



## Why JAREK 5 Harvester Stand out as it's a Best-selling Berry Harvester

### Half-Row Berry Harvester JAREK 5

#### Innovative design & constant improvement:

-  A long legacy of accumulated experience. **Over 30 years of experiences.**
-  High-quality harvester service at a reasonable price
  
-  **The half-row berry harvesters are characterized by:**
  - An innovative design and high-quality finish
  - Guarantee the highest standards in terms of harvest accuracy up to 99%
  - Fully equipped, the design allows the harvester to be fully equipped
  - We had a different design concept than others. We consider the optimal solution to make our machine more manoeuvrable, especially on u turns.
  - We also wanted JAREK 5 to be lighter, not heavy on soil and more mobile. All these assumptions have been achieved, among others, thanks to the more compact platform.
  - Simple construction to have easy operation and maintenance.
  - The modular design allows adjusting the configuration of each harvester and therefore the accompanying equipment is specified individually following the grower's needs.
  
-  We provide the highest level of service, we speak your language
-  **WARRANTY:** We provide 2-year professional guaranty and post-guaranty support, We manage and distribute original spare parts all over the world in order to guarantee total reliability.
-  Instruction manual is available in English, Polish, French, Russian and German.

## Standard Half-row harvesters: JAREK 5 / ARONIC / JAREK 5R / JAREK 5H

**JAREK 5 / ARONIC / JAREK 5H and JAREK 5R** are the latest version of the half-row harvesters pulled behind the tractor designed to collect berries such as blackcurrants, red and yellow currants, gooseberries, aronia, haskap, autumn-fruiting raspberries, saskatoon berries and rose hips.

### Standard version

Designing the JAREK 5 harvester, we had a different design concept than other designs. We consider the optimal solution to make our machine more manoeuvrable, especially on u turns. We also wanted JAREK 5 to be lighter and more mobile. All these assumptions have been achieved, among others, thanks to the more compact design that allows the harvester to be fully equipped after upgrading the machines continuously to have additional advantage. ( **SAVING UP TO 8,000 EUROS** )

**We describe the features of our half-row berry harvesters by answering most common questions from our customers about standard harvester and the benefit of optional equipment:**

1. JAREK 5 equipped with 2 shaker heads with adjustable shaking head weight (type: 920) -Exclusive
2. Hydraulic regulation of rear wheels - Steering wheels - Standard version
3. Platform roof - Standard version
4. No additional cost for plastic Sun-shaped element - Available in standard version
5. Rear platform for big and small pallet boxes - Standard version
6. No needs for additional attachment to harvest fruits from small bushes- Exclusive
7. Fully adjustable hydraulic drives of working elements based on the customer's needs- Standard
8. Conveyor belt chains protected against excessive tension- Exclusive design of chain
9. Advantage of lighter harvester (not heavy on soil) and more mobile
10. Warning triangle for slow-moving, set of basic spare parts and tool box
11. Effortless Operation and Maintenance
12. Additional features

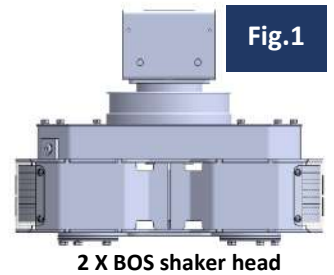
## Award Export Product of the Year 2021 - Berry Harvester JAREK 5



## 1. JAREK 5 equipped with 2 shaker heads:

Is the shaker head adjustable for different berry fruits and what kind of shaker head should I use?

