AMAZONE

Precision air seeder **EDX**

EDX precision air seeder

in 9 m working width

SPEED seeding

When seeding after the plough, in mulch or direct seeding, the EDX trailed precision air seeder excels with its reliability and high level of operational comfort. With a working width of 9 m and a seed hopper capacity of 2x 400 l, the EDX packs a punch at working speeds of up to 15 km/h.

EDX

Uncompromising performance

Up to **15 km/h**
forward speed

In **9 m** working width

Row spacings with
45 cm, 50 cm, 70 cm, 75 cm and 80 cm

The top benefits:

- Huge outputs thanks to working speeds of up to 15 km/h.
- Xpress system for good singling and optimum placement of the seed
- High acreage output, thanks to the large seed and fertiliser hopper
- Quick filling and seed change thanks to the centralised seed hoppers
- Quick filling of the centralised fertiliser hopper
- Simplified calibration of the fertiliser application rate
- AMATRON 3 operator terminal for all functions
- Central hydraulic pressure adjustment for fertiliser and sowing coulters, with remote control via AMATRON 3 as an option
- Compact with quick folding down to a maximum transport width of 3 m

Fertiliser hopper with **5,000 l**

and seed hopper with **2x 400 l**

with **Xpress**

singling &
placement system

MORE INFORMATION
www.amazone.net/edx

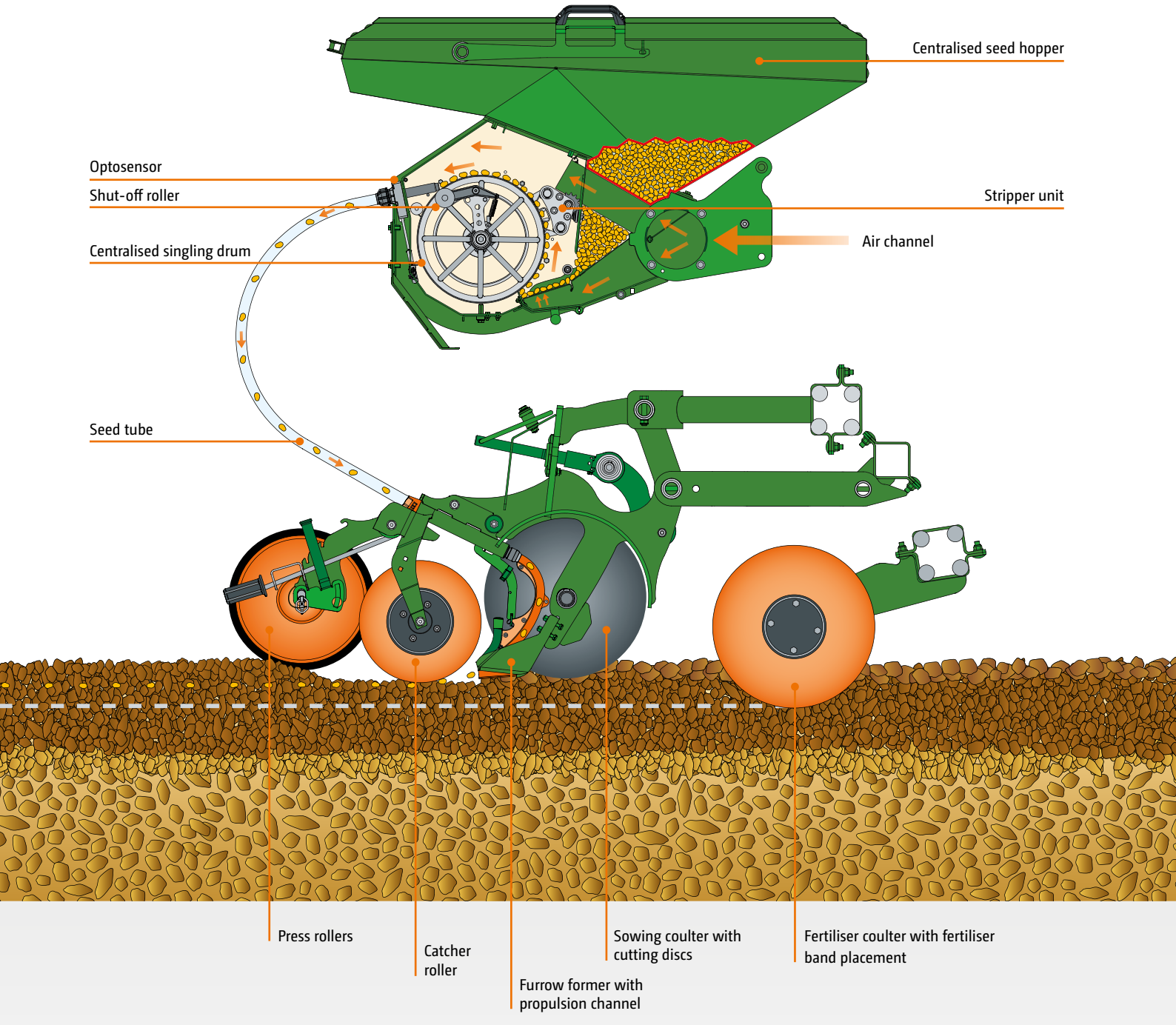
The EDX from AMAZONE is synonymous with high output

