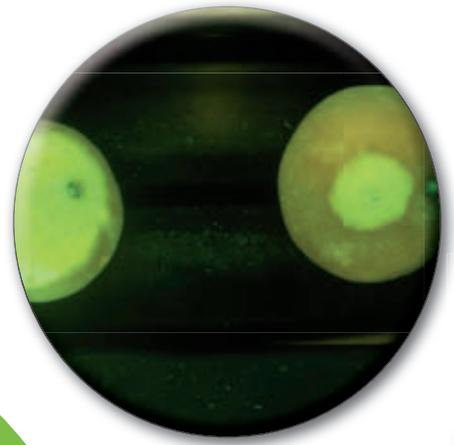


Technology inside ---->

SmartSort





## ● Fast, reliable and efficient grading

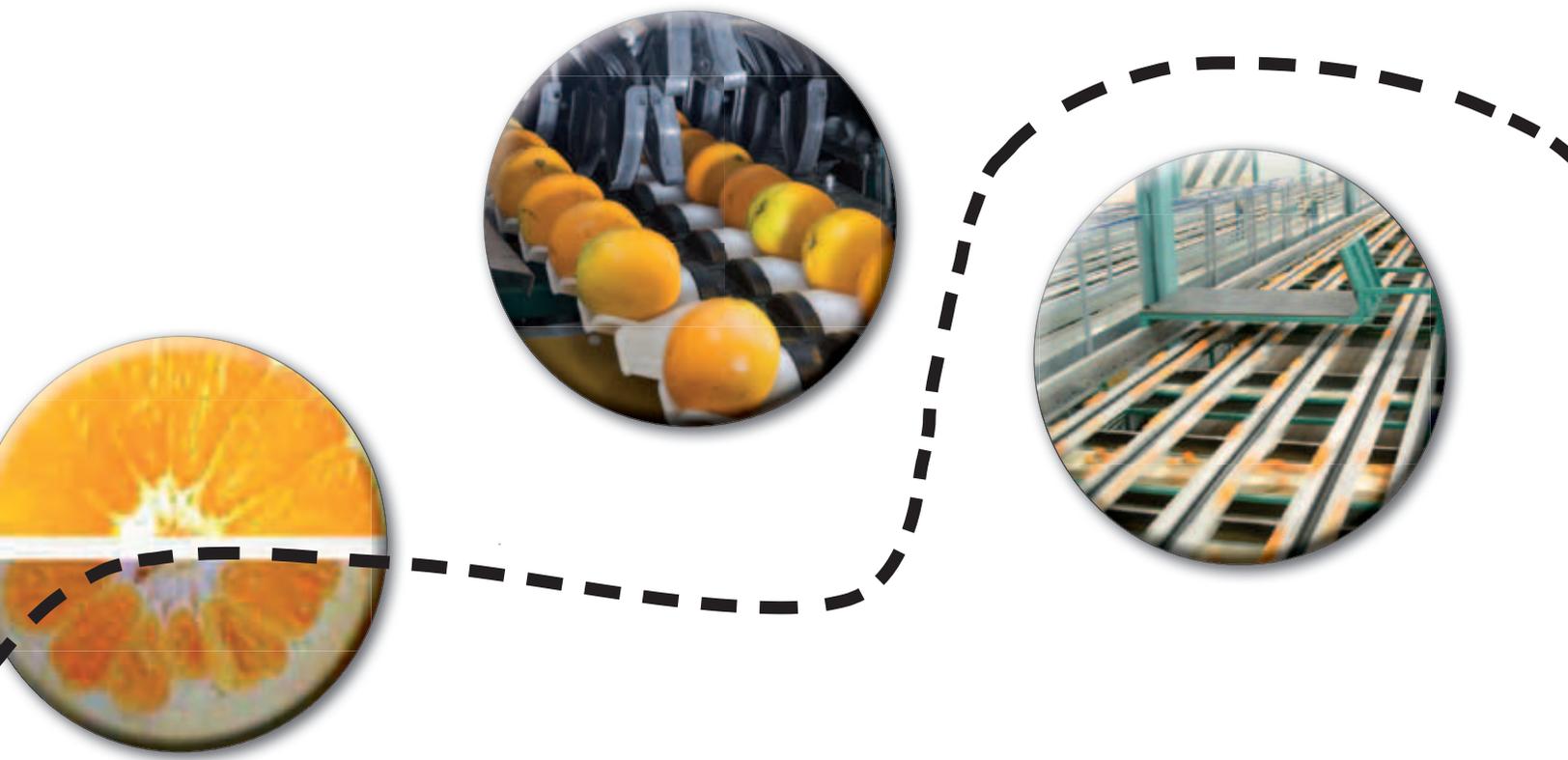
The SmartSort sets a new standard in the market, optimising capacity and precision for the entire range of speeds and all grading parameters.

