



AMAZONE

AD-P 01 Special KE/KX/KG 01



Pneumatic seed drill combination

AD-P 01 Special power harrow-mounted seed drill with KE 01 rotary harrow or KG/KX 01 rotary cultivator



! “Don’t worry about the harvest,
but about the right cultivation of your fields.”

(Confucius circa. 500 BC)

With this pneumatic sowing combination, AMAZONE offers the ideal solution for combining soil tillage and sowing. Via the combination of the new generation of active soil tillage tools, such as the KE rotary harrow or KG and KX rotary cultivators and the AD-P 01 harrow-mounted pneumatic seed drill, the best pre-conditions for successful crop establishment are created.



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AD-P 3001 Special with KG 3001 Special

Clever, precise and efficient



AD-P 3001 Special
pack top seed drill



KE rotary harrow
or KX/KG rotary
cultivators

with reconsolidation roller

- ✓ PW tooth packer roller
- ✓ TRW trapezium roller
- ✓ KW wedge ring roller or
- ✓ KWM wedge ring roller
with Matrix tyre profile

All from a single source!

Make use of the strengths of the sowing combination!

The AD-P 3001 Special pack top seed drill can be, from choice, mounted on a KE rotary harrow or a KX/KG rotary cultivator. With various models of reconsolidation roller available, it is possible to specify a complete unit of soil tillage and drill that are perfectly matched to the prevailing soil conditions.

Thanks to the intelligent interface, the soil tillage implement can be very simply split within a few minutes from the pack top seed drill. So, the rotary harrow or rotary cultivator can be easily utilised for solo operation.



KE 01 rotary harrow and KX/KG 01 rotary cultivators

Long-Life-Drive

For all rotary harrows and rotary cultivators

As an option with **trailing tines**
or **“on-grip”** tines

The top benefits:

- ⊕ Comfortable adjustment via the universal setting tool
- ⊕ Setting the levelling board – thanks to its guidance via the reconsolidation roller, no continual readjustment of the height is necessary
- ⊕ Simple and exact adjustment of the working depth via eccentric pins
- ⊕ Option: hydraulic working depth adjustment from the tractor cab
- ⊕ Spacious clearance between the tines and above the tine carriers – for the easy handling of extreme quantities of straw and soil
- ⊕ With Long-Life-Drive system, designed to withstand extreme loads and prolongs the service life
- ⊕ With Quick+Safe System – the proven quick tine change system with integrated stone safety protection
- ⊕ Tine carrier and shaft forged from one piece
- ⊕ Highly strong due to the deep frame and the robust trough profile with double-skinned trough bottom



Exceptionally strong

thanks to the deep frame and robust trough profile

Tine carrier & rotor shaft

forged from one piece

Quick-System

Quick tine change system

+

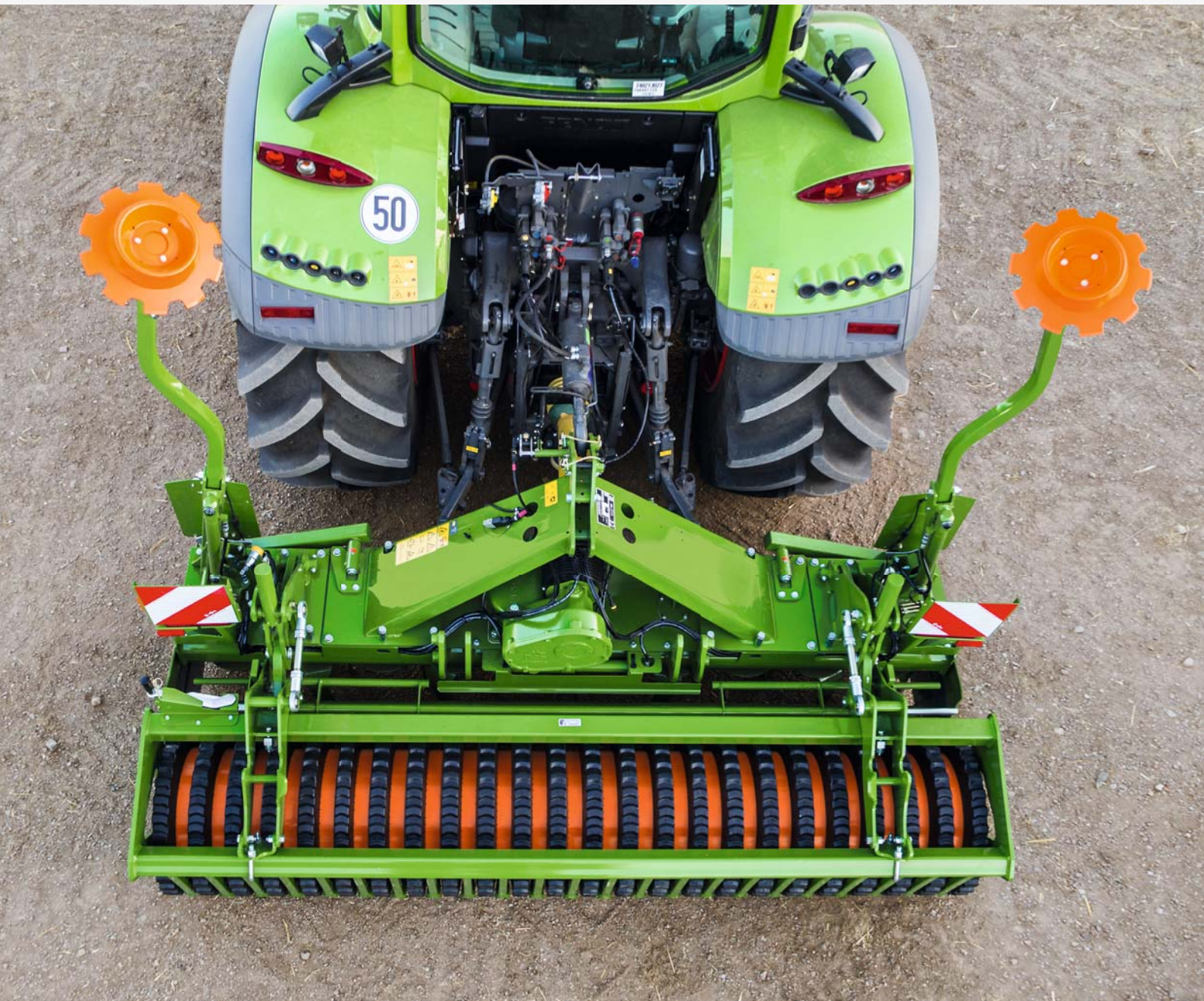
Safe-System

Integrated stone protection



The KE 01 rotary harrows and the KX/KG 01 rotary cultivators, in a working width of 3 m, are ideally suited for solo operation or in combination with a harrow-mounted seed drill for sowing. When equipped with an appropriate following roller a very good reconsolidation is achieved.

Always the right choice: Rotary harrow or rotary cultivator



✓ Quickly uncoupled for solo operation

The Original – always the best!

KE Special/Super 01 rotary harrow – the reliable, long-distance runner

The KE 01 rotary harrow, in a working width of 3 m, is the ideal machine for seedbed preparation on lighter soils. Both in solo operation or in combination with a power harrow-mounted seed drill, a fine crumbled seed bed is achieved with the trailing tines.

KE 3001 Special

✔ for tractors up to 140 HP/102 kW

Benefits of the KE Super 01:

- ⊕ Finely-crumbled seedbed
- ⊕ Easy rotor speed change by simply repositioning the bevel gears in the gearbox
- ⊕ Light, handy and at the same time robust – thanks to the double-skinned trough design

KE 3001 Super

✔ for tractors up to 180 HP/135 kW

KX 01 rotary cultivator – the perfect all-rounder

The KX 01 rotary cultivator, in 3 m working width, is the ideal machine for seedbed preparation on medium to heavy soils.

Both in solo operation, or in combination with a power harrow-mounted seed drill, the machine can be very flexibly operated, thanks to the tine quick change system and a choice of trailing tines or with 'on-grip' tines. A wide range of different exchange gear sets make possible, additionally, a variety of different tine speeds.

Benefits of the KX 01:

- ⊕ Very flexible and effective across its range of application
- ⊕ Short set up times by the proven tine quick change system
- ⊕ Can be utilised as a rotary harrow or rotary cultivator

KX 3001

✔ for tractors up to 190 HP/142 kW

KG Special/Super 01 rotary cultivators – not just universally brilliant but a strong as a horse as well

The 3 m wide, KG 01 rotary cultivator is the ideal tool for seedbed preparation on heavy soils.

Both in solo operation, or in combination with a power harrow-mounted seed drill, the machine, thanks to the tine quick change system, can be operated very flexibly from choice with either trailing or 'on-grip' tines.

KG 3001 Special

✔ for tractors up to 220 HP/161 kW

Benefits of the KG Special and KG Super 01:

- ⊕ Reinforced trough profile, thicker shaft diameter and stronger tines
- ⊕ Loosening of hard, firm soils without a problem
- ⊕ Intensive incorporation of straw and other organic matter

KG 3001 Super

✔ for tractors up to 300 HP/220 kW

Long-Life-Drive

For all rotary harrows and rotary cultivators

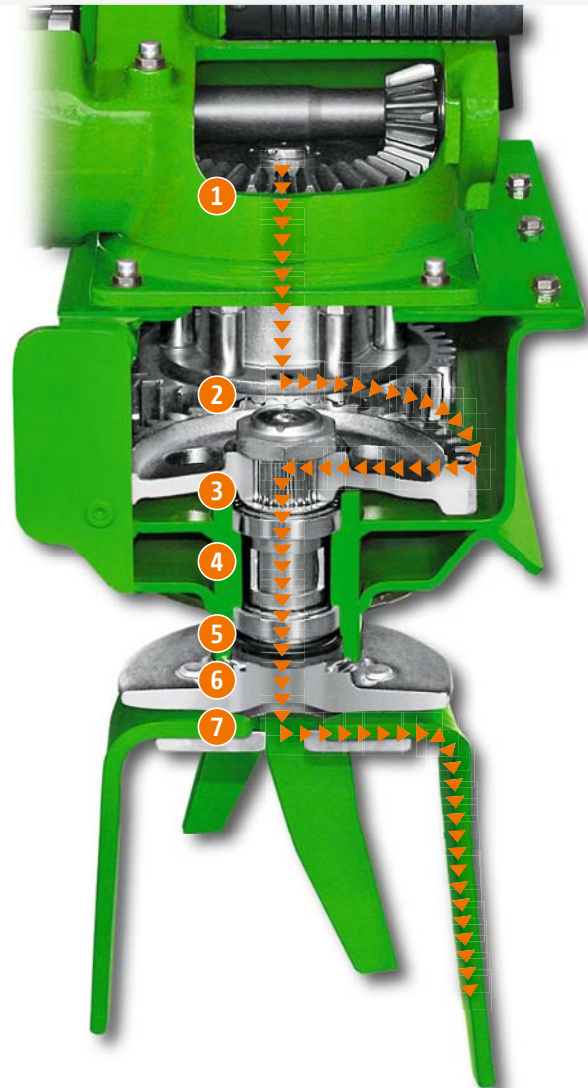
Quality within the system

Long-Life-Drive is the optimised drive system for all AMAZONE rotary harrows and rotary cultivators that ensures an extended operating life, maximum smooth running and a high resale value. Gear wheels and bearings run in a single oil bath and so are maintenance-free – there are no grease nipples.

