



Lynx Two-row harvester, in-line or offset



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Smooth harvesting

The AVR Lynx harvester is uniquely positioned on the market. This two-row harvester can both be used for in-line and offset harvesting. Three types of cleaning modules are available: pintlebelt, Varioweb and cross rollers. The machine is fully hydraulically driven. A number of well-considered adaptations allow for even smoother harvesting. The Lynx is equipped with wide tires, which guarantees a low soil pressure and easy towing of the machine.

■ Control joystick

The joystick, which is installed by default on every Lynx, unites all regular actions. The harvesting settings can easily be adjusted using the touchscreen (incl. mounting bracket). Most components can be controlled hydraulically from the tractor: steering wheels, machine level, digging unit up/down, hydraulic digging unit depth (option), (automatic) drawbar steering, Varioweb in/out, pintlebelt inclination, elevator cylinders, emptying the supply belt and elevator, inclination of the axial rollers (option).



■ Advantageous offset harvesting

When needed, the drawbar can easily be shifted hydraulically, creating an offset harvester. In that case, the tractor can be equipped with wide tires:

- Advantageous harvesting, also in difficult conditions.
- Gentle for the soil: more traction and less tracking depth thanks to the wide tires.
- The ridges no longer get damaged as the tractor does not drive across them anymore.
- The soil in front of the harvester remains light (no clods), keeping it easily sievable.

Thanks to the automatic drawbar steering (default), the steering is completely taken over. This assures a perfectly ergonomic way of controlling and steering the machine.



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- Less soil sticking thanks to plastic diabolos.
- For ridge or bed harvesting, half diabolos can be opted for.



■ Clear harvesting process

The AVR digging unit is characterized by its wide intake, large haulm intake rollers and plastic diabolos. The central depth setting can be adjusted using a simple spindle (optional hydraulic depth setting via display). The oscillating digging unit and the automatic row following system ensure that the ridges are followed meticulously, especially in case of offset harvesting.

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 car. All hydraulic and electrical components have thereby been eliminated on the side of the machine. Thanks to the digging unit's open construction, the crops are transported smoothly. The long harvesting shares ensure that for instance haulm can pass below the harvester more easily. 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.



Three different cleaning modules

The Lynx is constructed modularly, which means that for one frame, three types of cleaning modules can be opted for. Because of this, the machine can easily be adjusted to the applicable growing and harvesting circumstances. For heavy soils, axial rollers (in Varioweb) can be opted for. The advantage of this configuration is that for vulnerable potatoes or easily sievable soil, the axial rollers can be taken out of the product flow. If no axial rollers are needed, the cleaning module can be replaced with a rubberized rod belt.

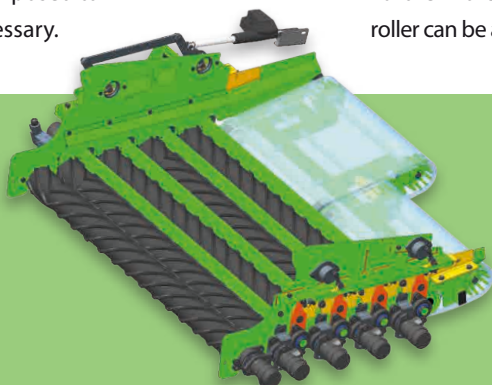
■ Varioweb

- Pintlebelt/axial roller set combination.
- Axial rollers: 18 rollers (easily replaceable), 825 mm length, 76 or 82 mm diameter; in rubber spiral rollers, steel plain rollers or rubber plain rollers.
- Hydraulic adjustment of the roller table (forwards/backwards).
- The roller table's inclination can be adjusted hydraulically (the inclination can be adjusted hydraulically by default).
- Comfort option: "Automatic Roller table": Position reading of the axial roller set shown in the display (via angle sensor on the VW tensioning system) + roller table inclination correction. On sloping terrains, the roller table's angle is adjusted automatically to the parcel's inclination, so the cleaning intensity remains the same and the potatoes are not exposed to the axial rollers longer than necessary.

Depending on the soil type you are working on, you can indicate in the screen whether more or less cleaning is required by adjusting the roller's position and inclination. These settings can also easily be saved in the display so as to be able to change them quickly depending on the harvesting conditions.

