



Symbol of Perfection

Uni-Cup Sorting Machines

The specialist in sorting fruit and vegetables

www.vanwamel.nl



UNI-CUP SORTING MACHINES

Uni-Cup Cupsorter

CUPS

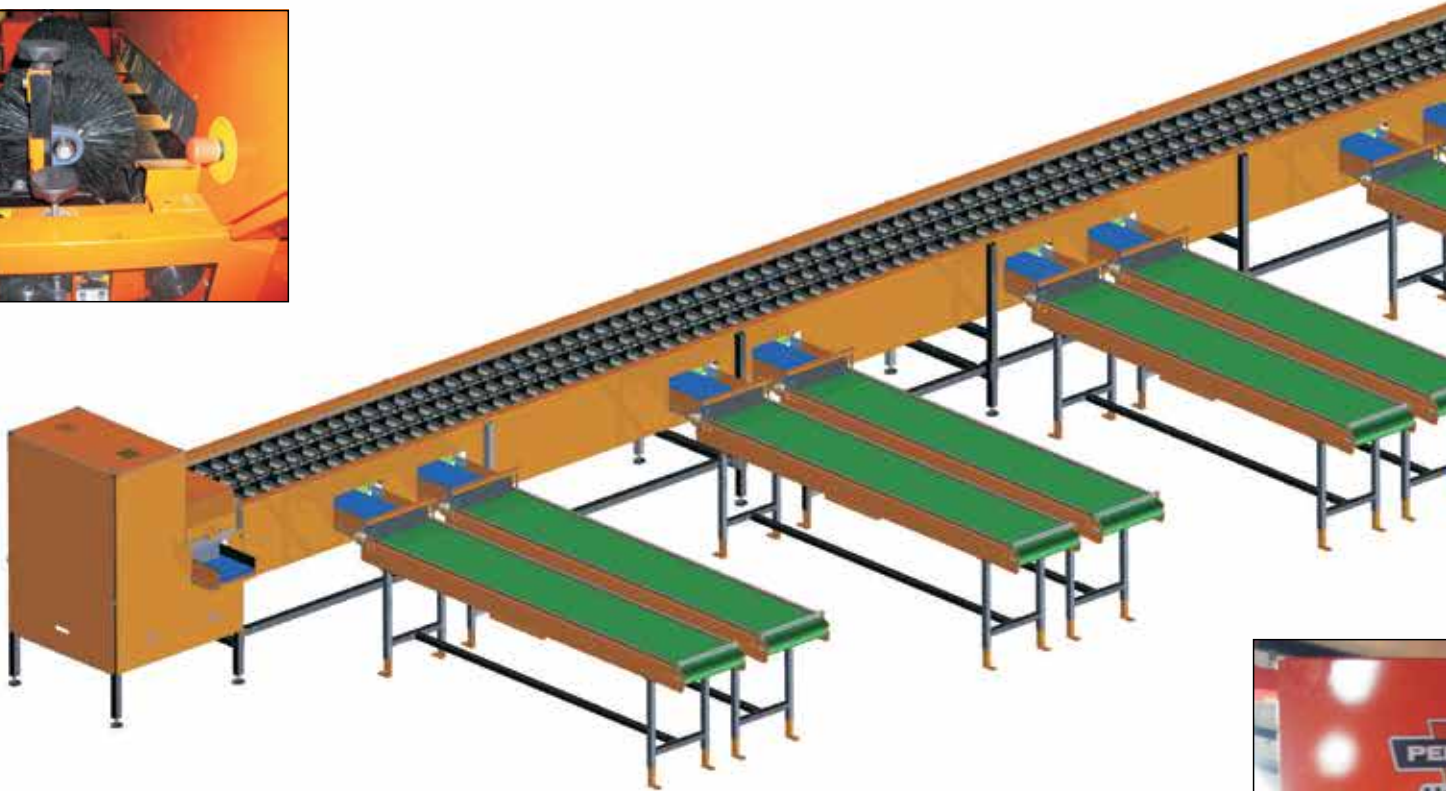
The Uni-Cup sorting machines are designed around their special universal cups, which are especially suited for sorting fruits and vegetables of difficult shape and sizes such as Conference pears or paprika. Also bigger fruits like mangos or avacodos can be sorted by these machines.



