



AMAZONE

WINNER

**FARM
MACHINE
2024**

powered by
traction & @grarheute

Trailed precision air seeder

Preceda-TCC



**Welcome to the world of high-output
precision seeding:**

The Precea-TCC from AMAZONE





Mastering the current challenges in precision seeding with the Precea from AMAZONE

It is becoming increasingly difficult to operate successfully as a farmer or contractor: climate change, water scarcity, the cost of inputs, a shortage of skilled labour and strict environmental protection requirements – here, up to date agricultural planning, including efficient agricultural machinery, is very important in order to produce affordable food of good quantity and quality despite all the adversities.

Ever tighter time windows for sowing require higher outputs, the optimum operational combinations and the maximum precision in order to place the seed at exactly the right depth and at the ideal time. This ensures uniform and gapless plant emergence - especially in single-seed sowing such as maize, sunflowers, oilseed rape and other crops.

Nevertheless: extreme temperatures and drought can always threaten the crop and reduce potential yields. This can be remedied by making better use of the subsoil by encouraging the young roots to grow deeper through appropriate under-root fertilisation. Precise placement of fertiliser in the correct horizon below or next to the seed also saves on fertiliser usage, increasing and prolonging nutrient availability, as the higher soil moisture content allows better, long-term nutrient mobilisation, especially with phosphate fertilisers. Tight nutrient balances can also be maintained, whilst, at the same time, increasing yield.

The efficient and yield-increasing use of finite resources at the ideal time is the aim of precision seeding on large farms and by contractors. And this is precisely why AMAZONE has developed the Precea-TCC trailed precision air seeder in working widths of 6, 9 and 12 m: Precea 6000, 9000 and 12000-TCC.



The Precea concept:

High output precision to meet every agronomic and economic challenge!

1. The large hopper capacity for seed and fertiliser, combined with the large working width, ensures high work rates and short non-productive times for filling and transport.



2. Telescopic axle for flexible track management allows soil-friendly operation in the field.

3. Folding coulter system for safe road transport and short set-up times.

4. Precise under-root fertilisation with FerTeC twin HD double disc fertiliser coulters for good root and seedling development in the growing crop.

5. PreTeC mulch seed coulters for precise, even sowing with exact singling, intelligent depth control, patented catcher roller with press roller and gentle reconsolidation.

6. Working widths from 6 to 12 m, with row spacings of 45 to 80 cm enable high work rates at speeds of up to 15 km/h for optimum use of operational resources.

Precea-TCC trailed precision air seeder



MORE INFORMATION
www.amazone.net/precea-tcc



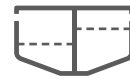
PRODUCT FILM
Precea 12000-TCC trailed precision air seeder



45, 50, 70,
75 or 80 cm



8, 12, 16,
18 or 24 rows



3,000 or 6,000 l fertiliser
8 x 70, 850 or
2,000 l seed



Up to 15 km/h

High work rates with maximum precision

Whether used for conventional or mulch sowing, the Precea-TCC trailed precision air seeder is characterised, in particular, by its very precise placement, high output and comfortable operation. The precision of the singling and fertiliser metering is convincing even at forward speeds of up to 15 km/h. Output is increased even further with the new Central Seed Supply seed delivery system in combination with the large hopper capacity.



PRECISION

Precise!

Exact seed spacing in the row thanks to the excellent over-pressure singling and optimised plant distribution when seeding around a bend, thanks to CurveControl. No overlaps or gaps in wedge-shaped fields thanks to the individual single-row shut-off for seed, fertiliser and micro-granules via the AmaTron 4 ISOBUS operator terminal.



COMFORT

User-friendly!

Simple and self-explanatory operation with the AMAZONE AmaTron 4 ISOBUS terminal.

Extremely easy adjustment of the PreTeC mulch sowing coulter, since all the required settings can be made without any tools.



OUTPUT

High performance!

Good work rates thanks to the large hopper capacity and the Central Seed Supply seed delivery system.

Time-saving filling and residue emptying as a result of the easily-accessible centralised fertiliser and seed hoppers.

Precise singling

The heart of the Precea seeding system

The SmartControl singling system – for precise seed placement

Over-pressure in the singling chamber pushes the grains up against the nap holes in the rotating singling disc so that they are carried round. As they rotate, the grains, held in place under pressure, run past 3 stripper fingers which reliably ensure the stripping and singling of the grains on each hole. Doubles are effectively prevented. The stripper setting is done automatically by SmartControl to help the driver.

The benefits:

- ✓ The stress on the driver is reduced, since the SmartControl constantly handles the adjustment of the 3 seed stripper fingers.
- ✓ An increase in yield, since doubles and misses are avoided.
- ✓ Savings in time, since manual set-up is not necessary.

ElectricDrive – electric drive of the over-pressure singling

ElectricDrive utilises a separate electric motor for each over-pressure singling unit. The seed rate can thus be adjusted very easily using the terminal. An activation button on each sowing unit makes it possible to check each individual singling disc.



SEED SINGLING ANIMATION
Find out more



Seed by seed, precisely placed at the right depth in the soil
- ideal plant emergence when precision sowing with the
Precea from AMAZONE and its precise singling system.



The key feature

Thanks to the ingenious design of the centralised singling unit, the singling disc and the singling chamber are fixed together.

The advantages of this layout are huge:

- ✔ Operation can be carried out exclusively using the tractor's electronic system, due to the fact that only a small amount of torque is required for rotation.
- ✔ The seal, which is otherwise subject to excessive wear, is not under load.

- ❗ "As the chamber rotates in step with the perforated disc, energy-consuming friction on the pressure chamber seal is avoided."

("profi" – Driving report Precea 4500-2CC Super · 10/2019)

The singled grains are fired precisely

As soon as the singled seeds reach the outlet, the contact pressure is broken and the seed is shot past the opto sensor into the propulsion channel and thus into the soil.

Opto sensor with infrared sensor – reliable monitoring "seed by seed"

The pulse of the Precea - the firing of each individual seed - is registered by the infrared sensor in the opto sensor and transmitted as a signal to the AmaTron 4. The signal is then processed for use by, for example, the intelligent SmartControl stripper adjustment.

