



Esprit Double-Row Harvester, in-line or off-set options



KEEN &
GREEN

A harvester with character

The AVR Esprit is a double-row harvester for in-line or off-set harvesting. The Esprit features a number of sophisticated solutions that avoid a lot of harvesting issues. In addition, the Esprit harvester has an advanced elevator with active side walls and the machine is completely modular in assembly.

■ Benefits Of Off-Set Harvesting

In certain circumstances, the drawbar can simply be moved hydraulically which results in an off-set harvester. Subsequently, the tractor can be equipped with wider tires.

The benefits become clear very quickly:

- more traction and less tracking depth due to the wide tires,
- the ridges are no longer damaged due to the fact that the tractor no longer drives through it,
- the soil is no longer compacted by the harvester so that the sievability remains intact.

The steering problem that would occur because the tractor has to drive next to the ridges is solved by the automatic steering system that takes over control completely. The machine can be controlled and operated perfectly without jeopardizing the ergonomics.



■ KEEN & GREEN:

- Less damage thanks to a lower fall height.
- Less damage thanks to less contact with metal
- Higher filling factor



Sophisticated harvesting concept

■ Ingenious Elevator

The elevator is fully focused on capacity in combination with the careful handling of potatoes. The elevator consists of two parts. First, the potatoes flow over a cross conveyor without flights that provides for a less abrupt change of direction and sieves loose soil at the same time. The second part consists of the elevator that transports the potatoes upwards with flights. Additionally, the elevator is equipped with 'active' side walls. The side walls of the elevator move along with the elevator as a result, the potatoes cannot rub against the edges in the flights.

The flights are made out of canvas cloth so that the potatoes touch the metal less. The bottom side is completely clear. The elevator is able to place the potatoes directly on the ground for the purpose of windrow harvesting.

■ Haulm Separation

The Esprit can be equipped with different haulm separation systems. The system with the haulm web is the best system in long haulm and causes less damage to the potatoes. Each embodiment of the Esprit can be delivered with this system. The ideal system for high capacity, perfect separation and very minimal damage. The size of the loss can be adjusted depending on the potato sorting and amount of haulm. Furthermore, the machine can be designed with single or double haulm rollers. These haulm rollers can efficiently separate short and long haulm from the flow of potatoes. A haulm roller can be combined with the haulm web to separate long haulm and haulm remains perfectly.



■ Modular Assembly

The Esprit is completely modular in assembly. In actual practice, this means that multiple cleaning units can be built into one frame. Consequently, the machine is easy to adjust to the different growing and harvesting circumstances. Soil type, humidity of the soil, variety, haulm destruction, rocks in the soil and many other things play a role in the selection process. This modularity is a true advantage to be able to use the machine worldwide. Axial rollers are available for heavy ground, a haulm web for long haulm, and a pintle belt for vulnerable potatoes. In case of off-set harvesting in wet conditions, it would be best to use a digging web for extra capacity. Nearly all options can be combined!



Esprit TT



Esprit GTT



Esprit GMCTT



Esprit GMCRET T



Esprit GCR



Esprit GRTi



Esprit GRTiMC

■ Digging web (G)

The esprit can be equipped with numerous cleaning units. It starts with the choice between a digging or sieving web. A digging web creates a substantial increase in sieving capacity. However, in very light soils, it may be desirable to keep soil in the machine. Then, it is better you opt for a long sieving web.

■ Haulm web (MC) or Haulm roller (RE)

For haulm removal, you can choose between a haulm web or haulm rollers. Depending on whether you want to harvest in green haulm, or if you want to top haulm or not...

■ Pintle Belt (TT) / Cross Rollers (CR) / Axial rollers (RTi)

In terms of the type of cleaning, you have the choice between a pintle belt, axial rollers or a cross roll set. For the largest capacity in loose soil and fine haulm, choose the pintle belt. If there are also clods and stones present, then the CR-module might be the solution. For heavier soil types and harvesting in wet conditions, axial rollers are a suitable solution.

The Esprit combines state-of-the-art technologies with inventive separation and cleaning technologies, the result of which is an optimal harvesting quality and a high capacity.

Ergonomics and economics

■ Clear Harvesting Process

The unique asymmetrical frame provides for a perfect view on the harvester from the tractor. You can follow the entire harvesting trajectory, from uptake to deposit in the cart. All hydraulic and electrical components have thereby been eliminated on the side of the machine.

In addition to practical comfort during maintenance and repairs, this also promotes the design of the machine. This is a nice machine to work with in every respect.

■ Digging Unit

Wide uptake, larger haulm intake rollers and plastic diabolos are characteristics of the known AVR digging unit. The central depth setting with a simple spindle alleviates the work and provides a more accurate setting of the harvesting depth. The automatic steering system with pivoting diablo ensures that the ridges are followed perfectly, especially in case of off-set harvesting.

■ Control Joystick

A simple operation without actions that are too complicated and yet very practical: this is what every user wants!

The joystick, which comes standard with every Esprit, unites all regular actions.

You establish the settings once on a separate control console. A mounting bracket is delivered with the machine.

The Esprit is equipped with a CAN-bus system that allows for all (optional) machines to be switched on and off and to be set accurately, such as:

- automatic control
- automatic slope correction,
- automatic reset steering wheels
- automatic counter pressure control





■ Automatic Control on Diabolo Rollers



■ CAN-bus operation with joystick and control box



Standard:

- control box and joystick
- possibility for in-line and off-set driving, interchangeable via hydraulics
- swinging digging unit
- plastic diabolos, spring discs
- hydraulic land leveling, drawbar control and wheel control
- pressure relief with battery and manometer
- 3-speed gear box on main webs
- two-part car transporter with variable speed, active side walls, quality-friendly paneling without rods, 900 mm wide
- haulm removal without haulm fall-through web or haulm rollers
- shaking system at your discretion

Options:

- automatic control via drawbar during off-set driving
- choice between one long main web or a digging web and main web
- own hydraulic system to drive agitators, axial rollers or pintle belt
- onion picking unit
- hydrostatic wheel drive
- automatic leveling
- cameras

Modules:

- pintle belt
- roller table
- cross rollers
- all can come with a haulm web and/or haulm rollers

Technical Specifications:

Dimensions (lxbxh)	0.9 x 3.30 x 3.80 m
Inter row distance	75 - 90 cm
Discharge height	from 0 tot 3.8 m
Weight	from 6.250 kg
Tire size left side	standard 550/60-22.5 option 600/55-26.5
Tire size right side	16.9 R 30



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



■ 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.



www.avr.be

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