



Spirit 6100 1-row offset bunker harvester



**KEEN &
GREEN**

Quality and capacity

The Spirit 6100 is a 1-row offset potato harvester equipped with a six ton bunker. This smallest member of the Spirit family has everything you need for a quality harvest. Over the years, the Spirit series has built a strong reputation for potato-friendliness and capacity.

■ Harvest quality

The Spirit 6100's unique harvesting and separation system provides a very potato-friendly harvesting process - it's all about your precious potato. AVR has therefore developed a smooth product flow with minimal drop heights, as few directional changes as possible and a flat picking-off table. These features make it the ideal machine for harvesting early potatoes for the retail market. The 6-ton bunker and wide channel also ensure ample capacity.

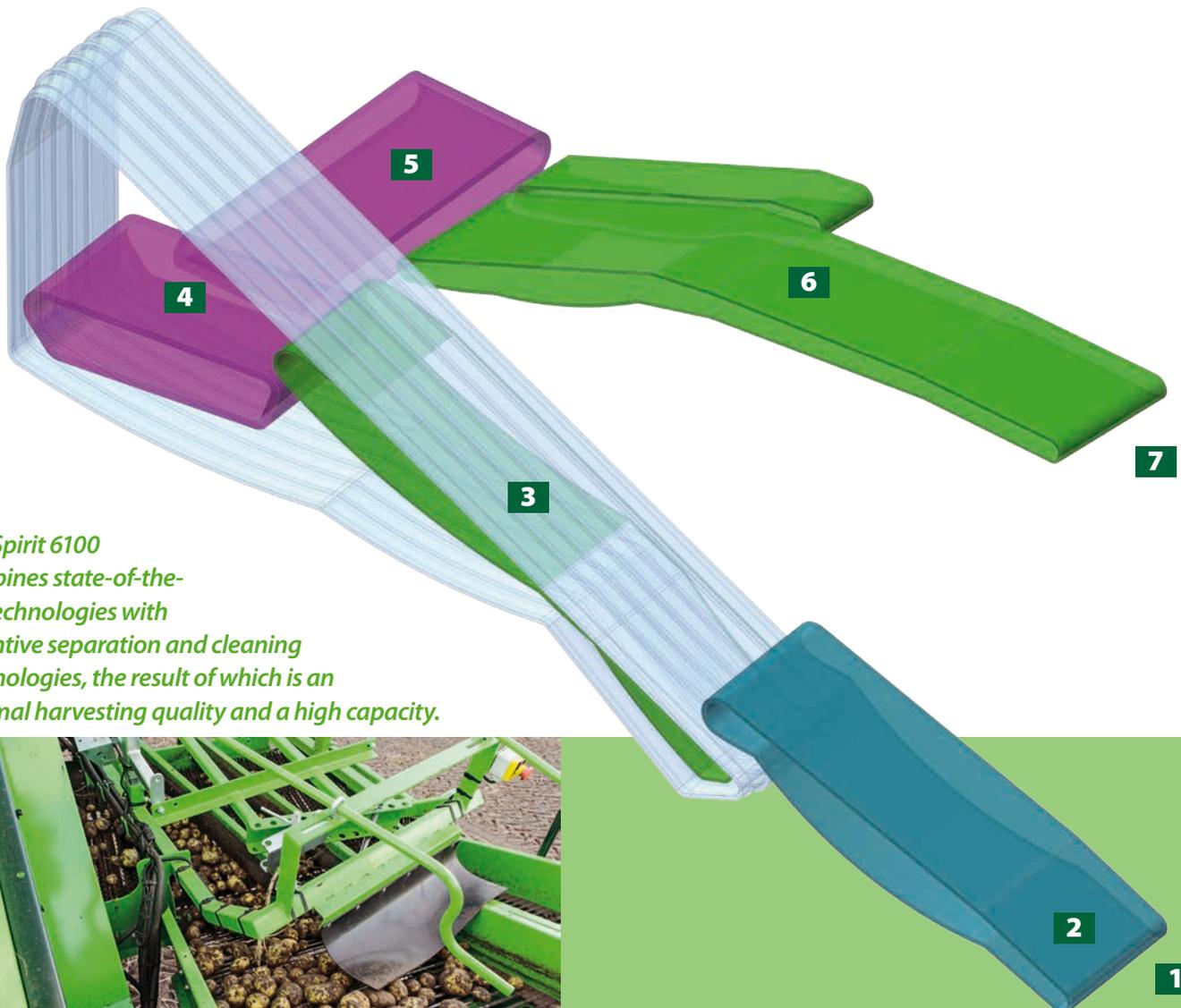
The remaining haulm, reject potatoes or soil clods can be manually removed from the product flow at the picking-off table or at the discharge belt for an optimal result.