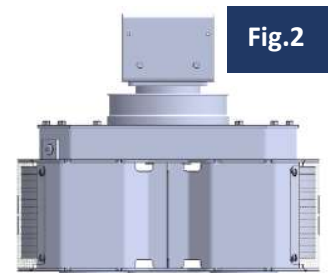
- The standard harvester JAREK 5 is equipped with 2 shaking heads (Type **BOS**) recommended for blackcurrants, redcurrants, gooseberries, saskatoon berries, and rosehips also can be used on Aronia berry as the branches of bushes are winding and dense. 2 shaking heads guarantee high operation and are much gentler for shrubs. (Fig. 1)



2 X BOS shaker head

JAREK 5

- ARONIC shaker head** a special shaker with high increased vibration, and it is recommended to **Aronia** berry. (Fig. 2)

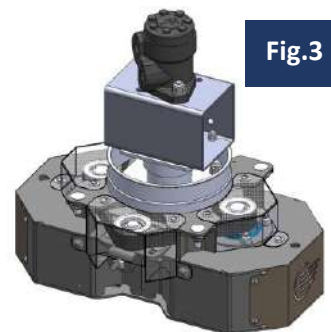


ARONIC shaker head

ARONIC

- For raspberries and Haskap berries or mix configuration for currants:** we equipped the harvester with one special and exclusive **shaker head 920** is the best option as it required around 1 hour that can be adjusted by changing the shaking force and acceleration of the mass of the rotating weight in order to be used on different soft berry fruits (Fig. 3)

With 2 shaking head 920: Can be used for currants and gooseberries



920 shaker head

JAREK 5R -JAREK 5H

- Are the shaking heads removable?

Shaking heads are removable, you can mount one or two heads, according to customer needs/preferences.

- With the two shaking heads, can the machine run with one, having the other removed? If there is only one, which should stay on, the front shaker / back shaker or can be in the centre? Yes, the shaking head with the column can be removed. We mount the shaking heads with a set of guide bars. In the harvester we have 3 positions (front- back and centre) the location of shaking head with column. You need different guide bars for one and two shaking heads You can always remove one shaking head and mount the remaining one with a different set of guide bars in order to centre the head.



## 2. Steering wheels - Standard version

Is the steering wheels in standard version. How much angle can you turn it?

- The standard harvester equipped with steering wheels.
- The hydraulic steering axle, which provides a smaller turning radius guaranteeing free operation of the machine
- The turning angle of the wheel is 32'.

### Optional solution for hilly plantations on crosswise slopes:

- We offer as additional equipment **hydraulic levelling wheels** that is a very suitable solution in case of hilly plantations for efficient operation on crosswise slopes from 3° up to 12°.
- We mount one hydraulic cylinder on each wheel, thanks to which it is possible to lift and lower independently each side of the harvester.

## 3. Protecting roof- Standard version



## 4. No additional cost for plastic Sun-shaped element:

Can more fingers be added to the shaking head, JAREK 5 has 7 shaking heads, the bottom one is the most important for the first couple years due to a small plant, it can be removed. Can you explain how the JAREK 5 compares with others?

- Our experience shows that 7 sets are sufficient for accurate harvest
- We can mount up to 10 shaking elements, depending on the customer's needs and bush size.
- There are single and double shaking elements and we always recommend best solutions depending on the plantation's conditions
- **Precise Harvesting, Guaranteed:** The JAREK 5 positions its shaking elements strategically near the base of the bush, close to the harvester's gutter edge. This innovative placement enables meticulous harvesting of fruit from even the youngest and lowest shrubs, free damage.
- **Gentle on Plants:** Our commitment to minimizing plant stress extends beyond the shaking elements. The JAREK 5's transverse conveyor and meticulously designed bar system work in harmony to ensure your bushes remain free of damage throughout the harvesting process.
- We mount shaking elements at the base of the bush, close to the edge of the gutter of the harvester. Thanks to this, the fruits are harvested accurately from very young and low shrubs without damaging. In addition to the design concept that allow the bush be free of damage due the design of Transverse conveyor and the bar and well-studied bar



## 5. Rear platform for big and small pallet boxes – For small boxes

How wide and long is the deck on the rear of the harvester, how many people do you recommend and how many berry trays can fit?

