



AMAZONE

AD-P Special AD-P Super Avant



Pneumatic seed drill combinations – precise and reliable operation



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

(Confucius circa. 500 BC)

Soil tillage, reconsolidation, seedbed preparation, accurate, even seed depth, even coverage as well as leaving wheel mark-free well-structured fields after sowing: These are the pre-conditions for a higher seed emergence and an optimum yield. All these objectives are perfectly fulfilled by the AD-P and Avant pneumatic seed drills.

All from one source: it's your choice from a modular system with various soil tillage implements, rollers, coulters, harrows and modern, in-cab operator terminals to choose from.



AD-P 3000 Super; 3 m working widths

AD-P Special · AD-P Super · Avant

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Utilise the benefits of AMAZONE pneumatic seed drill combinations:

Top benefits:

- ⊕ large, centralised seed hopper, compact design, high work rates and short set-up times
- ⊕ due to the precise metering and simple adjustment, the electric metering drive which is capable of handling a large variety of seeds and seed rates offers even more comfort
- ⊕ little residual amounts, even in sloping terrain
- ⊕ optimised seed distribution and simple monitoring due to the external distributor head
- ⊕ Accurate seed placement through RoTeC Control coulters or WS suffolk coulters at high forward speeds
- ⊕ Equipped with the most modern ISOBUS terminals and control via GPS-Switch is possible



AD-P 3000 Special; 3 m working width

The benefits of ISOBUS

- ⊕ The AD-P is certified according to the UT 2.0 AEF compliance test. In this way these AMAZONE seed drills can be operated via any terminal on the market that has been UT 2.0 certified. Needless to say, the AD-P can also be controlled via an ISOBUS compatible Section Control licence from another ISOBUS terminal.
- ⊕ AMAZONE AMATRON 3, CCI 100 and AMAPAD terminals alongside all AMAZONE ISOBUS equipped machinery support the AEF functionality AUX-N. This means, that, for example, the keys of an existing AUX-N compatible multi-function joystick can be individually assigned to a specific function. So, every function on the joystick is located exactly there, where the customer wants it to be.



AD-P 3000 Super; 3 m working widths

AD-P Special 850 in 3 m, 3.5 m or 4 m working widths

The compact, value for money Pack Top seed drill for medium sized farms

The AD-P Special 850 pneumatic seed drill, with its compact design, has been developed for use on medium sized farms. In standard execution, the seed hopper capacity is 850 l but this can be increased with an extension to 1100 l.

The seed drill is mounted on the soil tillage implement via a universal coupling triangle.

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.



AD-P 3000 Special in 3 m working width and lateral marker boards, specifically for France

Rotary harrow
(or from choice: rotary cultivator)

Tooth packer roller
(other rollers available from choice)

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

Easy dismounting of the AD-P Special

The simple separation of soil tillage implement from the seed drill offers sufficient flexibility for pre-working with the rotary harrow or rotary cultivator for solo operation or seedbed preparation.



Mounting to the rotary harrows from other manufacturers

The AD-P Special can also be mounted on to rotary harrows from other manufacturers, provided these harrows have sufficiently robust troughs to be able to safely carry the large seed hopper of the AD-P Special.

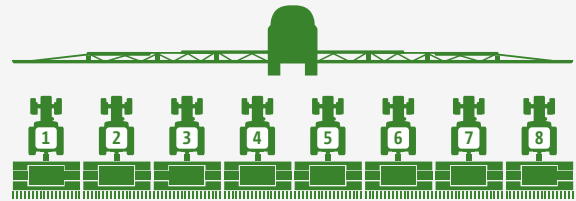
New 3.5 m working width

This seed drill, with a working width of 3.5 m, has been developed for countries or regions where a transport width of 3.5 m on the road is permissible. Of course, this machine also is a very interesting alternative for farms in a ring because this sowing combination matches very well with 21 m and 28 m tramline systems. In addition, a working width of 3.43 m is available, so that, for example, a 7-bout tramline rhythm for 24 m can be achieved.



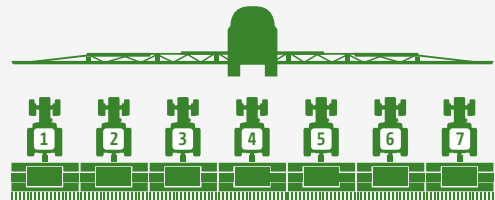
Exact harrow

28 m sprayer



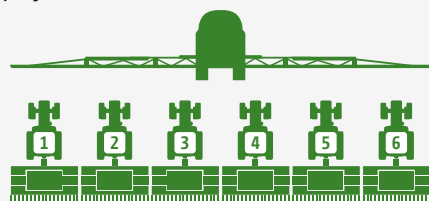
3.50 m seed drill: example of 28 m tramline system

24 m sprayer



3.43 m seed drill: example of 24 m tramline system

21 m sprayer



3.50 m seed drill: example of 21 m tramline system

AD-P Special 1250 in 3 m, 3.5 m or 4 m working widths

The Pack Top seed drill for medium to larger sized farms

Designed especially for farms which are increasing in acreage and still looking for the advantages of a PTO-driven combination but with a higher output, the AD-P Special with its 1250 l seed hopper offers the right solution. With the aid of an extension the 1250 litre AD-P Special can be upgraded to 1500 l.

The benefits of the AD-P Special:

- ⊕ compact design
- ⊕ large, centralised seed hopper
- ⊕ low lifting power requirement
- ⊕ quick and easy filling and emptying
- ⊕ mounting to soil tillage implements from other manufacturers is possible





⊕ Optimised seed hopper on the AD-P Special 850 I and 1250 I



⊕ Sieves protect the metering system

Safe operation after dark

For safe operation, also during the evening and at night, the AD-P Special can be equipped as an option with the LED work lights. Fitted to the tank and lighting the working range at the rear, they ensure a safe view of the working area. In this way also the area around the sowing coulters is lit up as well.

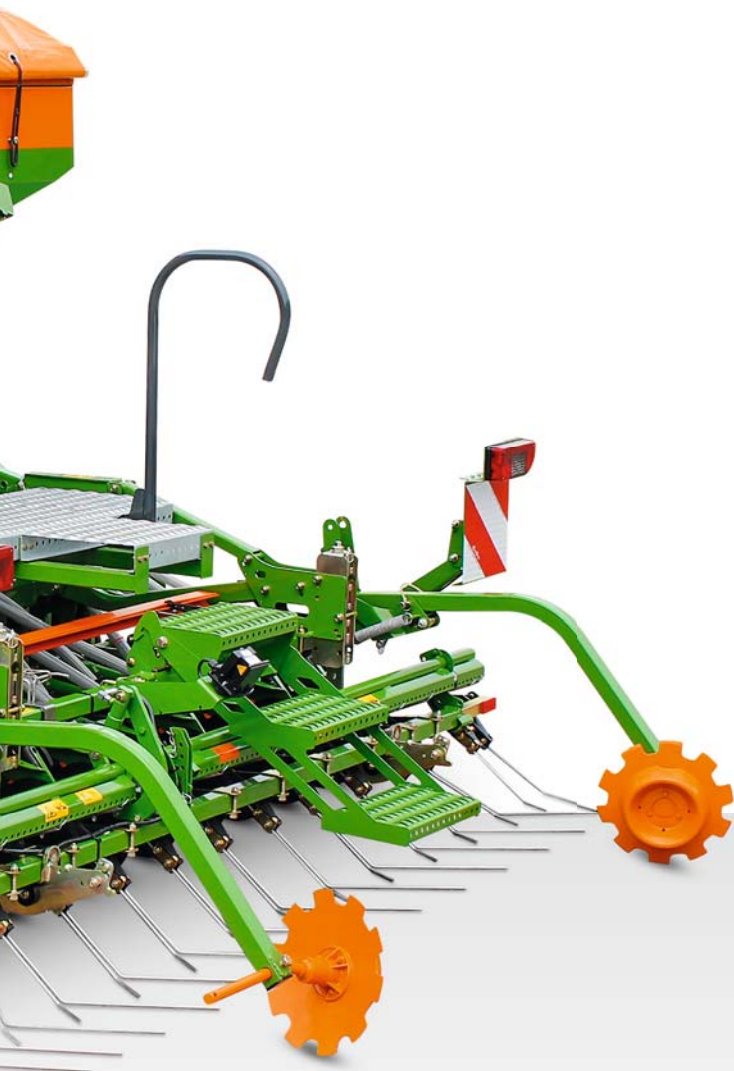
Large capacity seed hopper

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.

Comfortable filling

A particularly wide loading board, which is easily accessed via the steps, simplifies the filling of the seed drill. The easy filling of the 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 hopper from any ingress of dust and moisture.



AD-P Super in 3 m or 4 m working widths

The Pack Top seed drill for larger farms and agricultural contractors

The AD-P Super pneumatic Pack Top combination, in working widths of 3 m and 4 m, is absolutely ideal for farm sizes of between 200 and 500 hectares or for agricultural contractors.

The benefits with an AD-P Super:

- ⊕ work rates of more than 3 ha/h from a working width of just 3 m
- ⊕ extremely large seed hopper
- ⊕ high forward speeds
- ⊕ unrestricted flexibility following the plough or when mulch sowing
- ⊕ very compact design – optimised lifting power requirement
- ⊕ Up to 55 kg of coulter pressure on the RoTeC pro coulter



Rotary cultivator
(or from choice: rotary harrow)

Wedge ring roller
(or from choice:
tooth packer roller)

RoTeC pro coulters
(or from choice:
RoTeC Control coulters)



Large seed hopper with 1,500 l + 500 l extension

Robust frame

The open, simple frame concept of the AD-P Super with its integrated packer roller and coulter fixing frame helps to save weight and increase the robustness.