The machine offers complete flexibility: it can be used both after conventional and conservation soil tillage or for direct seeding. This also applies to the sowing of maize, sunflowers and rape.

The trailed 9000-TC is also ideal for larger field sizes. Practical experience has shown that outputs in a seasonof up to 1,500 ha is possible with an EDX 9000-TC depending on the farm.

The way to a higher class of performance

Xpress grain singling and placement system



How the Xpress system works

The Xpress singling and placement system is used on the EDX instead of the usual vacuum singling. Grain singling and seed placement take place separately:
the seed is actively conveyed in the overpressure system for precise placement in the seed furrow via the singling system and seed tubes. Working speeds of up to 15 km/h can be therefore realised.

AMAZONE basically offers two centralised singling drums for the three crops maize, sunflower and rape, in order to be able to react to the different characteristics (shape, diameter, etc.) of the seed and to single it cleanly.

The pneumatic singling of the seeds is provided for 12 to 20 rows simultaneously via the centralised singling drums depending on the machine and row spacing. The centralised and synchronised adjustable stripper units for the grain singling are located at the holes of these drums.

After the singling process, the seeds are “shot” via the seed pipes into a separate placement zone, the so-called Xpress catcher system with furrow former and catcher roller.

The furrow former creates a furrow with a rectangular cross-section behind the two leading cutting discs.
The following catcher roller tightly closes the furrow at the bottom and on the sides, so that the seeds cannot roll out of position but are safely caught and pressed into the furrow, even in unfavourable soil conditions. This ensures optimum placement quality. The placement quality remains constant even at increased forward speeds as the catcher roller is arranged directly behind the furrow former. Another advantage compared to a conventional precision air seeder is that the placement accuracy provided by the Xpress catcher system no longer depends on the degree of wear on the sowing coulters.

EDX centralised singling drum

EDX 9000-TC

Ideal for large areas and seasonal outputs up to 1,500 ha

Uncompromising in large-scale use

As the flagship of the EDX precision air seeders, the trailed EDX 9000-TC with a working width of 9 m is uncompromisingly designed for large-scale use. Many EDX 9000-TCs have managed 1,000 ha and more in just one sowing season to the complete satisfaction of their owners.

The EDX 9000-TC has two centralised seed hoppers with capacity of 400 l each, and the fertiliser hopper holds 5,000 l.

AMAZONE offers a filling auger as a special option for the EDX 9000-TC for quick and easy filling of the fertiliser hopper.

The EDX 9000-TC can be equipped for row spacings of 44.9 cm (45 cm), 50 cm, 70 cm, 75 cm or 80 cm. In Germany this machine is delivered as standard with air brakes and approved to travel at 40 km/h.