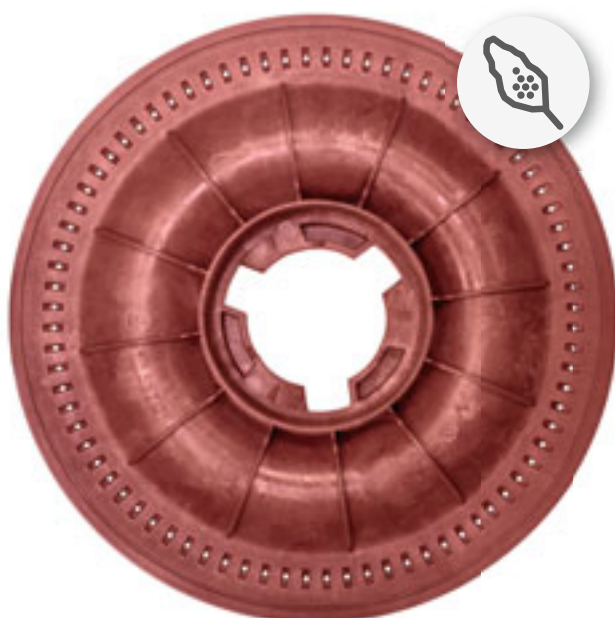


Singling discs – full flexibility across the widest range of crops

One machine – 5 crops. Whether it be maize, sunflowers, oilseed rape, sugar beet or sorghum – the Precea TCC separates seed by seed – precisely and reliably

Increasingly complex crop rotations are finding their way into agriculture. It is often necessary to adapt to suit the soil conditions, actual nutrient consumption or the nutrient release from the previous crop, seed density, weather and climate changes, nutritional trends and market opportunities, even at short notice. The one constant: the precise singling of the Precea across the widest variety of single-seeded crops.

Because: the seed singling system of the Precea-TCC can be changed over to use different singling discs without any tools within a very short time.





Maize



Rape



Sugar beet



Sunflowers



Sorghum



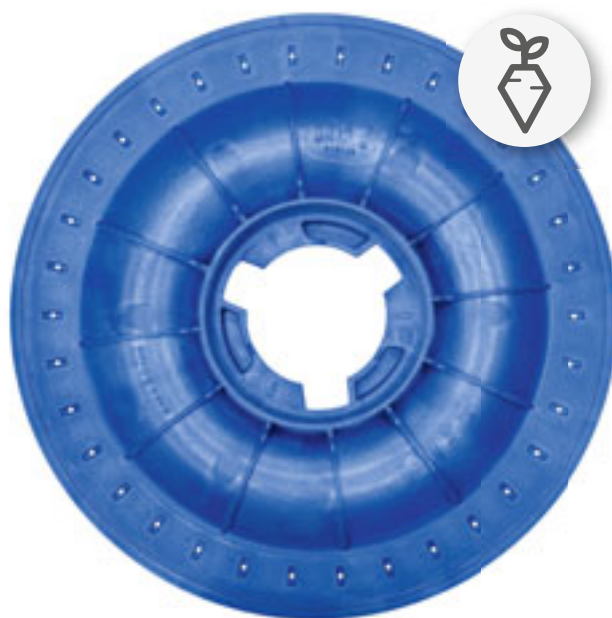
The versatility of the Precea allows different crops to be sown both within the same and different sowing periods. This reduces the unproductive time over the course of the year, thus increasing the efficiency of the Precea and other associated operating resources.

Contractors can react flexibly to customer requirements and offer a wide portfolio of precision seeding – seed by seed, field by field.

The centralised singling discs are customised for different operating conditions or seed characteristics, such as different thousand grain weights and forward speeds.

The benefits:

- ✓ Full flexibility for the widest range of crops.
- ✓ Higher machine utilisation through continuing use in different sowing periods.
- ✓ Simple replacement of the centralised singling discs.



Seed hopper on the sowing unit

for the Precea-TCC in 6 m working width

Flexible working without wasting time – easy filling, quick emptying

In the version with a seed hopper mounted on the sowing unit, each with a hopper capacity of 70 l, the seed is conveniently filled in from a sack since the hopper lids can be opened by just using one hand. A filling aid, that guides the seed safely into the hopper and makes the filling process even easier, is available as an option. The low level sensor, fitted as standard, provides an early warning of the fill level via the terminal.

Additionally, micro-granular applicators (hopper capacity 17 l) can also be specified (see page 19), thus extending the flexibility of the Precea 6000-TCC to smaller operations.

The centralised singling discs are easily replaced and the seed hoppers individually filled and emptied of any seed residues- by hand and in the shortest possible time. The coulter system can also be folded in with the seed hoppers full, allowing you to move on to the next field quickly and easily. An ideal solution for farms with different crops and for contractors having a wide range of customer requirements.

The benefits:

- ✔ Quick change of seed type.
- ✔ Optional additional micro-granular application.



Precea 6000-TCC with seed hoppers mounted on the individual sowing units and central fertiliser hopper



The seed hoppers are easily accessible and facilitate one-handed operation for opening and closing.



Emptying of any seed residues is particularly quick, clean and easy.

Central seed hopper with Central Seed Supply

for the Precea-TCC in working widths of 6, 9 and 12 m



Delivery unit under the central seed hopper



Reception unit above the sowing unit

From big bag to each individual seed

The short sowing periods available must be optimally utilised for uniform plant emergence. This requires a high output solution: maximum performance from the Precea-TCC with central seed hopper - for dozens of hectares and long working hours, ideal for large farms and contractors.

The benefits:

- ✔ Large seed hopper (850 or 2,000 l) reduces filling stops and downtime.
- ✔ Self-regulating seed delivery from the hopper into the singling chamber simplifies operation.



Precea 6000-TCC with central seed hopper and central fertiliser hopper

CENTRAL SEED SUPPLY ANIMATION

Find out more





Illustration of the reception unit with filled seed chamber

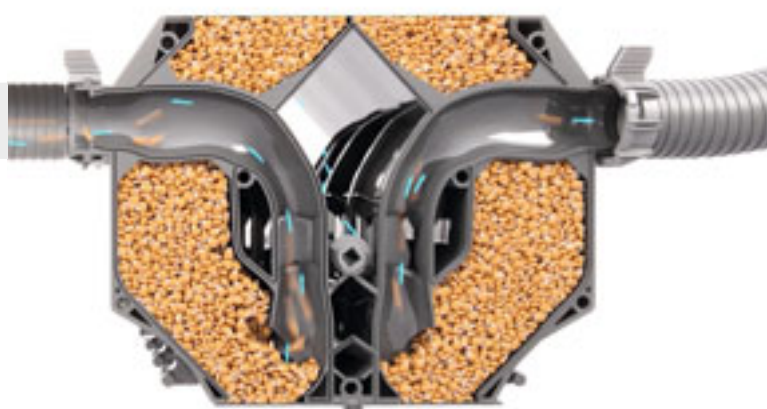


Illustration of delivery unit with seed transported by the air flow

Central Seed Supply – seed is always available when needed

Seed is delivered from the central hopper to the reception units, mounted above each sowing unit, via an air stream. These reception units act as a temporary store for the seed. The control system is self-regulating: If the hopper is full enough so that the green grid on the inside is completely covered with seed, this restricts the air flow - no more seed is transported from the central hopper to the sowing units. As the seed is taken down into the singling chamber, the reservoir empties and the air flow is reactivated. The Central Seed Supply System thus ensures that the sowing unit supplies itself with seed without the need for electronic control.