Large hopper size

Fill-up times are kept to a minimum thanks to the big seed hopper. The capacity of the basic 1500 litre hopper can be increased, if desired, to 2000 l.



+ More output – more profitability

AD-P Super; 3 m working widths

Exact S following harrow
(or from choice: Roller harrow)

The intelligent modular system: AD-P Super

Compact design/modular build

By combining the seed hopper and the packer roller, the AD-P Super is extremely compact. Due to this compact design, with its favourable centre of gravity, the superbly robust seed drill combination requires a comparatively low lifting power. The components are close coupled to the tractor. Less load on the tractor rear wheels also reduces the depth of any wheel marks.





Tine load only 30%

Sits directly on the packer roller

The AD-P Super is carried completely on the large diameter wedge ring roller or tooth packer roller, allowing the rotary harrow or rotary cultivator to lift over stones without having

to lift the roller and the seed drill. This saves on damage to the tines and also the drive components of the soil tillage implement.

In just one pass: seedbed preparation – consolidation – sowing

With the 3 m AD-P Super, outputs are achieved that are usually only possible with a 4 m combination. The RoTeC pro coulter, with up to 55 kg coulter pressure, enables high speed sowing at up to 15 km/h even on seedbeds that are just

barely pre-worked; yet a high quality of seed placement is maintained. Less preliminary working down, less waiting for suitable soil conditions coupled with faster speeds means higher work rates and more flexibility during the season.



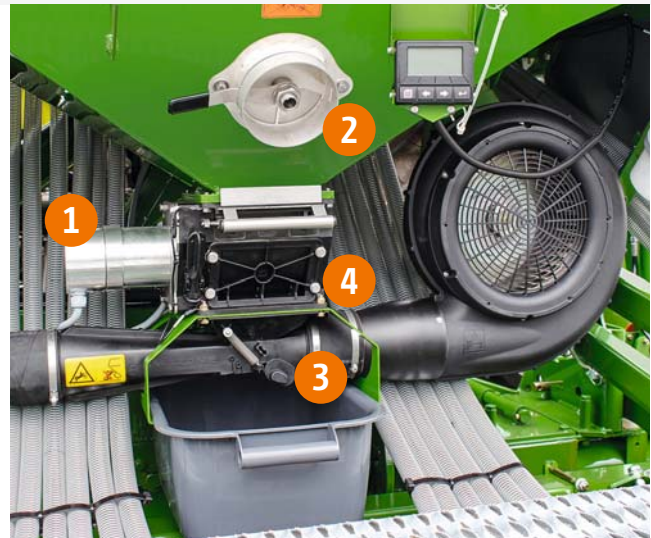
3 m working width – 4 m efficiency!

⊕ The pack top combination with the output of a trailed seed drill combination

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 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.

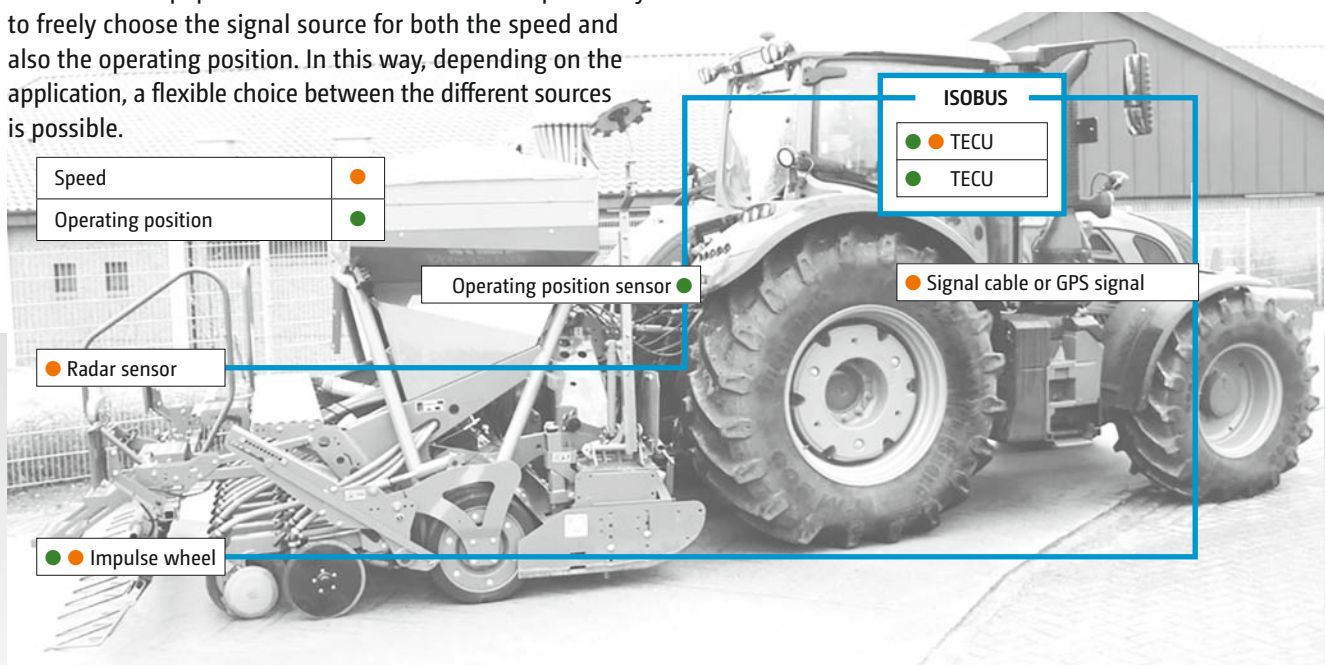


- ④ **Easy exchange of the metering cassettes:** the cassettes of the seed metering system can easily be exchanged. This allows the precise and gentle metering of all seed types and seed rates with excellent distribution along the row even at high forward speeds.

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	●



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)

ComfortPack 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, ComfortPack 1 with its TwinTerminal 3.0. The Twin Terminal 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.

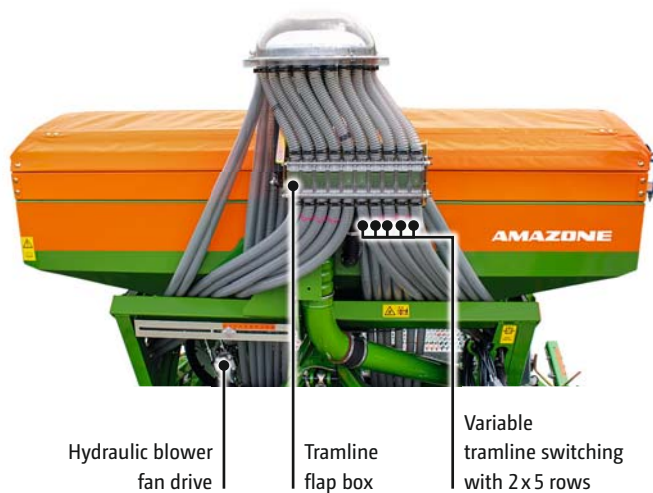
Metering cassettes for any type of seed

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).



Translucent distributor head, tramline control and blower fan



Variable tramline control

With the newly designed tramline control now two additional rows and thus, in total, up to five seed rows on each side can be switched off. The correspondingly wide tramline wheel tracks are suitable for tyre widths up to 99.6 cm on a 16.6 cm row spacing or 75 cm 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.

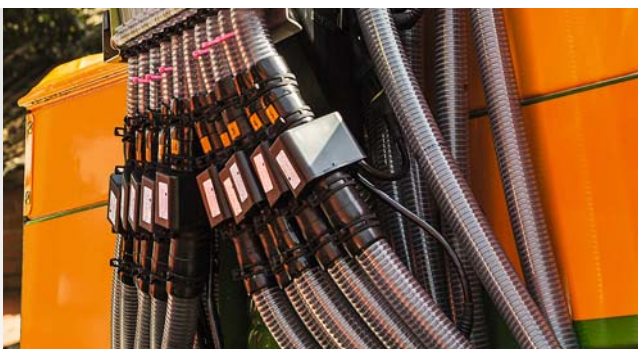
Translucent distributor head

The translucent distributor head ensures the permanent monitoring of the seed flow and therefore it is located outside the seed hopper within full view of the operator.

When creating tramlines the seed is sent back into the hopper. The seed delivery to the tramline coulters is stopped as soon as the electric motor shuts off the relevant seed tubes in the flap box, in which, the seed flow is rerouted from those hoses directly into the metering system. Up to 5 rows per side can be stopped when tramlining.

Hydraulic blower fan drive

The new high performance blower fan is characterised by its low oil requirement of 21 l/min at 3500 rpm and minimum noise emission.



+ 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 coulters 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.

Electronics make for a higher precision

Via the AMADRILL⁺in-cab control box or AMATRON 3, CCI 100 and AmaPad operator terminals, but also any other ISOBUS terminals, the control of tramline switching and the pre-emergence markers is carried out. Tramline creation is monitored via a sensor and offers easy reprogramming to other tramline rhythms. On the display is shown the operational position of bout markers and tramlining rhythm and, in addition, the area sown and the seed hopper level.