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PRODUCT FRIENDLY

When designing, "Perfect" has paid special attention to the product friendly handling of the fruits and vegetables. Minimal and smart transitions in combination with the standard time adjuster between the singulator and the cups assure a very product friendly handling of both smaller and bigger products.



PRODUCT MEASUREMENTS / CAPACITY

By means of frequency control the grading speed is stepless adjustable from 45 to 180 cups per minute per lane, which equals approximately 300 - 1250 kg (660 to 2750 lbs) per hour per lane (at average fruit dimensions). Suited for round and semi-round fruits and vegetables.
Diameter: 35 - 105 mm
Length: 40 - 170 mm

CLIENT SPECIFIC

"Perfect" sorting machines are build according to the requirements of the individual customer. The standard machine can be extended by additional size sections and/or spacer sections of 715 mm (2'4") each.

SINGULATOR

The singulator is provided with flexible diabolo-shaped brushes with frequency regulated control of the direction and the speed of the rotation. Upon request the rotating direction and rotating speed of the brushes under the cameras can be adjusted independently of the brushes of the singulator. The standard singulator with a length of 1600 mm (63") can be extended by 860 mm (34").

UNI-CUP SORTING MACHINES



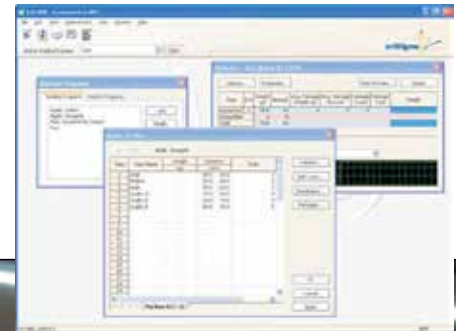
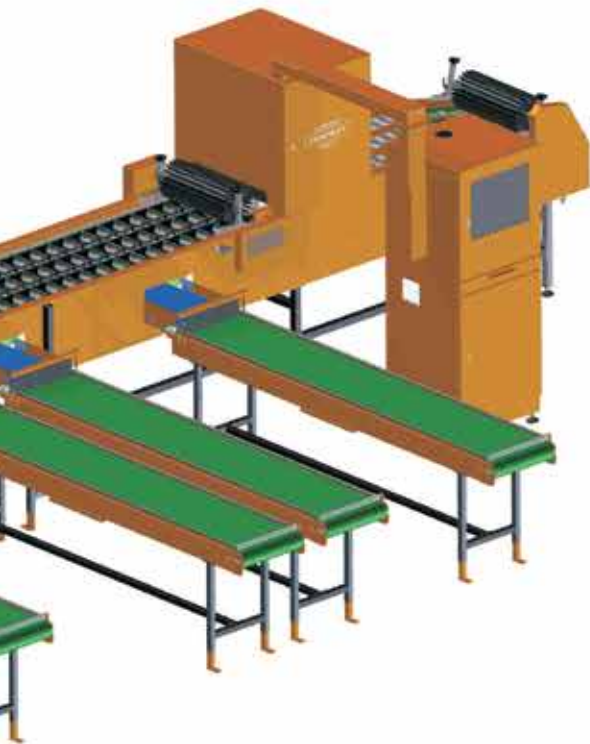
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Sorting Program

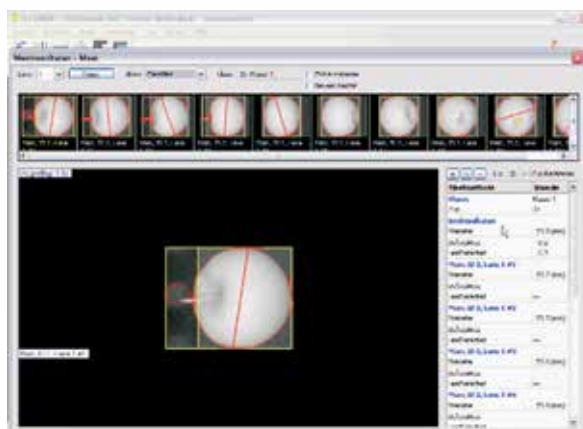
WINDOWS INTERFACE

All electrical "Perfect" sorting machines are equipped with a proven and extreme user-friendly Windows 7® Interface . The sorting programs can easily be modified, re-named and re-stored by the user at his convenience.

Standard configuration includes a modem for internet support or program updates = less standstill. The statistics can easily be transferred and edited at another computer.