An overview of the EDX 9000-TC

Model	Seed hopper capacity	Seed supply at 80,000 grains/ha for	Fertiliser hopper capacity	Fertiliser supply for approx.
EDX 9000-TC	2 x 400 l	25 ha	5,000 l	25 ha

- Possible row spacings
  44.9 cm (45 cm), 50 cm, 70 cm, 75 cm, 80 cm

Coulter technology in perfection

"The coulter system of the EDX performed extremely well in our test under all conditions. The coulter system also reliably applied fertiliser and seed at the right depth, even when mulch sowing and on heavy ground."

(top agrar test · 2/2013)

A wide range of application is available with the EDX precision air seeders.

Even at high speeds

It is important that the fertiliser and sowing units have a smooth run, so that fertiliser and seed are placed precisely at the required depth, especially at high forward speeds. AMAZONE therefore uses centralised, hydraulically adjustable coulter pressure systems on all EDX precision air seeders.

Exact fertiliser placement

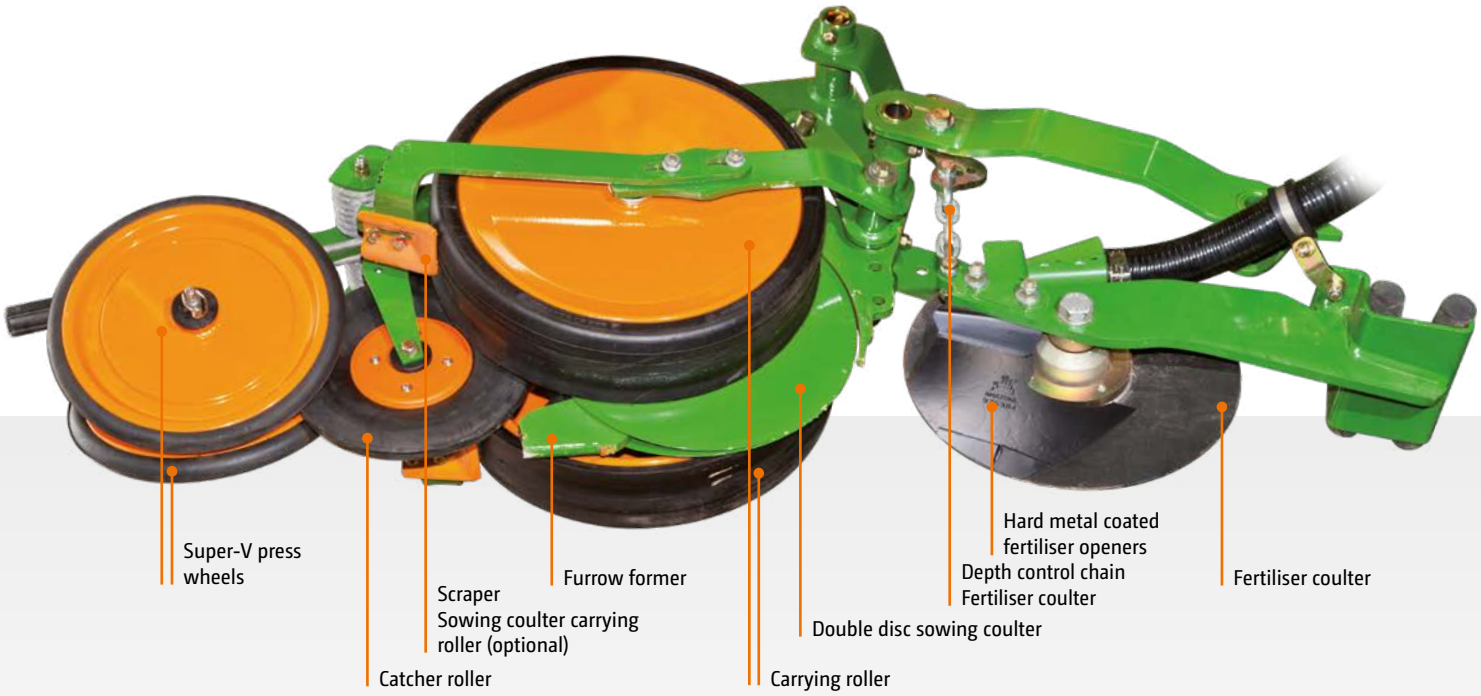
The mineral fertiliser is placed exactly 5 cm from the seed furrows via diagonally opposite fertiliser coulters with furrow formers. The machines can also be equipped with hard metal coated furrow formers for use on abrasive soils.
The fertiliser is metered from the central supply hopper via an infinitely variable gearbox. The placement depth is centrally controlled across all coulters via a hydraulic coulter pressure adjustment system.