- ① Robust gearbox
- ② Over-dimensioned spur gears
- ③ Exact spacing of all bearing seats for a maximum smooth running
- ④ Wide-spaced taper roller bearings
- ⑤ Double labyrinth seal prevents ingress of dirt and crop residues
- ⑥ One-piece tine carrier and drive shaft. KX & KG rotary cultivators with 60 mm diameter drive shaft
- ⑦ Quick+Safe System with proven, tool-less tine change solution and integrated stone safety protection

Staggered tine layout 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 an even soil crumbling and a smoother machine running. Incidents of vibration and peak loading are thereby prevented. The machines suffer less stress, and the power and fuel requirement is reduced.



AMAZONE: 10 tine carriers



In comparison: other rotary harrows with 12 tine carriers

- ✓ 10 tine carriers on a 3 m working width provide clearance and strength
10 tine carriers mean more room and more robust drive components, stronger tines and better material passage.

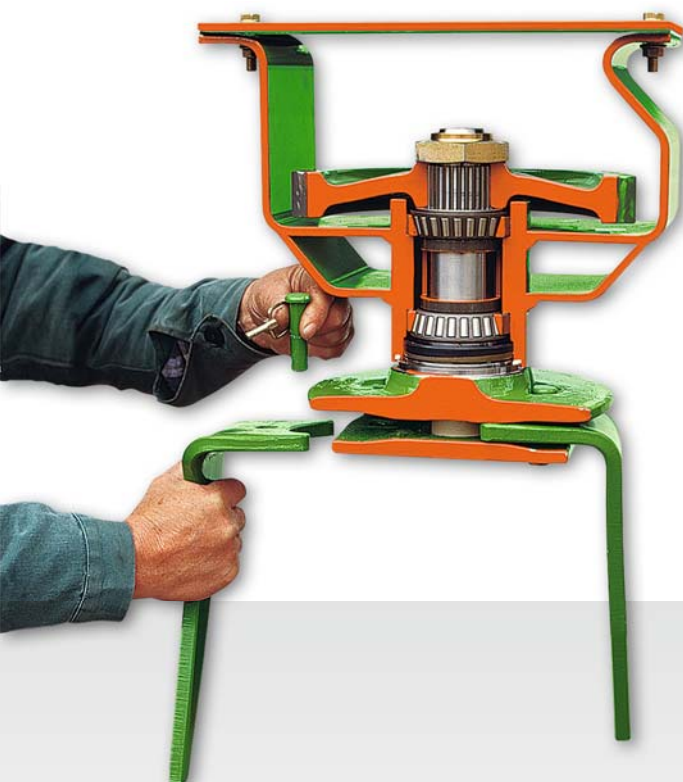


Across the KE, KX and KG – more than 75,000 satisfied customers

Quick-System

Quick tine change system

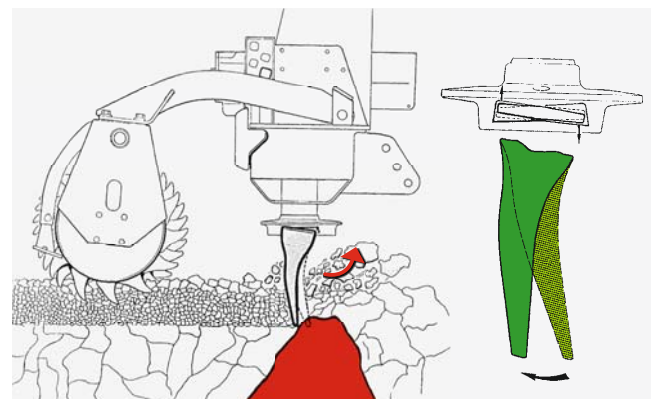
The tines are simply pushed into the sockets of the tine carrier and secured with a lynch pin. It couldn't be easier or quicker as there are no tine fixing bolts that require retightening. Even converting tine operation from "on-grip" to trailing mode is quick and simple. The tines, which are forged from special hardened steel, are elastic and wear-resistant.



Safe-System

Integrated stone protection

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 tine 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 ensures the safe operation in stony soils and allows the tines on both the KX and KG to be used in the "on-grip" mode.



Tines for every application



KE tines



KX/KG tines
Trailing



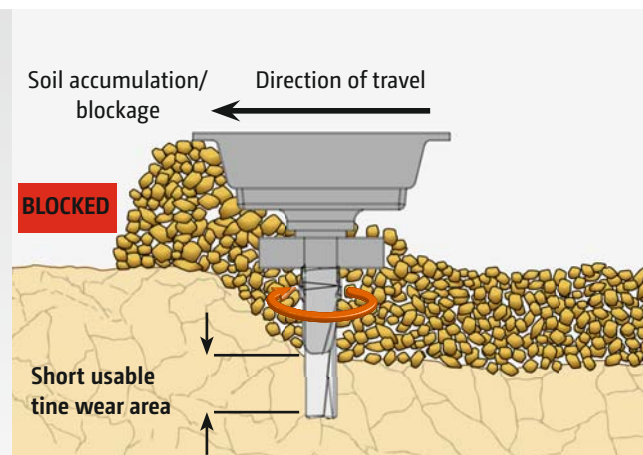
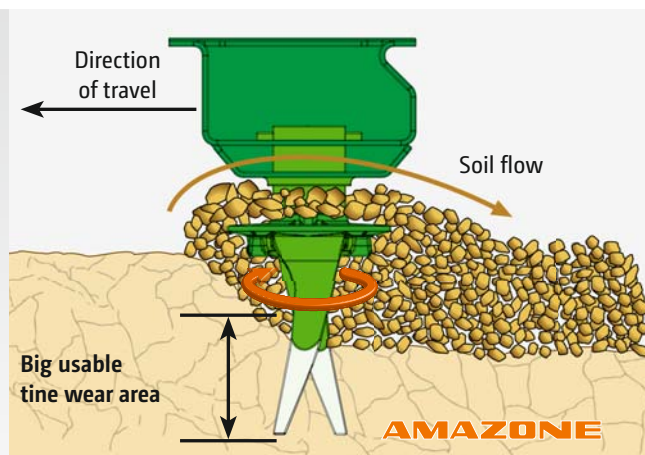
KX/KG tines
'On-grip' Special



KX/KG tines
'On-grip' Super



KX/KG
Potato tines



More clearance on the KE, KX and KG

The large frame depth, the completely smooth trough bottom without bearing housings 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. An excellent seedbed structure is achieved that promotes the optimum field emergence of the young plants.

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.

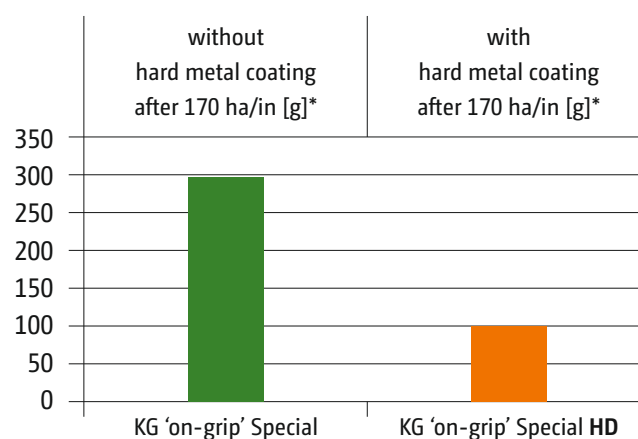
For the KX/KG rotary cultivators, a suitable tine is available for any application.

HD tines for an even longer life span

With the HD tine, AMAZONE offers a tine which, due to its hard metal coating, features an up to three times longer service life.

By using HD tines, running costs are minimised and, at the same time, valuable operating time for readjustment and tine changing is saved.

Tine wear in comparison



KX/KG tines
'On-grip' Special HD

* The tine wear depends on soil type, moisture content, operational speed, working depth, ...

Equipment levels that delight!

For more output and comfort





✓ Adjustable levelling board

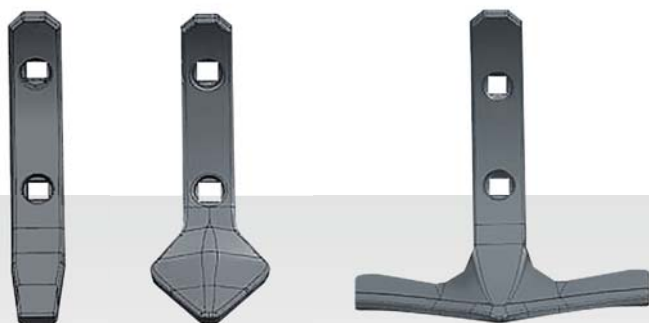
Levelling board

The standard levelling board levels the soil flow between the tines and the following roller and presses obstacles downwards. The height of the levelling board can be adjusted using the universal setting tool. Irrespective of the working depth, the height of the levelling board is maintained as the levelling board is guided parallel to the following roller.

On contact with bigger obstacles, the integrated overload safety device allows the levelling board to give way upwards.

Tractor wheel mark eradicators

For operation on compaction-sensitive soils and at a reduced working depth, the optionally available tractor wheel mark eradicators make sense. They loosen the packed wheel tracks behind the tractor tyres. The position of the wheel mark eradicator can be adjusted horizontally and vertically. Depending on soil type and application of the machine, the wheel mark eradicator can be equipped with different loosening shares. The overload safety device provides a maintained release force in all positions.



Narrow share, diamond share and wing share



✓ Sprung-loaded side plates

Side plates

The newly-developed side plates are sprung loaded. Thanks to their suspension, the side plates can be adjusted via a slotted hole and, when worn, be simply exchanged. The universal setting tool supplied as standard is all that is necessary to make the adjustment.