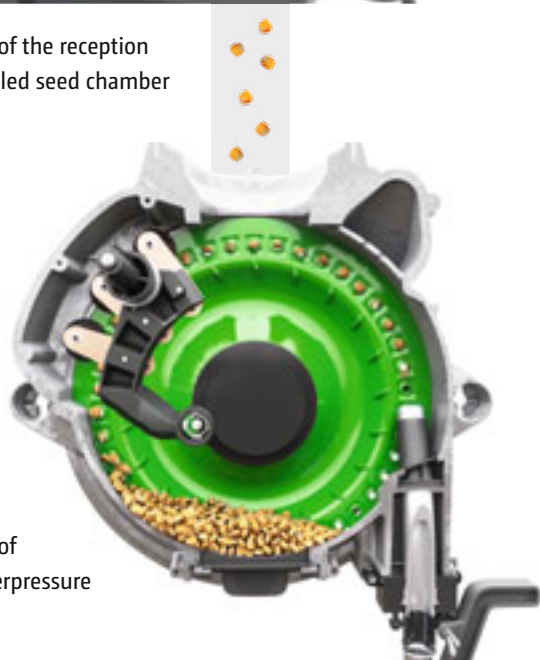
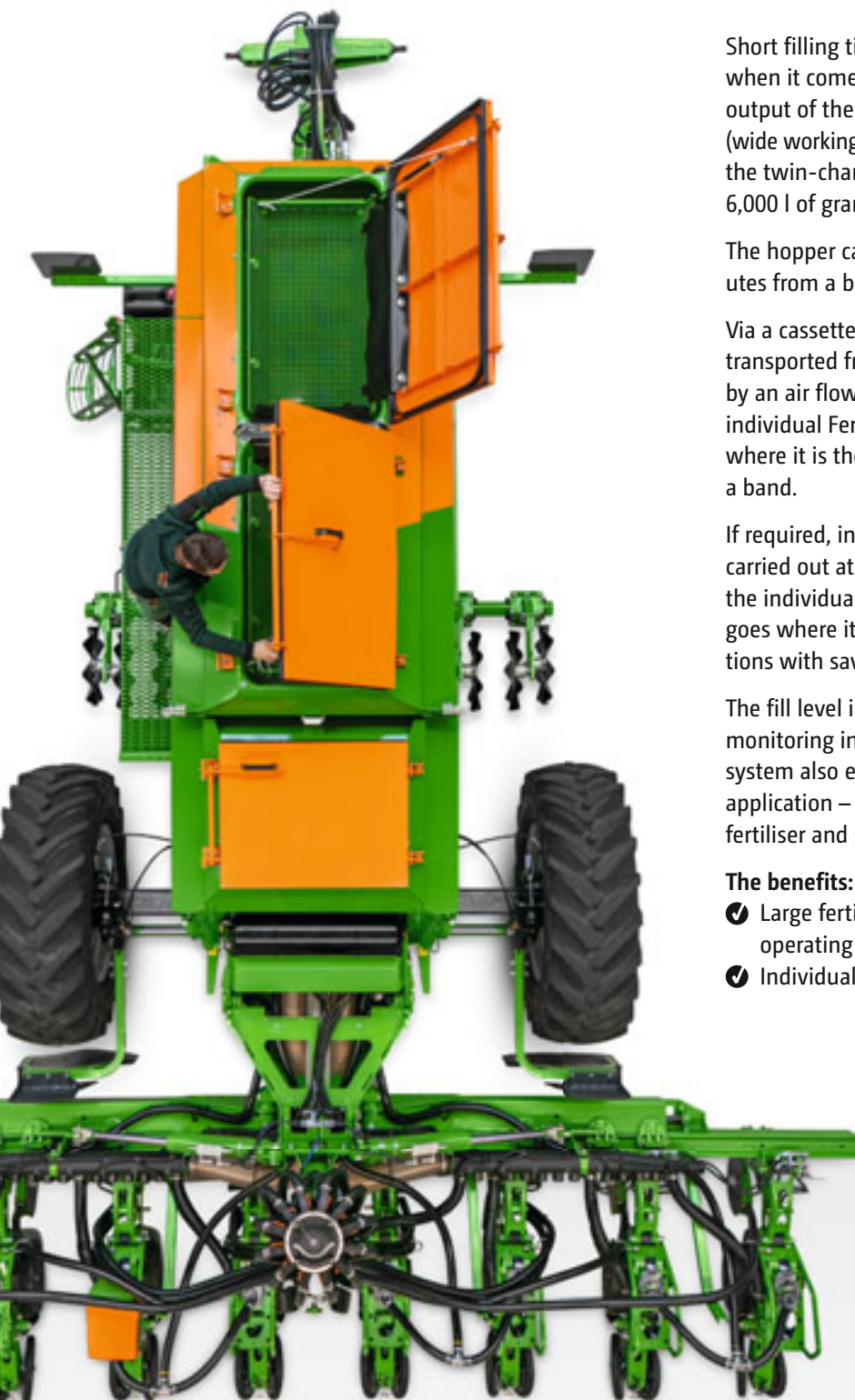


Illustration of
singling overpressure
chamber

Central fertiliser hopper

From big bag to the band of applied fertiliser



Short filling times are essential for high area coverage when it comes to precision seeding. In order to match the output of the other components of the Precea-TCC (wide working width, high working speed, large seed hopper), the twin-chamber fertiliser hopper can therefore hold up to 6,000 l of granular fertiliser.

The hopper can be conveniently filled in a matter of minutes from a big bag over the side of the machine.

Via a cassette in the metering unit, the fertiliser is transported from the central hopper to the distributor head by an air flow. From here, the fertiliser is delivered to each individual FerTeC twin HD double disc fertiliser coulter, where it is then placed in the soil as under-root fertiliser in a band.

If required, individual row shut-off of the fertiliser can be carried out at the distributor head, which is automated with the individual row switching of the seed. Fertiliser only goes where it is supposed to - for ideal plant growth conditions with savings on input costs.

The fill level indicator can be supplemented by camera monitoring inside the hopper. The hopper's weighing system also enables exact monitoring of the fertiliser application - bringing maximum precision to the entire fertiliser and single seed sowing operation.

