



# Esprit 2-row elevator harvester, in-line or off-set





## The AVR Esprit: a new technique of harvesting!!

No doubt that AVR introduces a new age of harvesting with its new trailed elevator harvester, the Esprit. Offset harvesting with a trailed elevator harvester is a new technique, which has never been put into practice up till now. You could rightly claim the original in-line character of the Esprit, but it is simply more than that! This machine benefits from a multitude of solutions to solve a great deal of the disadvantages that are so typical of potato harvesting techniques. For instance: offset harvesting avoids driving in between the ridges in extremely wet conditions, which means more capacity and less damage. The Esprit: a unique harvesting method in the potato sector.

Innovative: the Esprit is entirely modular. It is up to you to choose out the module you need for your conditions. With the Esprit, you can adjust your machine to your conditions!



## Offset harvesting

The Esprit is basically a trailed in-line elevator harvester, where the wheels of the tractor move between the potato ridges. Nevertheless, no problem to convert your machine into an offset harvester by shifting the hydraulic drawbar. This can be done in no time when you are operating in a demanding working environment: in this case the tractor can be equipped with broad tyres.

Advantages in profusion: more traction and less risks to suffer potato damage, among other things as the tyres of the tractor do not drive anymore between the potato ridges but next to them. Other advantage: the earth in front of the machine is not compressed anymore by the tractor. As a consequence, it is a lot easier to sieve it.

Steering problems as the tractor now moves next to the ridges, is over and done, thanks to the automatic steering system, i.e. an equipment that moves the harvester exactly between the ridges. Consequently the driver can continuously look to the right in order to keep control of the unloading process. You control your harvester at any moment, without losing track of the ergonomics. In a nutshell: the Esprit is a machine you can truly be proud of!

## Modular design

The Esprit is fully modular. This means that several cleaning and separation units can be incorporated into one single frame. Once more, this implies the Esprit can very easily be adapted to the multiple working conditions: field conditions, degree of humidity, type of potatoes, haulm stripping conditions, quantity of stones etc... It goes without saying that all these assets are incontestably necessary to be able to use this harvester throughout the world.

The Esprit secures you the offset advantages to operate in difficult and moist grounds. Moreover, you take advantage of a digging belt to guarantee better and more crop benefits. And the fact that you can combine almost all the different options into one single frame really beats the lot!





## Ingenious elevator

The elevator of the Esprit is completely aimed at increasing the capacity. Of course, without exposing to any danger the gentle treatment and quality of the potatoes! The elevator consists of two parts: first of all, the transversal belt without flights, which guarantees less brutal direction changes and at the same time sieves the remaining loose earth. Then comes the elevator, which is equipped with flights. These two elements aim at increasing the harvesting capacity and minimizing the damage to the potatoes while harvesting. The drop height is kept as low as possible. In addition, the elevator is equipped with active sides that move along with the product flux. As a consequence, the potatoes in the flights never rub against the edges. This is once again an advantage for the benefit of capacity and quality! Furthermore the flights are made of canvas. This means less contact with steel surfaces and once more less risk of any damage. The bottom is entirely free. The elevator can also leave the potatoes directly on the field (e.g. in case of swathing).

## Excellent view

The asymmetric frame is beyond compare and enables you to see any part of the harvester at a glance. In other words: you see everything at once while sitting in the tractor cab. This means you can supervise the machine from the product intake up to the trailer. Furthermore, all its hydraulic and electric parts are situated at the side, which is very convenient in case of maintenance or repair. In short: the Esprit is no matter how a very nice harvester, an attractive working tool to harvest with.



## Separation

In order to come up to the numerous requirements of the large-scale commercial potato growers and contractors, the Esprit can be delivered with the following separation units:

- Pindle belt
- Axial rollers
- Cross rollers
- Picking table

In addition, each harvester can be fitted with or without digging belt. We can also furnish a whole lot of shaking systems: eccentric shakers (hydraulically driven or not), balance shakers and various combinations of these two possibilities. Interesting to know is that you can switch on or off all these units separately and adjust the shaking intensity as you wish.



## Haulm separation

You can equip your Esprit with various systems to evacuate the haulms. The haulm web is unquestionably the best solution in case of long haulms (less damage to the potatoes). This haulm web can be furnished with any model of the Esprit. We recommend you this solution to obtain high crop results, a perfect separation and a minimum of damaged potatoes. The separation intensity can be adjusted according to the sorting demands and the haulm quantity.

The Esprit can also be equipped with double or single haulm rollers, thanks to which you will be able to separate the haulms from the potato flux. At last, haulm rollers and haulm web can be combined in order to obtain an even better removal of the long haulms and the haulm remnants.

## Steering aids

When the harvester is in offset mode, it is important for the ergonomics of the driver that the machine can automatically find the correct way. Two devices stand in for this. First the automatic steering on the diabolo. In the second place you also have a warning device with light signals on the right side of the harvester, which tells the driver when the tractor moves too close to or too far from the ridges. This steering aid enables the driver to concentrate only on harvesting. We know by experience that there will be no problems at all to follow the potato ridges and that its offset use will demand no extra effort from the driver on the tractor.