Working depth adjustment – precise and comfortable

Depth adjustment

The parallel guidance of the following roller and the leveling board allows the very easy and independent setting of the working depth. By the simple repositioning of the eccentric pin, the working depth can be conveniently matched to the field and operational conditions.

KX/KG hydraulic depth adjustment

The optionally available hydraulic depth adjustment for the KX/KG rotary cultivator offers the driver even more comfort and operational possibilities than before, as now, the leveling board is guided in parallel via the following roller and so does not require any readjustment when changing the working depth.

If required, for instance when working deeper on the headland, the rotary cultivator can be steplessly adjusted comfortably from the tractor cab. So any change in soil conditions can be directly responded to and the optimum quality of work maintained.



✓ KX/KG hydraulic depth adjustment



✓ Mechanical depth adjustment



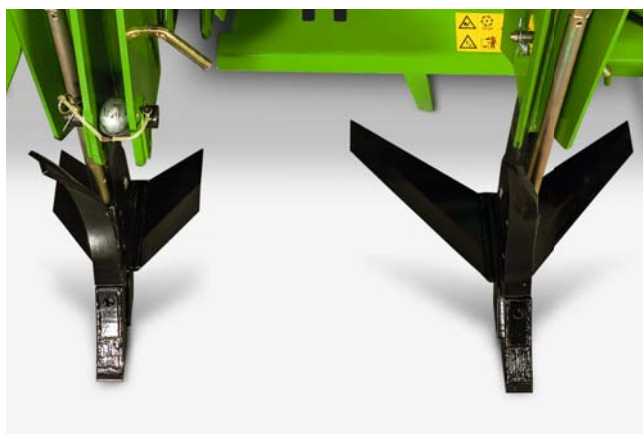
✓ Parallel guidance of the roller

Deep loosening

All in one operation

TL 3001 deep loosener

The compact TL deep loosener, with its 4 tines, makes it possible to loosen the soil down to a depth of 25 cm. With this system, AMAZONE offer the option of plough-less cultivation, even where a high level of straw prevails. Plough-less cultivation in one pass prevents soil compaction in the sowing horizon.



- ✓ As standard, 30 cm wing shares are used but, as an option, a wider loosening 60 cm wing share and a side plate extension are available.

	TL 3001 deep loosener
Working width (m)	3.00
Transport width (m)	3.00
Number of deep loosening legs	4
Width of the wing share (cm)	30 (60 cm option as a loose supplied part)
Frame height (mm)	1,000
Weight (kg)	494

Roller programme

For any soil type, the right choice

PW tooth packer roller/500 mm/600 mm

The PW tooth packer roller features a good self-driving effect and, with its leading teeth, it performs a good reconsolidation all across the whole surface.

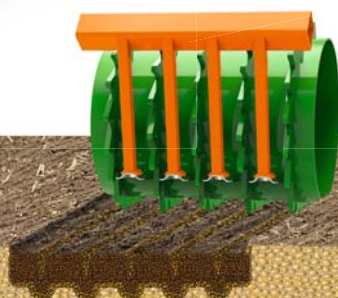
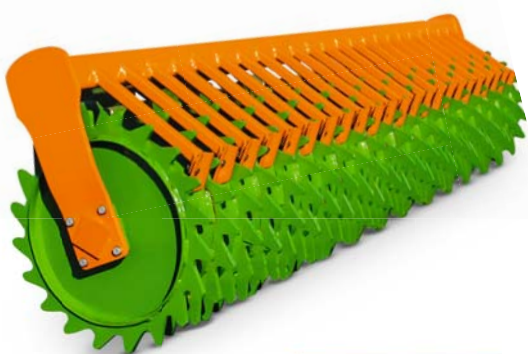
Due to its performance, the tooth packer roller is universally usable.

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

TRW trapezium roller/500 mm/600 mm

With its trapezium rings, the TRW trapezium roller provides a reconsolidation in strips. Due to its good carrying ability, the trapezium rings on light soils are prevented from sinking in too deep.

- ⊕ Good carrying ability
- ⊕ Reconsolidation in strips
- ⊕ Sufficient fine earth
- ⊕ As standard with hard metal coated, wear resistant scrapers



Versatile following roller programme – for optimum plant development

The most important task of a roller is reconsolidation. Due to the many possible challenges (seed/soil conditions/lifting power of the tractor) a large variety of different following rollers is therefore available. So, the right roller can be chosen for any seed and for any soil type.

The coupling frame simultaneously serves as a mounting point for the levelling board so that it is guided always at the right height to the following roller.

KW wedge ring roller/520 mm*/580 mm

The KW wedge ring roller benefits from a wide range of applications. Due to its design, the strip-wise reconsolidation is ensured in virtually all soils and under any conditions.

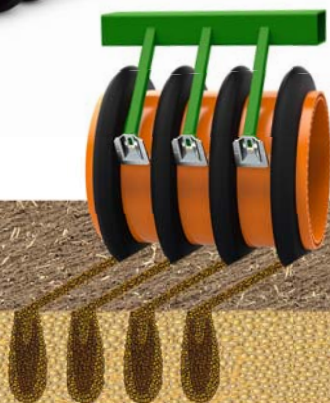
There is no chance of sticking, clogging or blocking up.

- ⊕ Universal for all soils and conditions
- ⊕ Reconsolidation in strips
- ⊕ Even in heavy soils, sufficient loose earth is available for the optimum seed coverage
- ⊕ Very well suited to any weather, no matter whether moist or dry
- ⊕ Smooth coulter travel due to the pre-formed seed furrow

KWM wedge ring roller with Matrix tyre profile/600 mm

The KWM wedge ring roller, with its Matrix tyre profile, features an especially good self-driving ability and, with its Matrix tyre profile, the roller produces more fine soil for the seedbed.

- ⊕ Reconsolidation in strips
- ⊕ Matrix tyre profile for improved self-drive ability
- ⊕ Improved crumbling even under tough conditions
- ⊕ Smooth coulter travel due to the pre-formed seed furrow
- ⊕ Very well suited to any weather, no matter whether moist or dry



*only for 12.5 cm row spacing



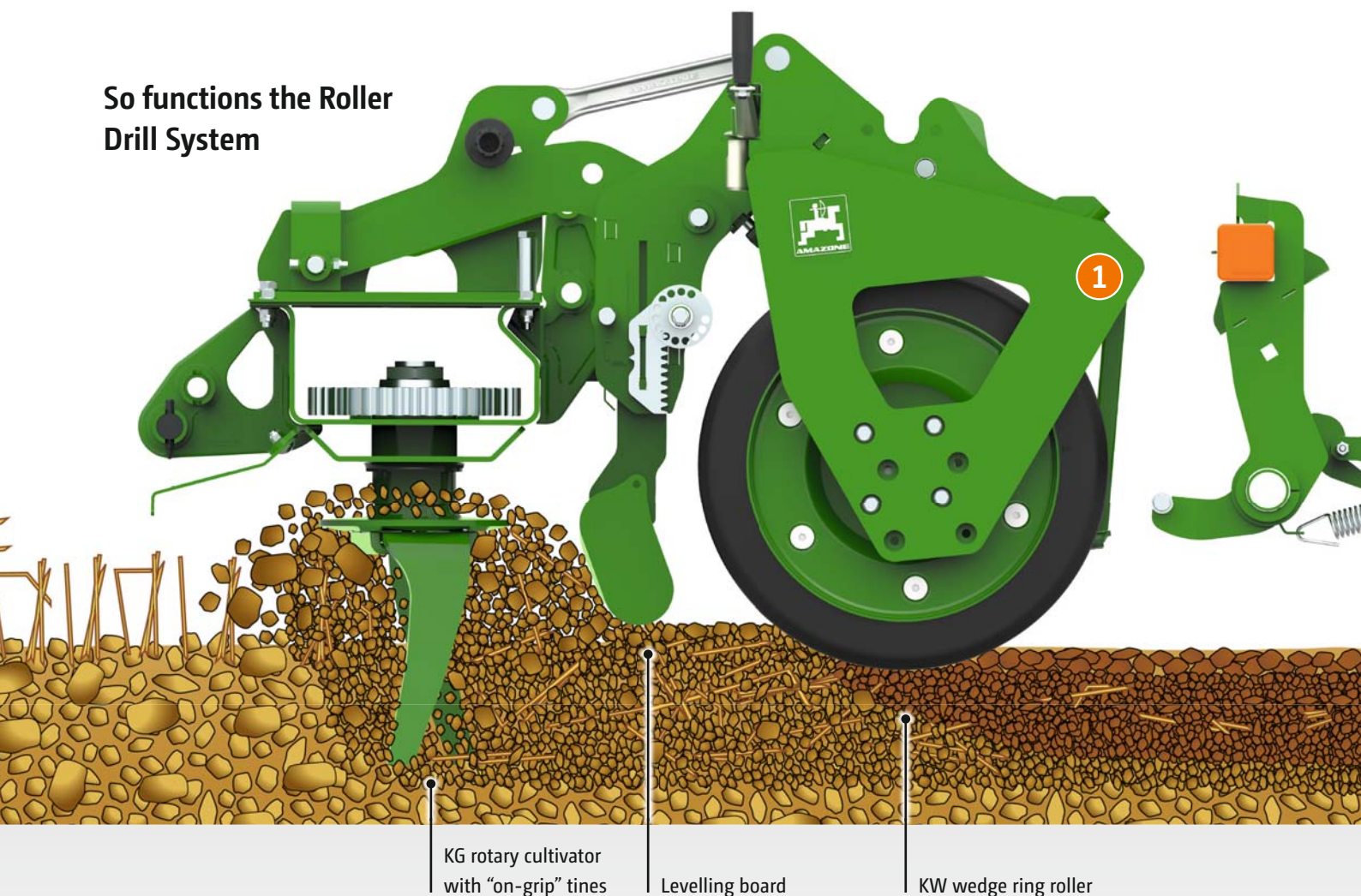
RDS Roller Drill System

The system for improved seed emergence and increased yields

Roll first, then sow

The even profile of the seed furrow produced provides the ideal preconditions for an absolutely smooth coulter run and thus the maintenance of an accurate placement depth. So, higher forward speeds than with other rollers are possible. The principle “roll first, then sow” allows the even placement of the seed and thus better plant emergence, irrespective of the soil type, ground conditions or forward speed.

