



AMAZONE

Mounted seed drill combination **Avant**
with mounted front hopper **FTender**



Welcome to a world of
flexible combination seeding:
**The Avant with FTender
from AMAZONE**



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Mastering the current challenges in sowing with the Avant from AMAZONE

The Avant mounted pneumatic seed drill combination with FTender enables highly economical, high impact working after the plough and mulch sowing.

The ideal seed drill combination – seedbed preparation, strip-wise reconsolidation, sowing, optional fertiliser placement in the seed furrow and seed embedment – all in a single pass for efficient working!

Manoeuvrability – the arrangement of the front hopper and the rotary harrow or rotary cultivator with seed rail on the rear reduces the turning circle of the combination – despite working widths up to 6 m. Quick turning at the headland is no problem!

Protecting the soil – the weight of the implement is distributed more evenly across the tractor's axles thanks to the division of the front seed hopper and the rear sowing unit. This minimises soil compaction!

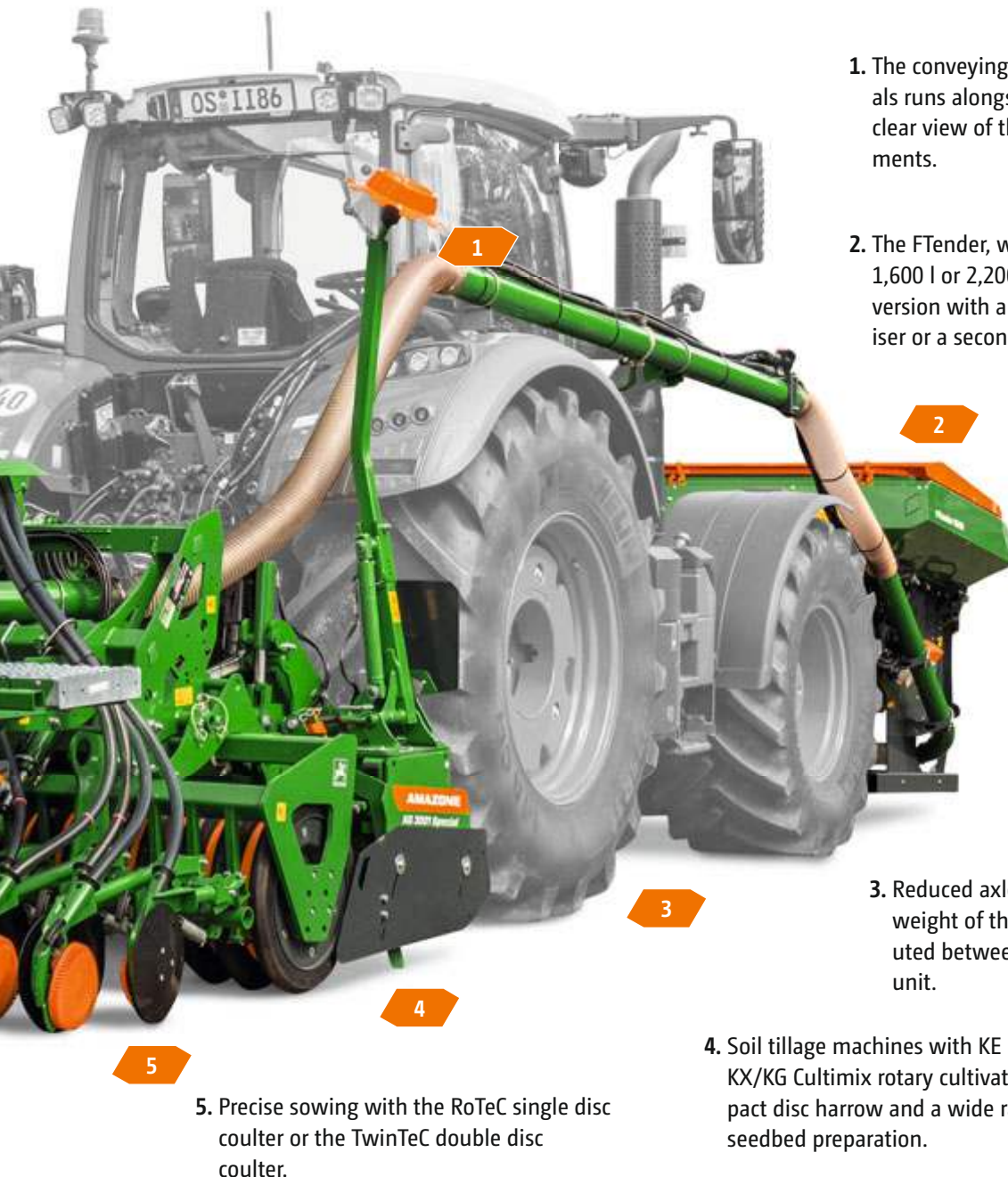
Precise sowing in just a single pass for cost-effective working with the Avant.



Model overview	Avant 3002 and 4002	Avant 4002-2, 4502-2, 5002-2 and 6002-2
Working width (m)	3 or 4	4, 4.5, 5 or 6
Frame execution	rigid	folding

The Avant concept

Reliability and flexibility combined



1. The conveying system for the applied materials runs alongside the tractor, providing a clear view of the individual machine elements.

2. The FTender, with a large capacity of either 1,600 l or 2,200 l, is optionally available as a C version with a split hopper for applying fertiliser or a second seed.

3. Reduced axle loads on the tractor, since the weight of the machine is optimally distributed between the front unit and the rear unit.

4. Soil tillage machines with KE Rotamix rotary harrow, KX/KG Cultimix rotary cultivator or CombiDisc mounted compact disc harrow and a wide range of rollers for optimum seedbed preparation.

5. Precise sowing with the RoTeC single disc coulters or the TwinTeC double disc coulters.

The Avant pneumatic mounted seed drill combination with FTender



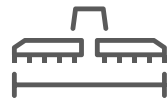
MORE INFORMATION
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SMARTLEARNING
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PRODUCT FILM
Find out more



3 to 6 m



12.5 or 15 cm



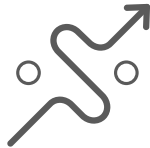
1,600 or 2,200 l



Up to 10 km/h

High-output sowing with the easily manoeuvrable seed drill combination

Manoeuvrability is key. High impact too. The Avant combines both. For sowing after the plough and mulch sowing, seedbed preparation and sowing in a single pass. The folding rear seed rail allows you to change fields quickly in just a few seconds. This, in combination with the wide working widths of up to 6 m, ensures fast working, high area coverage and good cost-effectiveness.



FLEXIBILITY

Flexible!

Applying seed and fertiliser using the Single-Shoot process for optimal initial crop growing conditions.

The soil tillage tool can be used on its own thanks to the ease with which the units can be separated.



OUTPUT

High output!

Reliable coulters technology in the RoTeC single disc coulters or TwinTeC double disc coulters enables extended working periods.

The large front tank capacity makes for high outputs.



PRECISION

Precise!

Excellent visibility of soil tillage tool and seed rail means precise working, especially on the headland.