- The deck on the back of the harvester is 1.78 m long x 1.56 wide (Fig. 1). It can fit 20-30 fruit boxes (standard dimensions 40cmx60cmx20cm). 2 people can stay on the deck but in this case you would need to remove some boxes.
- However, we offer as additional equipment a **box tray** that can fit up to 12 empty fruit boxes (Fig. 2). It is a very convenient solution that permits you to save some space on the deck.
- **Optional:** As for JAREK 5R/JAREK 5H raspberry & Haskap version (Fig. 3), it is equipped with a pre-separator that removes minor impurities and an additional separating conveyor that facilitates removal of damaged fruits. 2 people are needed to handle this equipment and the deck can fit 14 fruit boxes.



The raspberry attachment: can the spacing on the blue elastics be changed, as you now berry have many variable shapes? The standard spacing is of 10 mm, we can adjust the spacing according to the needs

- The rear platform: Designing the JAREK 5 harvester, we had a different design concept than other designers. We consider the optimal solution to make our machine more manoeuvrable, especially on u turns. We also wanted JAREK 5 to be lighter and more mobile. All these assumptions have been achieved, among others, thanks to the more compact platform.
- **Optional:** We can extend the platform if there is a need. Our platform can be extended optimally by **60 cm from the standard size**, so as not to overload the rear axle and not to disturb the machine's working parameters. Maintaining such a size of the rear platform is particularly important when using the hydraulically levelled wheels, so as not to change the design of the cylinders.



Fig.1

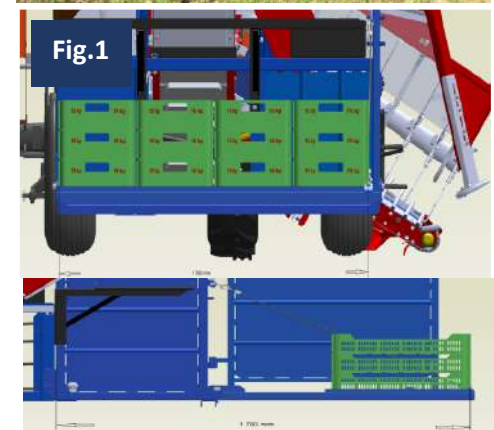
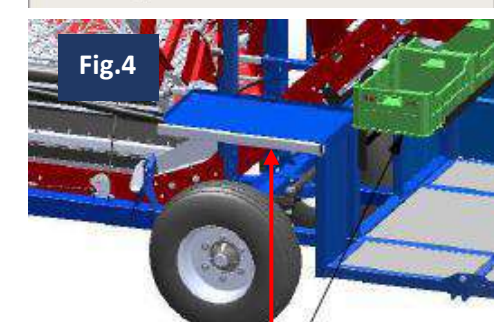
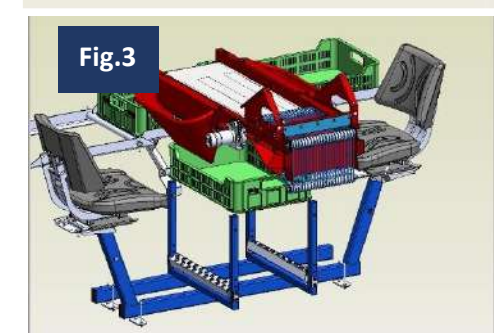


Fig.2



Fig.3



Extendable platform (grey part)

## 5. Rear platform for big and small pallet boxes - For big boxes:

How wide and long is the deck on the back of the harvester, how many people do you recommend and how many berry pallet box can fit?

- The deck on the back of the harvester is 1.78 m long x 1.56 m wide. It can fit one pallet fruit box (Fig 1). 1 person can stay on the deck.
- However, in standard equipment there is an extendable platform on the fender above the left wheel (grey part) where you can place more empty box. (Fig. 1).