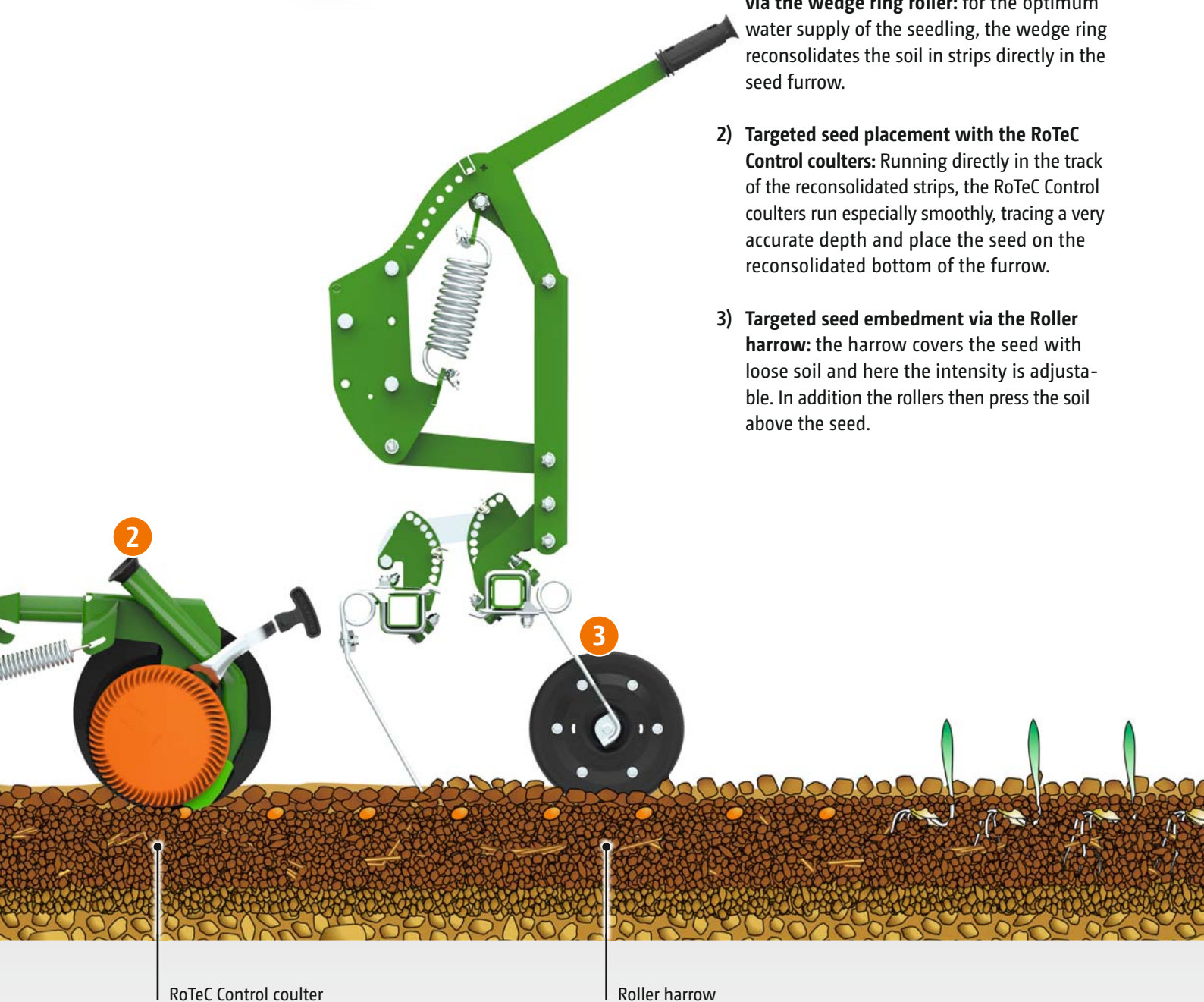
So functions the Roller Drill System

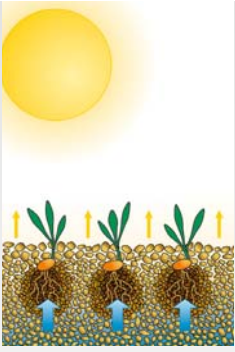




RDS benefits in an overview:

- 1) **Targeted reconsolidation of the seed furrow via the wedge ring roller:** for the optimum water supply of the seedling, the wedge ring reconsolidates the soil in strips directly in the seed furrow.
- 2) **Targeted seed placement with the RoTeC Control coulters:** Running directly in the track of the reconsolidated strips, the RoTeC Control coulters run especially smoothly, tracing a very accurate depth and place the seed on the reconsolidated bottom of the furrow.
- 3) **Targeted seed embedment via the Roller harrow:** the harrow covers the seed with loose soil and here the intensity is adjustable. In addition the rollers then press the soil above the seed.

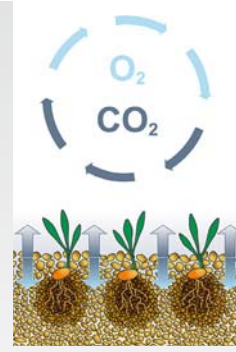




- ✔ Even in very dry weather the capillary water is drawn back up to the seedling



- ✔ Rain from heavy downpours simply drains into the unrolled, loose areas



- ✔ Gaseous exchange in the loose soil – the roots can breathe

Wedge ring roller – Sowing insurance!

1. In very dry periods – the water pump principle: The re-consolidated strips provide soil contact directly in the seed furrow. In this way, capillary water reaches the seedling even in dry weather. The wedge ring roller turns your soil into a water pump.
2. In very wet periods – the drainage principle: The loose soil absorbs any rain well and stores it. Rain from heavy downpours simply soaks into the unrolled, loose areas and so soil erosion is prevented.
3. Gaseous exchange – the lung principle: The loose soil also enables gases to be exchanged, so that the roots can breathe.

Universal setting tool for KE/KX/KG 01 and AD-P 01 Special

The universal setting tool is the ideal solution that avoids the transportation of and the troublesome searching for of more than one spanner.

Due to its ergonomic shape and the position of all the setting points, any adjustment can be changed instantly.

It is possible to set the following:

- ✔ Adjusting the track marker,
- ✔ Adjusting the coulter pressure,
- ✔ Adjusting the pre-emergence markers,
- ✔ Adjusting the Exact following harrow,
- ✔ Height adjustment of the levelling board,
- ✔ Adjusting the side plates,
- ✔ Opening the protection sieve



- ✔ Universal setting tool

Technical data

	Rotary harrow		Rotary cultivators		
	KE 3001 Special	KE 3001 Super	KX 3001	KG 3001 Special	KG 3001 Super
Working width (m)	3.00	3.00	3.00	3.00	3.00
Transport width (m)	3.00	3.00	3.00	3.00	3.00
Power requirement from (kW/HP)	48/65	59/80	66/90	66/90	66/90
For tractor output up to kW/HP	102/140	135/180	142/190	161/220	220/300
Number of tine carriers	10	10	10	10	10
Basic weight from (kg) without roller	703	800	1,184	1,172	1,183
Weight from (kg) with PW, TRW, KW, KWM	1,401	1,472	1,729	1,717	1,728

	Following rollers				
	Tooth packer roller	Trapezium ring roller		Wedge ring roller	KWM wedge ring roller with Matrix tyre profile
	PW 600	TRW 500	TRW 600	KW 580	KWM 600
Working width (m)	3.00	3.00	3.00	3.00	3.00
Diameter (mm)	600	500	600	580	600
Basic weight from (kg) with 12.5 cm/ with 15.0 cm row spacing	607	560/520	665/620	545/515	555/525



KG 3001 Super with track marker and KWM 600 wedge ring roller with Matrix tyre profile

Illustrations, content and technical data are not binding! Technical data may deviate according to the level of equipment. Machine illustrations can vary due to country-specific traffic legislation.

AD-P 3001 Special pneumatic pack top seed drill



The top benefits:

- ⊕ Large, central and compact seed hopper with a hopper volume up to 1,500 l – for high work rates
- ⊕ High comfort and short set-up times thanks to excellent access to the metering unit
- ⊕ The electric metering drive provides precise metering and easy calibration
- ⊕ Different metering cassettes included for a wide variety of differing seed types and seed rates
- ⊕ High seed savings via electric half-side switching of the segmented distributor head
- ⊕ Easy realisation of asymmetrical tramlining rhythms thanks to the segmented distributor head
- ⊕ Compatible with the latest KE/KX/KG 01 soil tillage generation
- ⊕ Optional, comfortable and stepless coulter pressure adjustment from the tractor cab with easily-to-read display

Most up-to-date **ISOBUS**
communication

Seed hopper with

850 l or 1,250 l

and **1,500 l** (with hopper extension)

With **RoTeC Control** single disc

or **WS suffolk coulters**



The AD-P 3001 Special harrow-mounted pneumatic seed drill is a very precise and reliable seed drill which has been developed for the new KE 01 rotary harrow and the new KX and KG 01 rotary cultivators.

In a 3 m working width, with an 850 l or 1,250 l seed hopper and optional 250 l hopper extension, the pneumatic sowing combination is an efficient set-up for after the plough and mulch sowing.



FOR FURTHER INFORMATION
www.amazone.net/ad-p01special

AD-P 3001 Special in 3 m working width

The compact, value for money pack top seed drill

The AD-P 3001 Special pneumatic seed drill, with its compact design, has been developed for use on medium sized farms. Available in hopper capacities of either 850 l or 1,250 l, the AD-P Special can be increased in volume up to 1,500 l using the 250 l extension.

The pneumatic seed drill is mounted on to the soil tillage implement with a universal coupling triangle.

Large capacity seed hopper

The seed hopper features a large filling opening allowing for the quick and easy filling procedure not only from big bags, loading shovels, but also with material in sacks. Sieves safely protect the metering system from foreign objects. The seed hopper is separate from both the distribution head and the seed pipes enabling easy monitoring in work and simple cleaning out for different seed types.

The benefits:

- ⊕ Compact design
- ⊕ Large, centralised seed hopper
- ⊕ Low lifting power requirement
- ⊕ Quick and easy filling and emptying

❗ "The till and drill combination from AMZONE is comfortable, simple and precise."
Fortschrittlicher Landwirt [The Progressive Farmer] –
comparison test "Pneumatische Drillkombis"
[pneumatic drill combis] · 05/2016)



Rotary cultivator
(or from choice:
rotary harrow)

Trapezium roller
(other rollers avail-
able from choice)

RoTeC Control coulters
(or from choice:
WS suffolk coulters)



✓ Seed hopper with
850 l or 1,250 l

✓ Hopper extension
with **250 l**

Comfortable filling

A particularly wide loading board, which is easily accessed via steps, simplifies the filling of the seed drill. The easy filling of the seed hopper can be carried out via a trailer mounted filling auger, from big bags or a loading shovel. The easy to handle roll-over cover protects the seed hopper from any ingress of dust and moisture.