Precision seed placement

Each Xpress sowing unit consists of several elements: Firstly a V-shaped angled double disc sowing coulter cuts the soil surface and pushes any crop residues to one side. This is followed by the furrow former which shapes the furrow, pressing it down at the bottom.
Directly behind the furrow former, the seed is shot into the furrow, caught by the catcher roller and embedded in the furrow bottom. Finally, adjustable Super-V press wheels cover the seed with loose soil and press it down over the covered furrow.

Hard metal coated fertiliser openers

Hard metal coated fertiliser openers can be supplied as an option for use under extremely abrasive conditions.
A depth control chain is available as an option to provide optimum spacing between the fertiliser and sowing coulter.
Special scrapers (option) clean the carrying rollers in very sticky soil conditions.



Precision seed placement

- AMAZONE coulters require little maintenance, have no lubrication points and no motors installed directly on the coulter which could get dirty. This saves valuable set-up and maintenance time.

Depth adjustment via a spindle

Manual pressure adjustment for the EDX 9000-TC

The position of the furrow former and therefore the desired seed placement depth can be individually adjusted via a spindle. In this way, individual coulters can be set deeper, for instance in a tractor track. The maximum placement depth is 10 cm.

Centralised coulter pressure adjustment

The pressure for fertiliser coulters and sowing units is adjusted via manual valves on the machine in its basic equipment level. The electric remote control, which enables the pressures to be adjusted from the cab via the AMATRON 3 operator terminal, is available as a special option and is even more convenient.

Carrying rollers and furrow closing with Super-V press rollers

The complete sowing unit is supported by two 500 mm diameter carrying rollers on each coulter which run very smoothly thanks to their wide contact area. The pressure on the carrying rollers can also be centrally and hydraulically adjusted and therefore adapted to the respective soil conditions. The maximum pressure is 200 kg/unit. This ensures that the sowing units run smoothly and provide precise depth placement.

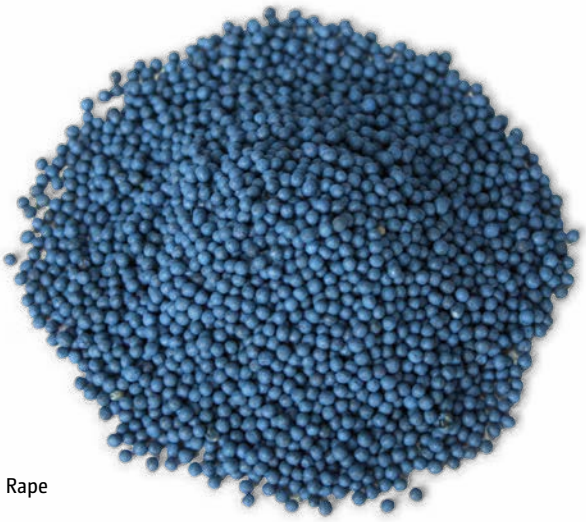
Optional equipment

✔ Star clearers

✔ Clod clearers

Maize, sunflowers, rape and sorghum – everything is possible!

Maize



Rape

Sunflowers

Sorghum

- Be it maize, sunflowers, rape or sorghum, the centralised singling drums, which can be quickly and easily exchanged, are available for sowing various crops and also for large or small maize seeds.

Centralised adjustment of the singling system

Suitable for all soil conditions

EDX precision air seeders can be universally used without conversion for sowing after the plough, mulch sowing or direct seeding thanks to the special sowing units.

