

Unique, high-performance
optical sorter

SORTOP CARROTS

UISAR
SORTING  and it works

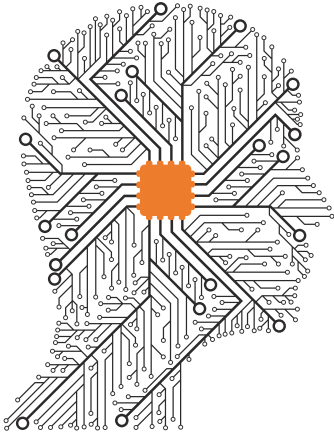


Your advantages:

- 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.

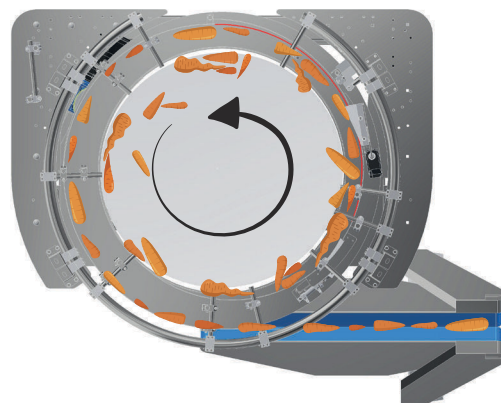
Its assessment is global by combining both quantifiable and subjective information.

The severity of its selection criteria may vary according to its need for quality.

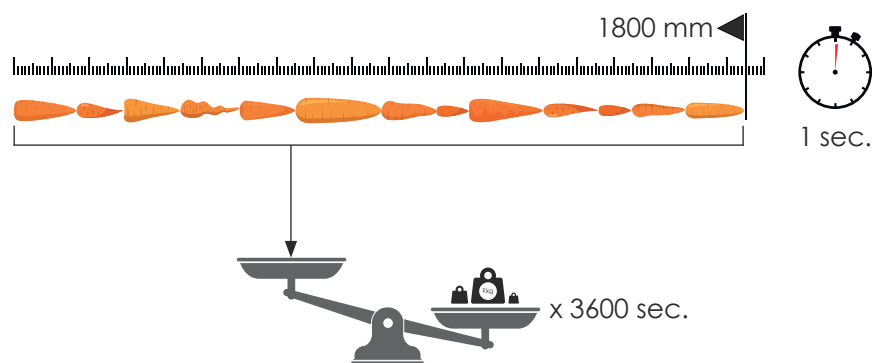
It allows a consistent and immediate adjustment of severity according to the need for quality.

Feeding system - highly increased hourly sorting capacity

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

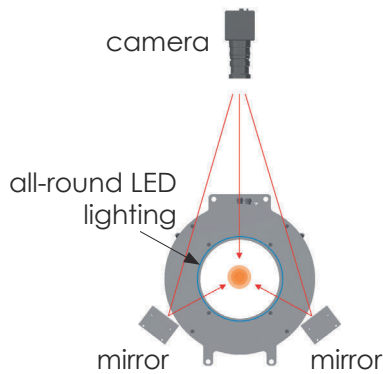


The sorting capacity is **at 1800 mm carrots per second**.



The weight of 1800 mm carrots per second extrapolated to one hour results in the hourly sorting capacity.

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 mm²
- 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

