

GREEFA PRODUCT RANGE FOR APPLES



SORTING GRADING



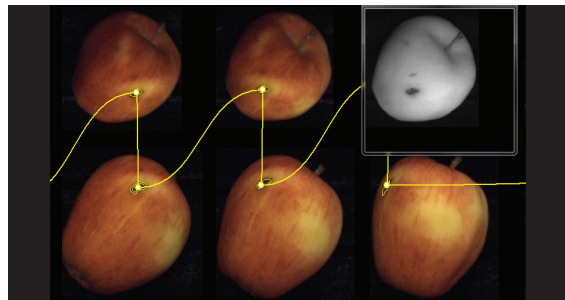
Our **GeoSort** is the excellent high speed machine for grading sensitive and round fruits. Large pack houses in for example Italy, Poland, United States, China, Australia and New Zealand totally rely on this grader.



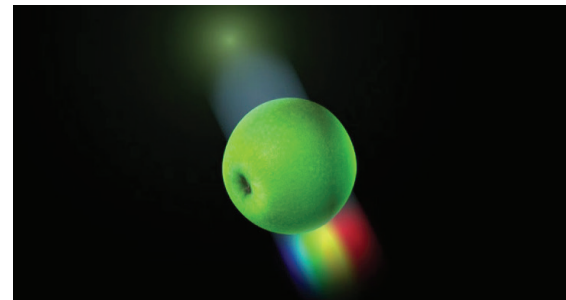
Would you like to grade both apples and pears on the same machine? The **CombiSort** grader is especially designed for sorting sensitive, round *and* elongated fruits. How perfect is that?



MEASURE SYSTEMS



iQS determines the **external characteristics** of a fruit. While the fruit rotates under the camera box, the cameras take up till 80 shots. Software analyses these shots and defects are projected onto a 3D geomodel.



iFA is a measuring system that analyses the **internal characteristics and brix value** of fruits. Physiological defects such as water core, storage defects and internal browning can be pinpointed without difficulty.



OTHER EXTRA'S



With the **Gentle Bin Filler** you can easily dry and gently fill your bins with apples, pears, tomatoes and stone fruits. The capacity is nevertheless high. And it's easy to use with a simple touch screen.



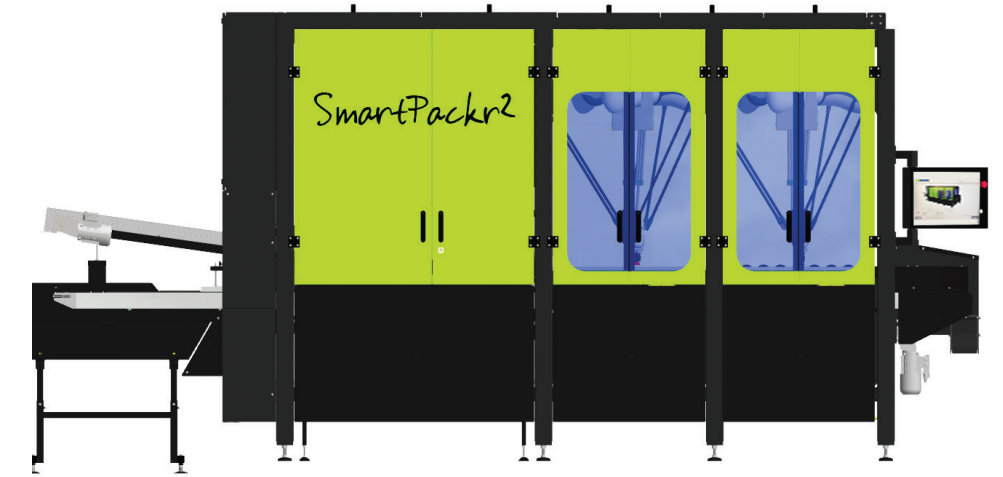
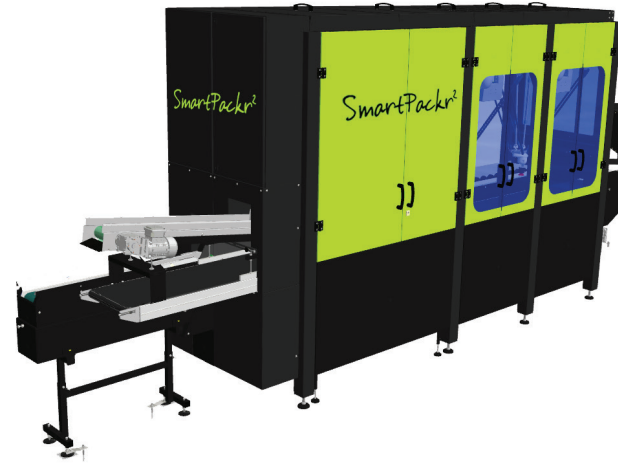
The **iDA-XR HS** is a high speed rotation dumper for apples and pears. The capacity is 60 bins per hour. The **iDA-XR HS Q** can also nest your bins; this saves you a lot of space.