The electric metering drive is controlled via the relevant terminal. Additionally the seed rate can be adjusted in steps of choice from the tractor cab. The AMATRON 3 or other ISOBUS terminals makes possible the creation of intermittent tramlines in hilly terrain.





AMATRON 3 operator terminal

Machine overlapping operation

Control of all the important functions on the AD-P and Avant 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

The electric metering drive of the AD-P and the Avant allows simple calibration routines and the individual changes of seed rate. The comprehensive electro-hydraulic control via AMATRON 3 enables the operation of all functions, such as, for instance headland management or working intensity of the disc harrow unit from the tractor cab.

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 uploaded. By means of the AMATRON 3 on the AD-P or the Avant, part-area, site specific application maps, in either ISO-XML or Shape file format, can be processed. The impulse reading for recording the operating speed is determined via radar.

GPS-Switch for AD-P and Avant

Accurate placement of the seed

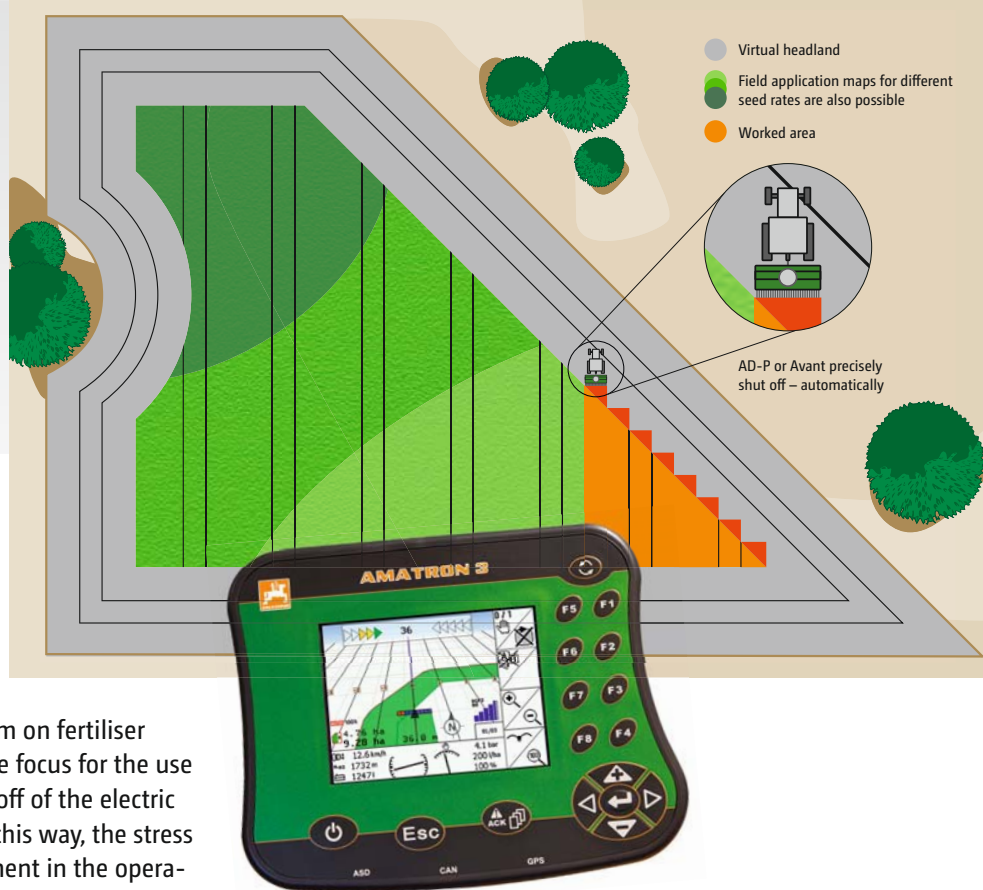
After the success of the GPS-Switch system on fertiliser spreaders and sprayers, sowing now is the focus for the use of this technology. The switching on and off of the electric metering system is controlled via GPS. In this way, the stress on the driver is reduced and an improvement in the operational performance is achieved, especially in small fields with many headland turns.

GPS-Switch controls, dependent on the position of the seed drill and the adjustments by the driver, the switch-on and off points of the electric metering unit of the AD-P or Avant. On the Avant (see page 36), a 3 m half-side switching is possible.

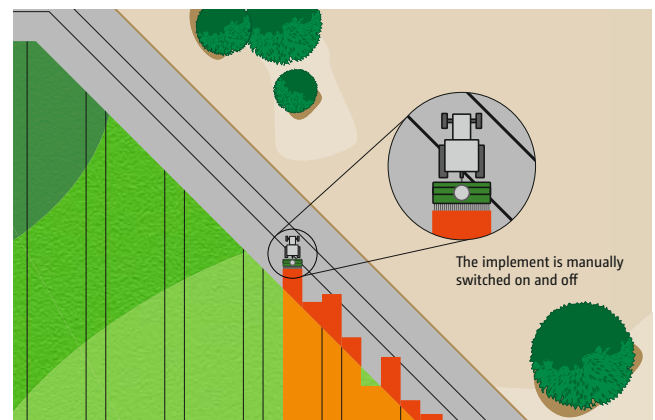
In this way, during practical operation, the often found over or under sown areas in critical spots, such as on the headland or in wedges can be minimised. Sowing 'gaps' are now things of the past! The driver can fully concentrate on driving and can operate the drill independently to achieve a neat transition.

Saving seed and higher work rates: with GPS-Switch now applicable to sowing, the classic method of raising the drill to switch it off which leaves some seed on the surface and gives more chances of misses is avoided so that the sown seed is better placed. For a better optimisation of the switch-on and switch-off points, AMAZONE recommends RTK accuracy.

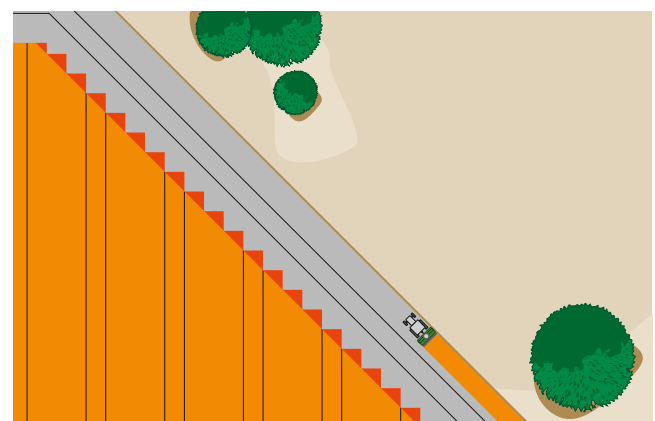
The future today: in addition, becoming increasingly popular is the use of application maps, where the seed rates can be matched to individual zones in the field – such as hills and hollows or changes in soil type. Task Controller is available as a special option. The AMATRON 3 terminal (per ISO-XML) or GPS-Maps allows the simple realisation of seed maps. Standardised file formats can be imported into the system which is then implemented fully automatically. A graphic display of the map in the background offers a good overview.



AMATRON 3 with GPS-Switch on the AD-P and Avant



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



Position dependent, automatic switching on and off of the electric metering unit with GPS-Switch

CCI terminal

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 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.
- + Inputs can be entered either, 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 function of the "soft keys" 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 features the following functions:

- + ISOBUS implement operation
- + 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
- + Serial interface, e.g. for N sensors
- + Tractor ECU function
- + 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 an especially ergonomic, 12.1" touch screen. With the unique "MiniView" 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 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
- ⊕ GPS-Track pro parallel guidance system
- ⊕ As an option: upgradable to automatic steering
- ⊕ GPS-Maps pro application map module

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





Sowing following the plough or mulch sowing with pneumatic seed drill combinations

