



Puma 3 Self-propelled, 4-row harvester



KEEN &
GREEN

The key to a good harvest is using the best technology



Once again the AVR Puma 3 demonstrates the series superiority on the market of self-propelled four-row harvesters. This hypermodern harvester is efficiency at its best and lifts harvesting to the next level with its more powerful Stage IV Volvo engine, extra cleaning capacity and higher traction.

■ Minimum soil pressure

The new Puma 3 is a robust machine that nevertheless remains reasonably lightweight with its 23,500 kg. The engine's mounting position ensures a proper counterweight for the elevator. This optimal weight distribution guarantees an equal load on the tires and a minimum amount of track forming.

■ The top of its class

The powerful 12.8 liter Stage IV Volvo engine delivers 469 hp, or 1 hp per 50 kg, making the Puma 3 the strongest machine in its class, which is noticeable in the field. Thanks to 30% more traction in the front and 15% more in the back, the Puma 3 can continue where others are forced to give up.

■ Road legal

The Puma 3 lives up to all legal requirements for driving on public roads. For additional safety, high power LED rear lights are provided!

■ Easy operation

The Puma 3 is extremely user-friendly thanks to its convenient touchscreen, the new AVR joystick and a quick-dial rotating button. The spacious cabin is very comfortable to sit in during long working days. The myriad of automatic functions, an optimal view of the digging unit and a large number of cameras mean that you can keep your full attention with the harvesting process.



■ Design in the field

Its compact build and low weight, combined with an extremely wide steering radius (50° at the front and 20° at the back), ensure a very high maneuverability. All components have a simple, yet very efficient design. When you enter the spacious cabin, you are ready for any harvesting job.



■ Oscillating topper

The combination of check and suction valves and the hood's specific shape cause a strong suction effect, which makes it possible to top any kind of haulm. The new type of flail has been specifically designed for long-haulm crops.



■ KEEN & GREEN:

Using the Truckspot indication system, you can communicate with the dumper driver.

The lower tire pressure offers a far better soil structure protection. This type of tire rolls more smoothly -> less power is required.

The engine's rotation speed is a mere 1,300 rpm -> Lower fuel consumption.

The most maneuverable four-row potato harvester



■ Maximum intake

The harvesting channels are 1,450 mm wide for the model with 4x75 cm rows (or 1,550 mm for 4x90 cm). With the pulled non-sticking plastic diabolos, the pulled cutting discs and the large haulm intake rollers, the digging unit ensures an unailing and very reliable potato intake. The ridge pressure can be adjusted under all circumstances, which means the ridges remain intact and all potatoes are removed from the soil.



■ ACC option: for optimal harvesting under all conditions

When you're dealing with clay soil, for example, instead of the normal front-end you can opt for the All Conditions Control (ACC). This front-end enables you to dig up the potatoes without putting the slightest pressure on the ridges (diabolo-free, because the diabolos hover above the ridges). This can be a great advantage under difficult harvesting conditions. The diabolos do remain mounted in the front-end, however, in order to ensure good insertion in dry conditions. You can opt to harvest with or without diabolos, depending on the circumstances.

The ACC front-end is a single broad front-end, with 8 large (900 mm) driven disks. The depth is adjusted by two corner sensors, which monitor the movement of two skids.

The diabolos can be mounted far enough away from the ridge so as not to press on the ridge, but nevertheless to facilitate the insertion, to break the crust if necessary and to serve as mechanical protection. The diabolo can be hydraulically controlled from the cabin, to regulate the depth.

■ KEEN & GREEN:

This four-row model has two two-row digging units that can operate independently. This means that two-row harvesting is perfectly possible as well!



■ QUOTE:

*Jacob van den Borne:
The Puma 3 is three times smarter:
less soil compaction, better fuel economy
and excellent operation.*

Puma 3, impressive strengths



4

POWERFUL -

Powerful Stage IV engine that will never fail you

CLEAR VIEW -

Luxurious Claas cabin with automatic functions and excellent view of the harvesting process