The machine runs very smoothly thanks to its large packer roller diameter, and strip-wise reconsolidation improves the precision of the seed placement.

Carry seed and fertiliser on the front, sow at the rear

FTender on the front and seed rail on the rear



Maintain the visibility, sow precisely and protect the soil!

The Avant offers a combination of front and rear units. Seed and, optionally, fertiliser, are carried at the front in the FTender, which are then fed to the rear seed rail via the conveying system along the side of the tractor. Here, the seedbed is prepared first using a choice of compact disc harrow, rotary harrow or rotary cultivator and reconsolidation roller. The Avant's following coulter rail places the seed and fertiliser directly into the seed furrow, and the open seed furrow is reliably closed by a harrow. This enables the efficient combination of seedbed preparation and sowing in a single pass, with optimally distributed axle loads to protect the soil and maximise the machine's manoeuvrability.



FTender mounted front hopper

For universal use in seeding and soil tillage



FTender for flexible use in combination with both seeding systems and soil tillage

Advantages of the FTender

- ✔ High output due to the large hopper capacity of either 1,600 l or 2,200 l
- ✔ The split hopper enables seed and fertiliser to be combined
- ✔ More comfort thanks to full ISOBUS implementation in the machine actuation
- ✔ Large opening enables quick and easy filling
- ✔ Quick and easy coupling and uncoupling
- ✔ Easily accessible metering unit
- ✔ Comfortable calibration on the machine
- ✔ Easy calibration using the calibration button and calibration kit or the TwinTerminal

The arrangement of the hopper in the front distributes the weight of the implement evenly across the tractor's axles. This means that additional weights at the front of the tractor are not required. This saves fuel and protects the soil thanks to a lower, well-distributed overall weight.



FTender 1600 with a closed conveying system and pressurised hopper via the sealed hopper lid for high application rates

High output

AMAZONE offers a universal, front-mounted hopper for multi-functional use in the shape of the FTender with a capacity of 1,600 l or 2,200 l. The single tipped, mounted front hopper has an aerodynamic shape and allows for good forward visibility. This is useful when driving on roads as well as during turning in the field. The advantage of the pressurised hopper lies in higher transfer rates, which is why its use is particularly recommended for higher rates of fertiliser. The FTender is also available with a split hopper for even more permutations whilst sowing.

ISOBUS machine control – fully integrated or independent!

Machine control on the FTender takes place via ISOBUS. This means that the mounted front hopper can be easily operated intuitively and with all the advantages of ISOBUS communication. The FTender can therefore either have its own complete ISOBUS electronic system (ISOBUS autonomous) or be integrated in the electronic system of the sowing system behind (ISOBUS integrated).



Large opening of 1.10 m x 2.20 m for quick and easy filling of the FTender

One machine for the many aspects of arable farming

The FTender from Amazone can be used with a variety of connected implements across a wide range of applications. Hitching on and off is quick and easy thanks to the quick-release connectors on the conveying system.

Execution	Working width (m)	Conveying systems
rigid	3–4	single
folding	4 and 4.5	single
folding	5–6	double

For those who want more – FTender:

- ✔ Thanks to the FTender's modular software and hardware, different scenarios can be unlocked with the FTender throughout the year, ensuring high flexibility and cost-effectiveness
- ✔ Conveying systems for AMAZONE seed drills and precision air seeders for sowing cereals, rape, maize, beet or with soil tillage machinery for sowing catch crops and for deep fertilisation
- ✔ Pressurised system for optimum delivery rates
- ✔ Large hopper capacity for long periods of use
- ✔ FTender with tyre packer and/or additional weights



FTender 2200-C with a split tank for combining seed and fertiliser or a second seed

Metering

Comfortable & precise



Calibration kit fitted as standard down on the machine

Electric metering with the FTender

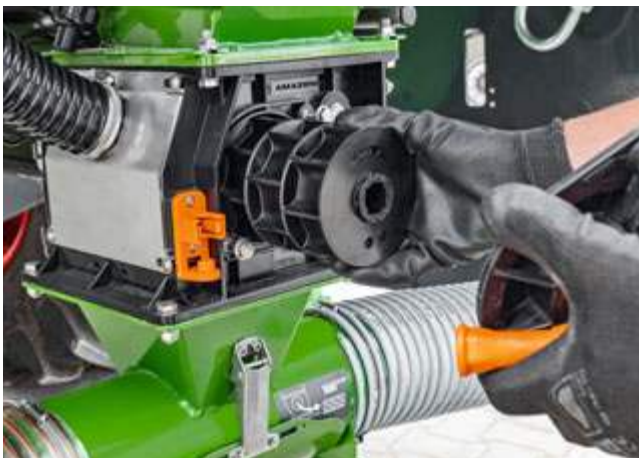
The seed or fertiliser is metered by the electrically-driven metering unit underneath the seed hopper. Since the metering system is located right at the front under the hopper, it is easy to reach and enables quick and easy exchange of the metering cassettes – different metering cassettes are available for various seed types and fertilisers. The electrically driven metering system enables easy adjustment of the seed rate from the tractor cab, pre-metering in field corners and calibration at the touch of a button. Alternatively, the metering can be controlled fully automatically by application maps.

Calibration – simple and precise!

The standard aids, such as the weighing scales and the calibration bag, are securely stored on the front hopper. The calibration process can be easily carried out on the machine via the calibration button or via the TwinTerminal.

The benefits:

- ✔ Easy adjustment of the seed rate from the tractor cab via the electric drive
- ✔ Convenient calibration via the calibration button or TwinTerminal
- ✔ Calibration kit included
- ✔ Simple emptying of residual amounts via the separate outlet and the residue emptying menu
- ✔ Easy exchange of the metering cassettes



Simple exchange of the metering cassettes on the FTender

"In spite of the metering system being sealed in the pressurised hopper, the outlet can be shut off with a slide for changing the metering cassette – a great idea."

("profi" – Driving report "Everything for TwinTeC" · 1/2021)



Calibration by pushbutton



The calibration bag can easily be suspended under the metering unit

AMAZONE offers Comfort-Pack 1 with TwinTerminal 3.0 for the machine, in order to further simplify calibration and residue emptying. The TwinTerminal is mounted directly on the front hopper. This position offers a decisive benefit: The driver can now perform the calibration test and input the data from that calibration check directly down at the implement and no longer has to repeatedly get on and off the tractor.

The benefits:

- ✔ Easy calibration via the TwinTerminal without having to repeatedly get on and off the tractor.



TwinTerminal 3.0

Another combination option for the FTender



FTender 1600 mounted front hopper with Cenius-2TX trailed cultivator

Sowing takes place here

Rear unit comprising of PTO-driven soil tillage tool and seed rail





Segmented distributor head with activated half-side shut-off



Electric half-side shut-off on the metering unit of the FTender

Mechanical half-side shut-off

Implements with working widths from 3 m to 4.5 m are equipped with a segmented distributor head directly above the coulters. The optional mechanical half-side shut-off of the segmented distributor head enables easy implementation of asymmetrical tramline rhythms, for example by shutting off one side during the first pass, with a sowing width of 3 m and a simultaneous tramline width of 24 m.