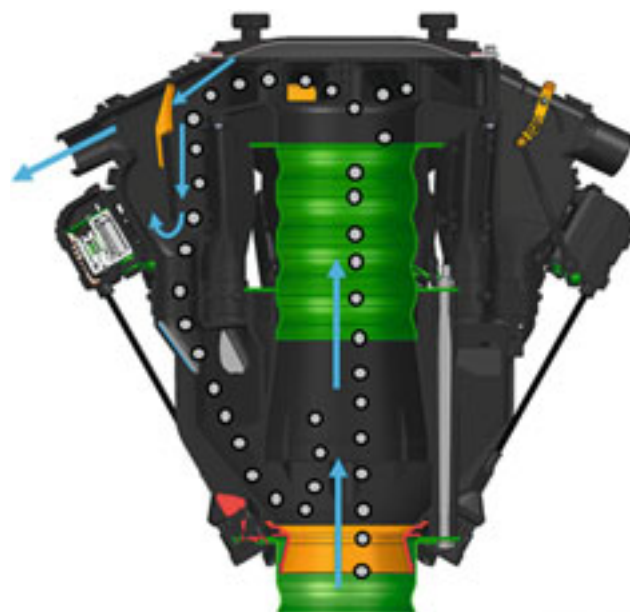
The benefits:

- ✔ Large fertiliser hopper (3,000 or 6,000 l) enables long operating periods without refilling.
- ✔ Individual row control maximises working efficiency.

Precea 6000-TCC with central seed hopper and optional additional seed hopper (8 l capacity), which collects the emptied seed residue when the unit is opened and checked.



Individual row control of the fertiliser is made possible within the distributor head by the automatic shutting of the diverter flaps.



Active fertiliser flow to the FerTeC twin HD double disc fertiliser coulters, fertiliser flow to the switched-off coulters is stopped.

The PreTeC mulch seeding unit

The precision coulters for all soils



Different press rollers for all soil types

Maximum flexibility with the highest work rates

No matter whether it is used for conventional sowing after the plough or when mulch sowing, the PreTeC mulch sowing coulters are perfect for precision seeding. Benefit from the first-class, consistent seed placement accuracy and use it to increase yield. The Precea facilitates high work rates due to its high degree of accuracy, in particular at high forward speeds of up to 15 km/h.

The benefits:

- ✓ High operating comfort
- ✓ Minimisation of any downtime
- ✓ Time saving during regular maintenance

Even field emergence

The mulch sowing coulters (120 kg under its own weight) can be pressurised to a coulters pressure of up to 350 kg via a hydraulic cylinder. This ensures smooth running and even field emergence under the hardest of conditions. The complete mulch sowing coulters unit is guided consistently via the 2 large carrying rollers. Soil opening is performed by a double disc unit and a following furrow former. Once the seed has been embedded in the soil by the catcher roller, the V-Press rollers follow on to close up the furrow again.



AMAZONEN-WERKE
SOWING UNIT PRETEC

✓ Working quality
in maize

DLG Test Report 7104

The percentage emergence was rated exclusively as "very good" by the DLG

The PreTeC mulch sowing coulters facilitates maximum precision as well as maximum output.



The coulters pressure can be easily adjusted hydraulically via the cylinder.

Hydraulic coulters pressure adjustment

The coulters pressure can be adjusted even more easily and comfortably via the hydraulic coulters pressure adjustment. The coulters pressure can be adjusted to a pressure of up to 350 kg via the operator terminal, even whilst on the move. The SmartForce automatic coulters pressure regulation also ensures that all coulters are automatically adjusted, even in varying soil conditions.

The benefits:

- ✓ Increased yields and an increase in the sowing quality as a result of effective singling.
- ✓ Increased adjustment comfort due to tool-free operation.
- ✓ Increased all-round flexibility due to the extensive range of optional equipment for the coulters.



Maximum operational comfort

The good accessibility to the seeding unit ensures high operating comfort. A multitude of adjustment options allows the adaptation to any requirement.

1. Sowing depth
2. Press roller contact pressure
3. Running angle of press roller

- ❗ "The scales are directly embedded into the component and do not require adhesive labels – very elegant."
("profi" – Driving report Precea 4500-2CC Super · 10/2019)

Micro-granular application – easy handling, great effect

Micro-granular applicator (17 l hopper capacity per unit) – only for Precea 6000-TCC with seed hoppers mounted on the sowing units. Micro-granule delivery into the row (Fig. left) or via diffuser (Fig. right) for full flexibility with effective special fertilisation, slug pellets, insecticide applications or herbicide applications – adaptable to any location and any situation.



FerTeC twin HD double disc fertiliser couler

The high-performance fertiliser couler



The high-performance FerTeC twin HD double-disc fertiliser couler is suitable for conventional sowing after the plough as well as mulch sowing.



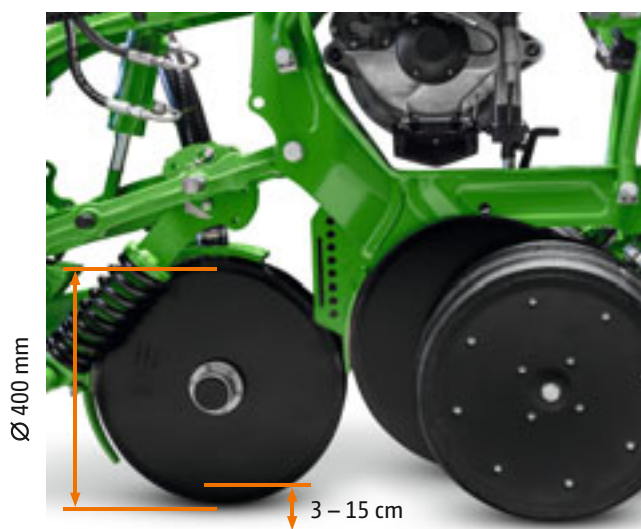
The FerTeC twin HD double disc fertiliser coulters with application depth adjustment

The high-performance double disc coulters ensure clean, reliable placement. The double disc coulters run smoothly and deposit the fertiliser in front of the PreTeC mulch coulters. The double disc coulters are completely maintenance-free and meet the highest demands, particularly for ease of operation.

Initially, the relationship between the placement depth of the fertiliser and the placement depth of the seed is set just once. The fertiliser coulters automatically adjust the depth if the sowing depth is subsequently changed.

The benefits:

- ✓ Automatic placement depth of the fertiliser provides more convenience in operation.
- ✓ A more precise placement depth on heavy ground.
- ✓ Short set-up times, since the coulters pressure on the fertiliser coulters is also applied to the sowing coulters.



The FerTeC twin HD double disc fertiliser coulters with coupled overload protection

The placement depth is adjustable between 3 and 15 cm, and the maximum coulters pressure is 200 kg



Consistent longitudinal distribution of the fertiliser, even at wider working widths thanks to up to two distributor heads.