Hydraulic folding bout markers

The hydraulic marker changeover lifts the bout markers of all AD-P into the vertical position and then lowers them again. In this way sowing is possible even on the headland and obstacles can be negotiated. In order to transfer the weight of the bout markers and thus the centre of gravity still further towards the tractor, the bout markers are fitted to the rotary cultivator or rotary harrow. This design also results in another big advantage that the bout markers can also be used during solo operation of the soil tillage implement, for instance, when pre-working or when in conjunction with a precision air seeder. Thanks to the cranked arms the bout is perfectly marked even when working in coarse, very cloddy conditions. In addition, the arms, with their integrated sprung action reduce the strain during peak forces.



Drag tine harrow

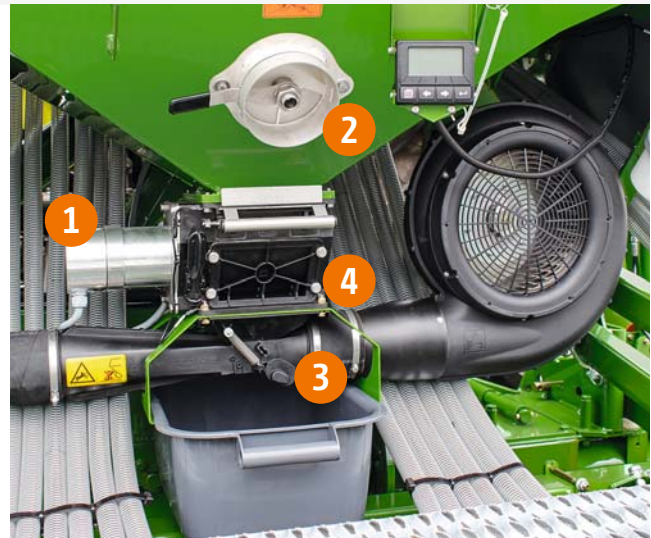
Roller harrow

❗ "Another nice detail is the roll-over cover which, after releasing, automatically rolls up via the spring at the side."
(top agrar – "Serienmäßig elektrisch" [standard with electrics] · 05/2016)

System Airstar: reliable metering drive

Simple adjustment and comfortable calibration

- ① **Electric metering drive:** electric metering drive comes as standard on the AD-P, whereas on the Avant as an option, and is controlled by AMATRON 3 or by any other ISOBUS terminal or AMADRILL⁺. In conjunction with the electric drive, calibration is comfortable and fully automated. The electric drive also offers additional functions such as, for instance, the pre-metering of the seed in field corners and the increase and decrease of the seed rate during operation. The AD-P features different signal sources for detection of the speed. In addition to the radar sensor, impulse wheel or GPS signal, also the speed signal of the tractor can be utilised.
- ② **Quick emptying:** the emptying of the seed in the hopper is quickly and simply done via the quick emptying device which is easily accessible and fitted onto the seed hopper.
- ③ **Emptying of residual amounts:** for emptying any residual amounts, a slide is opened and the hopper contents emptied into the large calibration tray.



- ④ **Easy exchange of the metering cassettes:** the cassettes of the seed metering system can easily be exchanged. This allows the precise and gentle metering of all seed types and seed rates with excellent distribution along the row even at high forward speeds.

Operating position and speed signals

The standard equipment of electric drive offers the possibility to freely choose the signal source for both the speed and also the operating position. In this way, depending on the application, a flexible choice between the different sources is possible.

Speed	●
Operating position	●

Operating position sensor ●

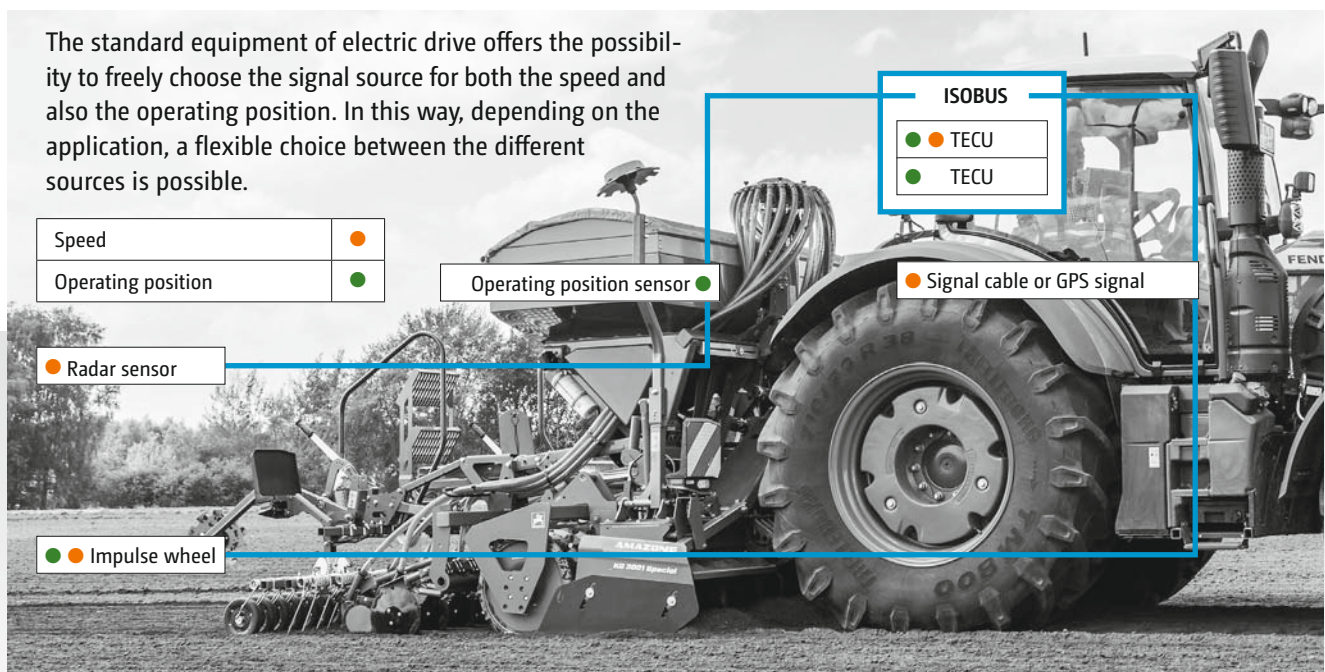
● Radar sensor

● Impulse wheel

ISOBUS

- ● TECU
- TECU

● Signal cable or GPS signal



System Airstar: perfectly metered

Precise and gentle metering for different seed types



Calibration via the TwinTerminal 3.0

- ⊕ “The electrics also offer far more comfort for the calibration procedure. Thanks to the external remote actuation, the whole unit can now be completely controlled down at the metering unit.”
(top agrar – Test report “with air & output” · 02/2015)

Comfort-Pack 1 with TwinTerminal 3.0

In order to make pre-metering, calibration and residue emptying even easier, AMAZONE offers for the AD-P, in conjunction with the AMABUS or ISOBUS, Comfort-Pack 1 with its TwinTerminal 3.0. The TwinTerminal is mounted on the seed drill next to the metering units via a magnetic console. This position offers a decisive benefit: the driver now can carry out the actuation and data input for the calibration procedure directly on the machine and thus the repeated climbing up and down into the tractor is no longer necessary.

The TwinTerminal 3.0 consists of a water and dust proof housing with a 3.2 inch display and four large keys for actuation.

Metering cassettes for any type of seed

Special metering cassettes for different application rates precisely and gently deliver the seed up to the distributor head. The three metering cassettes supplied as standard cover up to 95 % of all seeds. Additional cassettes, for instance for maize or special crops, are also available.

The interchangeable metering cassettes are suitable for the following application rates: fine seeds (approx. < 15 kg/ha), medium sized seeds (approx. < 140 kg/ha), normal seeds (approx. > 140 kg/ha).



- ❗ “The calibrated seed rate was precisely maintained under all conditions, field emergence was excellent.”
(Fortschrittlicher Landwirt [The Progressive Farmer] – comparison test “Pneumatische Drillkombis” [pneumatic drill combis] · 05/2016)

- ❗ “Our test drivers were highly impressed by the optional TwinTerminal.”
(Fortschrittlicher Landwirt [The Progressive Farmer] – comparison test “Pneumatische Drillkombis” [pneumatic drill combis] · 05/2016)

RoTeC Control coulter

The proven single disc coulter – seed placement to perfection!

RoTeC Control coulters operate virtually wear-free. Even where large amounts of straw and trash prevail they won't block up. The combination of the sowing disc on the one side and the furrow former on the other create the perfect seed furrow and optimum seed control. The elastic polyurethane disc also helps to create the seed furrow, accurately controls the pre-set sowing depth and prevents soil from sticking to the sowing discs.

Proven 300,000 times over!

Sowing disc

Control 25 depth guidance roller

Furrow former

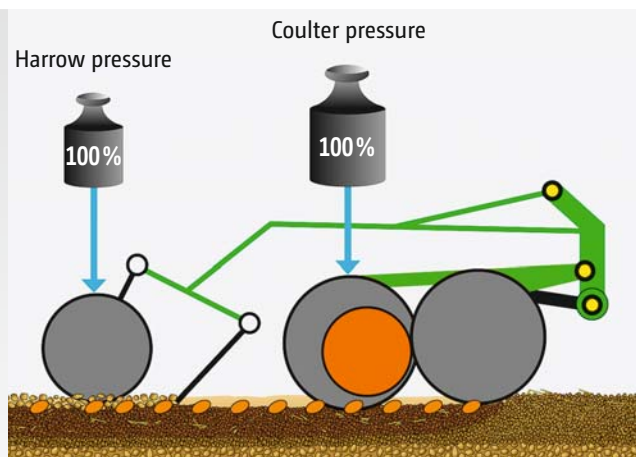
3 adjustments



- ✓ For exceptionally deep sowing, the depth guidance disc can be easily removed.



- ✓ RoTeC Control coulter with Control 10 depth guidance disc with 10 mm wide contact surface.



The very even and exactly controlled depth guidance of the RoTeC Control coulters is achieved via the Control 10 depth guidance disc, with a contact surface of 10 mm, or the Control 25 depth guidance option with a contact surface of 25 mm. As this depth guidance is fitted on the side of the coulters, this principle operates with more accuracy than coulters systems with a following, rigidly attached separate depth guidance roller. The depth guidance discs or rollers provide the basic setting of the sowing depth easily and comfortably via the coulters pressure. If necessary a notched quadrant allows for the readjustment of the sowing coulters in 3 steps.

