic working depth adjustment is also available as an option with the foldable rotary cultivator. This can be used to conveniently change the depth from the tractor seat whilst on the move, where, for example, shallow cultivating is required on uneven ground or deep cultivating in hollows. This enables an extremely high degree of flexibility and energy-efficient use.

The compact design of the particularly robust folding rotary cultivator allows high output use even in smaller fields.

The benefits:

Short changeover times between individual operations increases cost-effectiveness.

The switch over from one field to the next is fast and simple:
fold the unit in hydraulically, drive to the next field, fold out again and set to work!
For individual use or as Avant front tank drill combination

**Compact – punchy – fast**

Avant front tank drill combination in 6.0 m working width

The Avant drill combination comprises the front tank and folding rotary cultivator. For agricultural contractors and large farms, the result is a very flexible all-round combination with which high work rates can be achieved rationally.
East to tow, thanks to the wedge ring tyres

The AMAZONE wedge ring tyres ensure that the seedbed is reconsolidated just in strips that are targeted to the sowing requirements. Thanks to the low rolling resistance of extra large diameter wedge ring tyres of 1,050 mm, the Cirrus Activ works with a very low drag effect even on tracts of land which have been over-loosened and have received very little reconsolidation.
Cirrus Activ – the high-output package for large areas

Flexible in use thanks to integrated rotary cultivator

At the heart of the Cirrus 6000 Activ is the integrated KG 6000-2 rotary cultivator. It mixes together quantities of soil and harvest residues, creating the right amount of fine earth content for the perfect seed embedment of the following crop. The depth at which the rotary cultivator operates is reliably controlled via the preceding tyre packers. The depth can be set via over-centre segments and also adjusted deeper hydraulically while travelling. The stone release integrated as standard means that the rotary cultivator is not susceptible to stony ground.

Extra benefit: the intensity of the tillage can be adjusted to the ground conditions at each location via a range of different speeds. In this way, the machine can travel more slowly on very heavy soil and cultivate intensively, or travel at up to 15 km/h under lighter soil conditions, working at a lower intensity of cultivation.
„Liftpack“ drill mounting system

Easily combined with seed drills and precision air seeders

The AMAZONE “Liftpack” drill mounting system reduces the force required for lifting by approx. 25%. During turning, the rotary harrow of the rotary cultivator is only slightly raised out of the ground, so that the PTO shaft can continue turning.

Take the increased manoeuvrability of this sowing combination into account; a real time-saver.

The seed drill can be lifted up to its maximum by the “Liftpack” system. For street transport, the centre of gravity is brought closer to the tractor. The vehicle combination is more agile and can be driven more freely.

The “Liftpack” is also beneficial if the seed drill or precision air seeder need to be worked in solo operation without the rotary harrow. The machines can be easily removed and mounted directly onto the back of the tractor linkage.

Front-mounting frame for KE series

An appropriate front mounted frame was developed for the KE Special and KE Super range, especially for farms which require that the ground is tilled very intensively in one passage. In combination with light rollers with a diameter of up to 500 mm, the farmer has a practicable way of making use of the tractor’s front mounting space for a ground tilling implement. Rotary harrows are front-mounted particularly often in potato cultivation, in combination with a potato planting machine at the rear.
For well matched packer rollers

Cage roller

- Economical
- Consolidation with depth effect
- Good for preparatory work for planters or for deep sowing

Tooth packer roller

- Consolidation is comprehensive over the entire surface
- Runs blockage free, even on sticky soils and where there is a lot of straw
- Scrapers fitted as standard, wear-resistant thanks to hard metal coating (3 to 5 times longer service life in comparison to non-coated scrapers)
- Low set scrapers ensure a smooth surface even on wet ground

Wedge ring roller

- Universal for all soils and conditions
- Reconsolidation in strips. The seed is sown in the reconsolidated strips by the coulter following behind
- Even where the soil is heavy, sufficient loose earth remains available to provide the seed with optimum cover
- Excellent suitability in any weather, wet or dry
Wedge ring roller: targeted reconsolidation ... for optimum plant development.

A roller’s primary task is soil reconsolidation. Wedge ring rollers use rubber rings to form reconsolidated strips in which the seed is sown. The harrow that follows it covers the seed with loose soil from the unconsolidated area.

Reconsolidating in strips ensures that the soil constitution around the plants is always right for the current weather conditions, and so provides the best chances of rapid, uniform plant development. The wedge ring roller thus serves as insurance for just-in-time tilling.

Seeding insurance!

In very dry periods – The water pump principle
The consolidated strips ensure good root system development directly in the row. In this way, capillary water reaches the seedling even in extremely dry weather.

The wedge ring roller turns your soil into a water pump.

In very wet periods – the drainage principle
The loose soil absorbs rain well and stores it. Rain from heavy downpours simply drains into the unrolled, loose areas. This prevents soil erosion. In this case, your soil works like a drain.