## Joystick control

Easy to control. No complicated interventions. And still very convenient. This is the threefold wish of anyone driving a potato harvester. We can promise you this service thanks to the joystick (as standard on every Esprit). All the frequent commands and controls can be activated by means of this joystick. The non-recurrent regulations are carried out with the control box, which can easily be fixed in the cab. Controlling your harvester has become a piece of cake!

The control box (Can - Bus) enables you to regulate, start and stop the different automatic functions: automatic control, automatic correction of the inclination and automatic control of the digging depth.



Ergonomic steeringkit with automatic steering



CAN-BUS Control with multipurpose joystick and control-box

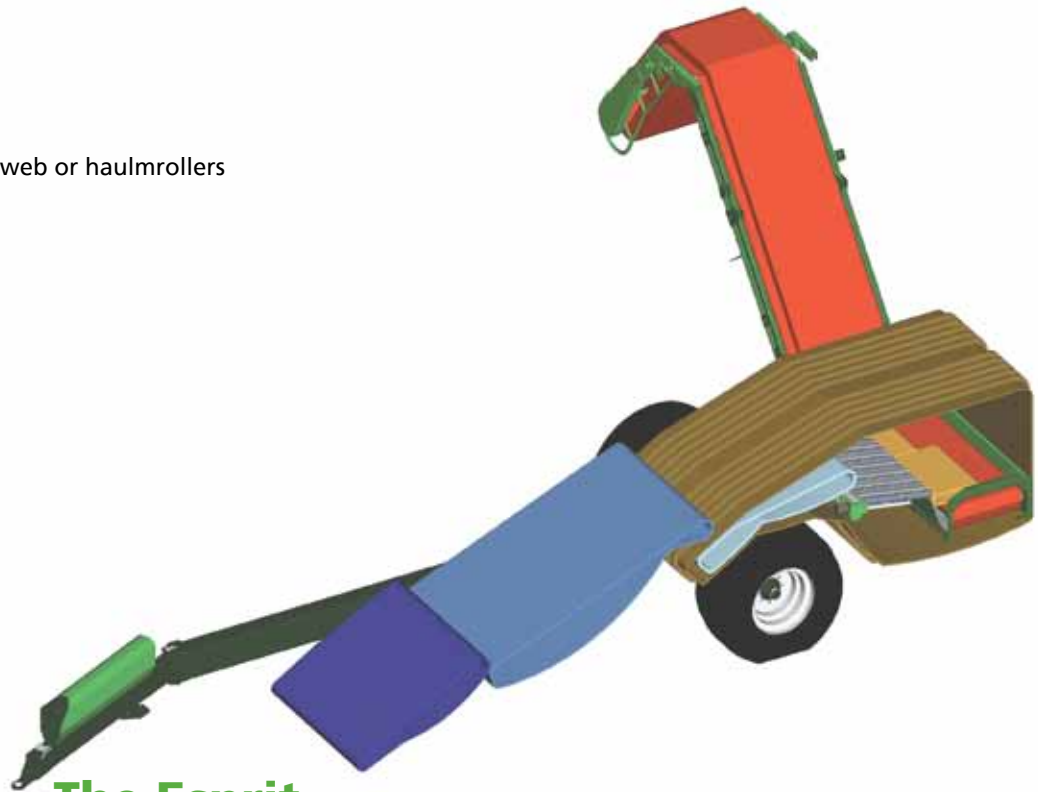


## Units:

- Pintle belt
- Axial roller table
- Cross rollers
- Picking table
- Most units can be combined with haulmweb or haulmrollers

## As standard:

- Control box and joystick
- Possibility to harvest in offset mode or in line (hydraulic drawbar)
- Oscillating digger unit
- Synthetic diabolos, spring-loaded discs
- Hydraulic land-levelling, hydraulic command of drawbar and wheels
- Pressure relief system with accumulator and manometer
- Gear box (3 gears for sieve belts)
- Elevator with variable speed regulation, active side sheets, flights made of canvas, no bars, width: 1050 mm (resolutely for the benefit of quality and productivity!)



## The Esprit

Version with axial cleaner rollers, haulmweb and digging unit

## Options:

- Short digging web and sieving web in stead of one long sieving web
- Automatic steering via drawbar in case of offset mode
- Ergonomic kit offset harvesting
- Haulm removal with haulmweb or haulm rollers
- Warning system with light signals steering cylinder extreme deviation
- Own hydraulic system to drive shakers, axial rollers or pintle belt
- Onion kit
- Carrot kit
- Hydrostatic wheel drive
- Automatic land-levelling
- Cameras

## Technical Specifications:

Dimensions(lxwxh)	10,9x3,3x3,8 m
Rowdistance	75-90 cm
Discharging Height	from 0 cm till 3,8 m
Weight	6.250 kg
Wheels and tyresleft as standard	550/60-22.5, option 600/55-26.5
	right 16.9 R30

## AVR

AVR has, for years now, been a leading and trend-setting supplier of equipment in the domain of the potato production. Great emphasis is placed on seedbed preparation, rotary cultivation, haulm topping and potato harvesting. Nevertheless, it goes without saying that AVR provides similar services for other tuberous plants. AVR has made its mark in this industry thanks, mainly, to continual product innovation and its close collaboration with end users. This is why we are able to produce equipment that is market-oriented. We deliver machines that are expressly tailored to suit the needs of the modern arable farmer. As a consequence, we help them optimise their operating yield



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