SmartForce automatic coulters pressure regulation

The same placement depth across all soil types



A even plant population of a crop without gaps allows the uniform development of all individual plants by optimising the supply of light, water, carbon dioxide and nutrients. The basis for this is the uniform placement depth of the seed at the correct depth - even in heterogeneous soils

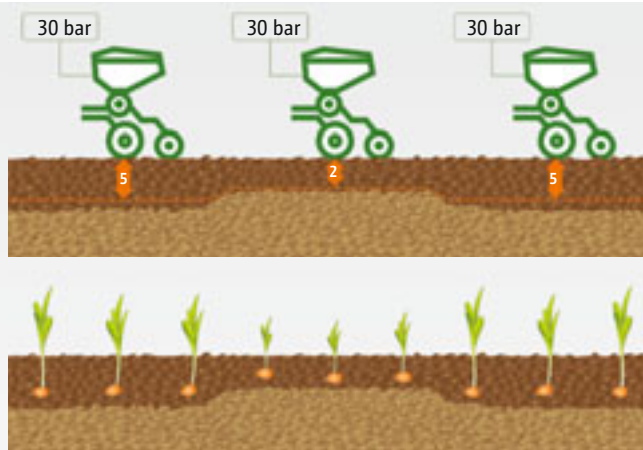
with varying firmness or consolidation. No problem when using the SmartForce option for the Precea TCC - the yield potential of the crop can be maximised.

! "Thanks to SmartForce, we have a uniform placement depth and therefore a better field emergence."

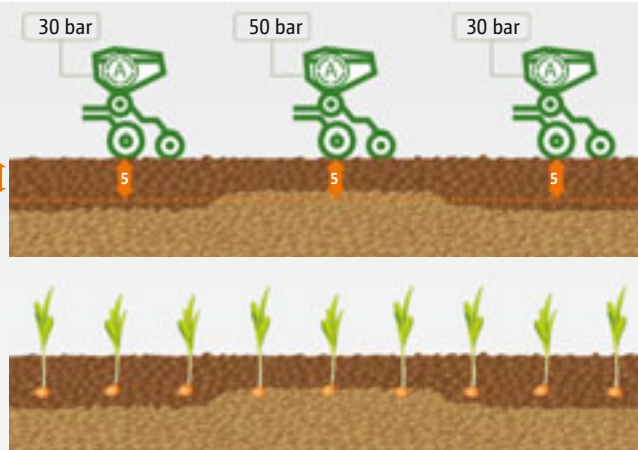
(Stefan Kerkerling, agricultural contractor - 05/2021)

The opinion in practice from Stefan Kerkerling
QR code for the video





Hydraulic coultter pressure **without** automatic system gives inconsistent placement depth



Hydraulic coultter pressure **with** automatic control for consistent placement depth

Different soil conditions – a uniform outcome with SmartForce

Simultaneous maintenance of a consistent placement depth and optimum embedment of the seeds ensures high field emergence and provides the basis for good a yield.

Maintaining a consistent placement depth on varying soils or conditions where there is uneven reconsolidation represents a particular challenge for both the machine and the operator.

AMAZONE offers the SmartForce automatic coultter pressure regulation system as an add-on to the hydraulic coultter pressure adjustment.

The particular feature with this system is that the driver does not need to stipulate the coultter pressure, but rather they set the desired contact force on the terminal.

This contact force is checked by measuring pins when in the field. If a deviation from the predefined contact force on the PreTeC coultter is registered due to changing ground conditions, the SmartForce hydraulic system readjusts the coultter pressure accordingly. The correct contact force is precisely applied.

In this way, the coultter pressure is adapted to the differing ground conditions whilst on the move - uniform placement depths are thus reliably maintained under all ground conditions. This makes it easier for the driver and results in a more even field emergence.



The benefits:

- ✔ Uniform placement depth - regardless of any changes in soil conditions in a field.
- ✔ Uniform plant population enables maximum yield potential by optimising the supply of light, water, carbon dioxide and nutrients to the individual plant.

The measuring pin registers changes in the contact force on varying soils. The ISOBUS-controlled SmartForce system then automatically evens out these fluctuations. As a result, the placement depth remains the same under all soil conditions.

Soil-conserving tramline management

Hydraulic tramline offset and telescopic axle



Hydraulic cylinders on the telescopic axle

Wheel marks in the field inevitably reduce the actual cultivated area for the crop. Although switching off the rows in the wheel marks saves on consumables such as seed and fertiliser, it reduces the seed rate and thus the natural yield potential of the field.

The intelligent tramline management on the Precea TCC with hydraulic tramline offset and telescopic running gear balances out this disadvantage by adapting the axle width to the row spacing. This can be by just making a slight offset of the seed rows next to the wheel marks or a combination of both the offset and the drill track width. Full seed rate and damage-free subsequent applications in the crop without driving over seed rows for high yields on every field.



The wheel marks of the Precea axle are guided between the seed rows - without duplication - to protect the soil



Symmetrical offset of 2 units

With a symmetrical offset, the slide cylinders are actuated simultaneously on both sides of the machine. A tramline is therefore created in only one pass. The maximum offset distance of a unit is 400 mm. The offset travel can also be reduced if the entire width is not required due to track width or tyre size.

The advantages of the hydraulic tramline offset

- ✔ Optimum yield potential since the seed rows do not need to be switched off, they are just displaced.
- ✔ Relief on the driver by automatic detection and adaption to make the tramline.
- ✔ Lack of plant damage during subsequent passes through the crop as a result of the generated tramline.
- ✔ Optimum fertiliser delivery since the fertiliser coulter and the singling unit are displaced together.

Operation and control

The right adjustment for every challenge



Mechanical depth adjustment of the fluted disc wheel mark eradicators

The basic settings of the Precea TCC are largely made directly on the PreTeC mulch seed coulters without tools. The placement depth, the contact pressure of the press rollers and their opening angles for precise reconsolidation are very easily set using the numbered scales. The depth of the fluted disc wheel mark eradicators can also be adjusted without tools.

The coulters pressure, on the other hand, is set hydraulically via the ISOBUS control terminal - with the SmartForce option automatically based on the coulters pressure actually required during work.

Further settings such as folding and unfolding the coulters system, extending and retracting the telescopic axle, tramline control, individual row shut-off and CurveControl are also made electronically from the cab as per the ISOBUS standard.