Fig.1



### Optional for big boxes roller platform:

- The construction of the JAREK 5 harvester enables the collection of the harvested fruit into pallet boxes by using roller for one pallet for self-unloading. ( Fig 2)
- ½ Roller platform + Cargo-pallet trolley (for 1 pallet) (Fig. 3)

Fig.2



### Optional for big boxes with cargo pallet trolley:

- Cargo-pallet trolley (for 1 pallet) (Fig.4)
- Cargo-pallet trolley (for 2 pallets) **Highly recommended** : Option when fruit is collected into cargo pallets (Fig.5) . Conveyor for trolley needed
- Cargo-pallet trolley (for 3 pallets) : Option when fruit is collected into cargo pallets (Fig.6) . Conveyor for trolley needed
- Conveyor for trolley ( 2 boxes and 3 boxes) (Fig.7)

Fig.3



Fig.4

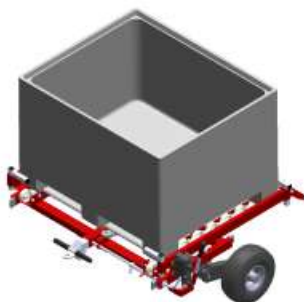


Fig.5



Fig.6



Fig.7

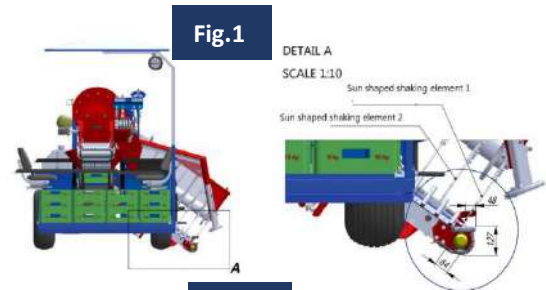


## 6. No needs for additional attachment to harvest fruits from small bushes- Exclusive

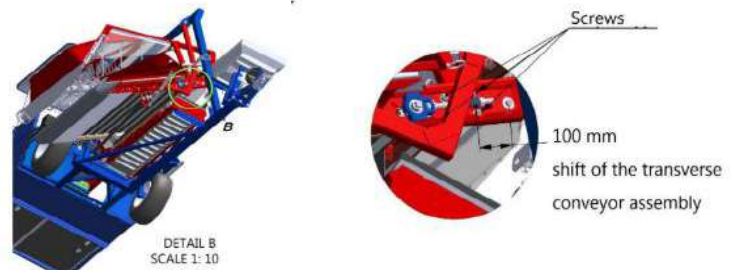
Can harvester get low enough to pick the fruit without additional low bush attachment?

- Our engineers have developed a solution that doesn't require any additional low bush attachment. JAREK 5 & ARONIC are distinguished by its unique design enabling the lowest possible installation of the "sun-shaped" shaking elements. Thanks to this solution, fruits can be collected even from very young and low shrubs in standard harvester.
- The best effects of the JAREK 5 harvester operation can be obtained on the plantation where the fruiting on the shoots begins from 30 cm onwards (lowest possible installation of shaking elements. However, with the JAREK 5 harvester, it is possible to harvest from the lower fruiting shoots (**20 cm**)
- **Below are some features about our design concerning collecting fruits from low bushes:**

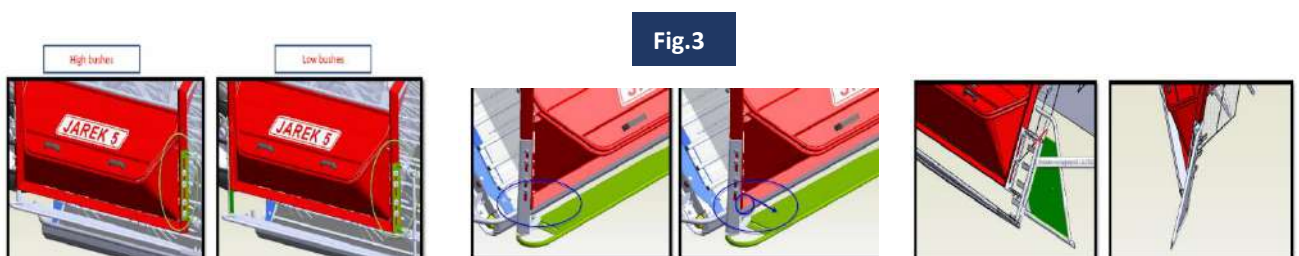
- In the case of low bushes, the most important thing is that the sun-shaped shaking element was as close as possible to the gutter in order to shake the fruit as low as possible.
- In the standard version of the JAREK 5 harvester, the distance from the sun-shaped shaking element to the gutter is **6,4 cm**, while in the other solution this distance is much wider, which is why an additional attachment for low bushes is required. (Fig 1)



