

Unique, high-performance  
optical sorter

## ***SORTOP CARROTS***

**UISAR**  
SORTING  and it works

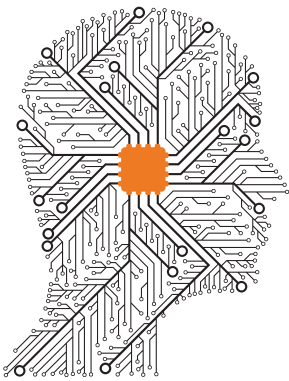


Your advantages:

- Worldwide unique, intelligent software
- Highly precise calibration (diameter, length and weight)
- Up to 16 outputs, customized solutions
- 360 ° HD analysis, unsurpassed sorting quality
- Maximum profitability and efficiency



## Intelligent software - acts as a human being



The principle is based on artificial intelligence, which enables the subjective evaluation of the quality, shape and appearance of each carrot and thereby **replicates the human appreciation**. Combined with other measurable criteria (green collar area, white tip length, stem length), this setting allows the fine-tuning of the sorting accuracy.

- Statistics function
- Complete traceability of each batch
- Perfect integration of the computer and the electrical control built into a waterproof control cabinet

A person evaluates the quality of the vegetables by precisely visualizing and analyzing the entire surface.

Its assessment is global by combining both quantifiable and subjective information.

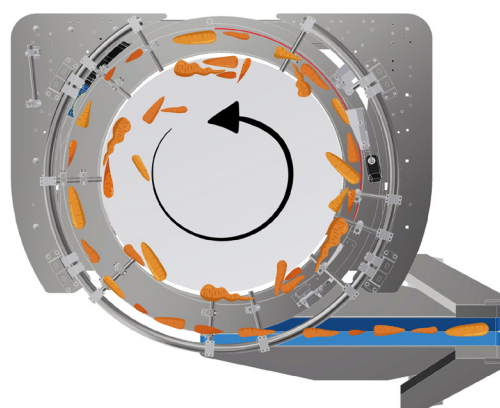
Quality criteria may vary based on business needs.

A human being is able to adapt the quality of his sorting, but his constancy decreases with fatigue.

**The machine is able to reproduce the work of a human more consistently and more efficiently.**

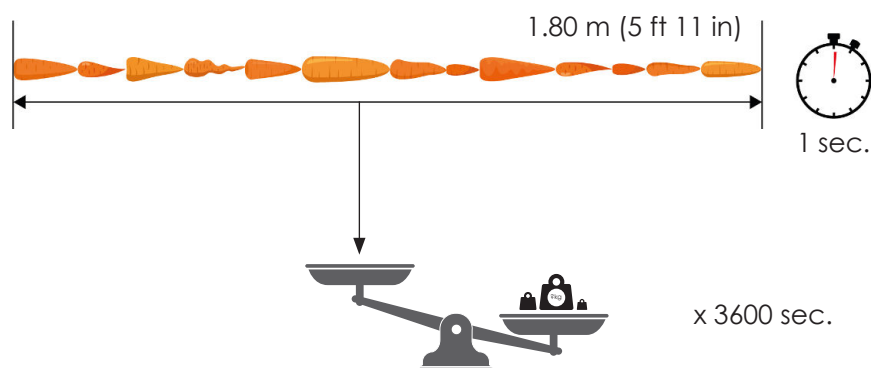
## Feeding system - highly increased hourly sorting capacity

A simple and ingenious rotating system aligns carrots of all sizes, smoothly and almost without any duplicates.

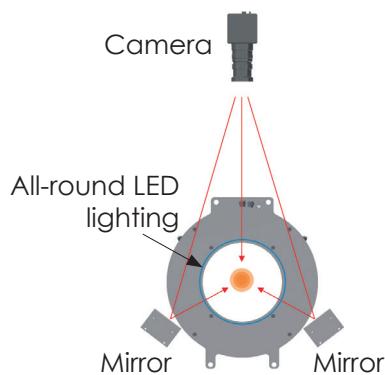


The sorting capacity is **at 1.80 m (5 ft 11 in) carrots per second**.

The weight of 1.80 m (5 ft 11 in) carrots per second extrapolated to one hour results in the hourly sorting capacity.



## Optical system - highly precise 360° analysis



Thanks to a mirror system and a very powerful all-round lighting that eliminates shadows, **every vegetable is subjected to a perfect 360° analysis.** The optical system generates 3 immaculate high-resolution images of each carrot. These can be displayed immediately on the computer screen to check the error detection.