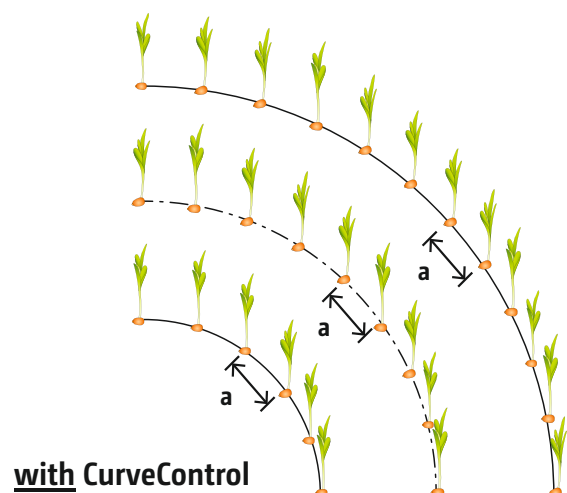
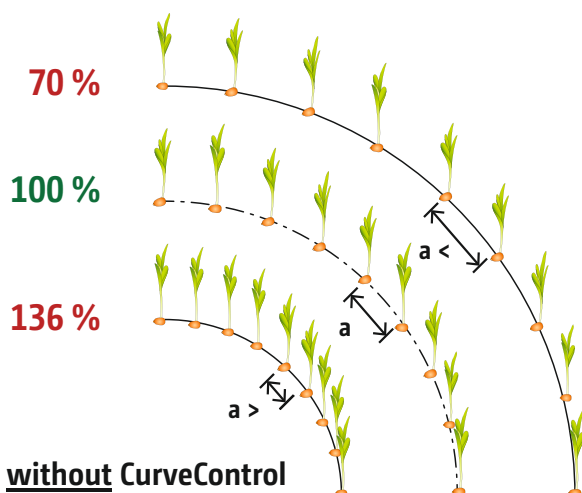
For other SmartFarming applications, such as the part-area, site-specific application of fertiliser or seed, individual row shut-off for either medium or the individualised start/stop times of each metering unit, an ISOBUS operating terminal that supports these functions is required, such as the AmaTron 4.

CurveControl – optimised seed placement when driving round bends

The electric metering drive to the individual rows makes it also possible to maintain an evenly-spaced placement across the entire working width, even when driving round bends. The even spacing allows the plants to be adequately supplied with nutrients.

This results in more uniform crops and ensures even ripening.

Customised machine software, developed by AMAZONE - for ideal cooperation between machine and driver.



MORE
than ISOBUS

Maximising the full potential of the machine

Electronic solutions from AMAZONE

An important topic for the future of agriculture is the focus on each individual plant - and therefore also the precision of seed placement and fertiliser application.

AMAZONE's electronics solutions, developed in-house by its own specialised department, and with a high degree of practical relevance, are the key to enabling the Precea and other AMAZONE machinery to develop their full potential. And not only just the consideration of precision seeding, but also in the holistic view of arable farming and plant production from sowing to fertilisation and 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 Precea in the field - especially when used in conjunction with the AmaTron 4 ISOBUS operator terminal from AMAZONE.



Clearly-structured AMAZONE machine operation

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

- ✔ Highest compatibility and function flexibility of your ISOBUS equipment.
- ✔ No additional modules 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.



MultiStory with Precea – multi-talented in precision agriculture

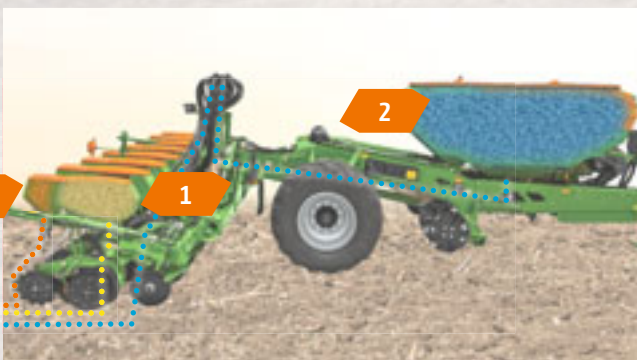
Good technology is the basis for high precision. However, only the interaction between an electrical control system that is equal to, and harmonised with it, allows for perfect precision. AMAZONE makes this perfection possible with an electronic solution that is harmonised for both the Precea and AmaTron 4 - and thus makes the Precea-TCC multi-talented in precision farming.



MultiBin

By using up to 3 hoppers, several application materials (1) seed and 2) fertiliser or additionally 3) micro-granules) can be applied simultaneously and flexibly. This saves passes and increases fertiliser efficiency through precise under-root fertilisation.

- ✔ Multi-chamber system - central seed hopper, two-chamber hopper for fertiliser and optional hopper for micro-granules.
- ✔ Flexible application of several different materials.



MultiMap

Both seed, fertiliser or micro-granule rates can be applied to specific areas within a field, adapted to the different yield potential - independently of each other, based on up to 3 application maps with the GPS-Maps&Docs licence, using the AmaTron 4.

- ✔ Part-area, site-specific application of each material.
- ✔ Increases the efficiency and exploitation of the natural yield potential.





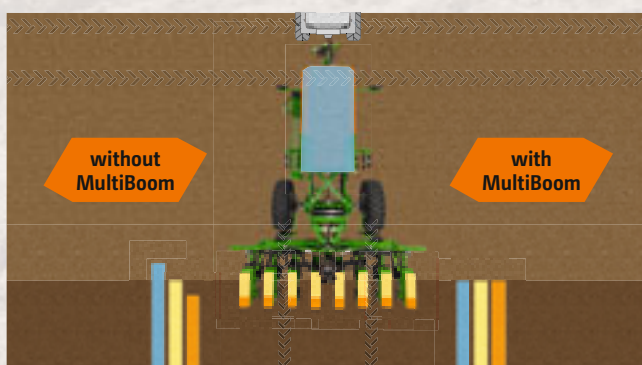
**IDEAS FOR
OUR FUTURE**



MultiBoom

Automatic, time-delayed switching, on or off, of each medium via GPS-Switch pro with AmaTron 4 prevents overlapping or gaps at the headland.

- ✔ Individual shut-off times for each applied material.
- ✔ Maximum precision on the headland for uniform crop growth.



MultiSwitch

In order to avoid over- or under-sowing in critical areas, each row can be switched on and off precisely using single row shut-off in combination with the GPS-Switch basic software licence in the AmaTron 4 operator terminal - separately for seed and fertiliser or for the addition of micro-granules.

- ✔ Individual single row control for seed and fertiliser or for the addition of micro-granules.
- ✔ Reduction in input costs.



AmaTron 4 ISOBUS terminal

Full functionality



The AmaTron 4 ISOBUS operator terminal developed in-house by AMAZONE enables convenient tablet-style control of any ISOBUS-enabled agricultural machine. The AmaTron 4 make possible all ISOBUS functionality - 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.



STABILITY

STURDY!

- ✓ Low-reflection 8-inch display with waterproof and dustproof aluminium housing
- ✓ Rear-mounted hand rest for a secure grip



RELIABILITY

WELL-DESIGNED!

- ✓ 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

CONVENIENT!