80 cm row spacing? No problem!

Maize is sown with a row spacing of 80 cm in southern France. The respective equipment is possible for the EDX.

Sowing at narrow row spacings is up for discussion

The initial development of the plants can be improved under certain conditions by narrow row spacing sowing of maize with row spacings of less than 75 cm. However, precision air seeding with row spacings of 37.5 or 44.9 cm (45 cm) is also up for discussion in the case of rape. Amazone offers solutions for this as well.

Tramline control/individual row shut-off

Tramlines are needed at closer row spacings, in order to apply fermentation substrates or other fertilisers in the growing crops without the plants being damaged.
EDX precision air seeders can be equipped with the appropriate tramline control thanks to its electronic control.
At the same time, individual rows can be switched on and off via the individual row shut-off, e.g. when sowing wedge shaped fields.

An overview of row spacings

Model	Possible row spacings in cm
EDX 9000-TC	44.9 (45), 50, 70, 75, 80

AMATRON 3

The operator terminal for all machine functions

Top operating comfort with AMATRON 3

The EDX precision air seeders also offer considerably more operational comfort. Apart from extensive monitoring of the machine, a large number of functions can be conveniently and easily operated via the AMATRON 3 operator terminal. This also reduces the driver's workload.

"The seed rate via input of the number of grains per hectare is as easy as the percentage increase and decrease of this rate during work, thanks to the standard electric drive of the singling system."

(profi 2/2012, p. 20-25)

Quick data input

First of all, the machine-specific and job-related data, e.g. the setting of seed or fertiliser application rates, is input via the AMATRON 3 operator terminal. You can also change seed rates or switch over hydraulic functions during sowing.

Optimally informed

The AMATRON 3 display keeps you informed about working speeds, seed rates, residual volumes in the seed and fertiliser hoppers or the distance remaining until the seed or fertiliser hopper is completely empty.

Fill level sensors/empty indicators

The seed and fertiliser hoppers are each equipped with a fill level sensor, so that you are always aware of the current situation. You receive an alarm message as soon as the levels in the seed or fertiliser hoppers fall below critical limits.

Extensive monitoring

AMATRON 3 monitors, for example, the blower fan and drum speeds and the pressure in the singling system to ensure smooth sowing.

Checking the stripper position

The operator terminal also shows you whether the strippers in the centralised singling drums are correctly set. A signal is received from optosensors which detect multiple seeds or gaps on the holes of the centralised singling drums.
An alarm message is also received via the AMATRON 3 if the holes are not filled with seed because the air pressure has been set incorrectly, or if a sowing coulter is blocked with soil.

Job management

The terminal features job management (Task Controller) and coupling to the automatic field-related documentation (ASD).

Once you have started a job, AMATRON 3 saves the applied seed and fertiliser rates, the size of the sown area, the sowing times and the average output/hour.

✓ Optionally available reversing camera

Camera systems help in unsighted situations and contribute to safety on the machine. This applies both on the road and when manoeuvring. The camera system offered by AMAZONE has high-quality components. The adequately sized monitor provides a clear, glare-free display.

Designed for performance without compromise

High output

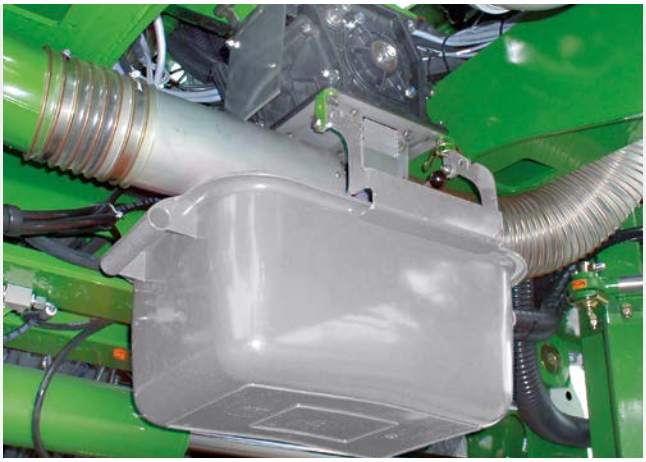
Both the high work rate of the EDX precision air seeders and the considerably reduced set-up and turn-round times provide an increase in output. End users confirm that the EDX has been designed completely for professional use and down to the last detail, such as the lid seals or lever adjustments.