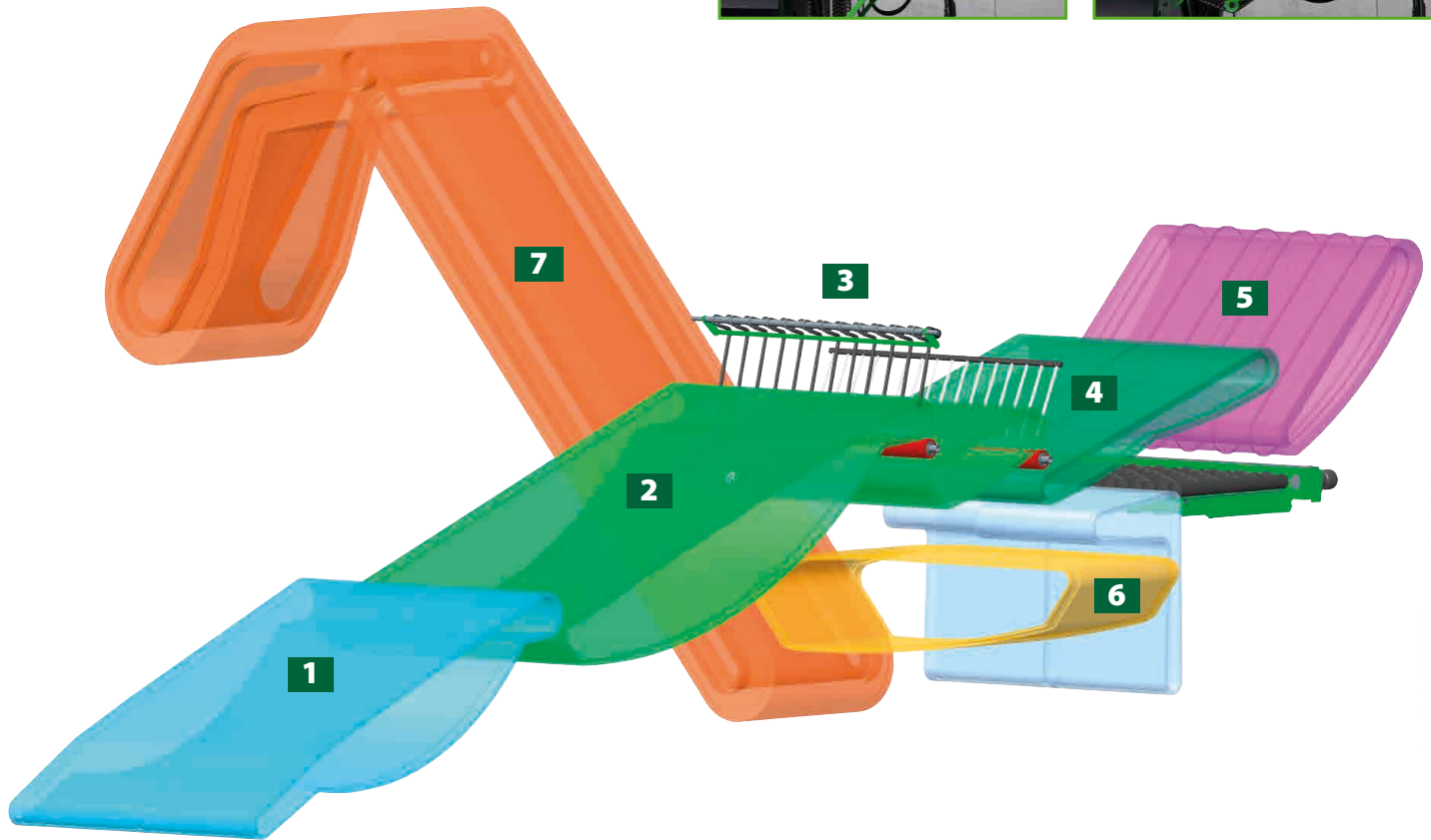
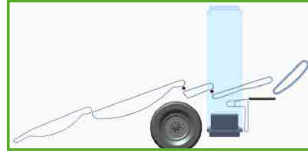
■ CR module

- Pintlebelt/cross roller set combination.
- 5 segmented spiral (turbine) rollers with adjustable speed (all rollers have the same speed).
- 4 plain rollers with adjustable speed and rotating direction (separately adjustable per roller).
- Furthermore, the position of the plain roller in relation to the spiral roller can be adjusted electrically for a more or less intensive cleaning.