3 quality levels

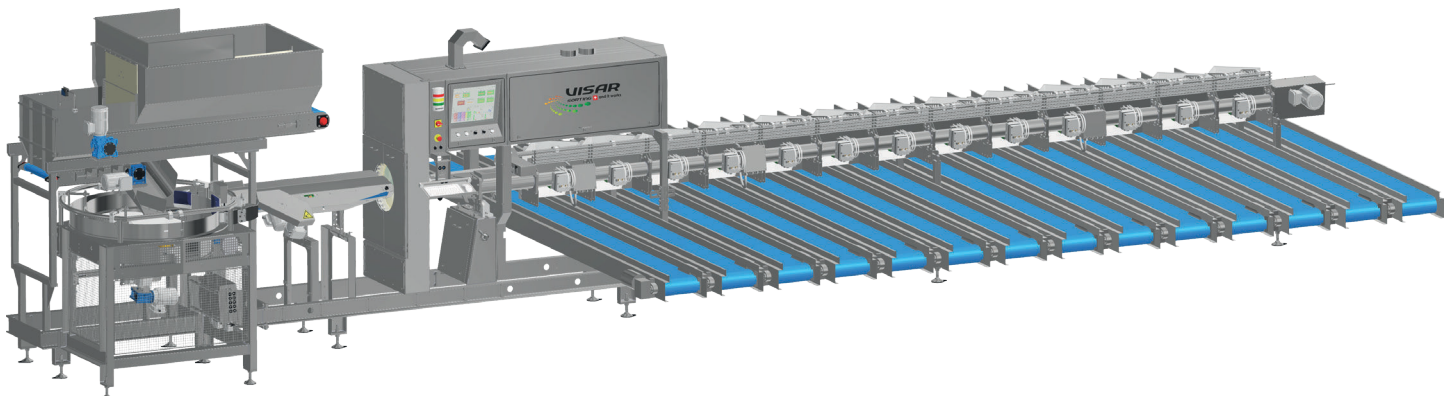
The software allows an easy setting of 3 quality levels (plus waste). The extra quality product volume is increased and the amount of waste is reduced to a minimum. Thanks to the accuracy of the setting and the unique sorting consistency of the software, **a significantly higher yield per batch is achieved.**

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 parameterisable 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

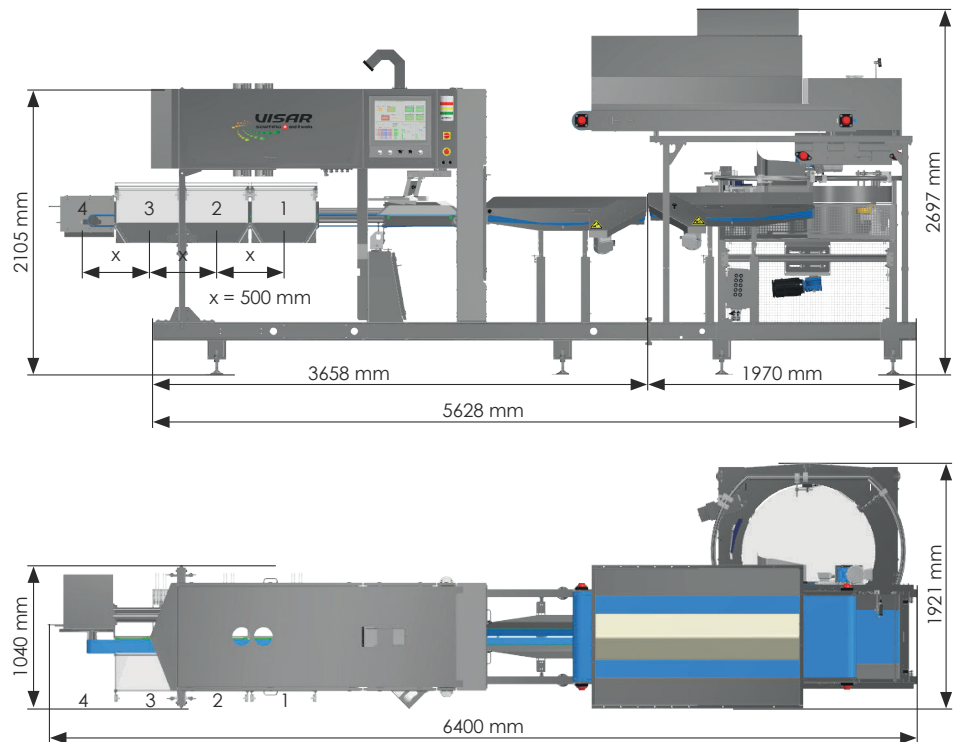
Material:

- Stainless steel
- Food compliant

Switch cabinet:

- CE/UL standards
- Waterproof cabinet

Dimensions:



Our promise

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



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