Large, centralised seed hoppers

Quicker filling and emptying, quick seed change – the large centralised seed hoppers are easy to reach and quickly filled. This results in a further increase in efficiency. Furthermore, the hoppers have so much capacity that you can cover more hectares without stopping.

Filling auger

The hopper of the trailed 9000-TC can be filled directly from a front end loader without any problems thanks to the large opening. If desired, the machines can also be equipped with a filling auger.



Fertiliser hopper with a large capacity

The fertiliser hopper offers plenty of room with a capacity of 5,000 l. As a result, the stop times for replenishing the fertiliser and the time required to collect fertiliser are also reduced to a minimum. In all models, the fertiliser is fed to the fertiliser coulters via a metering cassette at the base of the supply tank and then conveyed via a pneumatic system to either one or two distributor heads.

Calibration in a very short time

Calibration tests for the application of precise fertiliser rates can be quickly carried out in combination with the AMATRON 3 operator terminal.

Quick centralised adjustment of the strippers

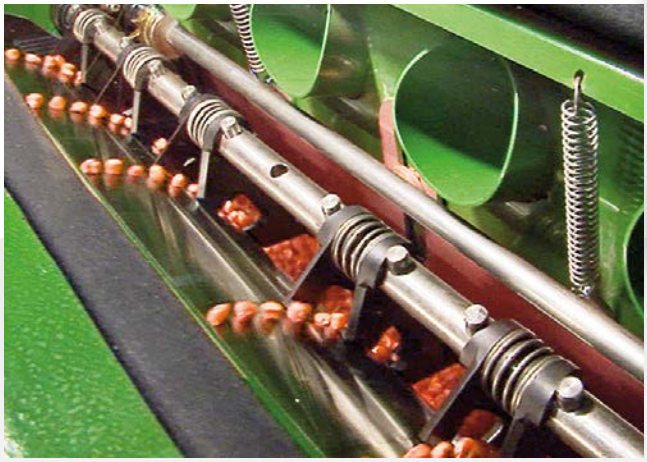
The strippers on the metering drum are no longer adjusted individually for each row but for all rows at the same time thanks to the centralised singling drums.

As an option, the strippers can also be adjusted via plus/minus buttons on the AMATRON 3 operator terminal whilst on the move. This means that any adjustments to the respective seed characteristics can be made very quickly and centrally.

Centralised coulter pressure adjustment

The centralised pressure adjustment for fertiliser or sowing coulters is provided via two separate hydraulic pressure systems in the basic level of equipment. You only have to adjust the respective valves on the machine.

For optimum adjustment, and as an option, the sowing coulters and fertiliser openers can be adjusted independently of each other from the cab using electric actuator motors via the AMATRON 3.