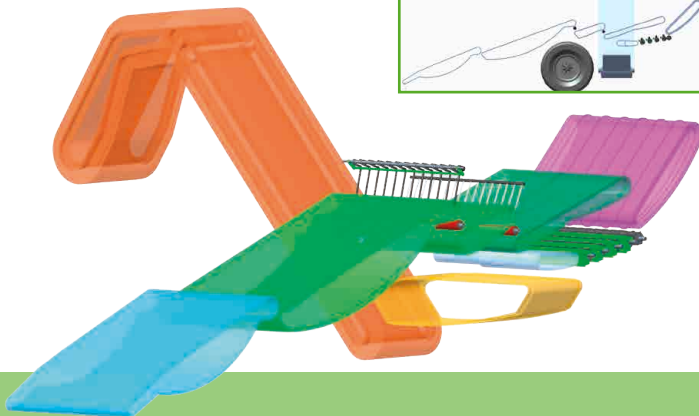


Three different cleaning modules

■ **Module with Varioweb (axial rollers)**



■ **Module with cross rollers**



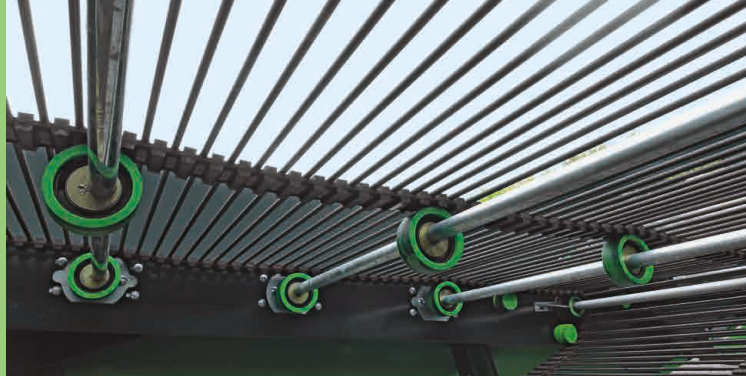
■ **Module with pintlebelt**



■ **KEEN & GREEN:**

■ Thanks to its modularity, the machine can be used all over the world.

Gentle potato flow



The total length of the harvesting channel is 1,650 mm

1. Digging web: 35-40-43-50 pitch and pitch-dependent PUR drive.

2. First and second sieving web: 35-40-43-50 pitch with 3 eccentric vibrators (11 mm) for extra sieving capacity, hydraulically driven together with the short, rubberized sieving web. Both sieving webs are equipped with a universal drive on the rods.

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Thanks to the universal drive, the webs can be changed quickly. Moreover, the web can slip when an unwanted object is blocking it.

3. Haulm separation: After both sieving webs, rubber haulm rakes with adjustable weights are mounted for setting the intensity.

Both haulm rake rows are followed by a single haulm roller that is directly driven hydraulically. These are robust and easily adjustable.

Optionally, these can be reversed for collecting onions, or their rotating direction can temporarily be changed to remove a blockage.

4. The supply belt that leads towards the pintlebelt is a soft, heavily rubberized web. This ensures sieved soil is carried off, preventing it from ending up on the supply belt/elevator.

5. The inclination of the pintlebelt (1,200 mm L x 1,650 mm W) can be adjusted hydraulically (35° - 55°) (optionally, the inclination can be adjusted automatically). The belt is equipped with a hydraulically counter-rotating roller. When the pintlebelt is fully lowered, the roller is raised to let any lumps pass. The U-profile with extra long haulm fingers ensures an optimal haulm processing. The rotating direction of the belt can also be reversed to prevent pollution of adjacent soil (e.g. eels), or for instance to load onions (less cleaning is required).

6. Transversal discharge belt: Rubberized rod belt for extra sieving and transport of the potatoes towards the elevator.

7. Elevator: Gentle upward transport towards the tipper.



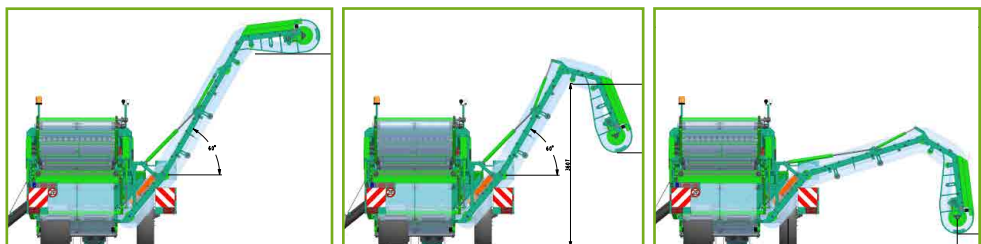
Optima forma non-stop harvesting, with side discharge

High-capacity elevator

The elevator is fully focused on capacity in combination with a careful handling of potatoes. It consists of two parts: a supply belt (without flights!) with coated rods and the elevator itself. These are finely tuned, allowing for a very smooth direction transition. As a rod belt (cam 40, 20 mm loss), the supply belt (850 mm) also sieves out loose soil. The elevator itself is covered with a canvas and equipped with "active", running side walls. This assures that while being transported upwards, potatoes only come into contact with rubber parts, not with non-moving components. The distance between the side plates measures 950 mm. The large drive wheel (Ø 370 mm) at the elevator top ensures a gentle rotation speed, also in case of a high capacity, causing the potatoes to land softly into the tipper. When using a 3.15 m tipper, unloading onto the loading floor is possible. The height for unloading is 0,24-4m.

Rear axle equipped with sensors

The rear axle (Colaert) has a steering angle of +/- 24° // level = +/- 4°. A sensor built into the adjustable wheel axle (right wheel) counts the hectares and measures the speed. The rear axle is also equipped with hydraulic brakes or air brakes (double line), a parking brake and an emergency brake (in case of hydraulic brakes). Thanks to the large tires, the harvester can easily be towed. Left tire: 650/65R30.5. Narrow right tire: 380/85R38 (track 75 and 90 are possible).



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- The supply belt's rods are well rubberized for a gently potato processing. Depending on the potato type (e.g. seed potatoes), thicker star-PVC can be opted for to obtain a smaller distance between the rods (option).



■ Automatic Control on Diabolo Rollers



■ CAN-bus operation with joystick and control box



Standard:

- 1,000 rpm PTO drive shaft
- Drawbar with fixed towing eye (ø 50 mm), with hydraulic side adjustment (with position sensor (feedback on screen)), driving shaft with wide-angle coupling
- Automatic hydraulic land levelling
- Road lighting and signalization / rotating light
- Pulled plastic diabolo
- Pulled, large spring-loaded discs (Ø 660 mm)
- Large haulm intake rollers (Ø 400 mm)
- Depth setting via rotating spindle; automatic row following
- Automatic
- Counterpressure control on digging unit (battery + manometer) (manual)
- One-piece share with height adjustment (580 mm between the discs)
- Hydraulic sieving web drive (driving speed dependent setting is possible)
- Joystick and 7" control screen (can-bus) in tractor (touch + buttons)
- Hectare counter, integrated in can-bus system
- Possible to save field settings, cleaning settings, ... (shortcuts)
- LED work lights (3 pcs, directed at the webs, pintlebelt and elevator)

Options:

- K80 ball coupling
- Axial rollers (inclination can be adjusted hydraulically)
- Position reading + inclination correction roller table
- Speed sensors: digging web, sieving web, webs 3&4, VW
- 2-part instead of 1-part harvesting share
- 3-part instead of 1-part harvesting share
- Removable central share
- Harvesting share along the full width
- Universal share holder with stone protector on share arms
- Extra cutting disc on the left
- Half diabolos
- Stainless steel plates in digging unit
- Automatic counterpressure control on digging unit
- Hydraulic depth setting digging unit
- Onion collection unit with foam rubber roller; 900 or 1,200 mm intake
- Carrot unit
- Automatic inclination adjustment pintlebelt (35° - 55°)
- Digging web: triangle agitators (hydraulically driven), solid axle with PUR rollers, steel nose rollers
- Sieving web: cleaning roller, solid axle with PUR rollers
- Transversal discharge belt towards elevator + canvas
- Mechanical shock absorber at elevator top
- Non-stop kit: left-rotating elevator supply belt, with slide
- Air brakes
- Cameras

Technical Specifications:

Dimensions (l x w x h)	12.7 x 3.3 x 3.99 m
Inter row distance	2x75 - 2x80 - 2x85 - 2x90
Required power	102 kW / 140 hp
Weight	8,500 kg
Maximum unloading height	4 m
Minimum unloading height	0,24 m



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

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■ **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 52 million euros in 2016.



www.avr.be

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