- High-resolution color and infrared camera, error detection from 0.16 mm<sup>2</sup>
- Calibration accuracy at 1 mm, weight estimate at 1 g
- **Visualization of images with display of error detection**
- Accepts all shapes of carrots  
Calibrates sizes from 10 to 80 mm, length up to 500 mm

## 5 quality levels

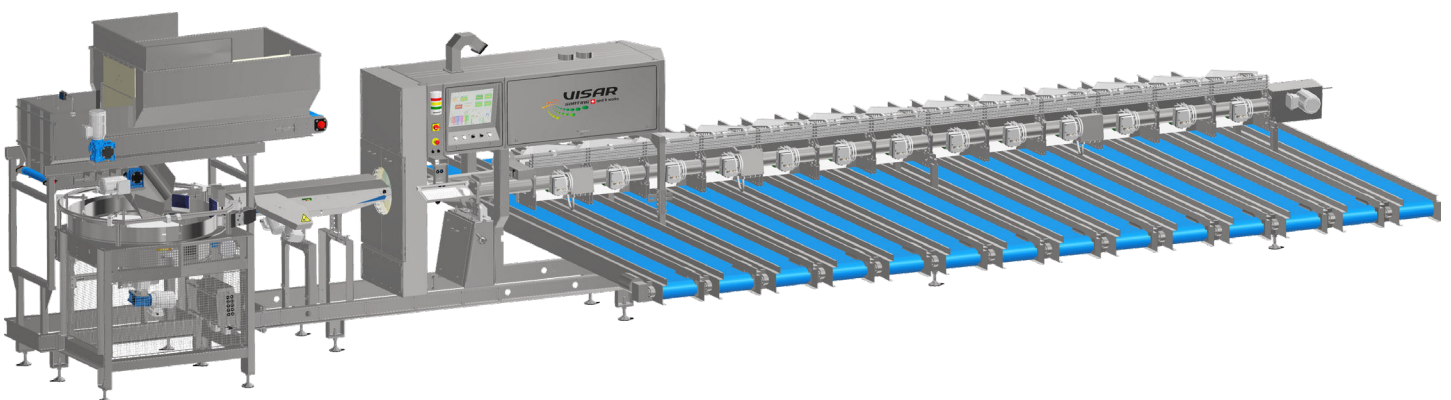
The software allows an easy setting of 5 quality levels (plus waste). The volume and value of the product sold is increased and waste is reduced to a minimum. Thanks to the accuracy of the setting and the unique sorting consistency of the software, **a significantly higher yield per batch is achieved.**

## Ejection - gently & exactly

A nozzle system blows the carrots towards the assigned outputs with extreme precision. The fall is cushioned by soft materials that **guarantee a smooth landing.**

## Up to 16 outputs

There are 4 to 16 parameterizable outputs available. The products of each exit are passed onto individual conveyor belts. The sorting criteria can easily be adapted to the specific needs of each customer.



## Technical data

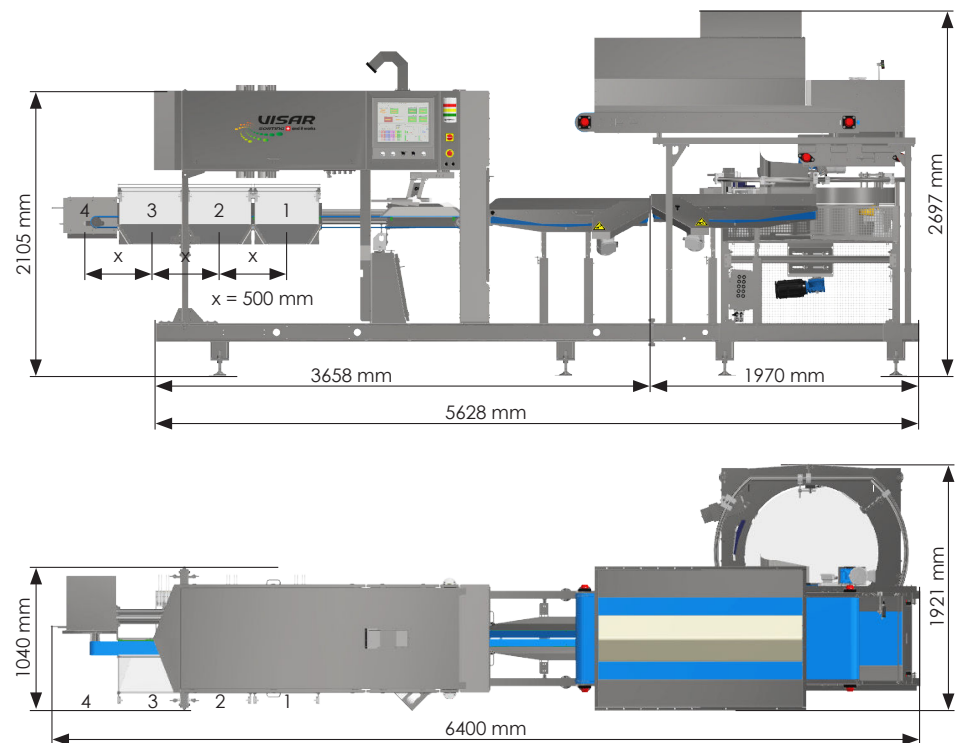
### Material:

- Stainless steel
- Food compliant

### Switch cabinet:

- CE/UL standards
- Waterproof cabinet

### Dimensions:



## Our promise

- Highly precise sorting, calibration & weighing
- Swiss quality
- Easy handling
- Low production and maintenance costs
- Same harvest - more yield
- Quick and easy cleaning
- Efficient remote maintenance
- Competent and fast service
- Customized solutions
- Less food waste

For demonstrations & more information:

**Contact us now!**  
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