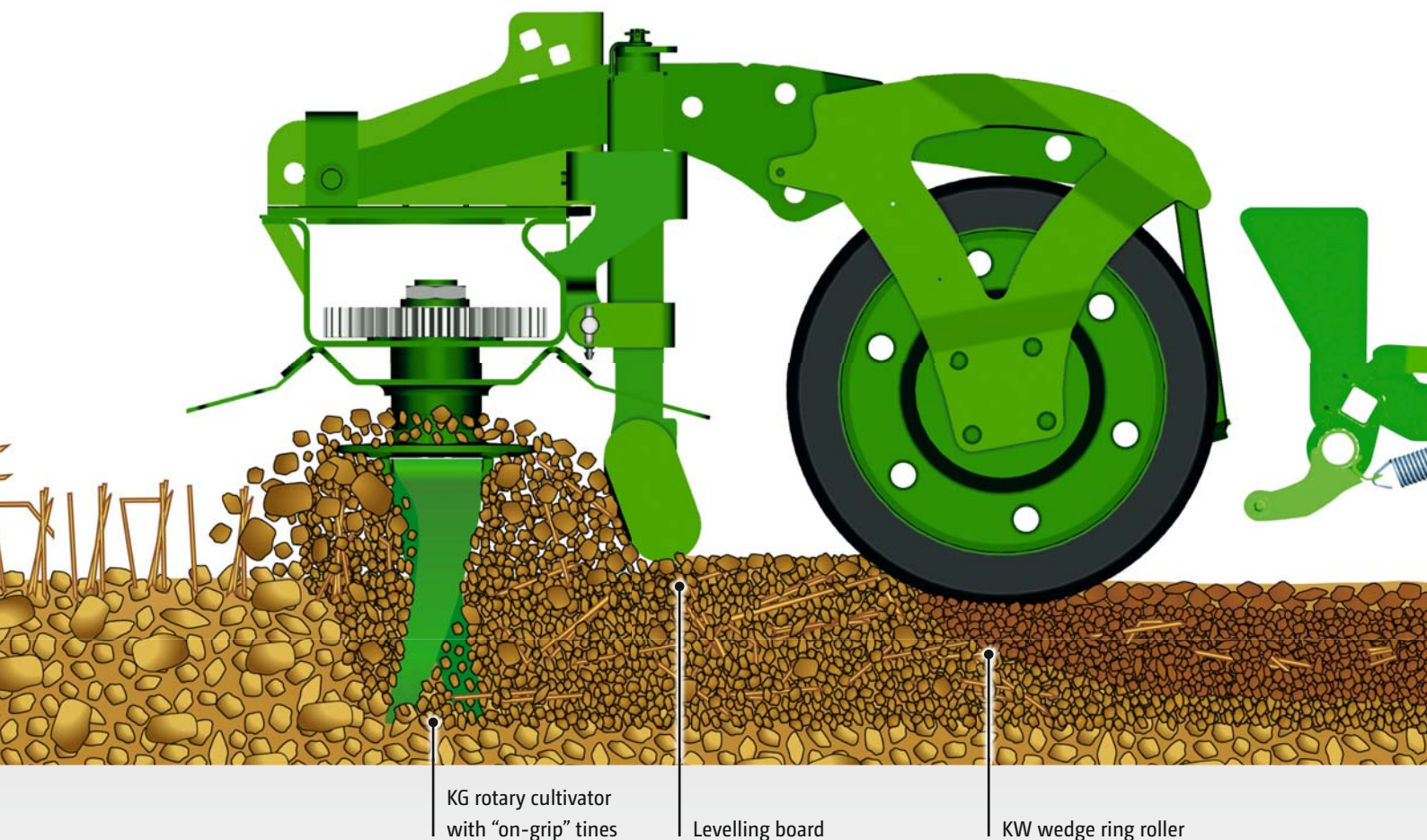
Mulch sowing made possible!

AMAZONE seed drill combinations have proven themselves by the hundred thousand both for cost saving mulch sowing and also when conventionally sowing following the plough.

For sowing on ploughed land the rotary harrow and tooth packer roller with a pneumatic Pack Top seed drill equipped with WS suffolk coulters form a superb combination. The rotary harrow tills and levels the soil, followed by the tooth packer roller that re-consolidates the soil. In this way, the

seedbed is ideally prepared for the following WS suffolk coulters.

For mulch sowing, a combination of rotary cultivator, wedge ring roller and Pack Top seed drill with RoTeC Control coulters is recommended. The rotary cultivator loosens even hard packed soils and maintains its working depth due to the “on-grip” tines. The straw is simultaneously incorporated and, thanks to the large clearances between the tines and



KG rotary cultivator with “on-grip” tines

Levelling board

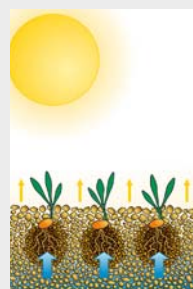
KW wedge ring roller



Function overview – PTO-driven seed drill combinations: straw incorporation, seed embedment and sowing in one pass

the trough, the straw-soil-mixture can pass through the machine above the tine carriers without a problem. The following levelling board levels any ridges and furrows.

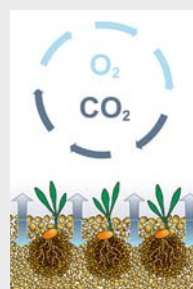
The wedge ring roller reconsolidates the soil in strips so that one third of the soil is reconsolidated whereas two thirds of the surface remains loose. The RoTeC Control coulters then precisely place the seed into the reconsolidated strips.



Even in very dry weather the capillary water is drawn back to the seedling.



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



Gaseous exchange in the loose soil – the roots can breathe.