Stripper remote control

Remote control of the coulter pressure

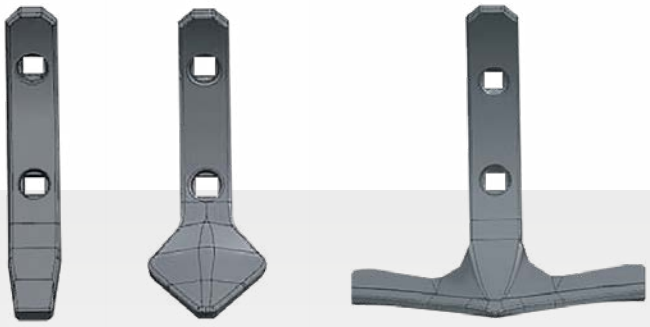
For even more output

Tractor wheel mark eradicators

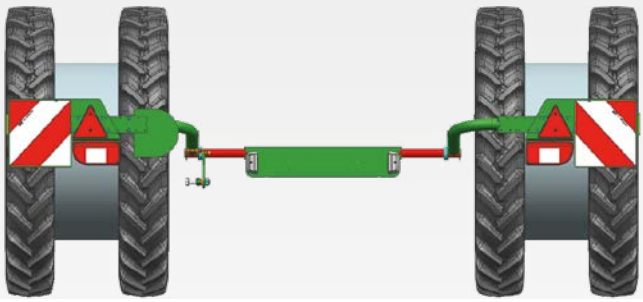
When working on heavy ground, tractor wheel mark eradicators are useful as they loosen the packed wheel tracks behind the tyres. The high-quality spring tine tractor wheel mark eradicator is equipped with a tension spring. A wing share or narrow share can be chosen to enable flexible use.

Seed drill wheel mark eradicators

The optional seed drill wheel mark eradicators are useful when working on compaction-sensitive soils. They loosen the packed wheel tracks behind the tyres of the seed drill. The position of the wheel mark eradicators can be adjusted horizontally and vertically. The wheel mark eradicator can be equipped with various loosening shares depending on the soil type and application of the machine. Overload protection ensures a constant trip force in all positions.



Narrow share, diamond share and wing share



The seed row behind the running gear tyres is not driven over when using the dual wheels on row spacings of 70 and 75 cm. The dual wheels counteract soil compaction, which causes delayed plant growth especially on heavy and wet soils.

All EDX precision air seeders can be folded up to a 3 m transport width for road transport in next to no time thanks to an ingenious folding mechanism.

Running gear and road transport

The running gear of the trailed EDX 9000-TC is provided with oversized tyres 700/50-26.5, an air braking system and is approved for transport speeds of 40 km/h.

In-cab control of the Vario-gearbox

With the remote control for the Vario-gearbox, you can electronically adjust the fertiliser rate in the EDX 9000-TC via the AMATRON 3 without getting off the tractor.

LED lighting

LED work lights on the fertiliser hopper and LED individual coulter lighting are available as a special option for better illumination of the coulter frame. As a result, the lift and drop points are also easy to find at night.

Toolbox

Up to two boxes can be mounted on the frame of the EDX 9000-TC for transporting additional metering drums. The boxes provide a dry and user-friendly solution for transport of the metering drums.

Tool box for an additional metering drum

FDC 6000 Fertiliser Delivery Cart

Accurate and reliable application of liquid fertiliser directly when seeding

FDC 6000 with EDX 9000-TC precision air seeder

Amazone offers a practical solution for liquid fertiliser application during seeding in the shape of the FDC 6000 Fertiliser Delivery Cart. This additional pairing, with a tank capacity of 6,000 l, is simply hitched between the tractor and the air seeder.

FDC 6000 with EDX 9000-TC precision air seeder

The best plant growth right from the beginning of the growth phase

The primary areas of application for the FDC Fertiliser Delivery Cart are in arid farming areas, in which the application of granular fertiliser is at its limits. The liquid fertiliser is delivered directly at the sowing coulter as starter fertilisation.

Advantages of liquid fertiliser application:

- Increase in the plant growth right from the beginning of the growth phase thanks to faster availability
- Reliable plant growth even at cold temperatures, thanks to better usability
- Reduction in the plant protection agent usage owing to a decrease in weed pressure
- Water-conserving, since the fertiliser does not first have to be dissolved to be available to the plants
- Higher yields thanks to positive seedling development

High level of flexibility

The FDC 6000 Fertiliser Delivery Cart can be used in combination with the Primera DMC, Condor and Citan seed drills or the EDX precision air seeder. A pairing of the FDC Fertiliser Delivery Cart and a seed drill with its own granular fertiliser tank even allows for the application of liquid fertiliser and mineral fertiliser in parallel in a single pass.