The benefits:

- ✔ Short conveying distances for the seed
- ✔ Reduction in overlapping saves seed
- ✔ Minimising dust creation inside the seed hopper because no seed is returned

Electric or mechanical half-side shut-off on the FTender

The electric half-side shut-off for the Avant 5002-2 and 6002-2 can be carried out remotely from the tractor cab or, mechanically, directly on the FTender mounted front hopper. The feed into one of the two segmented distributor heads can be prevented via a flap directly below the metering unit, so that half-side shut-off can be implemented.

The electric half-side shut-off helps to reduce excess sowing on the headland or at the edge of the field and to save seed. Half-side shut-off enables the machine to be comfortably switched off via the terminal in wedge shaped fields or steeply angled headlands. Additionally, via GPS, automated switching of half the working width is possible.



Variable tramline control

All Avant implements can be equipped with a tramline control system. This means that up to six seed rows per track, or up to 12 seed rows per complete tramline, can be switched off. The corresponding wider tramlines are ideal when using crop care tractors with tyre widths up to 1,050 mm on 15 cm row spacing or 875 mm on 12.5 cm row spacing. The seed rate is automatically reduced when the tramlines are shut off.

The universal single disc coulters

RoTeC coulters

**RoTeC coulters:
tried and tested
2,000,000 times over!**

The maintenance-free RoTeC single disc coulters



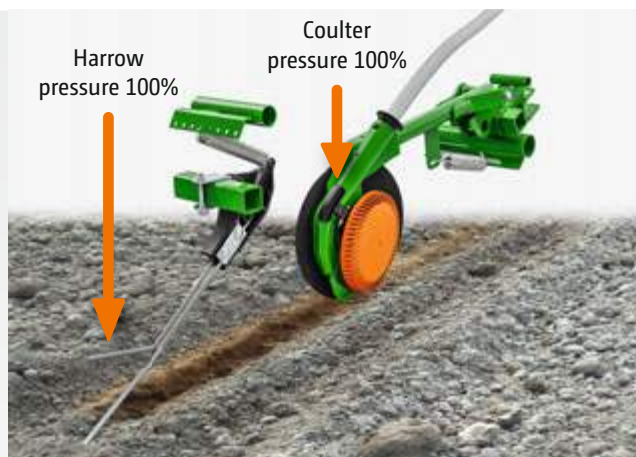
Goes right to the limit of practical operation and placement

RoTeC coulters are maintenance-free and work very reliably, even where large amounts of straw and plant residues prevail. The combination of the sowing disc and furrow former creates the ideal seed furrow profile to ensure the optimum seed placement into the soil. The Control 10 depth guidance disc, or the Control 25 depth guidance roller, prevent the soil from sticking to the sowing disc, thereby ensuring that the pre-selected sowing depth is precisely maintained.

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

Advantages of the RoTeC coulters

- ✔ High-performance single disc coulters for wet and sticky soil types
- ✔ High level of self-cleaning via the depth guidance roller
- ✔ Decoupling of the coulters depth control from the reconsolidation
- ✔ Coulters pressure of up to 35 kg



Ingenious independent depth control of the coulters and the following harrow

One of the unbeatable advantages of the RoTeC coulters is that there is no connection between depth control and the reconsolidation system. This means that the coulters are raised only once when going over a stone. Furthermore, the coulters pressure and harrow pressure can be adjusted independently of one another. This very even and accurately controlled way of guiding the RoTeC coulters is provided by the Control 10 depth guidance disc with a 10 mm wide contact area or the Control 25 depth guidance roller with a 25 mm wide contact area mounted directly beside the coulters.

The basic setting of the sowing depth is in 3 steps and is done directly on the coulters without tools.

Coulters pressure adjustment

RoTeC coulters operate with 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 split between the coulters and the following press roller, but acts solely on the coulters – the harrow pressure is adjusted and applied separately. Working with less coulters pressure is possible without any problem when sowing rape or when early sowing in dry conditions.

Precise, simple adjustment of the sowing depth in 3 steps



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



✔ RoTeC coulters (Ø 320 mm) with Control 25 depth guidance roller

The cleats, which are open at the rear, provide a very good self-cleaning effect.



The high-output double disc coulters

Avant seed rail with TwinTeC coulters

Inside view of the maintenance-free TwinTeC double disc coulters



Clean and precise seed placement

Advantages of the double disc coulters:

- ✔ Highly precise seed placement thanks to the extremely smooth and clean running of the double disc coulters
- ✔ Consistent sowing depth thanks to the high constant coulters pressure of up to 60 kg
- ✔ Optimum contour following due to the coulters guidance via a parallelogram
- ✔ Simple central seed depth adjustment
- ✔ Effective sowing even under difficult conditions thanks to a high through passage and low angle of attack of the discs



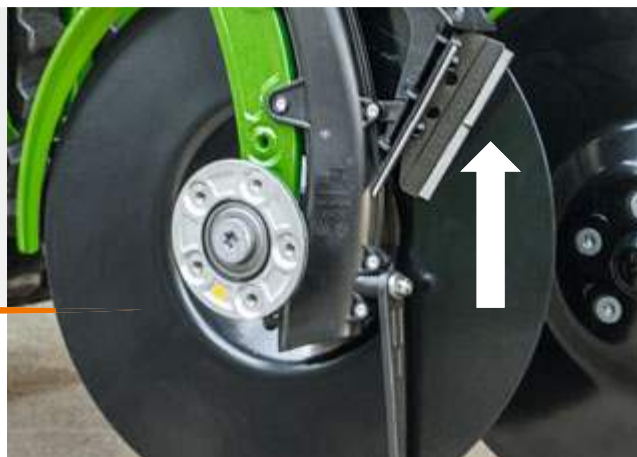
Central adjustment of the sowing depth via the universal setting tool

Simple and central adjustment of the depth control

The sowing depth of the TwinTeC double disc coulters can be centrally adjusted on the coulters frame. A depth guidance roller behind each TwinTeC coulters provides precise depth guidance, thereby ensuring that the placement depth of each individual TwinTeC coulters is maintained. Thanks to the large coulters clearance of 195 mm and the linkage to the depth guidance roller via the top guided roller carrier, sufficient space remains, meaning that blockage-free operation is possible. Due to the narrow angle of attack of the sowing discs of 10°, excellent material passage is ensured even at high speed and with large amounts of harvest residues. There is a choice of two different depth guidance rollers. The Control 50 mm depth guidance roller has a high through passage and is ideal for heavy, hard soils. On the other hand, the Control 65 mm depth guidance roller offers a higher carrying capacity, which is ideal for lighter soil types.

Exchanging the seed rail for single-seed sowing

The Avant seed rail for sowing cereals can be easily dismantled. Instead, a PreTeC seed rail with 6 sowing units can be attached to the KE 4502-2-300 Rotamix, and a PreTeC seed rail with 8 sowing units can be attached to the KG 6002-2. This makes it easy to switch between sowing cereals and single seed sowing.



Inner scrapers are fitted to the double disc coulters to ensure a smooth coulters travel

Coulters harrow on the TwinTeC coulters

Each TwinTeC coulters can be optionally equipped with a directly mounted harrow. The coulters harrow provides additional loose soil on top of the seed furrow.

