



GeoSortIII

SmartSort

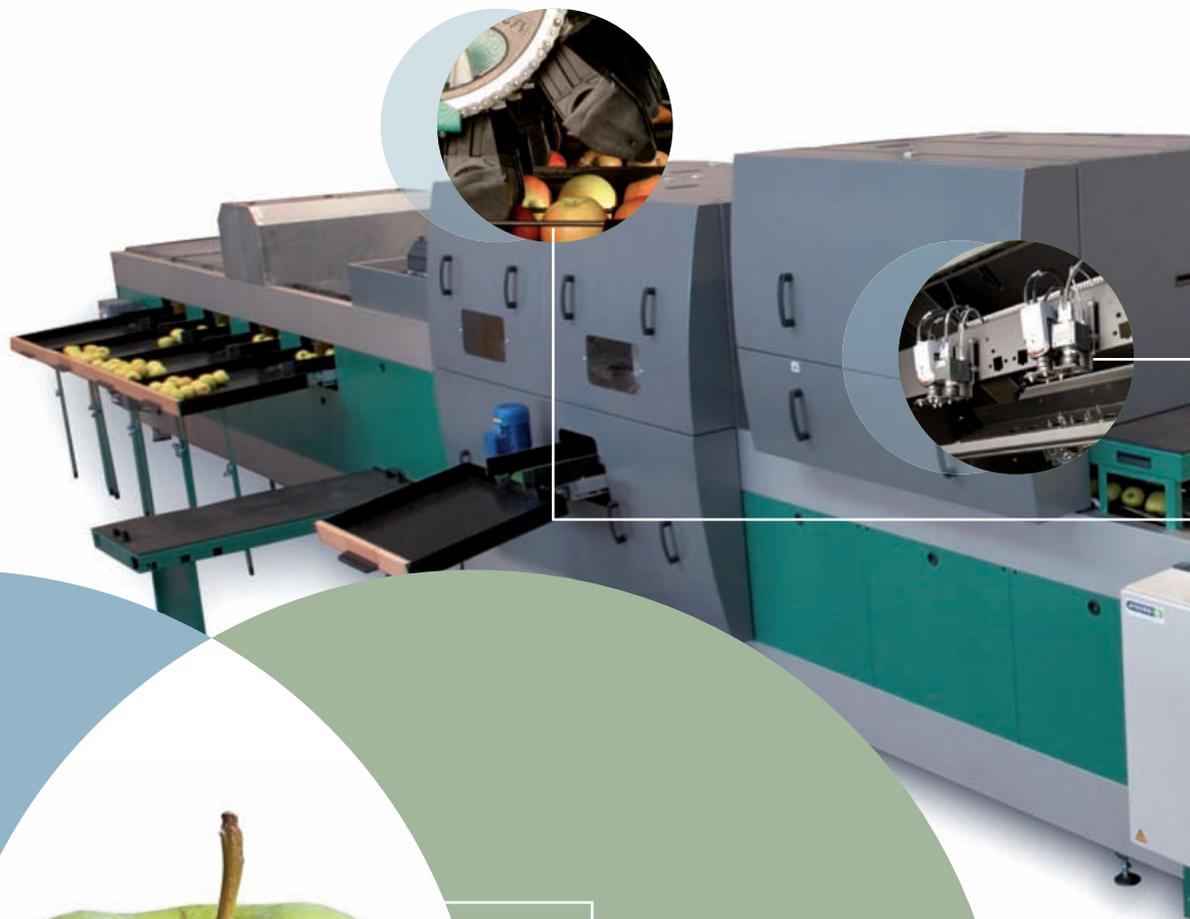
MSE

QSort

Fast, efficient and fruit-friendly
sorting of delicate fruit

GeoSortIII

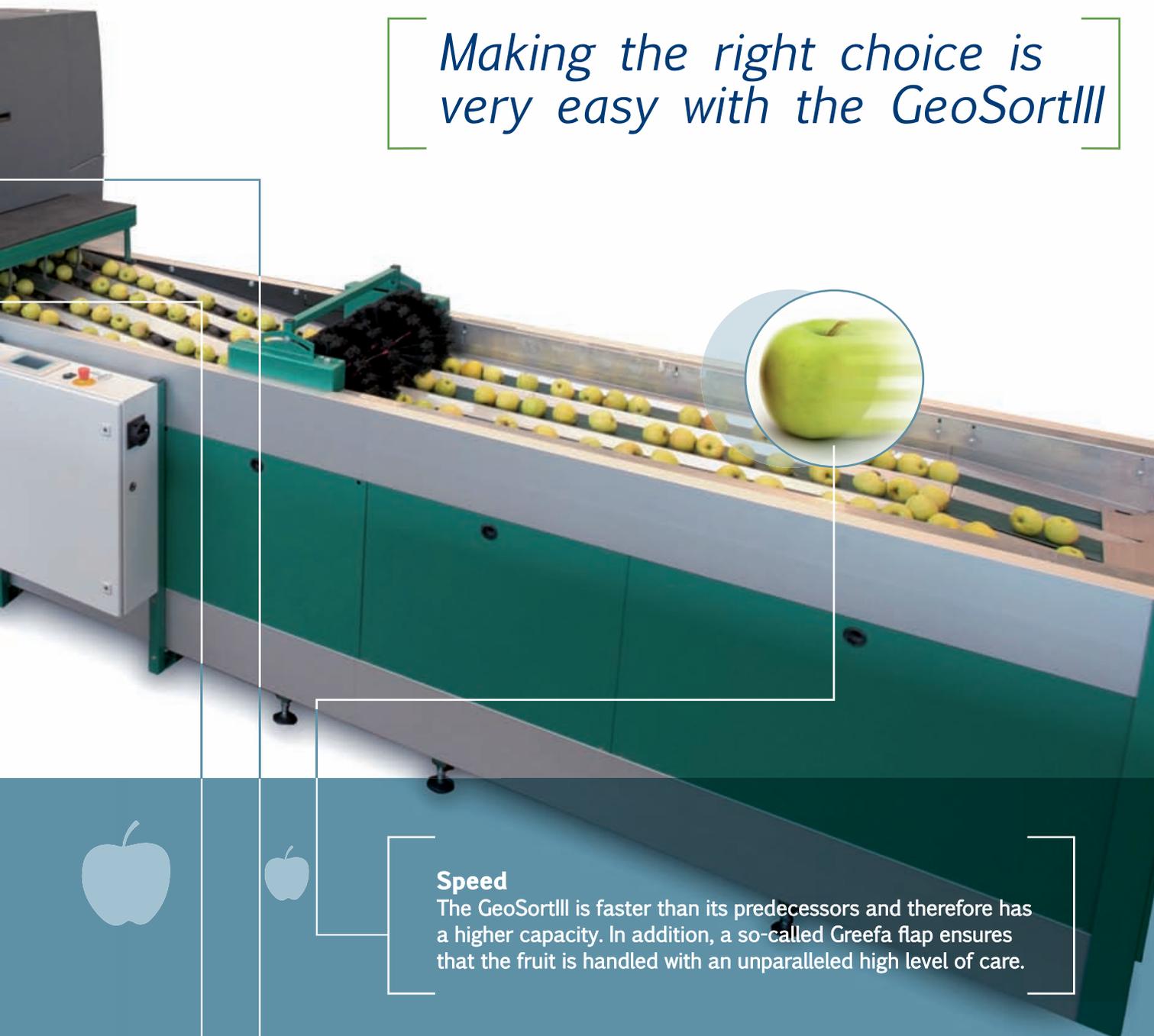




 *Making the right choice is very easy with the GeoSortIII*

Greefa proudly presents the new GeoSortIII. This high-end sorting machine sorts no less than 8 fruits per second, but also handles your fruit with great care. The GeoSortIII is therefore particularly suitable for easily bruised fruit, e.g. delicate apples such as Golden Delicious or peaches. Greefa designed the GeoSortIII with care, to better cater to your needs. The innovations that this involved are described adjacent. As you can see, we also gave the design the attention it needed.

Making the right choice is very easy with the GeoSortIII



Speed

The GeoSortIII is faster than its predecessors and therefore has a higher capacity. In addition, a so-called Greefa flap ensures that the fruit is handled with an unparalleled high level of care.

LED-lighting

The low-energy and maintenance-friendly LED-lighting in the camera box ensures accurate quality measurement.

Transfer unit

The improved transfer unit of the GeoSort III offers optimum accuracy at high speeds. Thanks to the unique Greefa-transfer system between the singulator and the carriers, the transport part is separated from the measuring part, which ensures optimum singulation, measurement and unloading of the fruits.

33% capacity improvement and guaranteed accuracy

The GeoSortIII has started a new trend in the market. Certainly where it concerns speed and capacity. Compared with its predecessor, it can sort no less than 33% more fruit in the same time. In absolute figures, this means that the GeoSortIII can now sort eight fruits per second instead of six. Of course, precise measurement and weighing are guaranteed at this high speed as is fruit-friendly handling in which the Greefa flap plays an important role.