- ✓ 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

Software / Equipment	Availability	Function in AmaTron 4
GPS-Maps&Doc	as standard	· Inactive field boundaries and automatic field recognition · Documentation via ISOBUS Task Controller or pdf export · MultiMap – application maps in ISO-XML format and Shape file format
GPS-Switch basic	optional	· MultiSwitch – individual row control of each medium for up to 16 part-width sections · Virtual headland
GPS-Switch pro	optional	· MultiBoom – SectionControl for up to 4 'booms' · Auto-zoom, obstacle marking
GPS-Track	optional	· Optical parallel guidance aid · Various track modes · ISOBUS tramline control Level 1
AmaCam	optional	· Camera display with reversing detection facility
AmaTron Connect	optional	· Display extension with AmaTron Twin App

More convenience for machine operation

AmaTron Twin App – display extension for convenient operation

The AmaTron Twin App offers the driver even more comfort during work, as any GPS functions in the map view can also be operated via a mobile device, e.g. a tablet, in parallel with 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



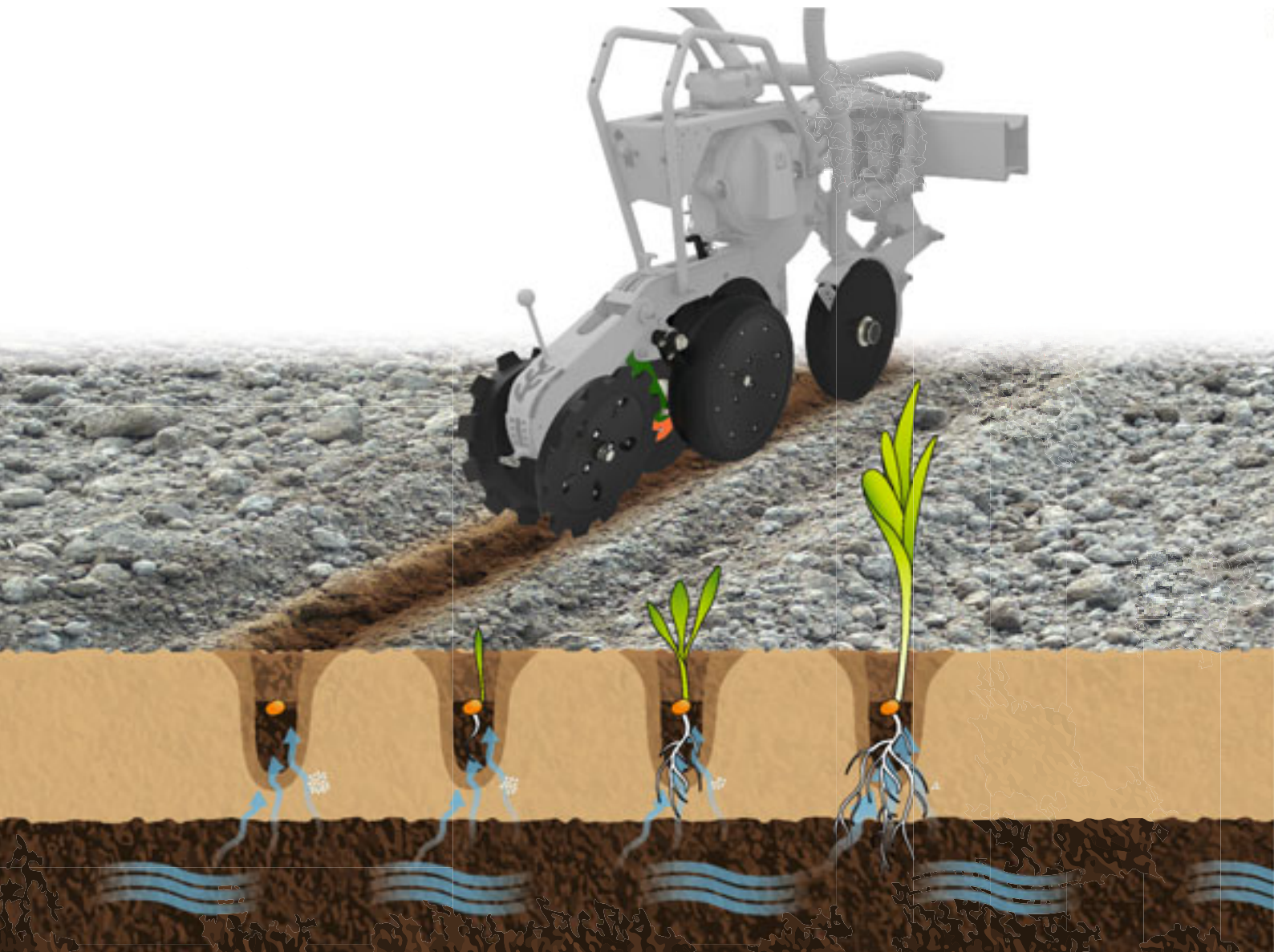
AmaTron Twin App



The agronomical advantages of the Precea

More water for seed and fertiliser

The singled seeds pass through the propulsion channel into the pre-formed seed furrow, where it is reliably placed at the correct depth by the catcher roller with press wheel. The trailing V-Press rollers close the furrow and firm the soil for optimum seed/soil contact and reconsolidation. Soil closure is complete - both the seeds and under-root fertilisation have access to the groundwater. Perfect emergence conditions with the Precea. Tight operating windows with optimal sowing conditions can be utilised profitably.





With Precea comes reliable, successful sowing

The maximum theoretical yield potential of an individual plant is defined by the genetics of the seed. The actual yield potential, in turn, is determined by a variety of other factors and parameters and this, ultimately, is gradually reduced during the plant's life cycle through abiotic and biotic stress factors. What remains in terms of potential is the actual yield of the crop that can be harvested.

In order to increase yields stress factors that can inhibit growth thus must be reduced - as comprehensively and as early as possible.

The first steps are taken by ensuring better sowing: the first step is sowing at the correct time and in the best possible climatic conditions. Secondly, the precise placement of the seed at the right depth in the soil is essential to optimise the physiological developmental of the seedling.

Thirdly, optimum supply of water to the seedling is very important - and therefore good reconsolidation and access to water-bearing soil layers. Furthermore, the availability of nutrients through precise under-root fertilisation is important to enable the young roots to grow, especially at depth - in order to take up water and the nutrients dissolved in it in the deeper subsoil, even during dry periods.

The high output, high precision, good reconsolidation and adapted fertilisation of the Precea do all of this - ensuring good yields and high efficiency.

Testimonials for the Precea TCC



Mario Sturzerbecher, Germany
Precea 9000-TCC

"We have the challenge of generating an optimal placement and consolidating the seeds into the moist soil at the right placement depth, even if the seedbed is not as smooth as a billiard table. The machine is characterised by its smooth running and perfect placement. For working with an application map, simply insert a USB stick into the AmaTron 4, read the map and you're done."





Jan Hansen, Denmark
Precea 12000-TCC

"I'm happy when I can see that the seeds are simply where you want them to be. The machine does this equally well everywhere, whether in a field where the soil is a little looser or at the end where it is firmer. I'm really happy to be able to make use of the Precea."