SmartPacker2

HIGH SPEED PACKING ROBOT FOR FRUITS





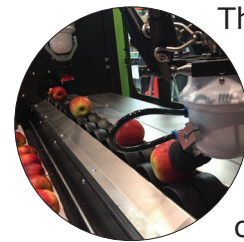
INTELLIGENT AND HIGH SPEED FRUIT PACKER

GREEFA is known for its innovative ambition. Just like our patented packing robot – which is faster, more dependable and optimally designed to exceed our customers' expectations for consistent packaging of high-quality fruit.

With rigorous enthusiasm, yet utmost care, it fills trays and open top boxes at a rate of up to two fruits per second – an outstanding example of the fruit-friendly focus of all our machines and peripherals.

And to ensure the quality of the packed fruit by a final quality scan, the robot can be optionally fitted with GREEFA's measuring system for external quality detection (iQS) and a final scan for color.

MACHINE OPERATION AND TOUCH SCREEN



The fruits enter the robot's domain on an infeed belt and rotate on the diabolo unit during the journey from there to the packing mechanism.

And although they're not camera-shy their blushes and orientation are recognized to help place them in the right position for pick-up with the robot arm. Which then checks if this or that one fits the relevant tray before actually placing it there with blush side up and in the selected stem-calyx orientation.

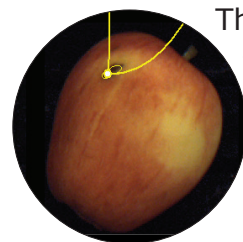
It's fast – done at a speed up to **two fruits per second** – and very fruit-friendly.

As soon as it's completely filled, the tray is carefully transported on an evacuation belt for further handling – usually to a box-filling station.



The tray denester reliably separates nested trays and accurately places them on the filling belt.

The denester is compact and can easily be integrated into the SmartPackr. The denester can handle trays of any rectangle shape. There's a light alarm for 'no tray'.



The packing robot can be optionally fitted with our measuring system for external quality detection (iQS).

KEY SPECIFICATIONS SMARTPACKR2



General

Capacity up to two fruits per second
Very fruit-friendly
60 - 100 mm size fruit
Consistent packaging
Automatic check for fruit and tray size
Applicable directly to a sorter or in a packing line



Orientation

Selectable stem-calyx orientation
Presentation apple with blush side up



Trays

Packing in separate trays or in open top boxes
Recognizes different trays and tray types
Maximum fruit / tray size 400 mm / 600 mm



Touch screen

Easy-to-use machine operation by touch screen
Touch screen moveable



Configuration

Modular design
Upgradeable, depending on required capacity and available space



Optional

Final scan for color and
External quality detection (iQS)
Tray denester
To be integrated in the sorting and packing line