RoTeC Control coulters operate at a coulters pressure of up to 35 kg. In this case the actual effective coulters pressure is comparatively higher with AMAZONE, because the pressure is not distributed between the coulters and the following press roller, but acts solely on the coulters. When sowing rape, or early sowing in dry conditions, working with less coulters pressure is possible without any problem.

Row spacings of 12.5 cm and 15 cm can be chosen.

Quality and reliability throughout:

- ✓ Coulters discs made from high grade Boron steel
- ✓ Shallow angle of inclination for reduced soil movement
- ✓ Wear resistant polyurethane disc acts as an adjustable depth guidance roller and for cleaning

The large clearance between the front and rear rows of coulters ensures a blockage-free sowing operation, even where large amounts of straw prevail.

With only one cutting disc per coulters AMAZONE ensures – even at a 12.5 cm row spacing and mulch sowing at high speeds – a blockage-free material passage in between the coulters.



! “The RoTeC coulters and the Roller harrow are easily adjustable.”
(Fortschritlicher Landwirt [The Progressive Farmer] – comparison test
“Pneumatische Drillkombis” [pneumatic drill combis] · 05/2016)

Seed embedment

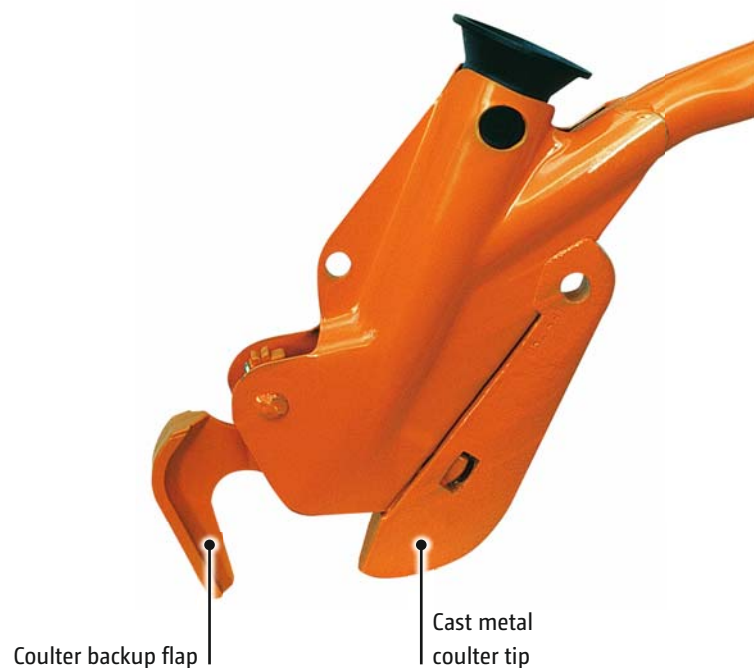
with WS suffolk coulters for drilling after the plough

Robust and precise

The **WS suffolk coult** is ideally suited for conventional sowing or where little straw prevails, e.g. after rape or turnips. The hard cast coult tip provides an enormous service life. For larger farms with hardwearing soils, the quick coult tip change, where replacement is necessary, is possible by removing just one bolt.

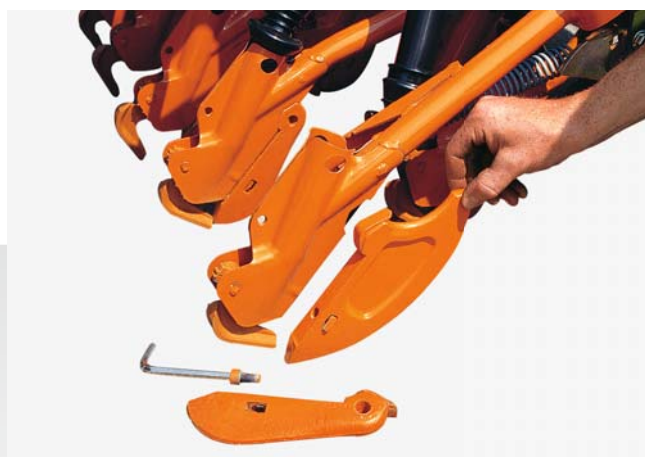
The coulters are arranged in 3 rows and the large coult clearance offers security against blocking within the coulters. Inside the coult, a guide funnel delivers the seed accurately down to the coult tip. The backup coult flap prevents accidental coult blockage when the drill is lowered.

For WS suffolk coulters, the row spacing is 12.5 cm or 15 cm.



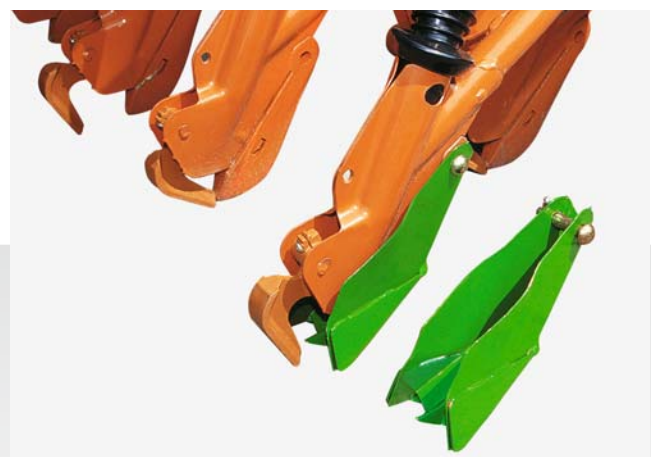
Sabre coult tip

For very shallow seed placement on light soils, or when mulch sowing with little straw present, the sabre coult tip has been developed. With minimal effort, these can be exchanged for the standard WS suffolk coult tip.



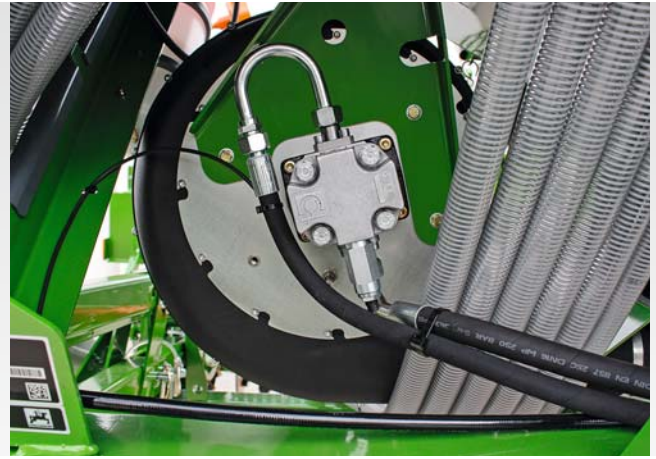
Band sowing shoes

Band sowing shoes can be easily clipped on each coult and distribute the seed in bands for seeds such as grass. They can also be used for reducing the placement depth.





✓ Innovative and precise



✓ Hydraulic blower fan drive

The new high performance blower fan is characterised by its low oil requirement of just 21 l/min at 3,500 rpm and minimum noise emission.

Segmented distributor head

The segmented distributor head provides huge flexibility for the pneumatic seed drill. With immediate effect, asymmetrical tramlines can be carried out without an undesirable seed rate reduction on the other half of the machine. The segmented distributor head provides electric half-side shut-off and Section Control. The half-side control is located directly inside the distributor head.

The benefits:

- ⊕ Electric half-side shut-off
- ⊕ Reduction in overlap saves seed
- ⊕ Minimising dust creation inside the seed hopper because no seed is rerouted.

Variable tramline control

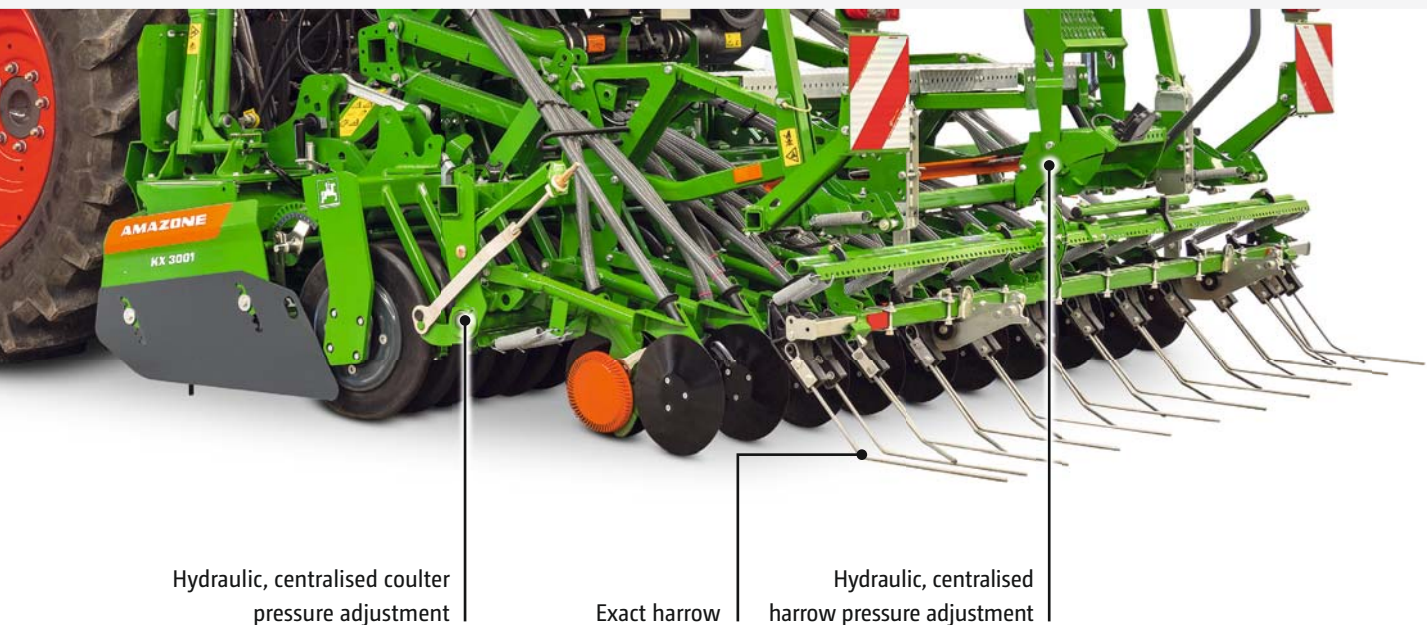
With the aid of the tramline shut-offs, in total up to six seed rows per side can be switched off. The correspondingly wide tramline wheel tracks are suitable for tyre widths up to 1,050 cm on a 15 cm row spacing or 875 mm on a 12.5 cm row spacing depending on the following crop husbandry tractors. In this way AMAZONE takes into account the move towards those crop husbandry tyres getting wider and wider.