The benefits:

- ✔ Depth guidance with sprung harrow carrier
- ✔ Adjustable in 7 steps down to a length of 150 mm
- ✔ Adjustable intensity in 3 stages: 30 degrees, 45 degrees or 60 degrees

Coulters pressure adjustment

Since all the coulters are suspended in a parallel guided frame, central and stepless adjustment of the coulters pressure is possible. It is possible, for instance, in the area behind the tractor wheels, to increase the coulters pressure by another 6 kg using additional tension springs.

Hydraulic coulters pressure adjustment with coulters lift of up to 145 mm

The hydraulic coulters pressure adjustment enables the coulters pressure to be comfortably adjusted from the tractor cab. The coulters can also be lifted by up to 145 mm. The coulters lift is an extremely useful option for working in field corners.



Seedbed preparation in a single pass

KX Cultimix and KG Cultimix rotary cultivators



Robust and precise

The Avant seed drill combination is based on the choice of PTO-driven soil tillage implements, namely the KE Rotamix, KX Cultimix and KG Cultimix, as well as the CombiDisc mounted compact disc harrows. Together with a rear roller from the wide range of packers available, the perfect seedbed can be created for any location.

KX 3001 Cultimix

- ✔ for tractors up to 140 kW/190 hp

KG 3001 Cultimix Special

- ✔ for tractors up to 161 kW/220 hp

KG 3001 Cultimix Super

- ✔ for tractors up to 220 kW/300 hp

KG 4002-2 Cultimix

- ✔ for tractors up to 265 kW/360 hp

KG 4001 Cultimix Special

- ✔ for tractors up to 161 kW/220 hp

KG 4001 Cultimix Super

- ✔ for tractors up to 220 kW/300 hp

KG 5002-2 Cultimix

- ✔ for tractors up to 265 kW/360 hp

KG 6002-2 Cultimix

- ✔ for tractors up to 265 kW/360 hp



Various tines are available for the KX and KG:

- ✔ Trailing tines
- ✔ Trailing, “HD pro” tines
- ✔ “On-grip Super” tines
- ✔ “On-grip Special HD” tines
- ✔ “On-grip Super HD pro” tines



KG 4001 Cultimix in a working width of 4 m and optional tractor wheel mark eradicators without a seed rail for solo operation

Quick-System

Quick-change tine 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. There are no tine fixing bolts that require retightening. Converting the tines from "on-grip" to trailing is also quick and easy. The tines are forged from special hardened steel and are yet elastic and extremely 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 through the centre of the tine carrier. This socket becomes wider towards the outside, so that the horizontal part of the tine can twist out of position. Much of the shock is thus absorbed when the tip of the tine hits a stone. This tine fixing system ensures reliable operation in stony soils enabling the tines to be used "on-grip" on the KX Cultimix and the KG Cultimix.

Advantages of the rotary cultivator:

- ✔ Tines "on-grip" ensure a constant working depth, even on heavy ground
- ✔ De-mixing effect of the tines ensures optimum germination conditions for the seed
- ✔ Spacious clearance between the tines and above the tine carriers – ideal for extreme amounts of straw
- ✔ With the Long-Life-Drive system for extreme loads and a long service life
- ✔ With Quick+Safe-System – the proven quick tine change system and integrated stone release
- ✔ Robust design as the tine carrier and the shaft are forged from one piece
- ✔ Comfortable adjustment via the universal setting tool
- ✔ Easy adjustment of the levelling board. No readjustment required when changing the working depth of the soil tillage system

Fast and safe folding

Short changeover times between each field increase profitability.

Moving from one field to the next is quick and easy: Fold in hydraulically, drive to the next field, fold out and start work! The machine is folded out from a transport width of 3 m to a working width of, for instance, 6 m within a few seconds.



Seedbed preparation in a single pass

CombiDisc mounted compact disc harrow or KE Rotamix rotary harrow



CombiDisc system – the disc harrow

The discs of the CombiDisc compact disc harrow, with a diameter of 410 mm, intensively incorporate organic matter at working depths of 3 to 8 cm.

Thanks to the small disc diameter, a high peripheral disc speed is achieved, ensuring a very good crumbling effect. Especially on light to medium soils, the CombiDisc, in combination with a rear roller from the extensive packer range ensures the optimum seedbed.



CD 3000

✔ for tractors up to
205 kW/280 hp



KE 3002-240 Rotamix

The KE Rotamix system – the compact rotary harrow with 4 tool carriers per metre of working width

The KE Rotamix rotary harrow, available in working widths from 3 to 6 m, features a more compact design of the rotary harrow trough with 4 tool carriers per metre of working width.

The trailing tines produce an excellent crumb structure and level the soil surface perfectly.

The KE Rotamix rotary harrows are particularly suited to seedbed preparation on heavy soils and after the plough.

KE 3002-150 Rotamix

✔ for tractors up to 110 kW/150 hp

KE 3002-190 Rotamix

✔ for tractors up to 140 kW/190 hp

KE 3002-240 Rotamix

✔ for tractors up to 176 kW/240 hp

KE 4002-190 Rotamix

✔ for tractors up to 140 kW/190 hp

KE 4002-240 Rotamix

✔ for tractors up to 176 kW/240 hp

KE 4002-2-300 Rotamix

✔ for tractors up to 220 kW/300 hp

KE 4502-2-300 Rotamix

✔ for tractors up to 220 kW/300 hp

KE 5002-2-300 Rotamix

✔ for tractors up to 220 kW/300 hp

KE 6002-2-300 Rotamix

✔ for tractors up to 220 kW/300 hp

KE 6002-2-400 Rotamix

✔ for tractors up to 294 kW/400 hp

Demountable Avant seed rail

The rotary cultivator or rotary harrow and the Avant seed rail can be very easily separated to allow the soil tillage tool to be flexibly used elsewhere. All the rigid executions of the KE Rotamix, KX/KG Cultimix, and CombiDisc models in working widths of up to 4 m can be converted for solo use in just a few minutes thanks to QuickLink. The folding models, in working widths of 4 m or more, can be dismantled manually in around 30 minutes.

Advantages of the KE Rotamix rotary harrow

- ✔ Good crumbling thanks to 4 tine carriers per metre of working width
- ✔ Compact construction due to reduced tine carrier diameter
- ✔ Robust design as the tine carrier and shaft are forged from one piece
- ✔ Optional hydraulic working depth adjustment from the tractor cab
- ✔ Direct power transmission and long service life thanks to its DirectDrive gearbox
- ✔ Comfortable adjustment via the universal setting tool

- ❗ More detailed information can be found in the separate product brochure available from your sales partner

Not too much and not too little – localised reconsolidation

Roller range

To complete the seedbed, the loose soil is reconsolidated. This ensures better soil contact for the placed seed and smoother running of the coulters. The result is even greater precision.

With a large diameter of 500 to 600 mm, AMAZONE packers run much more smoothly and with less ground pressure than smaller rollers. Enclosed rollers, such as the wedge ring or and wedge ring with Matrix tyre profile are used on loose and light soil, as these provide better support than open rollers.