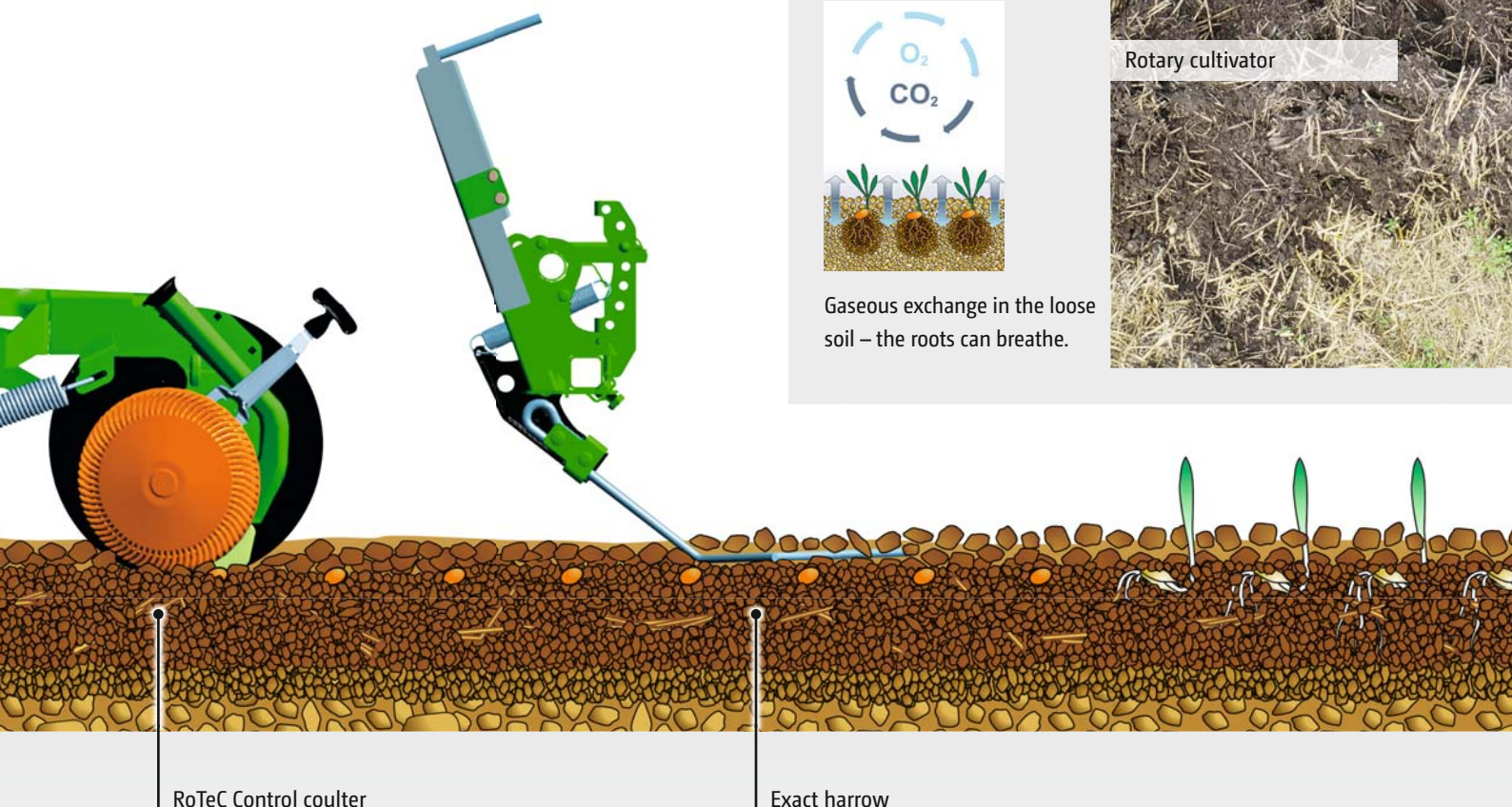
Exact harrow

RoTeC Control coulters

Wedge ring roller

Levelling board

Rotary cultivator



RoTeC Control coulter

Exact harrow



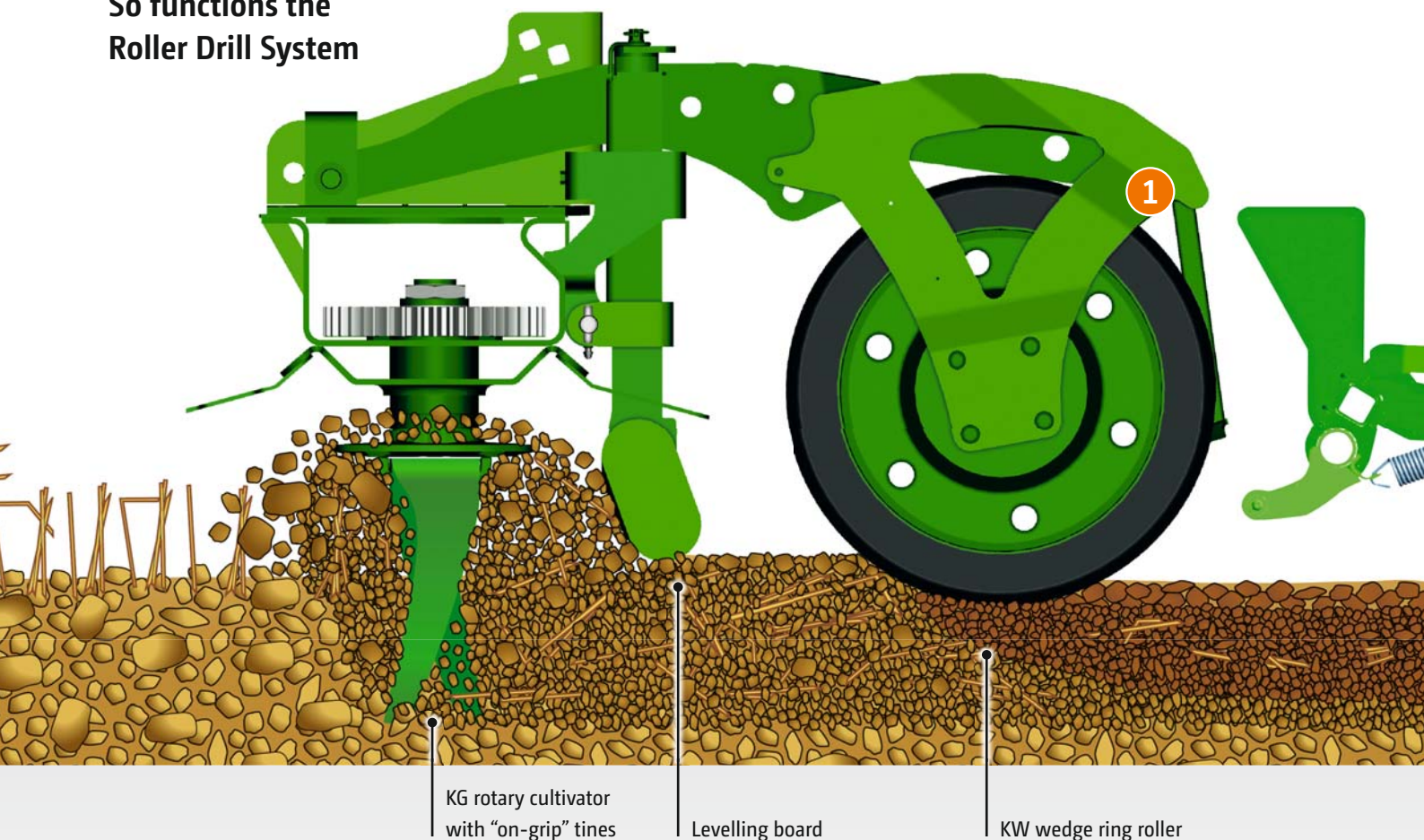
RDS Roller Drill System

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.

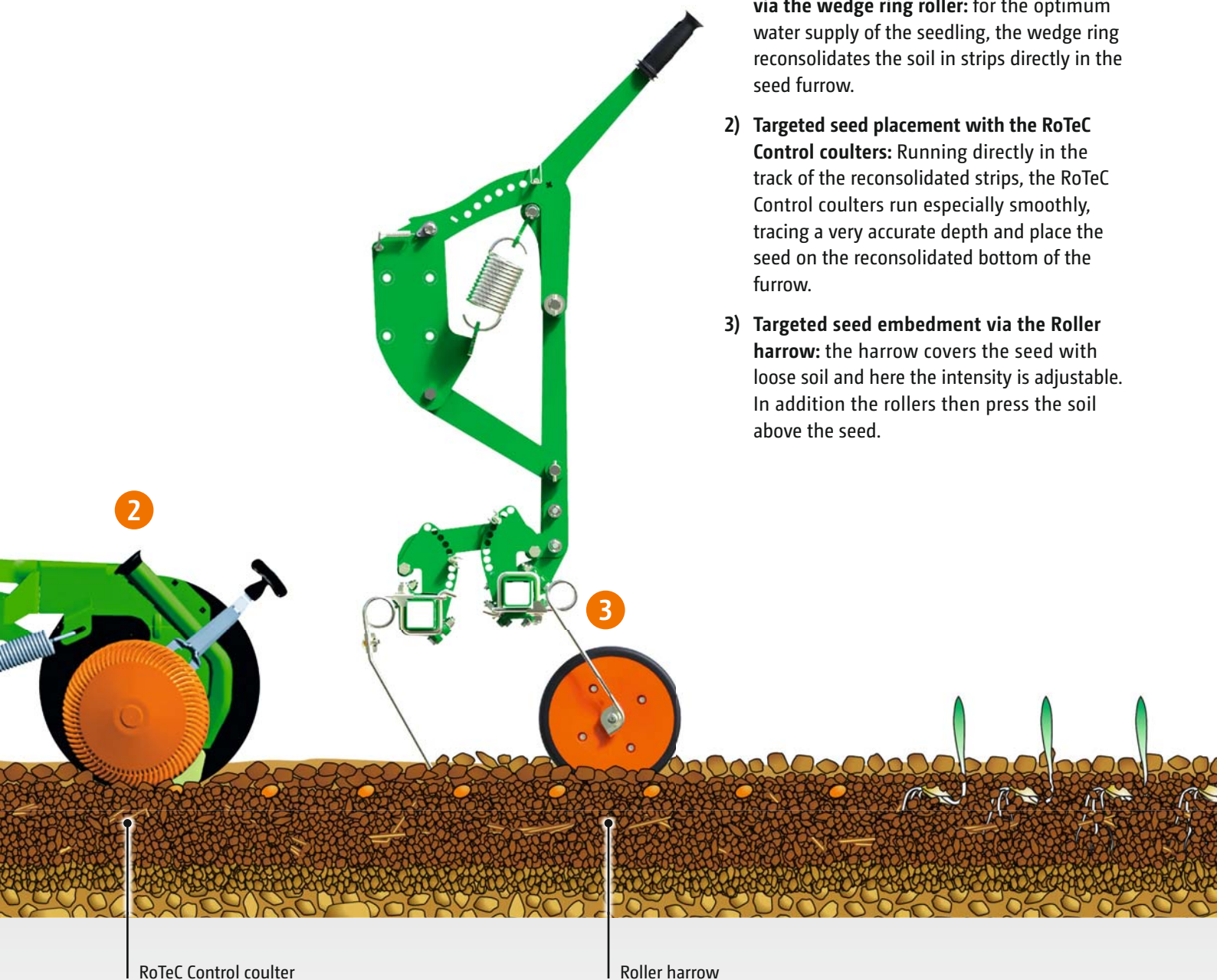
So functions the Roller Drill System





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.



RoTeC Control coulter

Roller harrow

Not too much and not too little – site-specific reconsolidation

Versatile roller programme

For areas with lighter soils and for smaller tractors, the light-weight cage roller is available. With the tooth packer roller, an even soil reconsolidation across the full working width is achieved. Wedge ring rollers provide reconsolidation in strips. These are the best pre-conditions for an even growth of volunteer grains and weed seeds.

Cage roller

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



KE 3000 Special with cage roller



KE 3000 Super with 500 mm tooth packer roller

SW cage roller		Working width
Ø 420 mm	rigid	2.50 m, 3.00 m
Ø 520 mm	rigid	3.00 m, 3.50 m, 4.00 m
	folding	4.00 m, 5.00 m, 6.00 m



KG 3000 Special with Cracker-Disc roller

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 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

Cracker-Disc roller

- ⊕ Especially for heavy clay soils
- ⊕ Maximum crumbling thanks to large steel packer rings with wave profile and cutting knives
- ⊕ Large 550 mm diameter, ideally suited for big sowing combinations
- ⊕ Integrated cross teeth provide a high self-drive effect
- ⊕ Scrapers clean the gaps between the steel rings, no harvest residues and no blockages
- ⊕ Cutting knives with overload safety device
- ⊕ Robust, closed steel roller



KG 3000 Special with 600 mm tooth packer roller

PW tooth packer roller		Working width
Ø 420 mm	rigid	2.50 m, 3.00 m
Ø 500 mm	rigid	2.50 m, 3.00 m, 3.50 m, 4.00 m
	folding	4.00 m, 5.00 m, 6.00 m
Ø 600 mm	rigid	3.00 m, 3.50 m, 4.00 m
	folding	6.00 m

Cracker-Disc roller		Working width
Ø 550 mm	rigid	3.00 m, 3.50 m, 4.00 m



KX 3000 with 520 mm wedge ring roller

Wedge ring roller

- ⊕ Universal for all soils and conditions
- ⊕ The seed is sown in the reconsolidated strips by the coulter following behind
- ⊕ Even in heavy soils, sufficient loose earth is available for the optimum seed coverage
- ⊕ Excellent suitability in any weather, wet or dry



KG 3500 Super with 580 mm wedge ring roller

KW wedge ring roller	Working width	
Ø 520 mm	rigid	2.50 m, 3.00 m
Ø 580 mm	rigid	3.00 m, 3.50 m, 4.00 m
	folding	4.00 m, 5.00 m, 6.00 m

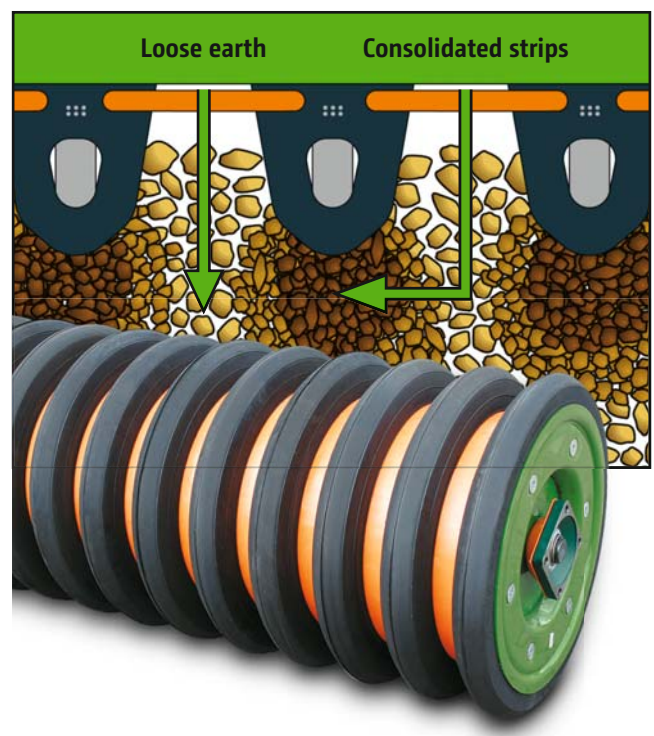
Wedge ring roller: targeted reconsolidation ...