Seed pipe monitoring

Another useful system to assist the driver is the optionally available seed pipe monitoring which detects immediately any blockages down at the coulter and in the tube. Directly behind the distributor head, sensors monitor the seed flow in the seed pipes. Incorrect switch-over of the tramline rhythm is automatically detected by the system. Especially on long working days, the monitoring is an elegant solution to help keep an eye on the working performance.



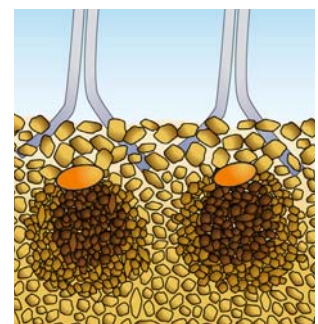
Exact harrow – perfect seed furrow covering



The Exact harrow covers and levels the open seed furrow without blockage even with large amounts of straw present. With its individually pivoting harrow elements, the Exact harrow follows the undulations of the soil perfectly, ensuring an even seed coverage on soils either with or without straw.

The harrow pressure is centrally adjusted mechanically via two spindles. On the hydraulic harrow pressure adjustment, a pair of locating pins predetermines the minimum and maximum settings. This way both the harrow and the coulter pressure are linked together and so can, during operation, be adapted to changing soil conditions by the use of just one tractor control valve.

In conjunction with the RoTeC pro coulter, the 15 mm strong Exact S following harrow can be used. It gives little wear and provides good seed coverage even in most difficult of operational conditions.



⊕ Test report "profi" 7/2005: "The Exact harrow operates very well ..."

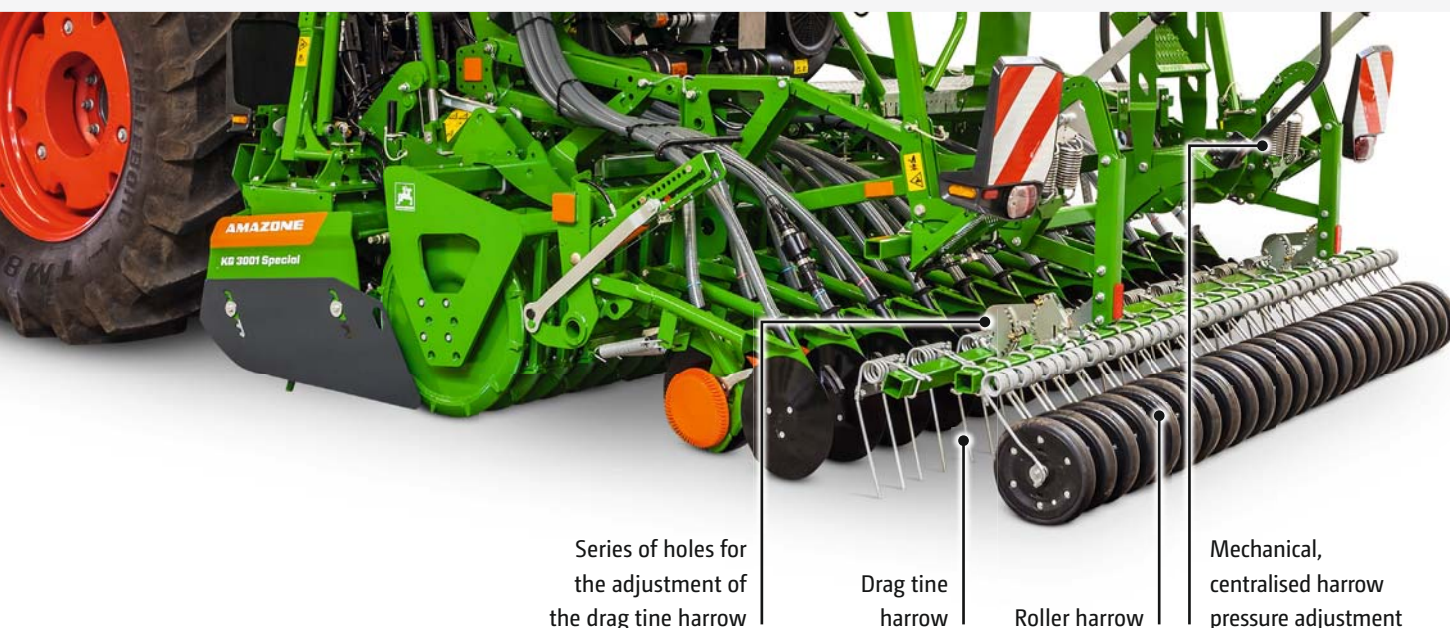
Coulter pressure adjustment

On the AD-P Special, the coulter pressure is mechanically adjusted, centrally. As an option, hydraulic coulter pressure adjustment is available.

Pre-emergence markers

When creating tramlines, the marker discs automatically lower and mark where the tramline will be created. This means that the tramlines are visible prior to the seed emergence.

Roller harrow – adding additional reconsolidation to the soil



The Roller harrow additionally consolidates the soil above the seed furrow resulting in the optimum germination conditions. This is recommended especially for light, dry soils when sowing spring crops or rape. An undulating surface

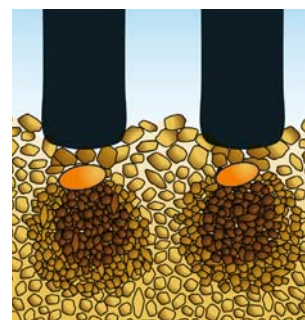
profile that reduces erosion is the result. The Roller harrow, adjustable separately from the coulter pressure, can follow the ground contours over a range of ± 100 mm.



Roller harrow in operation:
the drag tine harrow covers the seed with soil which is then pressed by the Roller harrow.



Roller harrow pulled out of work:
the drag tine harrow continues to cover the seed with soil.



Harrow pressure adjustment

Stepless adjustment of the Exact harrow via spindles.

The centralised adjustment of the Roller harrow is carried out via the adjusters with overload safety device. In this way, the intensity of the pressure on the rollers on the Roller harrow can be adjusted to suit soil conditions or the press rollers can

be taken out of work altogether. So, the press rollers can, for instance during late autumn sowing in wet conditions, be lifted out completely. Via a series of holes, the depth of the drag tine harrow can be fine-tuned.

Everything under control

ISOBUS features the worldwide recognised communication Standard between operator terminal, tractor and mounted implements as well as farm office software. That means with one terminal you can control any ISOBUS compatible implement.

This AMAZONE ISOBUS seed drill can be operated via different ISOBUS terminals:



AMAZONE AMATRON 3
5.6" size screen



AMAZONE CCI 100
large 8.4" touchscreen



AMAZONE AMAPAD
large 12.1" touchscreen

Alternative: Simple, simple, AMADRILL⁺

With the AMADRILL⁺ operator terminal, AMAZONE offers, in addition to the ISOBUS terminals, a machine-specific terminal. Here, AMADRILL⁺ looks after the comprehensive control of all the important operational functions. So the tramline rhythm, the electric metering drive or also the seed rate can be controlled and monitored from the tractor seat.



The display shows the operational positions of the track markers and the tramline control. In addition, also indicated are the area sown and the fill level of the seed hopper.

✓ AmaPilot multi-function joystick

The AmaPilot multi-function joystick makes operation even more convenient. All the functions in the operating menu can be actuated via AmaPilot or other ISOBUS multi-function joysticks (AUX-N).



The benefits of ISOBUS:

- ⊕ All AMAZONE ISOBUS terminals and machine job computers comply with the AUX-N standard and can assign the soft key coverage to an AUX-N compatible multi-function joystick.
- ⊕ AMAZONE ISOBUS machines can be actuated via any ISOBUS compatible Section Control licence.

Special features of AMAZONE ISOBUS machinery:

- ✓ Up to three user profiles and individual user interfaces can be set up for different drivers.
- ✓ The operator menu can be optimally matched with ISOBUS terminals that have differing numbers of soft keys.
- ✓ Each machine function can be freely allocated in the menu layout.
- ✓ Complete documentation via Task Controller (ISO-XML). As an alternative to documentation via Task Controller, a simple job record of total values (worked area, required time, and applied rate) is possible. The recorded total values can then be exported as a screenshot to a USB stick.



Further ISOBUS terminals



e.g. Fendt Vario terminal



e.g. Müller COMFORT terminal



AMATRON 3 operator terminal

Machine overlapping operation

Control of all the important functions can be achieved via the AMATRON 3 ISOBUS terminal, including both operational functions and functions for the adjustment of the machine, such as calibration.

AMATRON 3 is an ISOBUS terminal that can be used from seed drills to fertiliser spreaders and crop protection sprayers enabling the optimum application rate control and operation.



One for ALL!



AMATRON 3

As standard the machine is equipped with an electric metering drive, allowing the easy calibration and the individual change of the seed rate.

The operator terminal controls the drill as well as monitoring the tramline functions. This also includes a sensible obstacle solution for the track markers. With the new Task

Controller, the jobs can be prepared comfortably on the farm PC and then transferred via a USB stick to the terminal in an ISO-XML format and then loaded. Via the AMATRON 3, part area, site-specific application rate maps can be processed in either ISO-XML or Shape file format.

GPS-Switch

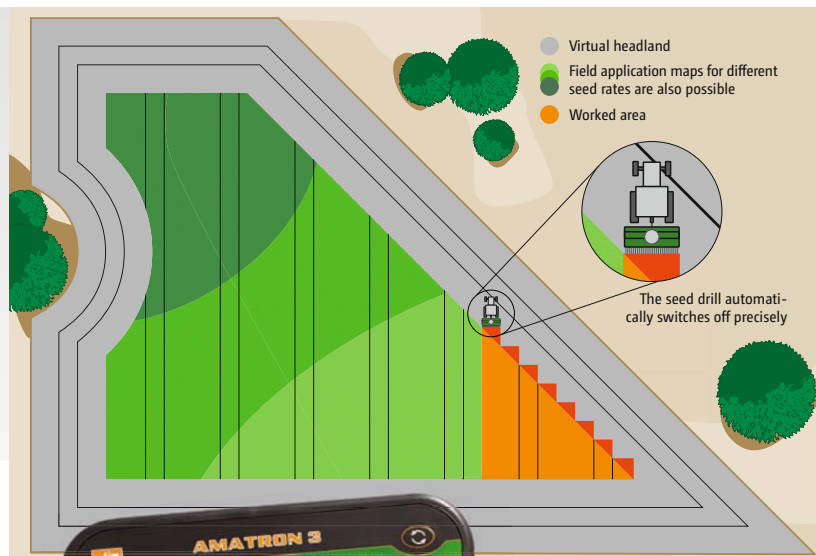
Accurate placement of the seed

Depending on the position of the machine and the settings made by the driver, GPS-Switch controls the on and off points for the electric metering system. As an option, electric half-side control is possible. In this way, any over or under sowing on critical areas, such as on the headland or in wedge shaped fields, which are often found in practice, can be minimised.