Jesper Nielsen, Denmark
Precea 12000-TCC

"We have been in 'round-the-clock operation' with two machines for the last 2 years! Now we only have one operator on the Precea, sowing 1,100 ha. What has been done here is really good. I think that the Precea will still be a good machine in 10 years' time – despite the many hectares that it has to sow. This machine has fully met our expectations."



The correct row spacing, placement depth and grain size are checked by the AMAZONE multi-placement tester. Precision simply by reading off!

Opinion in practice from Mario Sturzerbecher
QR code for the video



Opinion in practice from Jesper Nielsen
QR code for the video







Precea-TCC with seed hoppers mounted on the sowing units

6 m working width



The benefits of the Precea 6000-TCC with seed hoppers mounted on the individual sowing units and central fertiliser hopper:

- ✔ Great flexibility when sowing different crops.
- ✔ Quick seed change-over thanks to tool-free emptying of residual amounts and easy changing of the centralised singling discs.
- ✔ Option of additional micro-granular application.

High output sowing of the widest variety of seeds.



70, 75 or 80 cm



8 rows



8 x 70 l seed



3,000 l fertiliser



Up to 15 km/h



Folding the coulters system takes just a few seconds - for safe road transport and quick field changes



Various coupling systems offer manoeuvrability and control on the road and in the field

Precea-TCC with central seed hopper and Central Seed Supply

6, 9 and 12 m working widths



The benefits of the Precea 6000, 9000 and 12000-TCC with central hoppers for seed and fertiliser:

- ✓ Huge outputs thanks to large working widths, high working speed and extreme precision.
- ✓ Extended, active operating times thanks to minimised fill stops and less downtime.
- ✓ Rapid folding of the coulters speeds up the change between fields.

Drive there, fold out, sow - full yield potential despite those tight time windows.



45, 50, 70,
75 or 80 cm



8, 12, 16,
18 or 24 rows



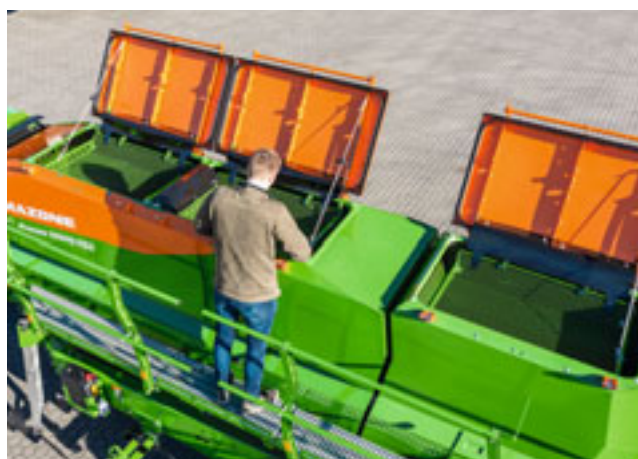
3,000 or 6,000 l
fertiliser
850 or 2,000 l
of seed



Up to 15 km/h



The illumination of the coulters system and a camera system provides a good overview, even in the dark and when working at night



Easy and safe filling of all the hoppers thanks to folding platform with handrail on the side

Technical data

Precea 6000-TCC with seed hoppers mounted on the sowing units or central seed hopper

Model	6000-TCC	
Frame execution	trailed	
Number of sowing units	8	
Row spacing (cm)	70, 75 and 80	
Working width (m)	5.60–6.40	
Transport width (m)	3.00	
Transport length from (m)	6.20	
Transport height (m)	< 4.00	
Linkage	drawbar eye, ball coupling, lower link cross shaft	
Operational speed (km/h)	3–15	
Seed hopper capacity (l)	8 x 70 = 560 (individual seed hoppers mounted on the sowing unit) or 850 (centralised)	
Fertiliser hopper capacity (l)	3,000	
Weight with fertiliser equipment from (kg)	4,300	
Power requirement from (hp)	180	
Tractor spool valves required	Comfort hydraulics	
Lifting and lowering	D/A and T, required oil capacity min. 60 l/min	
Transport position		
Telescopic axle		
Tractor wheel mark eradicators		
Parking jack	S/A	
Hydraulic fan drive Singling	S/A and T, required oil capacity min. 60 l/min	D/A, T and D ¹ , required oil capacity min. 60 l/min
Hydraulic blower drive fertiliser and Central Seed Supply		

¹ drain: Oil drain connection

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.

Precea 9000-TCC and 12000-TCC with central seed hopper

Model	9000-TCC		12000-TCC	
Frame execution	trailed			
Number of sowing units	12	18	16	24
Row spacing (cm)	70, 75 and 80	45 and 50	70, 75 and 80	45 and 50
Working width (m)	8.40–9.00	8.10–9.00	11.20–12.00	10.10–12.00
Transport width (m)	3.00			
Transport length from (m)	8.30			
Transport height (m)	< 4.00			
Linkage	drawbar eye, ball coupling, lower link cross shaft			
Operational speed (km/h)	3–15			
Seed hopper capacity (l)	2,000			
Fertiliser hopper capacity (l)	6,000			
Weight with fertiliser equipment from (kg)	8,900	9,700	9,600	10,900
Power requirement from (hp)	250		300	
Tractor spool valves required	Comfort hydraulics			
Lifting and lowering	D/A and T, required oil capacity min. 90 l/min			
Transport position				
Telescopic axle				
Tractor wheel mark eradicators				
Parking jack	S/A			
Hydraulic fan drive Singling	D/A, T and D ¹ , required oil volume min. 45 l/min	D/A, T and D ¹ , required oil capacity min. 60 l/min	D/A, T and D ¹ , required oil capacity min. 50 l/min	D/A, T and D ¹ , required oil capacity min. 65 l/min
Hydraulic blower drive fertiliser and Central Seed Supply	D/A, T and D ¹ , required oil capacity min. 60 l/min		D/A, T and D ¹ , required oil capacity min. 70 l/min	

¹ drain: Oil drain connection

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The original is simply better: AMAZONE service and quality



Experience 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 short periods of time are needed for optimum sowing. That is why AMAZONE offers a first-class spare parts service with genuine spare parts that are precisely matched to your machine. So your machine is always ready for use - quality, available worldwide.

The spare parts centre in Tecklenburg-Leeden in Germany is the base for our worldwide spare parts logistics system. This ensures optimum availability of spare 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 genuine spare parts and wearing metal:

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



myAMAZONE

for more performance



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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 guarantee on offer can be applied for within the contractual warranty period of 12 months after initial use.

NEW



SPARE PARTS

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

- ✔ The right spare parts list for your machine with just one click.
- ✔ Identify the correct part in the exploded views in no time at all.
- ✔ 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 machine

- ✔ Season start and commissioning
- ✔ Adjustment and operation
- ✔ Spare parts and operating instructions
- ✔ Maintenance and storage







AMAZONE



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