... for optimum plant development.

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

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

The wedge rings leave a homogeneous, pre-consolidated strip without any stud marks. Compared to rollers with other profiles, this is a decisive advantage, resulting, above all, in a smooth run of the sowing coulters.



Enclosed roller

As a general rule, enclosed rollers perform better than open rollers, particularly on loose, light soils. Open rollers also become clogged up more easily than enclosed rollers. This is why the rubber rings in the wedge ring roller are fitted onto a closed cylinder. When the wedge rings sink into the soil they are carried across the full length via the centre barrel.

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

⊕ “With the large diameter wedge ring roller we achieved a very good operational performance on medium to heavy soils under a variety of conditions and, last but not least, due also to the rubber dampened levelling board.”

(profi 8-2013 · Test report AMAZONE KG 6001-2 rotary cultivator)

Robust steel roller body



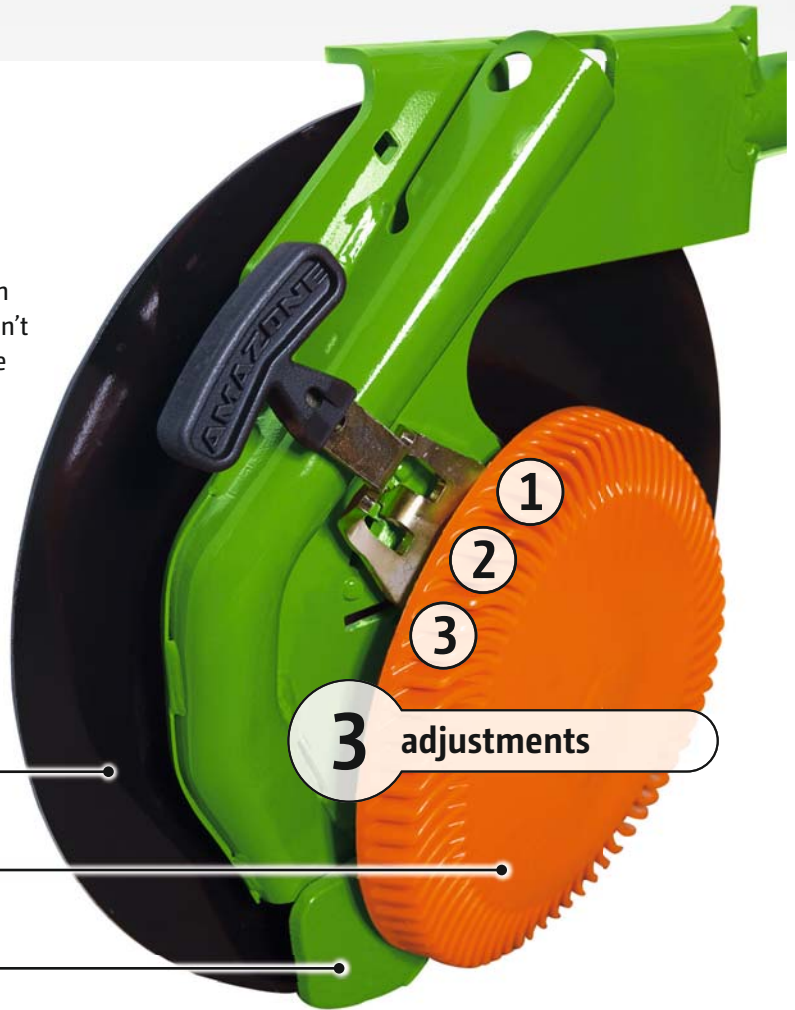
Air cushion shock absorber

Metal insert for maximum ruggedness and a perfect fit

Spacer ring with dirt-repellent surface

Seed embedment through the RoTeC Control coulters for conventional and mulch sowing on all sowing combinations

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.



Sowing disc

Control 25 depth guidance roller

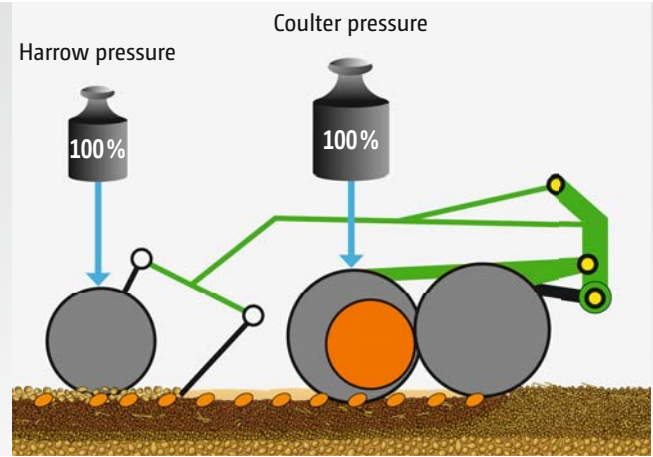
Furrow former



⊕ 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.



RoTeC: now proven by over 300,000 units! Awarded an Agritechnica silver medal

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.

Depending on the machine model, a row spacing from 12.5 cm to 16.6 cm is available.

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.



Seed embedment via the RoTeC pro coulters in both conventional and mulch sowing on the AD-P Super and Avant



⊕ RoTeC pro coulters (Ø 400 mm)
with Control 25 depth guidance
roller

▼
55 kg coulters pressure

⊕ RoTeC Control coulters (Ø 320 mm)
with Control 10 depth guidance
disc

▼
35 kg coulters pressure

For sowing in especially large fields and for more arduous operating conditions AMAZONE has developed the RoTeC pro coulters. The coulters feature a disc diameter of 400 mm and are made from 4 mm thick hardened Boron steel. In this way, the wear is kept to a minimum and an already long service life is further extended.

For trouble-free sowing at high forward speeds and in heavy soils where there is much straw, the coulters pressure has been increased to a maximum of 55 kg.

For RoTeC coulters, the row spacing is 12.5 cm or 16.6 cm.

Hydraulic coulters lift for the AD-P Super and Avant

For an initial cultivation without sowing, the coulters can be hydraulically lifted. This enables the quick and flexible adaptation to particular situations such as in areas of poor

straw incorporation, in part areas where a preliminary pre-work is necessary. The targeted pre-loosening of the headland or other compacted areas is also possible.

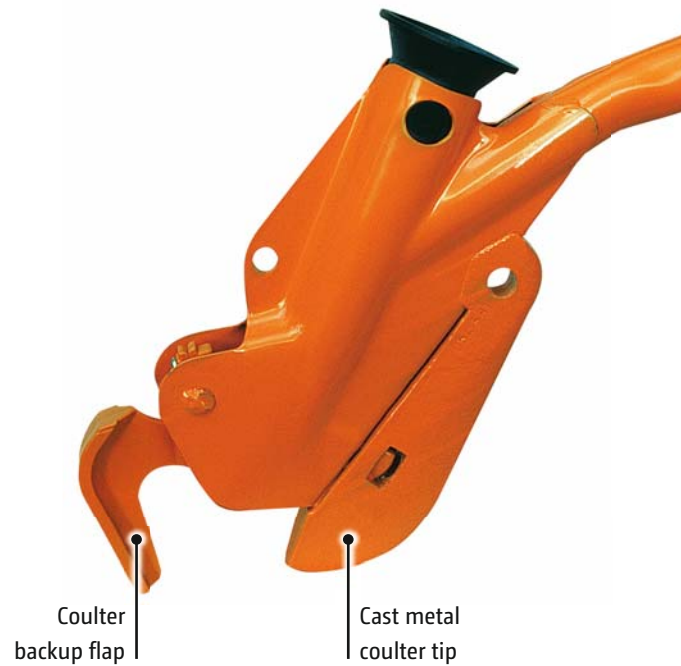
Seed embedment via the WS suffolk coulters for the AD-P Special when following the plough

Robust and precise

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

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

For WS suffolk coulters, the row spacing is 12.5 cm or 16.6 cm.