■ The product flow

1. The potatoes are taken in by the AVR digger unit. This digger unit features large haulm intake rollers, plastic diabolos that hold the rows together, a simple central depth adjustment and an open construction.
2. The 80 cm wide digging web guarantees high sieving capacity.
3. The combined second sieving web and haulm web provides potato-friendly haulm separation and helps the potatoes move up the inclination. Haulm and weeds are easily separated, even in difficult conditions (such as green haulm).
4. The potatoes are carried to the first pintle belt where the loose dirt, small clods and haulm disappear under the retaining roller and are removed from the machine.
5. The potatoes are directed by the retaining roller to the second pintle belt (the transversal pintle belt), with the rotary comb mounted above. Here, clods, stones and, if desired, undersized potatoes are removed and the product flow is evenly spread across the picking-off table. The clods and stones are sent to a discharge belt.
6. A final inspection can be performed by four people on the picking-off table and there is room for two more people at the discharge belt.
7. The potatoes are then sent to the 6-ton bunker. An optional fall breaker/box filling system offers the possibility to fill boxes directly.



The Spirit 6100 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.





■ Technological features

The harvester is easy to operate. The joystick has all common functions such as raising and lowering the digging unit, the level control, the steering wheels, the drawbar steering and the bunker. To keep things organized, less frequently used functions can be set using a user-friendly control box.

The machine comes standard equipped with a hydraulic cylinder to guarantee a horizontal position under any condition. This ensures optimum sieving capacity is always achieved. An optional automatic inclination correction is also available.

■ Collect the crop & discard the waste

The rotary comb is an effective stone and clod separator within the machine. Stones and hard clods pass through the rotary comb and are directed to the retaining roller on the discharge belt. From there, any wayward potatoes can be identified and brought back to the picking-off table. The rotary comb also provides a more even spread of the product flow across the picking-off table.



TIP

When working in extremely stony areas, the rotary comb can be quickly replaced by a brush comb. This includes 5 rows of brushes instead of 3 rows of fingers and provides efficient stone separation.



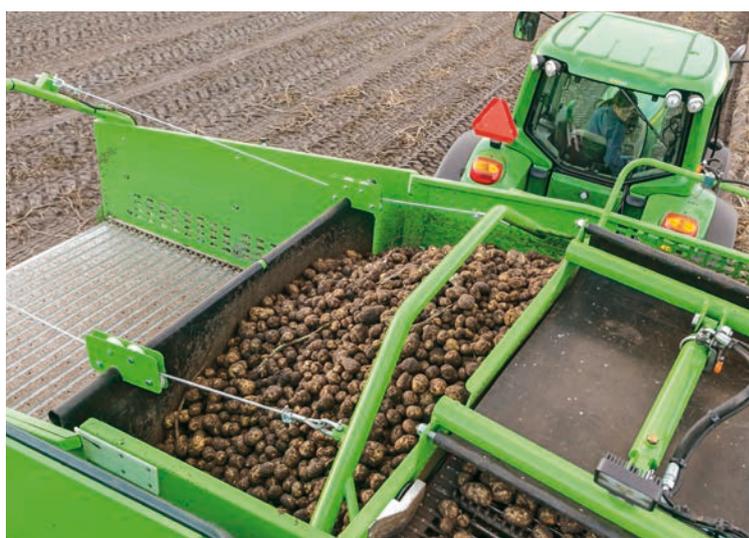
■ Ergonomic picking off table

The flat picking-off table offers a number of advantages:

- Ergonomic for the workers at the picking-off table.
- Efficient, because potatoes do not roll back. This also adds to potato-friendliness.
- A final inspection ensures only high-quality potatoes are sent to the bunker.

■ Large hydraulic bunker

The Spirit 6100's capacity is mainly also determined by the large 6 ton bunker. Less unloading is required per hectare, which saves time.



■ 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.*





Standard equipment

- Gearbox: 2 web speeds;
- hydraulic jack;
- high pressure filter and manometer;
- joystick (CAN BUS control) + intuitive control screen;
- Independent hydraulic system to drive the 2 pintle belts, retaining roller and rotary comb;
- wheels 550/60 - 22.5;
- hydraulic steering wheels;
- hydraulic drawbar steering;
- hydraulic level control of machine;
- picking-off table for up to 5 people;
- electro-hydraulic adjustment of pintle belt inclination;
- 6 ton bunker capacity, impact-absorbing strips mounted on bunker floor.

Options

- wheels 600/50-26.5 (not suitable for inclines);
- retaining rollers above transversal pintle belt instead of rotary comb;
- 4 grading rollers in picking-off table with adjustable opening;
- stone bunker under picking-off table;
- automatic land leveling;
- bunker optimiser with rubber flap;
- fallbreaker at bunker end for crate filling (mech. or hydr.);
- Bigbag system;
- automatic swan neck in picking-off table;
- additional rows of haulm retainers on haulm web;
- auto. resetting of the steering wheels;
- auto. row following;
- auto. electro-hydr. counter pressure regulation on the digging unit;
- cameras;
- agitator hydraulic raise/lower;
- onion picking unit.

Technical Specifications

Dim. (l x w x h)	8.82 x 3.00 x 3.70 m
Inter row distance	75 - 90 cm
Bunker capacity approx.	6 tons
Weight	6,500 kg
Maximum discharge height	4.10 m
Required power approx.	66kW / 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 48 million euros in 2014.



www.avr.be

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

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