fast fruit-friendly precise solid reliable modular innovative profitable silent safe

Our Quality makes the difference

products

quality of your fruit; defects no larger than a square millimetre can be detected. Since its introduction in 1996, hundreds of *i*QS units have been installed all over the world. The second generation *i*QS has recently become available.

Result: regardless of the lot of fruit, a uniform product of consistent quality is sorted throughout the working week. The *i*QS module guarantees you a better and more consistent result than manual sorting for all kinds of fruit. Random checks on the external quality of your fruit are totally unnecessary.

Electricity

Sorting installation: 380V / 50 - 60 Hz
Sorting computer: 230V / 50 - 60 Hz

Options

- Size, colour, weight and *i*QS
- Detailed computation of sorting data
- Labeller interface for selective application of stickers
- Weighing unit for sorting peppers by weight as well as diameter
- Possibility to control fillers via the sorting computer
- Printer with software for processing lot results in a flexible manner
- Modem support
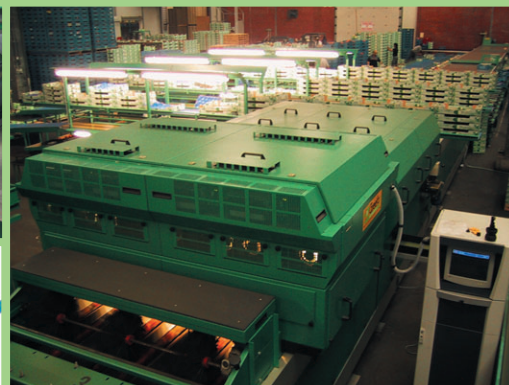- Long-short programme for sorting peppers by length as well as diameter

Greefa has specialised in the development and production of advanced grading systems since 1952. We combine experience and expertise with the latest techniques and technological developments to produce the installations that have established our reputation in more than 40 countries: durable, user-friendly, high-tech grading installations.

Fruit-friendly

In the MSE concept Greefa has paid a great deal of attention to the fruit-friendly treatment of your peppers. A minimum of transitions during transportation on the machine, avoiding differences in speed and the patented Greefa flap all guarantee a fruit-friendly grading process.

GREEFA

Computer controlled

The MSE is equipped with a special sorting computer with a user-friendly operating programme. The programme offers a wide range of possibilities, such as a combination of size, weight and/or colour sorting, spreading one or more main sizes over several outlets or discharging various sizes at one outlet. 16 different sorting programmes are possible per variety. The operating programme offers a total of 960 sorting programmes.

Modular construction

Greefa has elected to use a modular component system. This means that the components can be assembled in a variety of ways, resulting in perfect custom-made machines that meet your specific requirements. It also makes it quite easy to extend or modify the machine at a later date. Not only can your installation grow with your company, your company too can grow along with the latest developments and technology in the sorting field.

Peripheral equipment

Greefa also supplies an extensive range of peripheral equipment to sort your peppers as efficiently as possible. Every machine can be extended with box tippers, water dumpers, packing belts, box fillers, weighing units, stackers and de-stackers, washing units, driers etc. This means a single supplier for all your sorting and packing needs.

Technical specifications

Capacity MSE

Sorting speed: 5 fruits per second, continuously variable
Number of lanes: 2, 4, 6, 8 and 10
Number of outlets: up to 50

Modular construction

The following modular options can be added to your installation:

Size, colour, weight and *i*QS

We use CCD cameras for **size** sorting. If desired, camera measurement may be combined with electronic colour and/or weight sorting. Size sorting is adjustable in steps of 0.1 mm. The measuring range varies per product.

The number of size groups that can be used depends on the product and the type of grader. Within the size module, it is also possible to select both short and elongated fruit with the same diameter. Length sorting is done in millimetres or proportionately to the diameter.

A **colour** CCD camera is used to sort the brightly coloured peppers. Glittering fruit will not have an adverse effect. The colour sorting range comprises 1023 points, from green to red. The number of colour groups that can be used varies per product and per machine.

It is also possible to determine the blush (percentage red in relation to the lighter background colour) of unevenly coloured fruit. This makes it possible to quantify the external added value of your fruit.

The fruit is weighed in the cup, depending on the type of machine. The weighing system is accurate (3-point) and adjustable in steps of 1 gramme. Weighing is done at high speed.

The **weight** range varies per machine and per product. The same applies to the number of weight groups that can be used.

*i*QS is a separate module that is fitted to the machine, above the singulator. When the fruit pass the singulator, the *i*QS system makes up to 70 registrations per fruit. We use both black and white and colour cameras for this purpose. In this way, *i*QS offers you optimal control of the external