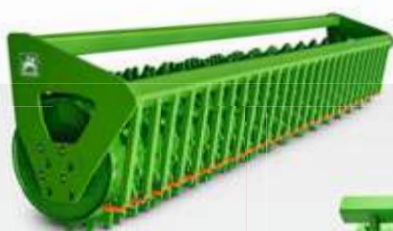
Structure of a wedge ring roller

1. Air cushion
2. Metal insert in the rubber to increase rigidity
3. Spacer ring with dirt-repellent surface

PW tooth packer roller 500 mm / 600 mm Ø

The PW tooth packer roller has a good self-driving effect and, with its leading teeth, offers a good reconsolidation across the entire surface. The tooth packer roller is extremely versatile due to these features.

- ✔ Reconsolidation across the entire soil surface
- ✔ Runs blockage-free on sticky soils and where there is a lot of straw
- ✔ As standard with hard-metal coated, wear resistant scrapers
- ✔ Low scraper position ensures a smooth soil surface even in wet soil conditions

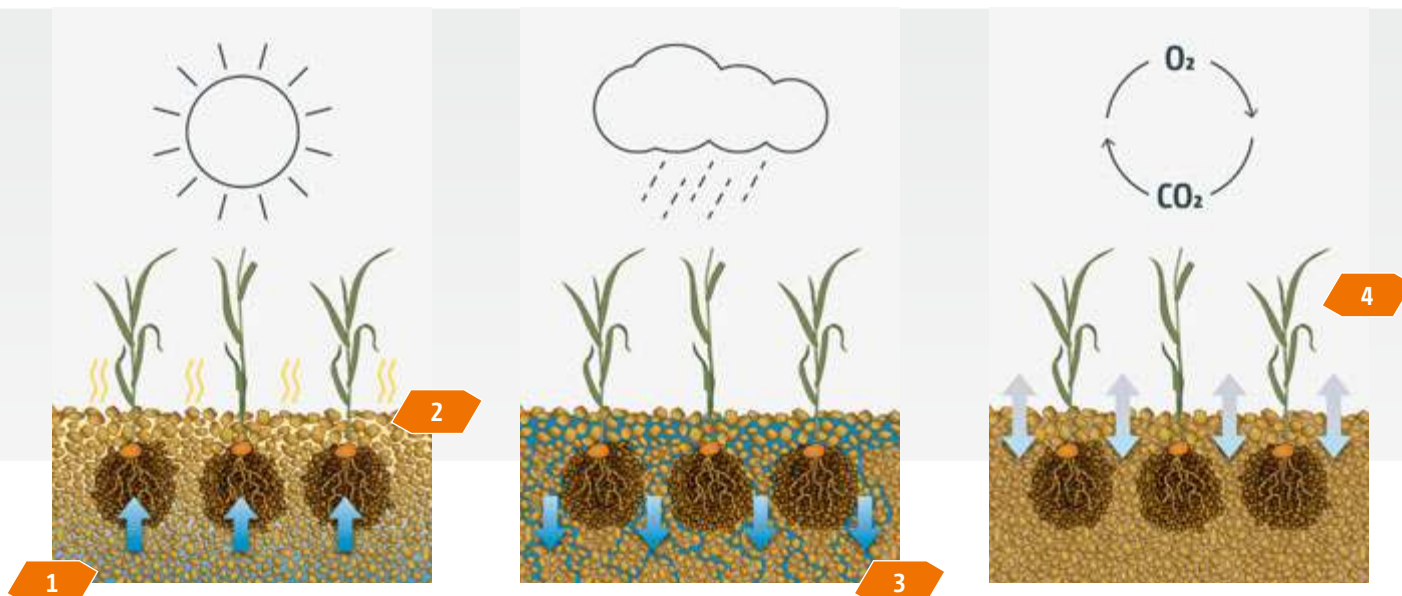


TRW trapezium ring roller 500 mm / 600 mm Ø

With its trapezium shaped rings, the TRW trapezium ring roller offers strip-wise reconsolidation. Due to its good carrying ability, the trapezium rings are prevented from sinking in too deep on light soils.

- ✔ Good carrying ability
- ✔ Produces a lot of fine soil
- ✔ As standard with hard-metal coated, wear resistant scrapers





Water always where it should be

Reconsolidating in strips just in the actual seeding zone allows the seed to be connected to the ground water found deeper without bringing the full capillary effect up to the soil surface. This ensures that the seedling is supplied with water (1) without any evaporation on the surface (2). The soil is not dried out unnecessarily. This ensures good germination, even under dry conditions.

In wet conditions, however, the unconsolidated strips between the seed rows allow water to infiltrate down deeper (3). This enables an adequate gaseous exchange (4) – vital oxygen can reach the young roots, even as they grow deeper into the soil. The best conditions for good germination and successful seedling development of the crops.

KW wedge ring roller 580 mm Ø

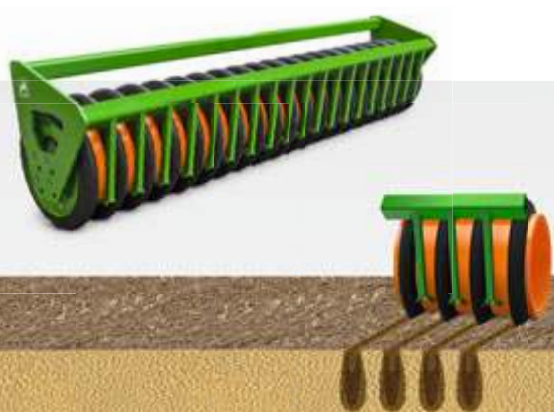
The KW wedge ring roller has a wide range of applications. Its design ensures reconsolidation in strips in almost all soils under any conditions. There is no chance of sticking, capping or blocking up.

- ✔ Universal use in all soils and conditions
- ✔ Reconsolidation in strips
- ✔ Sufficient loose soil is available for optimum seed coverage, even on heavy ground
- ✔ Smooth coulter travel due to the pre-formed seed furrow

KWM wedge ring roller with Matrix tyre profile 600 mm Ø

The KWM wedge ring roller provides an extremely good self-driving effect from its Matrix profile. The roller produces more fine soil for the seedbed due to the Matrix profile.

- ✔ Reconsolidation in strips
- ✔ Improved crumbling even under tough conditions
- ✔ Smooth coulter travel due to the pre-formed seed furrow
- ✔ Ideal for any weather, wet or dry



Adjusted in just a few simple steps

Manual operation



1

Quick and easy adjustment for precise working

The Avant can be quickly and easily adjusted using the universal operating tool for any conditions in the field thanks to its clear and handy mechanics.

Various settings on the Avant can be adjusted manually or hydraulically on the implement, such as:

1. Harrow pressure
2. Working depth of the rotary cultivator or rotary harrow, with optional hydraulic adjustment
3. Height of the levelling board on the rotary cultivator or rotary harrow
4. Calibration of the metering unit via the TwinTerminal 3.0

Additional settings on the Avant are carried out electronically via the ISOBUS control terminal, such as folding the rear seed rail or adjusting the seed rate.