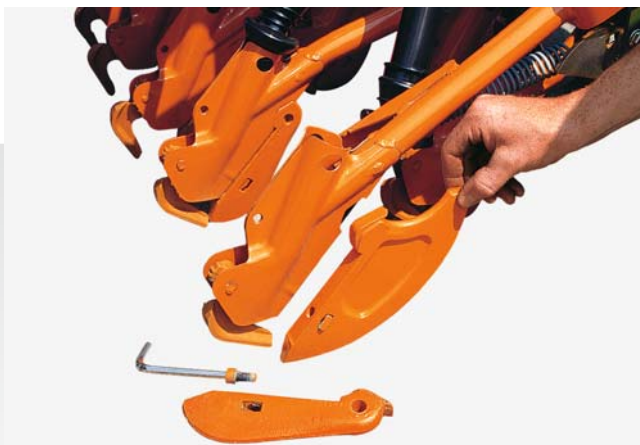


Sabre coulters tip

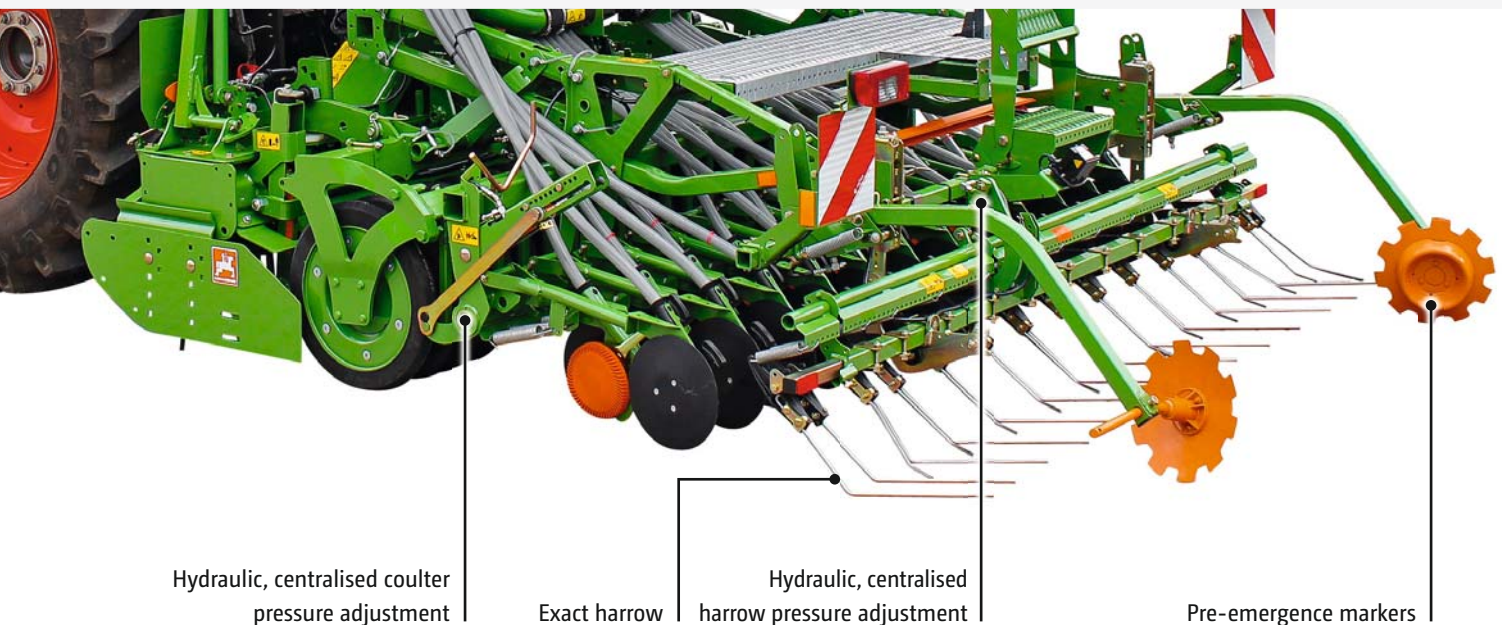
For very shallow seed placement on light soils, or when mulch sowing with little straw present, the sabre coulters tip has been developed. With minimal effort, these can be exchanged for the standard WS suffolk coulters tip.

Band sowing shoes

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



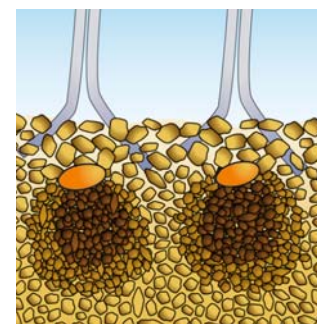
Seed coverage with the Exact harrow



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 coulters 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 coulters, 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 ..."

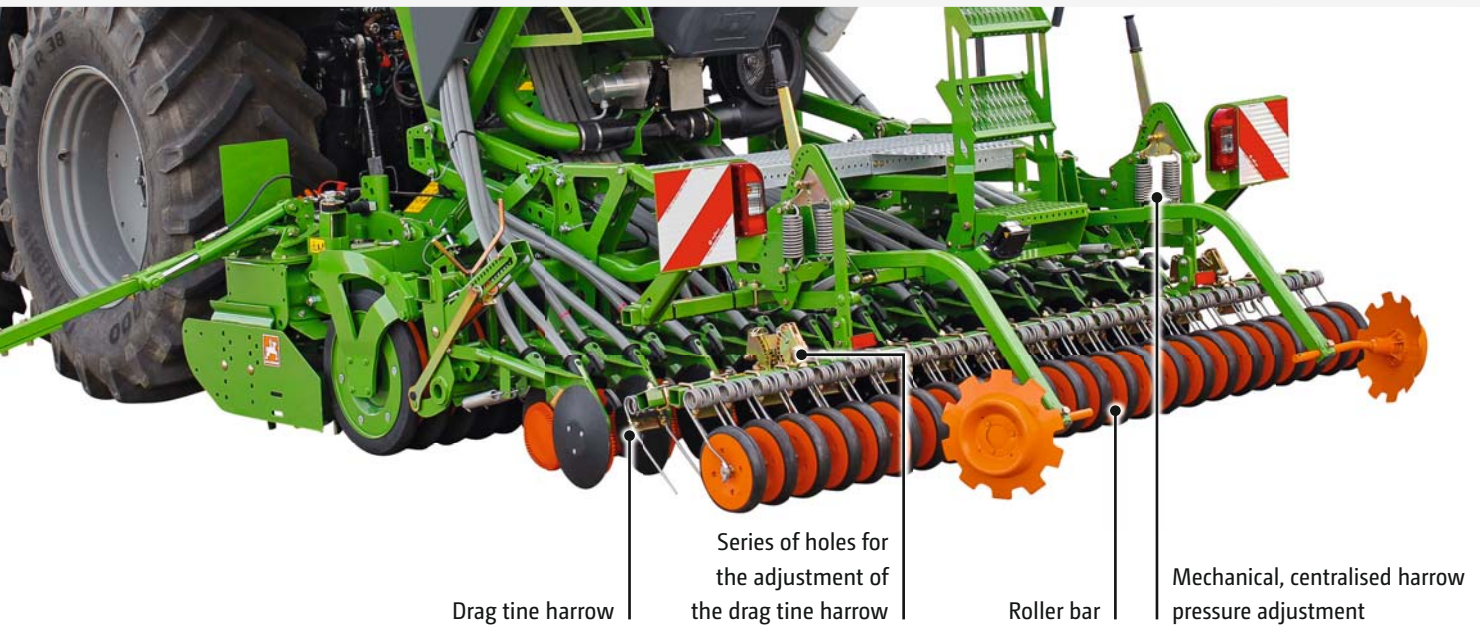
Coulters pressure adjustment

On the AD-P Special, the coulters pressure is mechanically adjusted, centrally. As an option, hydraulic coulters pressure adjustment is available. The coulters pressure of the AD-P Super is – as standard – hydraulically adjustable.

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.

Additional consolidation with the Roller harrow



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

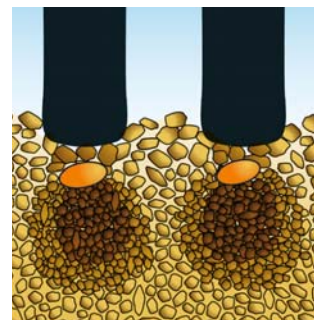
profile that reduces erosion is the result. The Roller harrow, adjustable separately from the coulter pressure, can follow the ground contours over a range of ± 100 mm.



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



Roller bar 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.

Avant: seed drill combination with front seed hopper for sowing on the plough or for mulch sowing



⊕ Compact – punchy – quick

For agricultural contractors and large farms in 4 m, 5 m and 6 m working widths

High work rates and first-class sowing performance: with these outstanding features, the folding Avant seed drill combination proves its worth with its ability to operate in practically every farming situation. In larger working widths of 4 m, 5 m or 6 m, the professional end user can profit from the modular build design. The front mounting frame of the tractor is sensibly made use of by the seed hopper. Additional weights are not necessary. So, with the seed

hopper mounted on the front and the rotary cultivator, packer roller and sowing coulters on the rear of the tractor, the result is a manoeuvrable combination with an optimum weight distribution that provides high outputs even in small fields. Quick and simple change round from field to field:

Just fold up hydraulically, drive on to the next field, unfold and start work!



Folding rotary cultivator in 4 m, 5 m or 6 m working widths



⊕ “We were impressed by the smooth run of the 2 x 10 tine carriers. Because instead of an offset arrangement in pairs at an angle of 90°, they are set in a spiral.”