- By moving the transverse conveyor assembly by 10 cm along the shaker axis (Fig 2), the position of the gutter relative to the shaker frame will allow the sun-shaped shaking element to be positioned as close as possible to the gutter tube (**less than 5 cm**). The sun-shaped shaking element is then as close as possible to the base of the bush. ( It is exclusive in our design)



- In case of higher bushes, in the JAREK 5 harvester, the lowest sun-shaped shaking element should be removed and installed at the top of the column so that the shaking energy is properly directed.
- Adjustment of the front part of the slide bar
  - Adjustment of the rear part of the slide bar
  - The divider to drop down and open it outside to not divide the bushes



## 7. Fully adjustable hydraulic drives of working elements based on the customer's needs- Standard

Can you have the hydraulic controls on the harvesting deck of the harvester or with the tractor driver?

- In our harvesters the hydraulic control can be handled in two ways from the tractor's cab or from the operator's deck/platform (depending on the customer's preferences)
- We can split the controls according to requirements
- The speed of 2 conveyors, fan and shaking heads are always controlled from the deck by using the blue valves.
- Standard harvester need 2 pair of hydraulic connection:  
The steering wheels & the main conveyor the hydraulic control from the rear of the harvester or from tractor's cab but the tractor must equipped with 2 pair of hydraulic connection.

### Additional options required:

- Levelling wheels ( 2 Pair: one pair for each side)
- The hydraulic sliding beam ( 1 Pair)
- The hydraulic gatherer (1 pair)
- We have 3 options:
  - Using electro-valve ( 3, 4 or 5 sections) control from tractor cab's. ( **Optional- Fig:1**)
  - Using wireless electro-valve in order to control different optional functions from the tractor or from the rear up to distance 70 meters ( **Optional- Fig:2**)
  - Using hydraulic distributor for 2,3,4 & 5 sections in the rear of the harvester control manually
- All the hydraulics can be run off pump from PTO

what you recommend from our own experiences?

- We recommend controlling the hydraulic sliding beam from the tractor's hydraulics The rest can be split according to clients preferences
- We recommend to use a hydraulic divider (electrically or wireless) to control the harvester from tractor cab's. As result, the person is in the deck will focus on the harvested fruits.

Fig.1



Fig.2



## 8. Conveyor belt chains protected against excessive tension- Exclusive

How often do I need to change the conveyor belt chains as I know we need to change it every year

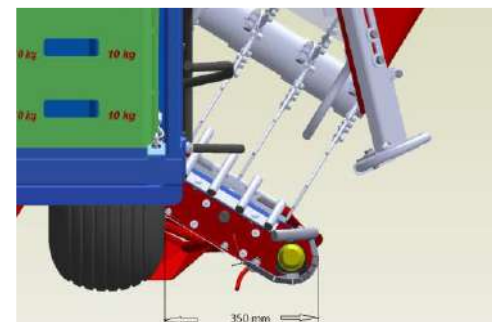
- Our engineers have developed a solution for the conveyor belt chains protected against excessive tension to make it more durable and sustainable compared to other available chains in the market.
- The chain tension is adjusted automatically through an innovative chain protection system against excessive stretching. The chains are chrome plated, which prevents excessive corrosion. In addition, the chains are protected with hot wax. The sleeves are lubricated from the inside with good adhering wax customized to our harvester.