PRECISE -

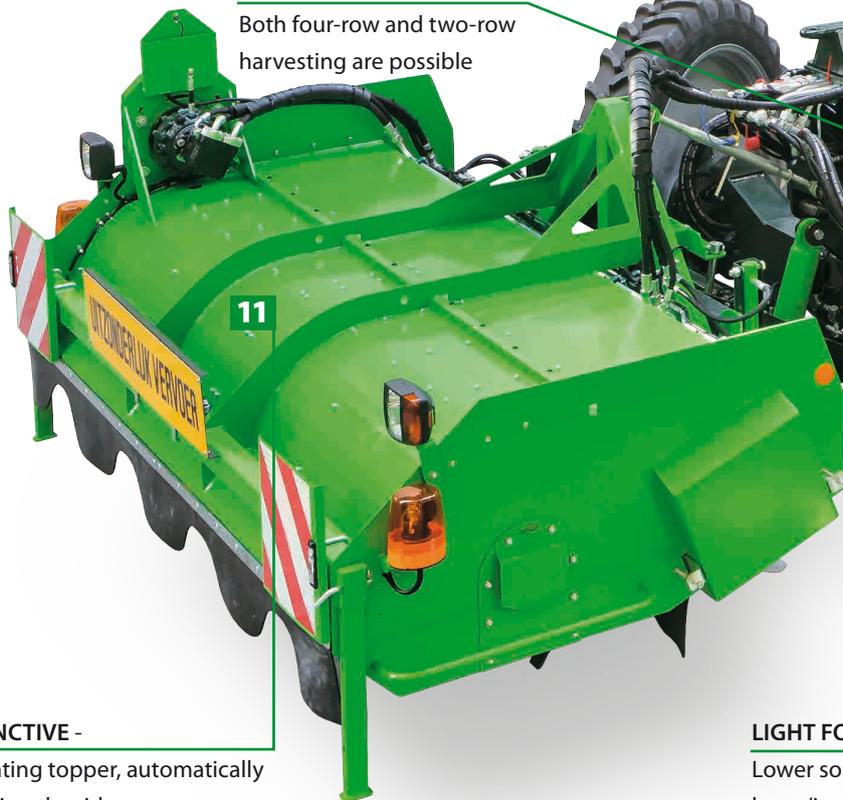
Precise & ergonomic command

SOLID CONSTRUCTION -

Compact, lightweight, central chassis beam

SMART -

Both four-row and two-row harvesting are possible



11

2

4

1

9

INSTINCTIVE -

Oscillating topper, automatically following the ridges

LIGHT FOOTPRINT -

Lower soil pressure because of large 'increased flexibility' tires

10

7





SOFT -
Potato-friendly, high capacity elevator

FLEXIBLE -
Varioweb to be ready for all harvesting conditions

GRAND -
Eight ton bunker for unloading while driving

SUPPLE -
Wider wheel radius
(50° in the front and 20° at the back)

The front wheels are equipped with 300/95 R52 tires, while the back wheels support two extra large 900/60 R38 'increased flexibility' tires.



8

3

6

More cleaning power, more time-savings

In order to efficiently remove soil and haulm, a large sieving capacity, an optimal haulm separation and a flexible cleaning module are crucial.

■ Large sieving capacity

Two spacious sieving channels with digging web, sieving web and web with combi-rods offer a large sieving capacity. Via the rubberized rod web, the product flow reaches the conveyors that lead to the pintlebelt.

■ Varioweb cleaning module, ready for all harvesting conditions

The patented Varioweb consists of a standing pintlebelt with an axial roller set underneath. A unique feature is the ability to continuously set the product flow volume that travels across the axial rollers from the cabin: from 100% when intensive cleaning is required to 0% when hardly any cleaning is required.

■ Optimal haulm separation

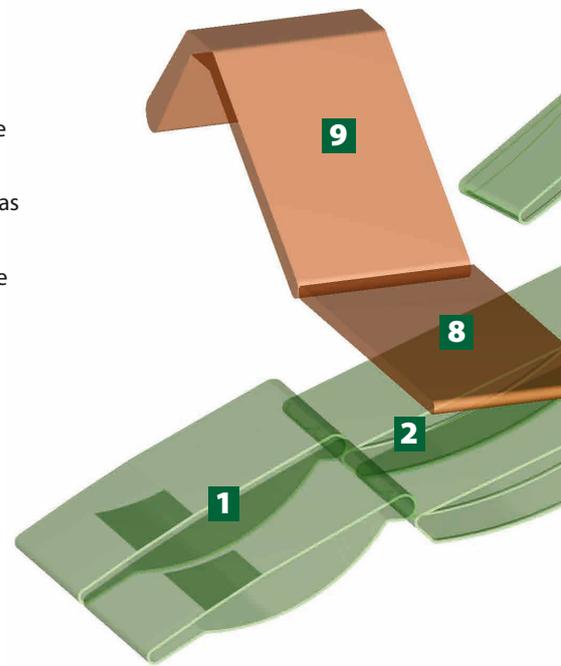
Two times two haulm rollers ensure an optimal haulm separation. The pintlebelt is equipped with an R-profile with haulm fingers for a better haulm separation.

■ Potato-friendly elevator

The elevator is a rod belt that transports the potatoes upwards while ensuring extra sieving. The 1,200 mm wide elevator web has a 140 tons per hour capacity. The running fingers and PVC cloth flights ensure a gentle treatment.

■ Continuous harvesting and unloading while driving

The eight ton bunker maximizes the machine's capacity. Continuous harvesting is possible: when the bunker is filled, you can unload it in the dumper while driving. Or stop unloading by disengaging the bunker floor and emptying the elevator web. In the meantime, you can simply continue harvesting.