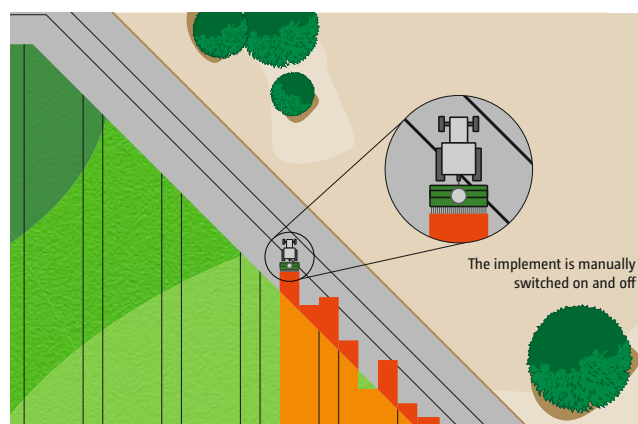
The future today: in addition, application maps are becoming more and more popular where the seed rates can be matched to the small-scale situations in the field – such as hills and hollows or changes in soil type. Task Controller (via ISO-XML) or GPS-Maps makes for the simple utilisation of application maps. Standardised file formats can be imported into the system, which are then implemented fully automatically. A graphic display of the map in the background offers a good overview.

GPS-Switch with AutoPoint

GPS-Switch with AutoPoint for seed drills is the logical supplement to help relieve the stress on the driver and to optimise the results in the field. The new AutoPoint system determines automatically the delay time: that means the time between metering start and end and the delivery behaviour of the seed to the coulter. Via a sensor in the coulter, the seed flow at the coulter is recognised and so the system is able, in relation to the switching times of the metering device, to determine the conveying time of the seed through the machine. This is monitored constantly at every headland turn and this value is taken as the basis for the automatic calculation of the switching points. So a response, even to changes in the conveying behaviour of the seed and to changes in driving behaviour, is possible. The automatic switching is rounded off with the driver assistance system in AMATRON 3, which indicates to the operator the optimum forward speed when driving into and out of the headlands.



AMATRON 3 with GPS-Switch



Over or under-sowing with manual on/off control without GPS-Switch



Sensor for registering seed flow at the sowing coulter

CCI 100 terminal

The universal talent



The benefits

The CCI ISOBUS terminal from AMAZONE is the result of the cooperation with several other manufacturers of agricultural machinery who are joint participants in the Competence Centre ISOBUS e.V (CCI). With CCI, AMAZONE and its partners have laid the foundation to introduce ISOBUS into practice. The CCI 100 is the basis to convert all AMAZONE machinery and implements successively to the ISOBUS standard.

- ✓ The bright 8.4" colour display with its high screen resolution and ambient light sensor matches the brightness automatically to the light conditions. This avoids the driver in twilight or at night being blinded by too bright a display.
- ✓ The input is carried out from choice via the operator-friendly touch screen or via the soft keys.
- ✓ Fatigue-free operation at night is assisted by the back-lighting of the keys which are also connected with the light sensor.
- ✓ The proven AMAZONE one-handed operation is still possible because the functional layout of the soft key area can be simply mirrored.
- ✓ For intuitive menu guidance and the convenient input of values and text, the terminal is provided with a high-quality touch screen.
- ✓ For the direct quick, input and adjustment of the input values, a scroll wheel with actuating function is ergonomically integrated in the housing.



The terminal includes the following functions:

- ✓ ISOBUS implement operation
- ✓ Tractor ECU function (interface for speed, PTO shaft and lower link position)
- ✓ CCI.Control job management for documentation
- ✓ CCI.Command (optional):
 - automatic part-width section shut-off
 - CCI.Command.SC Parallel guidance aid CCI.Command.PT
- ✓ Application maps supported in ISO-XML format
- ✓ USB interface for data exchange
- ✓ Interface for the connection of a GSM modem
- ✓ ASD and LH5000 interfaces via RS232 (nominal rate transfer), e.g. for N sensors
- ✓ Camera function CCI.Cam
- ✓ In conjunction with seed drills, the CCI terminal features the automatic tramline function. Here the tramline position is controlled via GPS with the aid of the parallel driving module of the CCI terminal.



- ✓ External light bar for CCI.Command.PT parallel driving aid

As a possible addition, an external light bar is available which can comfortably be coupled with CCI.Command PT. The external light bar can be positioned freely in the tractor cab. The only precondition for its utilisation is the activation of the Parallel Tracking module in CCI.Command.

AMAPAD

An especially comfortable method of controlling agricultural machinery



The new dimension in control and monitoring

With the AMAPAD operator terminal, AMAZONE offers an entirely new and high-class solution for GPS application such as automated GPS based part-width section control and Precision Farming applications.

AMAPAD features a large, especially ergonomic, 12.1" touchscreen. With the unique "Mini View" concept, applications that do not need to be actuated but which, however, need to be monitored, are clearly shown at the side. If needs be, these can be enlarged by "fingertip" widening. The possibility also exists to customise the display, a feature which rounds off the exceptional layout of this operator terminal.



In addition to GPS-Switch pro part-width section control, a high-quality professional manual light bar guidance system is also installed as standard. GPS-Track pro can also be upgraded to an automated steering system.

The terminal includes the following functions:

- ✓ ISOBUS implement operation
- ✓ Task Controller job management for documentation
- ✓ Automated GPS-Switch pro part-width section control
- ✓ Integrated light bar for GPS-Track pro parallel guidance system
- ✓ As an option: upgradable to automatic steering
- ✓ GPS-Maps pro application map module
- ✓ RS232 interface via SCU adapter (for data exchange)
- ✓ Twin USB ports for data exchange
- ✓ WLAN module (via USB adapter)
- ✓ GPS output

The characteristics of AMAPAD:

- ✓ Screen made from toughened glass
- ✓ Housing made from impact-proof plastic
- ✓ Extra-narrow rim for maximum visibility
- ✓ Flush finish, no penetration of dust/humidity



AMAZONE service – always in your vicinity

Your satisfaction is our challenge



The satisfaction of our customers is the most important objective

For this we rely on our competent sales partners. Also for service queries they are the reliable contact partner for farmers and contractors. Due to continuous training, our sales partners and service technicians are always up to date when it comes to looking after the state of the art technology.

We provide you with a first class spare parts service

The basis for our worldwide spare parts logistics is the central spare parts depot at our headquarters in Hasbergen-Gaste. This ensures the maximum availability of spare parts, even for older machines.

Parts which are available in our central spare parts depot in Hasbergen-Gaste, ordered up until 17.00 hours, are dispatched the same day. 34,000 different line items of spare parts and wearing metal are located in our highly modern store and daily, up to 800 orders are sent to our customers.

Better to choose the original right from the start

Your equipment is exposed to extreme demands. The quality of AMAZONE spare parts and wearing metal offers you the reliability and safety you need for efficient soil tillage, precise sowing, professional fertilisation and successful crop protection.

The advantages of original spare parts and wearing metal

- ✓ Quality and reliability
- ✓ Innovation and efficiency
- ✓ Immediate availability
- ✓ Higher resale value of the used machine

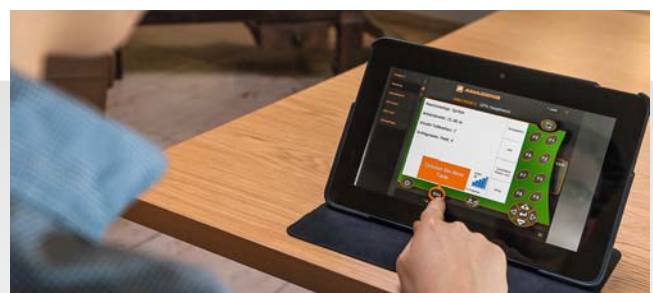
AMAZONE “E-Learning” – the new way of driver training via a PC

With the “E-Learning” internet portal, AMAZONE expanded its service offer on its home page at www.amazone.de/ e-learning with this additional very useful function. “E-Learning” offers interactive driver training, which enables the operator to practice the operation of complex machinery on his own on-line as well as off-line via a PC or tablet. The new service offers drivers the possibility to get acquainted with a new machine prior to its initial operation. However, experienced drivers can also refresh their knowledge enabling them to utilise better still the full potential of their machinery.



**Choose the Original
Choose Success!**

VDMA campaign:
Pro-Original



Technical data: harrow-mounted seed drill

	AD-P 3001 Special
Working width (m)	3.00
Transport width (m)	3.00
Number of rows	24/20
Row spacing (cm)	12.5/15.00
Hopper capacity without extension (l)	850/1,250
Hopper capacity with extension (l)	1,100/1,500
Height to the upper edge of the seed hopper (m)	1.97/2.12
Height to the upper edge of the seed hopper with extension (m)	2.07/2.23
Weight with WS coulters without soil tillage implement (kg)	760 ¹ /780 ²
Weight with RoTeC Control coulters without soil tillage implement (kg)	845 ¹ /865 ²
Weight with KE Super 01/WS coulters/PW 600 (kg)	2,314 ¹ /2,334 ²
Weight with KE Super 01/WS coulters/KW 580 (kg)	2,257 ¹ /2,277 ²
Weight with KG Special 01/RoTeC Control coulters/PW 600 (kg)	2,689 ¹ /2,709 ²
Weight with KG Special 01/RoTeC Control coulters/KW 580 (kg)	2,632 ¹ /2,652 ²

¹Weight of basic machine 850 l with coulters set, blower fan, 12.5 cm row spacing, Exact following harrow, bout markers, operator terminal

²Weight of basic machine 1.250 l with coulters set, blower fan, 12.5 cm row spacing, Exact following harrow, bout markers, operator terminal

The permissible axle loads and total weights of the tractor have to be checked. Adhere to the legal regulations for road transport in each particular country. Not all the above mentioned combination possibilities can be realised on all tractor types and/or according to the relevant national regulations.



Illustrations, content and technical data are not binding! Technical data may deviate according to the level of equipment. Machine illustrations can vary due to country-specific traffic legislation.



AMAZONE



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