Even in heavy, wet soils, there is still enough loose earth between the rows to cover the seeds with loose soil.

Gas exchange – the lung principle
The loose earth also enables gases to be exchanged, so that the roots can breathe.
Well supported saves fuel

Large diameter

Rollers with a large diameter pull easier, because the weight is distributed over a larger footprint. So wedge ring rollers have a large diameter of 520 or 580 mm. The roller then runs easily over the heaviest terrain.

Rollers with large diameters run more smoothly than those with small diameters. So the wedge ring roller can operate at higher sowing speeds and yet offer the same, precise seed embedment.

The mechanical or pneumatic pack-top mounted seed drills from AMAZONE are fixed directly on the wedge ring roller. This ensures optimum weight transfer to the roller. The total weight is supported reliably, which in turn guarantees a precise sowing depth. At the same time, your soil tillage equipment, such as the rotary cultivator for instance, can travel unobstructed over stones.

Reliable scrapers

The individually adjustable scrapers can be positioned optimally to ensure that the wedge ring roller does not become clogged and runs easily even in soils with a high clay content or in fields with large quantities of post-harvest residue. This means less diesel is used.

Robust steel roller body

Closed roller

As a general rule, closed rollers perform better than open rollers, particularly on loose, light soil. Open rollers also become clogged more easily than closed rollers. This is why the rubber rings in the wedge ring roller are fixed to a closed cylinder. If the wedge rings sink in loose soil, the weight is distributed over the entire length of the cylinder.

There is no sticking, clogging or blocking.
Cultivating, consolidating and seed drilling in a single package

The high profile of the gear trough made of special hardened steel is extremely torsion resistant. The KE rotary harrow and KG rotary cultivator are therefore optimally suited to be combined with AMAZONE rollers and seed drills. An AMAZONE sowing combination from one source guarantees no planting problems.

Combination with pack top gravity seed drill

The AMAZONE pack top seed drill is placed directly on the roller thereby aiding the reconsolidation of the seed bed. The rotary harrow or rotary cultivator can thus avoid encumbrance from stones by being able to move freely upwards. If, however, the seed drill were placed directly on the rotary harrow or the rotary cultivator, the tines and drive would be exposed to an unnecessary risk of damage.

DLG FOCUS TEST seed drill 10/2007

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test result</th>
<th>Assessment</th>
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</thead>
<tbody>
<tr>
<td>Consistency of seed rate</td>
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<td>++</td>
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<tr>
<td>Lateral distribution</td>
<td>excellent</td>
<td>++</td>
</tr>
</tbody>
</table>

Evaluation range: ++/+/+/-/- (o = standard)

DLG test report 5724F
In 50 years, AMAZONE has built approx. 200,000 seed drills which have proven themselves by providing outstanding agricultural performance in practice.

Combination with pneumatic pack-top mounted AD-P seed drill

Of course, the construction of the pneumatic AMAZONE seed drills is optimally adapted to the rotary harrow or rotary cultivator. AMAZONE pneumatic sowing combinations are sturdy, compact, have a large seed tank and a translucent distributor head. The metering is freely accessible so that calibrating and residual amount disposal is easy.
# Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>For tractor-output up to kW/hp</th>
<th>Power requirement from kW/hp</th>
<th>Working width m</th>
<th>Transport-width m</th>
<th>Number of rotors</th>
<th>Weight without roller kg</th>
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<tbody>
<tr>
<td>KE 2500 Special</td>
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<td>40/55</td>
<td>2.50</td>
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<tr>
<th>Model</th>
<th>For tractor-output up to kW/hp</th>
<th>Power requirement from kW/hp</th>
<th>Working width m</th>
<th>Transport-width m</th>
<th>Number of rotors</th>
<th>Weight without roller kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>KE 2500 Special</td>
<td>102/140</td>
<td>40/55</td>
<td>2.50</td>
<td>2.50</td>
<td>8</td>
<td>700</td>
</tr>
<tr>
<td>KE 3000 Special</td>
<td>102/140</td>
<td>48/65</td>
<td>3.00</td>
<td>3.00</td>
<td>10</td>
<td>850</td>
</tr>
<tr>
<td>KE 3000 Super</td>
<td>131/180</td>
<td>59/80</td>
<td>3.00</td>
<td>3.00</td>
<td>10</td>
<td>860</td>
</tr>
<tr>
<td>KE 4000 Super</td>
<td>131/180</td>
<td>66/90</td>
<td>4.00</td>
<td>4.03</td>
<td>14</td>
<td>1120</td>
</tr>
</tbody>
</table>

**Illustrations, content and technical data are not binding!**

## AMAZONE seed drills generate profit!

- Mounted seed drill D9
- Pack-top mounted seed drill AD3
- Pneumatic seed drill AD-P Special/AD-P Super
- Avant pneumatic front tank combination
- Cirrus pneumatic mulch sowing combination
- Primera DMC pneumatic mulch and direct seed drill