The well thought out modern design and use of high quality materials results in low maintenance needs. The machine is robust with unparalleled reliability.

Practically all individual components of the robust SmartSort have been designed for even higher speeds. The singulator, transfer unit and discharging elements are good examples.

By making certain components more solid, undesired vibrations are reduced to a minimum. This gives greater accuracy in the optical measuring process and weight sizing with an added bonus of a greatly increased life span without problems .

The SmartSort is available for various kinds of fruits such as oranges, lemons, limes, tangerines, kinnows, tomatoes, kiwis, peaches, apricots and plums.



### Speed and carriers

With the SmartSort, Greefa presents a new level in engineering and design. Retaining the precision of all its parameters, this machine can grade 12 fruits per second with the greatest ease, and with very low maintenance needs.

### Transfer unit

The new transfer unit, which has evolved from robust previous generations of SmartSort, offers optimal reliability and precision even at high speeds. The exclusive and patented Greefa transfer system between singulator and fruit carriers separates transport and measuring sections.

The new transfer unit ensures great precision and reliability during the singulation, measuring and discharge processes. It increases the cup fill occupation rate of the fruit carriers (more capacity and production).

### Measuring systems and LED lighting

The new optical lighting system based on LED diodes saves significantly on energy and has extraordinarily low maintenance requirements. The system design has increased the precision and reliability of all parameters.

Defects which are invisible to the naked eye can be detected with our new module iPIX. The iPIX-cameras can spot progressive defects on the skin of citrus fruits, which are then automatically removed.

The specific weight parameter (volume / weight index) can be used to classify fruit on the basis of its density, allowing the removal of dry, spongy citrus fruits, like clementines affected by frost.

Ever since the introduction of iQS -for external quality- our R&D department has worked continuously on its evolution and now proudly present the new iQS. This intelligent quality selection module selects fruits automatically on the basis of external quality, taking up to 70 photographs of each fruit. This is done by means of special CCD infrared and colour cameras. iQS allows you to meet the specific demands of each of your clients quickly and flexibly, maximizing profit while saving on labour costs. iQS provides you a consistent quality, every day.

An advanced 3-point weighing system is used to weigh the fruits. This system is located in the upper part of the transfer unit and is therefore less sensitive to dirt. It gives extremely high precision.

For determination of the colour of the fruits we use special high resolution CCD colour cameras. These cameras classify the fruits on the basis of an average value of colour, blush or background colour. Special filters eliminate sheen and undesirable reflections.

# Greefa...great in grading

Greefa has countless years of experience as an innovative manufacturer of machines. We offer a wide variety of graders, ranging from simple grading solutions to extensive turnkey projects.

We combine our knowledge and experience with the latest techniques and advanced technology to create the best grading solution for you.



## GeoSort

- For apples, stone fruits and (beef) tomatoes
- Fruit-friendly
- High capacity
- Size, colour, weight, external & internal quality



## EasySort

- For citrus, stone fruits, tomatoes and apples
- Modern and simple concept
- High capacity
- Size, colour, weight, progressive defects and external quality



## CombiSort

- For apples, pears, peppers and (beef) tomatoes
- Fruit-friendly
- Reliable design
- Size, colour, weight, external & internal quality



## QSort

- For cucumbers, aubergines/eggplants and courgettes/zucchini
- Measures length and curvature
- High capacity
- Weight, length and curvature