2



3



4

Maximising the full potential of the machine

Electronic solutions from AMAZONE

An important issue for the future of agriculture is the focus on soil protection and saving water when sowing.

The electronic solutions developed by AMAZONE in its own specialist department with a high degree of practical relevance are the key to how the Avant and other AMAZONE implements realise their full potential in the overall context of arable farming and crop production, from sowing and fertilisation to plant protection.

Thanks to the in-house development, the machine software offers maximum functionality and, at the same time, simple and user-friendly operation. This is the basis for the high level of performance of the Avant in the field – especially when used in conjunction with the AmaTron 4 ISOBUS operator terminal from AMAZONE.

MORE
than ISOBUS



Clearly structured machine operation with the AmaTron 4

The AmaTron 4 operator terminal from AMAZONE offers a range of functions **over and above the ISOBUS standard**:

- ✔ Highest compatibility and function flexibility with your ISOBUS equipment.
- ✔ No additional modules necessary on the machine side. All ISOBUS machinery from AMAZONE comes ready equipped with the necessary ISOBUS functions as standard.
- ✔ Practice-oriented machine software and logical menu structure.
- ✔ MiniView display with all AMAZONE terminals and additional ISOBUS terminals. See, for instance, the machine data in the map view.
- ✔ Possibility of operating the machine from the tractor terminal or a twin terminal solution.
- ✔ Unique operating concept
- ✔ Freely-configurable displays and individual user interfaces for each driver.



AmaTron 4 ISOBUS terminal

Full functionality



The AmaTron 4 ISOBUS operator terminal, developed in-house by AMAZONE, enables convenient tablet-style, touch-screen control of any ISOBUS-enabled agricultural machine. AmaTron 4 makes all ISOBUS functionality possible – with added convenience, user-friendliness and overviews. And yet: it performs even better in combination with AMAZONE agricultural machinery and guarantees full functionality when it comes to precision farming.



ROBUSTNESS

STURDY!

- ✔ Low-reflection, 8" display with waterproof and dustproof aluminium housing
- ✔ Rear-mounted hand rest for a secure grip



RELIABILITY

WELL THOUGHT THROUGH!

- ✔ Practical and clear menu navigation for simple and intuitive use
- ✔ Actuation via touch screen or soft keys
- ✔ Simple documentation and job management: work first – then save the data
- ✔ Optional software licences for maximising every opportunity in precision agriculture



COMFORT

COMFORT!

- ✔ App carousel for quick and easy navigation at the swipe of a finger
- ✔ Freely configurable status bar – the most important parameters available at a glance, all of the time
- ✔ The practical quick-start menu allows quick and easy import and export of job data

Extended functionality via licences	Functions of AmaTron 4 for the Avant
GPS-Maps&Doc	<ul style="list-style-type: none"> • Inactive field boundaries and automatic field detection • Documentation via ISOBUS Task Controller or PDF export • Application maps in ISO-XML format and Shape file format • Online data exchange via the AmaTron Share App
GPS-Switch basic	<ul style="list-style-type: none"> • Section Control with up to 16 part-width sections • Virtual headland • Enables an earlier shut off on the headland • Automatic control of the part-width sections
GPS-Switch pro	<ul style="list-style-type: none"> • Auto-zoom, obstacle marking
GPS-Track	<ul style="list-style-type: none"> • Optical parallel guidance aid • Various different track modes • ISOBUS Level 1 tramline control
AmaCam	<ul style="list-style-type: none"> • Display of a camera image on the AmaTron 4 including reverse detection
AmaTron Twin	<ul style="list-style-type: none"> • Display extension using the AmaTron Twin App

More comfortable machine operation

AmaTron Twin App – extended display for user-friendly operation

The AmaTron Twin App offers the driver even more comfort during work, as GPS functions in the map view can also be displayed on a tablet in parallel with the machine operation on the AmaTron 4.

Advantages of the AmaTron Twin display enhancement:

- ✔ Use of an existing mobile device
- ✔ Greater clarity – every application always in view
- ✔ Comfortable control of the GPS functions in the map view, in parallel, via the mobile device
- ✔ Clear, authentic representation of the working machine and its part-width sections



The AmaTron Twin App

AmaTron Share App for digital data transfer. Try it now!

The AmaTron Share App, which is connected to the AmaTron 4 via Wi-Fi, allows all data to be conveniently transferred online. For example, the App enables application maps to be easily sent from the office to the AmaTron 4 for completion. Job data can also be sent to customers or back to the office as PDF documentation via the cloud, email or messenger services such as WhatsApp after the job has been completed. This is user-friendly data management!



The AmaTron Share App







Avant 3002 and 4002



Benefits of the rigid-framed Avant

- ✔ Maximum manoeuvrability and visibility of the front and rear units
- ✔ Low machine weight, evenly distributed across the tractor's axles for optimum soil protection
- ✔ Seedbed preparation and sowing with strip-wise reconsolidation in a single pass, optionally with fertiliser application in the seed furrow
- ✔ Solo use of the PTO-driven soil tillage machine is easily possible thanks to tool-free demounting using the QuickLink quick coupling system



3 to 4 m



12.5 or 15 cm



1,600 or 2,200 l



Up to 10 km/h



Avant 4002



Large-capacity front tank, which can be supplied with two sections



The short seed pipes keep conveying distances to a minimum

Avant 4002-2, 4502-2, 5002-2 and 6002-2



Benefits of the folding-frame Avants

- ✔ Quick field changes by folding the rear unit to a transport width of 3 m in just a few seconds
- ✔ Good weight distribution across both tractor axles
- ✔ Maximum efficiency with seedbed preparation and sowing with strip-wise reconsolidation in a single pass, optionally with fertiliser application into the seed furrow
- ✔ Solo use of the PTO-driven soil tillage tool made possible by the easy manual dismantling