(profi 8-2013 · Test report AMAZONE KG 6001-2 rotary cultivator)

⊕ “During our short test the KG rotary cultivator turned out to be a real ‘cookie monster’. And thanks to the new drive line, the new KG 6001-2 can now even cope with tractor capacities of up to 360 HP”

(profi 8-2013 · Test report AMAZONE KG 6001-2 rotary cultivator)

The right working width for tractors of any power

The 4 m, 5 m and 6 m working width rotary cultivators fold hydraulically to a transport width of 3 m and are suitable for tractors up to 265 kW (360 hp).

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

The main gearbox of the folding rotary cultivator is equipped with 2-speed lever change for rapid adjustment of the tine speed to different soils and working intensities.



KG 6001-2 folding rotary cultivator;
in 6 m working width

Quick mounting – quick set-up times

Optimum weight distribution

Front hopper and rear combination are mounted to the tractor in just a few minutes and without tools. The seed tubes are fitted down the side of the tractor via retainers that can remain there even when the Avant has been dismounted. By means of over-centre catches, the seed tubes to the front hopper and the rear combination are quickly connected. The front hopper is coupled onto the tractor's front linkage and the hydraulic couplings are plugged into the tractor. The same procedure is carried out for the rear: The rotary cultivator is mounted onto the lower link arms,

the top link arm connected and the hydraulic hoses are plugged in. That just leaves the data cable to be fitted to the AMATRON 3 and sowing operation can start.

On the 6 m Avant with electric metering drive, switching off half the working width is possible from the tractor seat.



Avant 6001-2

Exact S following harrow

RoTeC⁺ Control coulters
(or from choice: RoTeC Control coulters)

Wedge ring roller
(or from choice:
tooth packer roller)

KG rotary
cultivator 6001-2

+ Compact on the road

For transport on public roads, the rear mounted combination can be hydraulically folded to a transport width of less than 3 m and a transport height of less than 3.7 m.



The benefits:

- +** good exploitation of the tractor's mounting points
- +** even ballasting of the tractor axles
- +** excellent manoeuvrability on the road and in the field
- +** quick changeover times between individual fields further increases profitability: Just fold up hydraulically, drive to the next field, unfold and start work!



- +** "Apropos transport width: for road transport the 3 m wide wings are vertically folded via double acting rams to 2.90 m – ideal!"

(profi 8-2013 · Test report AMAZONE KG 6001-2 rotary cultivator)

FPS front seed hopper with tyre packer

Avant folding sequence



Front hopper with up to 2000 l capacity

With or without self-steering tyre packer

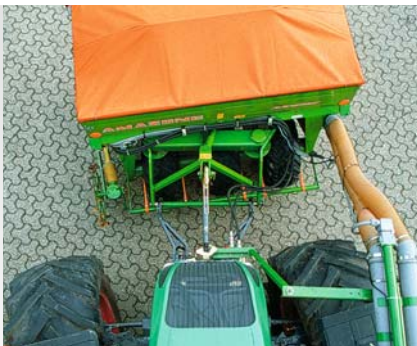


FPS front seed hopper with self-steering front tyre packer

FPS front seed hopper with front tyre packer: the front tyre packer gives additional reconsolidation of the area left in between the tractor wheels. With its self-steering packer, driving around bends is simply possible.

FRS front seed hopper with front mounting frame: when specified without the tyre packer, the FRS front seed hopper is carried on the tractor's front linkage system. If necessary, additional ballast weights can also be added to the front hopper.

The front mounted seed hopper has been designed to be wide and low so as not to obstruct the driver's view. The same applies to the visibility to the rear, where the lack of a seed hopper makes for an uncluttered view of the rear mounted implements.



Avant 6001-2
and FRS front seed hopper
with front mounting frame and star wheel drive



A power-efficient hydraulic motor drives the blower fan for the seed delivery. Modern tractors are equipped with sufficient hydraulic valves which, independent of the engine speed, provide a constant oil flow and thus fulfil all the parameters for hydraulic drive.



The seed cassettes from the metering unit can easily be exchanged, ensuring a precise metering with good longitudinal distribution for all seed types and seed rates even at high operational speeds.

The star wheel on the seed tank provides a guaranteed reliable drive to the metering system. As an option, electronic seed rate control with the AMATRON 3 is available or as an alternative, electric metering drive via AMATRON 3 can be specified. In this way in-cab seed rate control and fully automatic calibration is possible (see page 19).

The RoTeC⁺ Control coulters and the Exact S following harrow ensure a precise and safe seed placement. The impulse wheel ensures the reliable recording of the distance travelled with the electrical metering drive.



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Your satisfaction is our challenge





Original AMAZONE



Verschleißteilkatalog
für Landtechnik und Kommunaltechnik

Catalogue pièces d'usure
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Wearing parts catalogue
for Agricultural machinery and ground care products

Каталог деталей износа
для сельскохозяйственной и коммунальной техники



**Choose the Original
Choose Success!**

VDMA campaign:
Pro-Original



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. 28,000 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.

Only original spare parts and wearing metal are perfectly matched to AMAZONE machinery in their functionality and durability. This ensures the optimum operational performance. Original parts at a fair price pay off in the end.

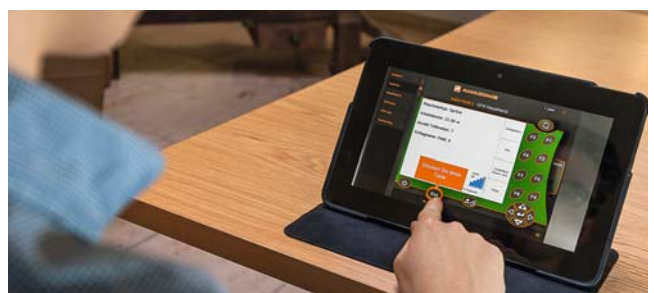
Therefore, make your decision the original!

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.



Technical data: AD-P Special and AD-P Super

	AD-P 3000 Special	AD-P 3500 Special	AD-P 4000 Special	AD-P 3000 Super	AD-P 4000 Super
Working width (m)	3.00	3.50	4.00	3.00	4.00
Transport width (m)	3.00	3.50	4.00	3.03	4.03
Number of rows	24/18	28/21	32/24	24/18	32/24
Row spacing (cm)	12.5/16.6	12.5/16.6	12.5/16.6	12.5/16.6	12.5/16.6
Hopper capacity without extension (l)	850/1250	850/1250	850/1250	1500	1500
Hopper capacity with extension (l)	1100/1500	1100/1500	1100/1500	2000	2000
Height to the upper edge of the hopper (m)	1.97/2.12	1.97/2.12	1.97/2.12	2.03	2.03
Height to the upper edge of the hopper with extension (m)	2.07/2.23	2.07/2.23	2.07/2.23	2.22	2.22
Weight with WS coulters without soil tillage implement (kg)	760 ¹ /780 ²	810 ¹ /830 ²	860 ¹ /880 ²	–	–
Weight with RoTeC Control coulters without soil tillage implement (kg)	845 ¹ /865 ²	910 ¹ /930 ²	975 ¹ /995 ²	–	–
Weight with KE Super/WS coulters/PW 600 (kg)	2314 ¹ /2334 ²	2656 ¹ /2676 ²	2836 ¹ /2856 ²	–	–
Weight with KE Super/WS coulters/KW 580 (kg)	2257 ¹ /2277 ²	2610 ¹ /2630 ²	2807 ¹ /2827 ²	–	–
Weight with KG Special/RoTeC Control coulters/PW 600 (kg)	2689 ¹ /2709 ²	2926 ¹ /2946 ²	3206 ¹ /3226 ²	2830 ³	3450 ³
Weight with KG Special/RoTeC Control coulters/KW 580 (kg)	2632 ¹ /2652 ²	2880 ¹ /2900 ²	3292 ¹ /3312 ²	2820 ³	3420 ³
Weight with KG Special/RoTeC pro coulters/PW 600 (kg)	–	–	–	3040 ⁴	3720 ⁴
Weight with KG Special/RoTeC pro coulters/PW 580 (kg)	–	–	–	3030 ⁴	3690 ⁴

AD-P Special:

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

²Weight of basic machine 1250 l with coulters set, blower fan, 12.5 cm row spacing, Exact following harrow, bout markers, in-cab terminal

³Weight of the base machine 1500 l with RoTeC coulters, lights, licence plate carrier, distributor head, 12.5 cm row spacing, Exact following harrow, radar, in-cab terminal

⁴Weight of the base machine 1500 l with RoTeC pro coulters, lights, licence plate carrier, distributor head, 12.5 cm row spacing, Exact following harrow S, radar, in-cab terminal

Technical data: Avant

Front hopper	FRS 104 with front mounting frame	FPS 104 with front tyre packer	FRS 204 with front mounting frame	FPS 204 with front tyre packer
Number of metering units	1	1	2	2
Hopper capacity without extension (l)	1500	1500	1500	1500
Hopper capacity with extension (l)	2000	2000	2000	2000
Weight with seed without extension (kg)	1665	2190	1700	2225
Weight with seed with extension (kg)	2015	2540	2050	2575
Lifting power requirement without extension (kg)	2900	4300	2900	4300
Lifting power requirement with extension (kg)	3500	4970	3500	4970
Rear combination	Avant 4001	Avant 4001-2	Avant 5001-2	Avant 6001-2
Execution	rigid	folding	folding	folding
Working width (m)	4.00	4.00	5.00	6.00
Number of distributor heads	1	1	1	2
Weight with RoTeC Control coulters (kg)	2970	4290	4970	5500
Lifting power requirement (kg)	5300	7920	9550	10400

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.



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