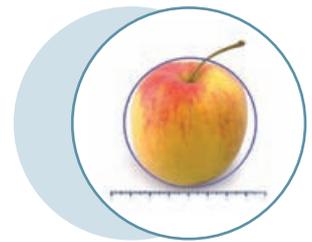
Optimised components

Almost all of the individual components in the GeoSortIII have been optimised to cope with higher speeds. This is true for the singulator, transfer unit and discharge elements. By making certain components more solid, unwanted vibrations are kept to a minimum. This ensures accurate measurement and weighing.

A sharp eye for quality

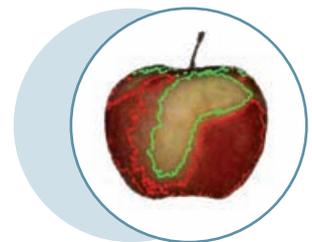
Size module

Fruit size is measured using high-resolution CCD infrared cameras (black & white). The size of each fruit is measured a number of times using a special combination of hardware and software. This ensures extremely accurate measurement.



Colour module

The colour of the fruit is determined using special CCD colour cameras. The fruit is sorted using these cameras according to an average value with respect to blush, colour or background colour. Moreover, the use of special filters eliminates the effect of any reflection.



Weight module

The fruit is electronically weighed using an advanced 3-point weighing system. This system is found in the transfer unit. This ensures extremely high accuracy and minimises the risk of contaminating the weighing elements.



iQSIII (external quality)

The continuous efforts of our R&D Department resulted in the launch of iQSIII. This intelligent Quality Sorter sorts your fruits automatically according to the external quality of the fruit by taking about 70 pictures of each fruit. This is done using special infrared and colour cameras. The advanced software analyses the pictures and classifies them according to the programming of the operator. This third generation iQS uses the 'Geomodel', in which the pictures are placed in the right perspective for optimum accuracy.



iFA (internal quality)

The GeoSortIII does the almost impossible. The intelligent Flavour Analyser (iFA) determines the internal quality of your fruit by analysing them using Near Infra Red (NIR). Unique here is the transmission technology, which screens the entire fruit. The brix value, internal brownness and core rot can be determined based on the measurements taken.



Impressive selection of innovations

iGS (machine operation)

The GeoSortIII is as standard equipped with the Greefa intelligent Grading Software (iGS). This user-friendly system is based on Windows and offers numerous possibilities of adding external systems. It can, for example, be connected to the Warehouse Management System of your automatic pallet warehouse.



Greefa-flap

Fruit-friendliness is essential for sorting your fruit. The unloading from the carrier is an important point here. Greefa has a number of systems for this, such as sideways unloading through brushes, a system with which the Greefa SmartSort is equipped. For the GeoSortIII, Greefa has, however, again chosen the well-known and wear-resistant Greefa-flap. This unloading has also adapted to be compatible with the GeoSortIII. The advantage of the Greefa-flap is that the sorting speed in no way affects the fruit handling. This means that fruit-friendliness is also guaranteed at high speeds.

Easy to use and low maintenance

Automatic cleaning unit

The GeoSortIII can be fitted with an automatic cleaning machine. This solid PLC-operated machine thoroughly cleans the carriers and diabolos. This will save you a lot of cleaning work.



VPN-connection

Via a VPN-connection, Greefa can, when needed, call up your machine and check it 'real time'. In this way, you are assured minimum downtime and optimum support.

LED-lighting

A combination of different types of advanced LEDs ensures a broad spectrum of light. In this way, the unique Greefa iQSortIII-system very precisely determines the external quality of your fruit. Using LEDs has resulted in a hardwearing and energy-efficient measuring unit with strongly improved maintenance-friendliness.



Accessibility and maintenance

Maintaining the GeoSortIII takes little time. There are three different reasons for this. Firstly, the sorting machine comprises hardwearing components that we purchase from our highly qualified suppliers. Secondly, the important parts of the GeoSortIII comprise as few elements as possible, to keep maintenance to a minimum. And lastly, the accessibility of the parts that require more frequent maintenance has been optimised.



Automatic lubrication

GeoSortIII parts for which lubrication is essential have been equipped with a fully-automatic, electrical lubrication system. This system is PLC-operated and it always provides the right amount of lubrication at the right moment. This keeps wear and tear to a minimum.



Greefa ... quality in motion

Internationally, Greefa is one of the largest designers and manufacturers of fruit and vegetable sorting machines. Companies all over the world use our high-quality products. We design every part of our machines, modules and especially designed software in-house. With these unique machines and modules, we can offer solutions that satisfy your needs regarding functionality, ease-of-use and sorting requirements. No two sorting needs are the same and so our solutions are different. With our innovations, we principally focus on efficiency and the quality of your fruit and vegetables. In this way, we always anticipate all your requirements and needs.

If you would like to know more about our sorting machines,
please do not hesitate to contact us!

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