## 9. Advantage of harvester (not heavy on soil) and more mobile:

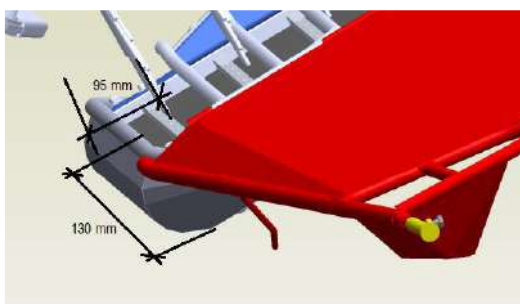
What's the width of the harvester, how much of the machine is in the row its self, from tire to end of shaker?

- The machine width is 2400 mm that allow the harvester works in narrow space between rows mins 3.2 meters and the ideal is 4 meters.
- The distance from the inner tire to the gutter is 350 mm (Fig. 1) and from the outside tire to the gutter is 2100 mm (Fig. 2).
- The weight of harvester is 1850 kg to 1950 Kg allows the harvester to work in different climate conditions ( wet or dry)
- We consider the optimal solution to make our machine more manoeuvrable, especially on u turns .
- The width of harvester allows the harvester to fit in container



What is the drop distance from the back of the shaker conveyor belt to the 2nd conveyor belt?

- the distance is 400 mm, Thanks to this design that eliminate drop fruits between conveyors which make JAREK 5 and ARONIC with exclusive standard version



## Additional Features:

### In standard harvester, we provide:

- Warning triangle for slow-moving
- Set of basic spare parts and tool box
- Easy operation and maintenance: Cover protecting shakers closed with magnets, allows easy access to shakers.
- A rotating drawbar of the harvester to the tractor's boom
- All hydraulic pipes connectors compliant with EU standards

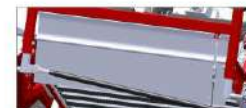
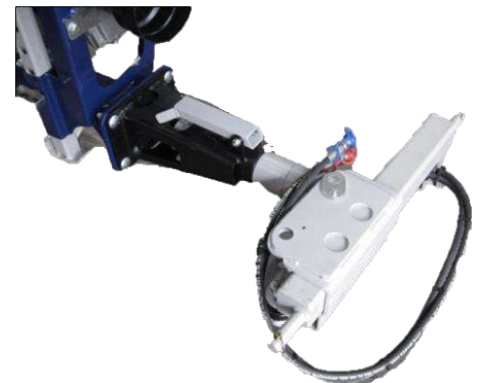


## Are there additional features you want people to know about half row harvester?

An optional equipment:

- One of the most recommended option to our clients is the **hydraulic sliding beam** mounted on 2 point hitch allows to shift the harvester left or right by 25 cm. Thanks to this option, we can easily shifting the harvester close to the bush during harvest.
- **Hydraulic gatherer:** In standard version our harvester is equipped with a mechanical gatherer. The hydraulically lifted gatherer is used when turning so that it does not hit the ground.
- **Splash shield** Required for gooseberry or other berries harvest due to specificity of the gooseberry fruit which is very prone to chipping off when in contact with shaking elements or big bushes.
- **Oil cooler:** Recommended for continuous work especially in hot climate. Without oil cooler there is a risk of oil overheating. In standard harvester the hydraulic oil is inside the frame of the harvester that adding extra cooling for oil.
- 2 x **lights**, one working light on platform/ Set of road lights

hydraulic sliding beam



## Required:

- Demands min. 30Hp on PTO with 300 rpm
- Establishing optimal plantation:
  - 🌿 Distance between rows min 4 m (13 feet)
  - 🌿 Spacing of seedling in a row : 0.5 m to 0.6 m ( 2 feet)
  - 🌿 Distance from fence to the row : 6 m
  - 🌿 Harvest up to height 2.2 m ( 2.4 m is depend on the plantation conditions)

### Optimal Parameters: For Aronia Mechanical Harvester