The FDC Fertiliser Delivery Cart can be combined with these seed drills:

EDX 9000-TC precision air seeder

Primera DMC direct seed drill

Citan seed drill

Condor 12001-C/15001-C direct seed drill

FDC 6000
Additional pulling power requirement of 50 hp

FDC 6000 with 6,000 l tank capacity

Two 300 l fresh water tanks

Large-capacity liquid fertiliser tank with a tank capacity of 6,000 l – for high output levels

The FDC Fertiliser Delivery Cart consists of two liquid fertiliser tanks, each with a capacity of 3,000 l and two fresh water tanks with a capacity of 300 l each. At an application rate of 60 l/ha, one tank is sufficient for 100 ha, which corresponds to a complete day shift on large farms. The two liquid fertiliser tanks have as standard fill level indicators so that the driver can always monitor the fill level. All the tanks can be safely accessed from a working platform and have a large tank opening.

Chassis and drawbar Easy coupling and uncoupling

The weight is optimally distributed over the ground via the large 800/45/26.5 tyres, so that the soil is protected. Depending on the requirement, the trailed Fertiliser Delivery Cart is attached to the tractor via a lower link cross shaft of Cat. 3, 4 or K700, a drawbar eye or a ball point coupling, and in the same way at the rear, where the trailed seed drill is hitched. The drawbar has additional ballast weights as standard equipment to achieve optimal weight distribution and to improve the traction of the tractor.
For easy coupling and uncoupling, the drawbar is equipped as standard with a hydraulic cylinder for aligning the machine, as well as a hose rail.

Good manoeuvrability on the headland to drive pass-on-pass

Technical data

	FDC 6000
Transport width (mm)	3,270 (with tyres 800/45 26.5) 3,000 (with tyres 700/50 26.5)
Transport height (mm)	2,990
Transport length (mm)	6,150
Tank capacity (l)	6,000
Tank capacity (l) fresh water	600
Additional power requirement (kW/PS)	37/50

Fast filling at 500 l/min.

Easy-to-use control panel on the FDC 6000 for reliable application

Metering: Comfortable & precise

The FDC Fertiliser Delivery Cart is equipped with a speed-related spray fluid pump which allows for very accurate metering of application rates between 40 and 300 l/ha. Accurate control is achieved by the AmaSpray^{+} operator terminal. The Fertiliser Delivery Cart is filled by a separate, motor-driven filling pump with a filling rate of 500 l/min.

Easy-to-use control panel with a high level of operating comfort

The liquid circuit is very easily operated using the control panel on the left-hand side of the machine, which is already familiar from the AMAZONE crop protection sprayers. Suction and pressure filters in the liquid circuit remove impurities in the liquid fertiliser and ensure high application reliability.

Placement on the sowing coulter: Direct and reliable

The liquid fertiliser is pumped through hoses to the coulters on the seed drill and delivered directly through a special outlet on the sowing coulter. In order to prevent dripping at the headland, each outlet is equipped with its anti-drip diaphragm. Each outlet also has an appropriate metering disc depending on the application rate.

Profitable results in practice

Application results from (season 2018) in Russia show the difference. The plant development with the support of AHL liquid fertiliser was clearly better than in the areas without AHL. The bright green colour of the plant is an indicator of good nutrient supply.
The plants with AHL fertilisation also show much more advanced plant growth.

Without AHL fertilisation

With AHL fertilisation

Left with AHL fertilisation, right without AHL fertilisation

Technical data

Technical data: EDX

Model	EDX 9000-TC
Working width (75 cm row spacing)	9 m
Transport width	3 m
Forward speed	8 to 15 km/h
Fertiliser hopper capacity	5,000 l
Seed hopper capacity	2 x 400 l
Number of sowing units (75 cm row spacing)	12
Possible row spacing (cm)	44.9 (45), 50, 70, 75, 80
Maximum number of sowing units with under-root fertilisation	20
Power requirement	from 180 kW / 250 hp
Minimum electrical power requirement	12,5...13 V / 30 A (tractor alternator >150 Ah)
Minimum hydraulic power requirement	120 l/min at 190 bar
Requisite hydraulic connections	2 double-acting + 1 single-acting with pressure-free return flow

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 have to be checked. Not all the listed combination options are possible with all tractor manufacturers.

AMAZONE

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