



Spirit 5200 2 row trailed harvester



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GREEN**

Ideal machine for easy, but efficient potato harvesting

The 5200 is AVR's newest two-row harvester. This is an ideal machine for the easy yet efficient harvesting of potatoes. The power train has consciously been kept as easy as possible. The sieving webs and pintle belts are operated by a mechanical drive system.

■ Clear view on harvesting proces

Our offset harvesters harvest to the right of the tractor. This is the side where the control box and joystick are mounted in the tractor cab. This ensures the driver can clearly see the harvesting process from the cab. The open construction of the digging unit guarantees an unobstructed view of the digging web, where obstructions hardly ever happen.

■ Accurate control

Most of the functions are operated using the new joystick in the cab. The general settings, however, must be configured by means of the control box. The clear display shows the progress of the harvesting process and reports any failures. The machine at the picking-off table is equipped with a solid control box which can be used to set the picking off table speed and inclination of the pintlebelts. The large buttons can easily be operated while wearing gloves.

■ Potato friendly harvesting

Its long digging web with twin star vibrators ensures an initial sieving operation, while the machine's haulm web makes sure that haulm and weeds are separated in such a way to prevent damage from the potatoes. There is no need to top the haulm. The vertical pintle belt with extra haulm fingers ensures that every last bit of haulm, as well as loose soil and clods, are removed from the product flow. The product flow is guided to the picking-off table via a transversal pintle belt with retaining rollers. Here, you can conduct your last inspection round.

To sum up the advantages:

- Efficient haulm separation
- wide pintlebelts ensure soft cleaning





■ Offset harvesting

As this system allows for offset harvesting, there is no need to fit the tractor with row crop tires. The tractor can continue to drive with wide tires. This offers tremendous advantages in difficult harvesting circumstances! Additionally, no clods will be formed by the tractor's wheels during the harvesting process.

■ Easy to use and maintain

The machine is easy to operate and extremely robust to ensure low service costs and prolonged harvesting.



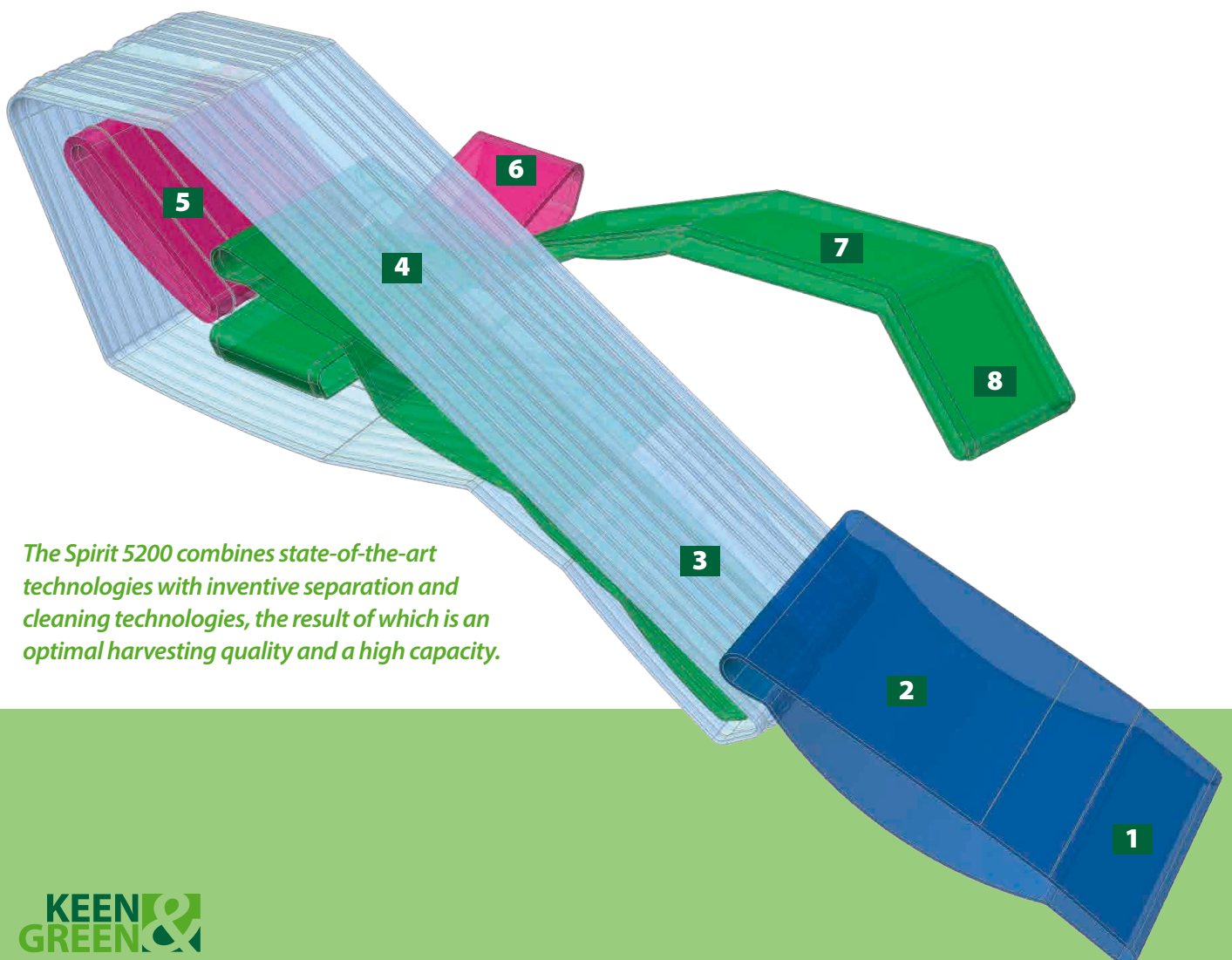
■ KEEN & GREEN:

- *Open structure, easy maintenance.*
- *Lightweight + large wheels and wide tires are less harsh on the soil.*
- *Light, easy to pull machine: less power required, so less consumption.*
- *The large wheels and sound design make the machine very stable.*

AVR makes 2-row harvesting affordable!

■ The product flow

1. Plastic diabolos run precisely along the row and determine the harvesting depth. The plastic material reduces soil sticking on the diabolo and is stone-resistant. Large haulm intake rollers and cutting discs prevent haulm blockages. The harvesting depth can easily be adjusted using a central crank spindle.
2. The digging web is 1,650 mm wide and comes standard with two star vibrators. The web is driven by highly durable and potato-friendly PUR drivewheels.
3. The product flow falls from a minimal height onto the second sieving web.
4. A haulm web is mounted above the second sieving web. This web makes sure the haulm is efficiently and carefully separated from the potatoes. This system is also ideally suited for harvesting while the haulm is still green. Retaining pallets guarantee the potatoes cannot fall behind the harvester.
5. The product flow then reaches the in-line vertical pintlebelt where soil, small clods of earth and haulm are removed.
6. The product then rolls back to a transversal transport web, which guides everything to the transversal pintlebelt. Deflecting rollers send the potatoes to the picking table.
7. The potato flow reaches the picking-off table, where there is room for four people to execute a final visual inspection. AVR made sure the work space is large enough to be able to work ergonomically.
8. The top of the picking-off table lowers into the bunker. For a minimal drop height.



The Spirit 5200 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.



Standard Equipment



■ Less soil compaction because of wide tyres

650/65 R30.5 tyres are mounted standard on the Spirit 5200. This ensures a minimal soil compaction and a light running of the machine. Under normal conditions, a 90 hp tractor is perfectly capable of doing the job. Thanks to the hydraulic steering wheels, the machine is extremely manoeuvrable. The automatic reset comes in very handy for starting properly after manoeuvring on the headland.

■ Large bunker

- The 6 ton bunker is equipped with an unloading floor that is capable of emptying the bunker in 50 seconds.