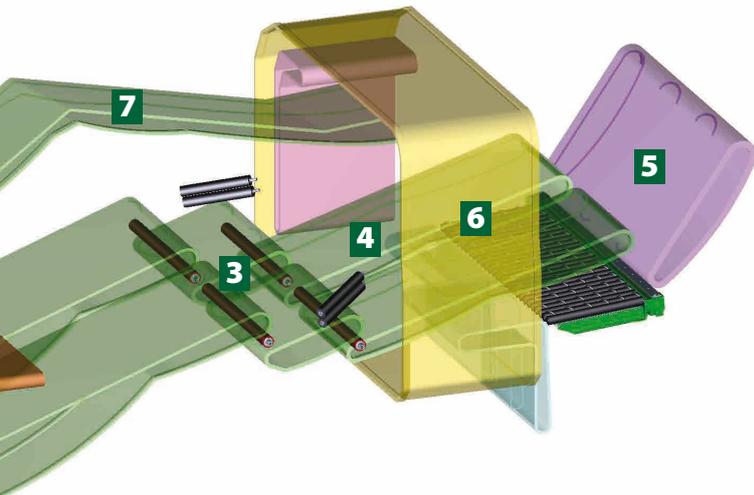
■ KEEN & GREEN:

The Varioweb can be adjusted to all harvesting conditions, such as wet or dry soil and light or heavy clay -> Lower fuel consumption.

The bunker is equipped with an independently driven elevator that can be used to unload while driving. The elevator web provides an additional after-cleaning.



Spectacular performance Gentle potato treatment



Follow the potato flow

1. 2,400 mm digging web (x2): driven by means of pitch-dependent PUR drive wheels for an increased lifespan and potato-friendliness
2. 3,700 mm sieving web (x2): long sieving web, pitch-dependent PUR drive wheels with three eccentric vibrators. This web is followed by the first haulm roller.
3. 700 mm sieving web (x2): web with double profile rod (rubber rods with pintlebelt profile underneath the retaining rollers). This web is followed by the second haulm roller.
4. 1,100 mm full web (x2) for transport towards the Varioweb.
5. Varioweb (a combination of a pintlebelt and an axial roller set, in which the axial roller set can be slid continuously out of the product flow), cross roller set or trash web.
6. Elevator: heavy-duty rod web with active fingers and PVC cloth coated flights for a product-friendly potato transport.
7. Bunker filling belt towards bunker.
8. Bunker floor driven independently from elevator (8 ton bunker).
9. Elevator with three articulation points; rod web for a massive boost in sieving capacity.

As standard on the Puma 3:

- Haulm topper with lateral discharge
- Stage IV engine (Volvo), 12.8l, 345 kW / 469 hp
- Wheel radius front: 50° - back: 20°
- Tire sizes front: 2x 300/95 R52 - back: 2x 900/60 R38
- Side shift on front axle
- Automatic hydraulic level control
- Claas cabin with seat with air suspension, radio, heating, airco
- Two independent, oscillating digging units
- Electro-hydraulic counterpressure control
- Four pulled, plastic diabolos
- Eight pulled, spring-controlled discs
- Two haulm intake rollers
- Two short digging webs with PUR drive wheels
- Two long sieving webs (universal drive) with three eccentric vibrators
- Two rubberized sieving webs with double profile rod
- 2x2 haulm rollers
- Varioweb (28 axial rollers + pintlebelt)
- Elevator (1,200 mm) with rods, coated with thick star PVC
- Picking-off table (900 mm) with top that can be automatically lowered into the bunker
- Eight ton bunker with elevator (1,650 mm) for unloading while driving
- Truckspot indication system
- High power LED rear lights

Some options for the Puma 3:

- Automatic depth control on the digging unit
- Mud flaps
- Adjustable front axle (2.8 -> 3 m and 3 m -> 3.6 m)
- Hydraulically powered discs
- Universal share holders with stone protection
- Extra agitator in digging web
- Automatic inclination correction pintlebelt/Varioweb
- Cross roller set or solely pintlebelt instead of Varioweb
- Electrically foldable and/or adjustable, heated mirrors
- Central lubrication
- Cameras and LED working lights
- Compressor
- Accessories for carrots or onions

QUOTE:

Rolf van den Berg
'Our potatoes love AVR'



TIP

Ensure an optimal use of your Puma 3!
In an instant, the digging unit can be converted for harvesting carrots or picking up onions.





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

Ask for more information, we'll be happy to help you:

AVR bvba | Meensesteenweg 545 | 8800 Roeselare, Belgium
T +32 51 24 55 66 | F +32 51 22 95 61 | info@avr.be
www.avr.be

Stay up-to-date:

