



Ceres 400 four-row fully mounted planter



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Ceres 400, four-row fully mounted planter

From start to finish, the Ceres series of planters was designed and produced in-house by the AVR team. These planters have been developed with the current market in mind, meaning that they are fully adapted to your needs. Typical features include reliability, precision, user-friendliness and a perfect ridge formation.

■ Accurate planting in less than no time

The planting element is a model of precision and reliability. Two times 20 cups mounted on the cup belt ensure a continuous precision at high planting speeds. Also at higher driving speeds, the planter operates relatively calmly. The large upper drum ensures stillness at the top side, the small top roller at the bottom side, and the slightly tilted position of the planting element guarantees an accurate placement (also on inclines).

The cup belt can be tightened easily by turning spindles to augment the spring tension.



■ No misses, no doubles

Thanks to its ingeniously shaped cups and electrical agitators, the planter does exactly what it is expected to do: deposit 1 seed potato every x (set) cm. No more, no less. A miss detection system keeps an eye out for possible mistakes and produces an alarm in the tractor in the event something goes wrong, giving you ample time to intervene.



■ KEEN & GREEN:

In the hydraulically driven planter, the pulse sensors in the wheel and planting channel are the same. This means that it is always possible to plant. Set a fixed speed on the screen, and the machine is ready to go. 100% reliable.



■ **Plant larger volumes and save time**

The default bunker of the 4x75 cm (4x90 cm) Ceres 400 has a 1.4 tons (1.6 tons) capacity. When the optional extensions are installed, this capacity augments to 1.9 tons (2.1 tons). Alternatively, a hydraulic tipping bunker with a 1.9 tons capacity (2.1 tons for the 4x90 version) can be opted for. You can choose for an automatically tilting version so the planting channels never fall short of seed potatoes.

■ **For all types of seed potatoes, small and large**

The adjustable planting channel allows for working with all sorts of seed potatoes. It only takes mounting another cup belt and adjusting the channel to prepare the planter for the next challenge. The table offers an overview of the existing AVR cups.



	Seed potatoes	
	Standard (green)	Large (gray)
Standard cups	30-60 mm	40-80 mm
Reducing cups	25-40 mm (dark green)	30-60 mm (black)



Perfect bed preparation & ridging



■ A tight ridge formation...

After planting, the plant furrows are meticulously covered by means of covering discs, the working width and pressure of which can easily be adjusted. To immediately obtain a well-formed ridge, a ridging hood can be mounted. By default, an automatic pressure control with an accumulator is mounted on the ridging hood, making it possible to set the ridge pressure from the operating screen.

A PDC (Proportionally Distance Controlled) system can also be opted for. This system measures the amount of soil in the ridging hood and makes the necessary adjustments when needed.

■ ... or rather a loose structure?

In lighter soils, ridge formers and cage rollers can be used. These create full ridges that are sufficiently loose for an efficient water management and gas exchange.

■ KEEN & GREEN:

To avoid erosion you can mount an anti-erosion option on planting machines. Hydraulic shovels move up and down, and create little piles of soil between the ridges.





■ Soil preparation, planting and ridging in one go

Soil bed preparation in front of the tractor, and planting and ridging at the back. The AVR Multivator cultivator for front mounting, ensures a perfectly crumbled planting bed. The noses in the full width kit press the loose soils in beds, which means a tractor with rowcrop wheels can be used to plant in non-cultivated soil.

When compared to a power harrow, a front cultivator ensures better crumbling, less smearing and a lower fuel consumption. By default, the Multivator is equipped with a 3 speed gear-box and a front rod roller. Using the necessary conversion components, the cultivator can also be used as a rear full width cultivator.

Mounting everything at the rear is also an option. Do you have a powerful tractor available? In that case, an AVR Compact III with hydraulic subsoiler tines, a Ceres 400 mounted on the top and a ridging hood at the back can be opted for. This ensures the potato will always be positioned perfectly in the middle of the ridge, even on sloping terrains. A stable drive and an enforced frame allow for carefree planting.



■ QUOTE:

Michiel Nys: "This combination is a joy to work with."

Even more in one working passage...

■ Even more in one working passage...

Horstine granular applicator

The Horstine granular applicator can be used to apply all well-known granules. The granular applicator is mounted neatly on top of the Ceres. The dosing quantity depends on the width of the rotor disc (3 - 6 - 8mm) and the rotating speed.

When the calibration is finished, the desired kg per hectare can easily be set using the operation screen.



ZIBO powdering unit

The powdering unit ensures a safe and dosed protection of the tuber.



Delvano spray set

We also offer a spray set of the Belgian manufacturer Delvano. A 400L tank with pump unit for the front lift, tubing and 3 spray nozzles per row is neatly mounted behind the soil opener.

The system can be operated from the CERES computer. A speed dependent dosing quantity corresponding to the set liters, spray nozzles and section control can be opted for.





■ Precision farming

AVR has prepared the computer to receive (on/off) GPS signals. Using this function – and provided that the GPS system is equipped with the necessary modules –, the activation and deactivation of the planting elements on the GPS line, the deactivation of the planting elements in the spray tracks, the spray set, etc. can be controlled by means of the GPS.



■ Easy operation

The Ceres planter is operated by means of a modern touchscreen with clear icons. The control box can be configured as per your request and comes with an extensive memory module for saving machine settings and parcel data.

	Ceres 400
Pulled / mounted	Mounted
Number of rows	4
Bunker capacity	1.400 to 1.600 kg (optional)
Hydraulic tipping bunker capacity (optional) (4x75 - 4x90)	1,900 - 2,100 kg
Drive	Mechanical or hydraulic
Inter row distances	4x75 - 4x80 - 4x85 - 4x90
Plant protection options	Granular applicator - powdering unit - spray kits

■ KEEN & GREEN:

Optionally, a joystick can be installed for operating the most common functions, making the work much more comfortable.





Our KEEN & GREEN quality label indicates that our machines are equipped with techniques that promote durability and ease of use.

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GREEN**

■ **KEEN**

AVR never stops innovating and designs smart machines that make your work life easier and allow you to maximize your profits.

■ **GREEN**

Our machines are not only called green because of their striking color, but also because of their durability. The machines consume as little fuel as possible, and their solid construction ensures a very long lifespan. This means you will have recovered the costs of your investment in no time.



AVR bvba, with head office in Roeselare, Belgium, produces a comprehensive selection of sophisticated machines for the potato industry (and other bulbous and tuberous plants). This includes planting bed preparation, planting, ridging, haulming, harvesting and hangar storage. Our mission is to make sure that more marketable products end up in the hangar using less input. So as to be able to offer you optimal support, we invest for instance in an extensive dealer network and a strong service department. AVR employs about 130 employees internationally, has a network of 105 dealers and had a turnover of 48 million euros in 2014.



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