■ Bunker

- Bunker 6 ton with double lifting (discharge height up to 4,0 m)
- Rubber covering of some bunkerbars, for soft landing

■ General

- PTO 6 splines , 540 rpm
- Drawbar, height adjustable towing eye (50mm), hydraulic side shifting (offset harvester)
- Hydraulic steering axle. Tire size : left and right 650/65 R30.5
- Lights and signs for road transport, incl beacon light
- Brakes: hydraulic - pneumatic mono or dual wire
- Hydraulic steering wheels (+/- 24°) with automatic centering

■ Digging unit

- Oscillating digging unit with pulled diabolos and pulled spring loaded discs (dia. 660mm)
- Accumulator on digging unit with manometer
- Wide shares with disc distance 580mm between discs
- Big haulm intake rollers (400mm)
- Central depth control via rotary spindle



Available on the Spirit 5200 as a standard:

■ Sieving web / Haulm web

- 2 speeds on mechanical drive
- Diggerweb (1.65 m width), DN, pitch 40, double joiners; pitch dependent PUR drivewheels
- Mechanically adjustable star shakers in diggerweb (2 PC)
- Sieving web (in haulmweb) pitch 40, DN, joiner, universal drive
- Haulmweb, width 1650mm, overlap, pitch 210mm
- Haulmweb mechanic drive, 2 speeds vs sieving web
- 4 Rows retainers on haulmweb, adjustable in height form picking platform

■ Hydraulic system

- High pressure filter and manometer
- Electro-hydraulic valveblock Bosch-Rexroth LC
- Hydraulic steering wheels (+/-25°)
- Hydraulic landlevelling
- Hydraulic jack

■ Picking off table

- Picking off table, 900 mm wide, hydraulically driven (tractor hydraulics)
- 2 LED worklights : on picking off table and crosspintlebelt
- Picking platform for 4 people
- Keypad on picking off table : emergency stop, horn, working lights on/off, picking off table on/off, pintlebelt angle adjustment

■ Pintle belt unit

Longitudinal pintlebelt (width 1500mm)

- Mechanically driven longitudinal pintle belt with roller (pitch 50), U-profile, Haulmfingers
- Angle hydraulically adjustable (35-55°)

Transport belt

- Mechanically driven sieving web, pitch N40, star-PVC covered (20mm); width 800mm

Cross pintlebelt

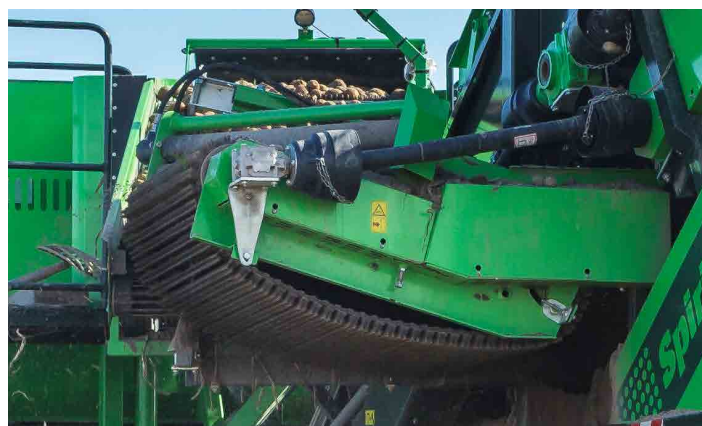
- Mechanically driven cross pintle belt, V-profile, pitch 40, 800mm width
- Double deflecting rollers towards picking off table

■ Options

- Bunkeroptimizer
- Cleaning flaps in drive shaft diggerweb
- Mechanic fallbreaker for filling boxes
- Hydraulic fallbreaker for filling boxes
- Onion loading set with extra frame, 900 mm wide intake
- Onion loading set with extra frame, 1200 mm wide intake

■ Road legal

The Spirit 5200 lives up to all legal requirements for driving on public roads, since it is CE approved.





Control

- CAN-Bus system
- AVR-CAN joystick and 5" display (touch and buttons) for command of the machine : digging unit up/down ; drawbar left/right ; auto drawbar on/off ; bunker up/down ; bunkertop up/down ; picking off table on/off ; empty bunker ; steering wheels + reset ; hydraulic machine-levelling

Technical Specifications:

Dimensions (lxbxh)	10.41 x 3.30 x 3.80 m
Inter row distance	75 - 90 cm
Bunker capacity (apr.)	6 ton
Weight	8.500 kg
Discharge height	4.0 m
Required power approx.	66 kW /90 hp



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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