4 to 6 m



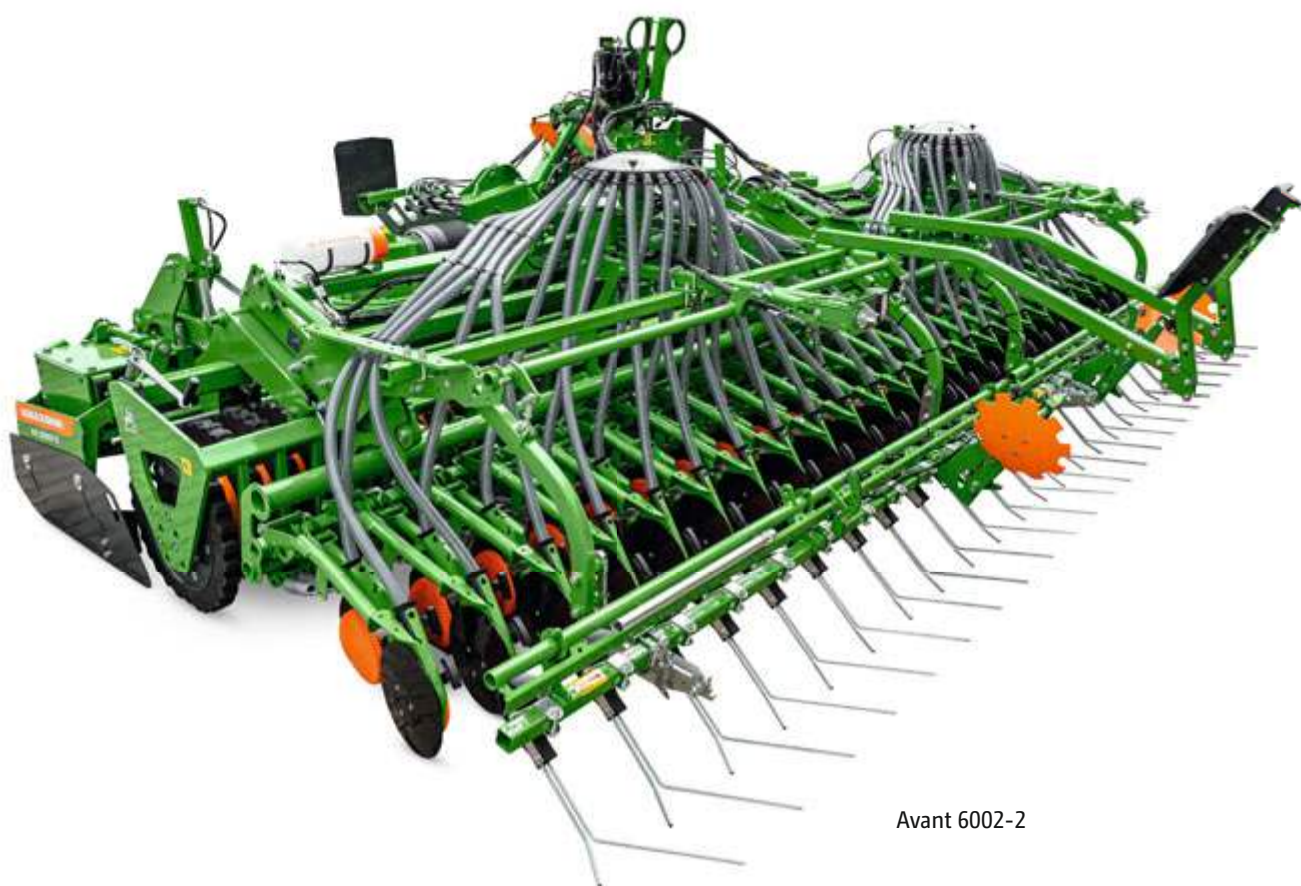
12.5 or 15 cm



1,600 or 2,200 l



Up to 10 km/h



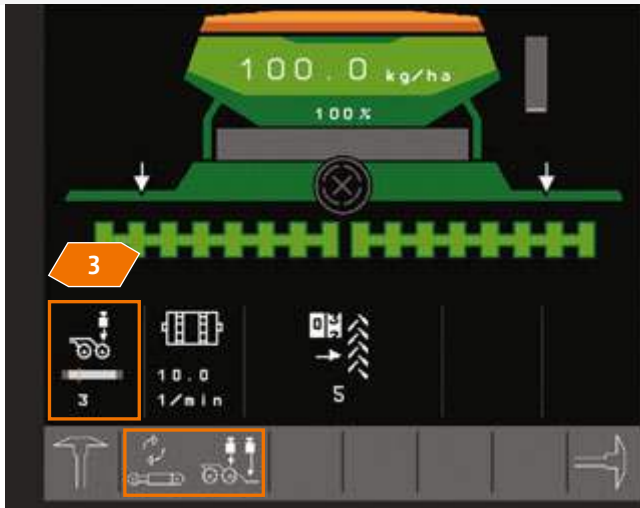
Avant 6002-2



The seed rail on the folding models, in working widths of 4 m to 6 m, can be easily dismantled manually and stowed safely using parking jacks. This means that the soil tillage tool can also be used on its own.

More options, more performance

Useful equipment for the Avant seed drill combination



1 2

1. Button for activating the desired function
2. Currently selected hydraulic function (coulters pressure in this case)
3. Button for selecting the right function (coulters pressure in this case)

Comfort hydraulics – everything under control!

The special comfort hydraulic system for the Avant enables the hydraulic functions of coulters pressure, coulters lift and machine folding to be controlled via the ISOBUS terminal. Technically, just one tractor spool valve is required. It is then possible to switch between these functions in the operator terminal.

The advantages of Comfort hydraulics

- ✔ Optimum adaption of the coulters pressure to the field conditions
- ✔ Easy reading of the coulters pressure
- ✔ Limiting the upper and lower limit of the coulters pressure





LED work lights

The LED work lights provide ideal visibility until late into the night, even on long working days. The LED work lights are available for both the FTender and for the sowing combination.

Middle ridge eradicator

A middle ridge eradicator, which effectively levels even the smallest ridges, is available for the Avant 6002-2 as an option. The middle ridge eradicator is not available in combination with the transport chassis.

DLG-certified camera for the FTender 1600

The optional camera system on the FTender front tank provides additional safety at the front in cross-traffic when faced with driving situations with restricted visibility.

The certification of the system for the FTender 1600 by the DLG (German Agricultural Society) allows farmers to dispense with an escort, even if the front tank projects far forwards.

The high-resolution, anti-glare monitor is backlit and shows the left and right camera images simultaneously.

A reversing camera can also be linked to the monitor.

This means that the Avant with FTender 1600 can be used very flexibly and economically with just a single driver.*

The camera system without DLG certification still requires an escort.

Transport chassis

AMAZONE offers an additional transport chassis for transporting the Avant 6002-2 on the road. The load is taken off the tractor when driving on the road and the travel comfort becomes better for the driver.

Advantages of the transport chassis:

- ✔ Higher comfort on the road
- ✔ Reduced rear axle load
- ✔ Extension of the permissible tractor options when in road mode



*Please observe valid, country-specific legislation!

Optional equipment for complete versatility

Front packer, filling auger, cyclone separator



Avant 6002-2 with FTender 1600



FTender with T-Pack F front tyre packer with optional parking rollers and optional air intake sieve



FTender in road transport – unobstructed view on the road and in the field



❗ "The front packer can also be conveniently locked in the upper position and so the tank lowered another 25 cm for a better view of the road – nice."

("profi" – Driving report "Everything for TwinTeC" · 1/2021)

T-Pack F front tyre packer – reconsolidation between the tractor wheels

AMAZONE also offers the FTender with the T-Pack F front tyre packer as an option. The FTender with a front tyre packer with passive steering shows its strengths as a seed hopper during sowing and ensures good reconsolidation between the tractor wheels.

Advantages of the T-Pack F front tyre packer:

- ✔ Good reconsolidation between the tractor wheels
- ✔ No restrictions in the field of view at the front thanks to the integrated raised transport position
- ✔ Load relieved from the front axle of the tractor during sowing
- ✔ Additional ballasting possible

Optimum field of view

The extremely compact design of the FTender allows comfortable handling of the large mounted front hopper. Even the front tyre packer is integrated in such a way that its transport position does not restrict the field of view.

Cyclone separator

The optionally available active dust separator reduces the dust load in the conveyor system and increases operational reliability, especially in dry operating conditions.

Additional weights

Optional additional weights allow the mounted front hopper to be ballasted with up to 900 kg. Ballasting of up to 300 kg is possible for the FTender with the T-Pack F front tyre packer.



FTender with T-Pack F front tyre packer in the working position



FTender with T-Pack F front tyre packer in the transport position

- ✔ Field of view improved by 25 cm



Optional additional weights

The original is simply better

AMAZONE service and quality



Experience that pays off. That's why AMAZONE guarantees you the highest quality thanks to a very high level of vertical integration within its own factories in Europe – and it has been doing so for more than 140 years. The original is simply better.

In most cases, things need to happen very quickly, especially when time is tight for optimum sowing. That is why AMAZONE offers a first-class parts service with genuine parts that are precisely matched to your machine. So your machine is always ready for use – quality parts and available worldwide.



The Global Parts Center in Tecklenburg-Leeden in Germany is the base for our worldwide parts logistics system. This ensures the optimum availability of parts, even for older machines. Whenever you need us, the AMAZONE service team is there for you, supported by a network of competent and highly trained sales partners and service technicians.

AMAZONE also offers an intensive introduction to the operation and handling of your new machine on your farm by a trained member of the AMAZONE team. Alternatively, you can use "SmartLearning" – AMAZONE's interactive driver training – to familiarise yourself with the machine's operation before using it for the first time.

Precise sowing from the very first metre.

The advantages of original spare parts and wearing metal

- ✔ Quality, reliability and performance
- ✔ Immediate availability, even for older machines
- ✔ Higher resale value of your used machine



myAMAZONE

for more performance



Register now

www.amazone.net/myamazone



WARRANTY

» Register now and apply for a 24 month manufacturer guarantee!

- ✔ Extend the protection offered for your machine with a 24 month manufacturer guarantee.
- » The extended guarantee can be applied for within the contractual warranty period of 12 months after initial installation.

NEW



PARTS

» Parts – find the right parts for your machine even more easily now!

- ✔ The right parts list for your machine with just one click.
- ✔ Identify the correct part from the exploded views in a trice.
- ✔ Create a shopping basket and send it to your service partner.



ADJUSTMENT AND OPERATION

» Now enter the machine number and see at a glance all the relevant information to help get the maximum performance from your implement

- ✔ Season start and commissioning
- ✔ Adjustment and operation
- ✔ Parts lists and operating instructions
- ✔ Maintenance and storage

Technical data:

KX Cultimix and KG Cultimix rotary cultivators

Model	Working width (m)	Transport width (m)	Power requirement from (kW/hp)	For tractor output up to (kW/hp)	Number of tine carriers	Basic weight without roller from (kg)	Basic weight with roller KW 580 from (kg)
KX 3001	3.00	3.00	66/90	142/190	10	1,350	1,969
KG 3001 Special	3.00	3.00	66/90	161/220	10	1,350	1,959
KG 3501 Special	3.50	3.50	77/105	161/220	12	1,450	2,029
KG 4001 Special	4.00	4.03	88/120	161/220	14	1,580	2,199
KG 3001 Super	3.00	3.00	66/90	220/300	10	1,360	1,979
KG 3501 Super	3.50	3.50	77/105	220/300	12	1,480	2,059
KG 4001 Super	4.00	4.12	88/120	220/300	14	1,610	2,229
KG 4002-2	4.00	3.00	88/120	265/360	14	2,840	3,610
KG 5002-2	5.00	3.00	110/150	265/360	16	3,120	4,070
KG 6002-2	6.00	3.00	132/180	265/360	20	3,350	4,390

KE 02 Rotamix / KE 02-2 Rotamix rotary harrow

Model	Working width (m)	Transport width (m)	Power requirement from (kW/hp)	For tractor output up to (kW/hp)	Number of tine carriers	Basic weight without roller from (kg)	Basic weight with roller KW 580 from (kg)
KE 3002-150	3.00	3.00	55/75	110/150	12	1,040	1,530
KE 3002-190	3.00	3.00	59/80	140/190	12	1,060	1,550
KE 4002-190	4.00	4.00	66/90	140/190	16	1,260	1,930
KE 3002-240	3.00	3.00	66/90	176/240	12	1,060	1,550
KE 4002-240	4.00	4.00	66/90	176/240	16	1,300	1,950
KE 4002-2-300	4.00	3.00	88/120	220/300	16	2,401	3,105
KE 4502-2-300	4.50	3.00	110/150	220/300	18	2,541	3,372
KE 5000-2-300	5.00	3.00	132/180	220/300	20	2,624	3,474
KE 6002-2-300	6.00	3.00	147/200	220/300	24	2,860	3,822
KE 6002-2-400	6.00	3.00	147/200	294/400	24	2,860	3,822

CombiDisc

Model	Working width (m)	Transport width (m)	Power requirement from (kW/hp)	For tractor output up to (kW/hp)	Number of tine carriers	Basic weight without roller from (kg)	Basic weight with roller KW 580 from (kg)
CD 3000	3.00	3.00	59/80	205/280	24	880	1,425



Avant seed drill combination

Rear-mounted combination	Avant 3002	Avant 4002	Avant 4002-2	Avant 4502-2	Avant 5002-2	Avant 6002-2
Execution	rigid		folding			
Working width (m)	3.00	4.00	4.00	4.50	5.00	6.00
Number of distribution heads	1		1	1	2	2
No. of spool valves required with pre-emergence markers	1 double-acting for coulter pressure/lift + 1 double-acting for track markers		1 double-acting for coulter pressure/lift + 1 double-acting for track markers + 1 double-acting for hydraulic top link			
Weight with RoTeC coulters and KE rotary harrow with KW 580 from (kg)	2,351	2,953	4,185	4,565	4,860	5,247
Weight with TwinTeC coulters and KG Super rotary cultivator with KW 580 from (kg)	2,612	3,272	4,577	–	5,381	5,762

FTender mounted front hopper

Model	FTender 1600	FTender 1600 with front tyre packer	FTender 2200	FTender 2200 with front tyre packer	FTender 2200-C
Hopper capacity (l)	1,600		2,200		
No. of metering units	1				2
No. of spool valves required	1 single-acting (front) with pressure-free return				
Oil flow from (l/min)	28				
Tractor mounting	3-point linkage mounted Cat. 3/4N				
Permissible total weight (kg)	3,421	3,421	4,118	4,118	4,203
Overall width (m)	2.504	2.504	2.504	2.504	
Filling height (m)	1.402	1.581*/1.737	1.582	1.762*/1.917	
Overall length (m)	1.698	2.093	1.698	2.093	
Unladen weight (kg)	526	1,111	661	1,246	783

*Packer in transport/working position

Illustrations, content and technical data are not binding and may differ depending on the level of equipment. Country-specific road traffic regulations apply and must be complied with, meaning that special approval may be required. The permissible axle loads and total weights of the tractor should be checked. Not all the listed combination options are possible with all tractor manufacturers.



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