Optical Measuring System



Uni-Cup sorting machines are standard provided with a well-balanced diametrical measuring system. Each individual fruit is scanned in several positions by a high resolution camera. Unique is the software which is not calculating the average diameter, but instead finds the most accurate measurement between all the pictures. By means of this unique software a very accurate grading result can be realised.

Special programs have been developed for different types of products, such as round,- oblong- and flat apples, pears, sweet peppers, tomatoes, citrus fruits etc. Diameter-length-ratio enables to separate long and short fruits of the same diameter-size (e.g. for pears).

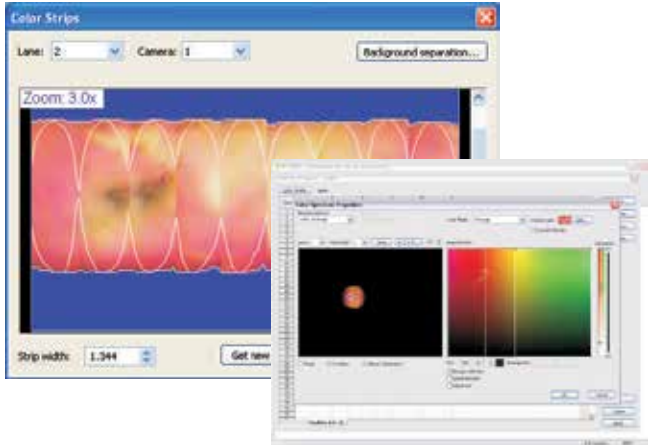
All sizes are adjustable in steps of 0,1 mm (0,004"). These adjustments can be made during operation. The size accuracy of the computer-calculations is 0,5 mm (0,02").

OPTIONAL MODULES

WEIGHT MODULE

Upon request a module with an electronic 3-point weigher can be mounted in front of the first size-section to weigh every product separately.

- Sorting of the products by weight or wall thickness (e.g. Paprika)
- The computer can make packages by weight and/or quantity
- Weight statistics can be used to create for example invoices etc.



COLOUR MODULE

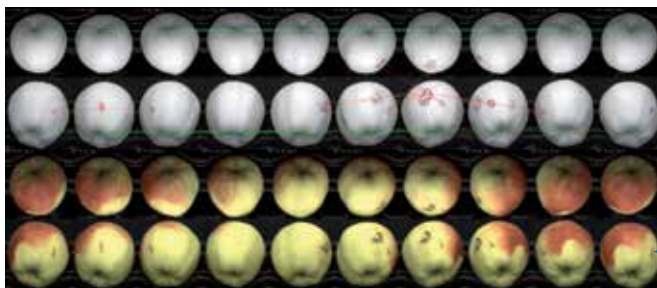
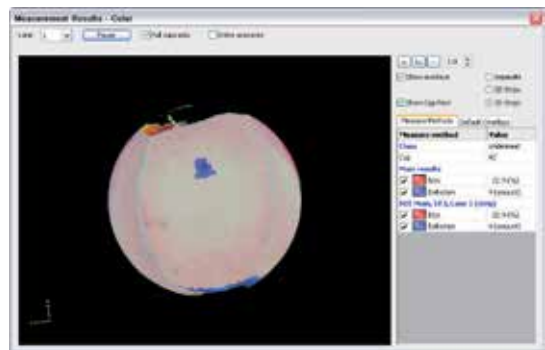
The Uni-Cup sorting machines include (as optional extra) the possibility to sort fruits by colour. During rotation on the brush-singulator, the fruits are electronically scanned by colour cameras upon which a picture of the entire fruit becomes visible. The computer is programmed in such a way that each section of the fruit is only scanned once.

- The system can distinguish 32.000 colours
- The user selects only the colour range of his interest
- Basic colour as well as blush range are separately adjustable
- Both basic colour and blush are adjustable in steps of 1%

EXTERNAL DEFECT SORTING (EDS)

By means of the optional EDS system it is possible to sort by external quality e.g. for sorting out fruits with hail damage or rot.

- Robust outcome after short training of the software
- Number of pictures is adjustable up to 80 / product
- Smallest defect size and sensitivity are adjustable
- Grading on number of defects or defect percentage
- Depending on the product type and variety up to 95% accuracy
- Leaf detection to avoid erroneous measurements
- Unique detection of stalk and calyx
- Also works on dark products, for example dark red McIntosh apples
- Customer friendly support by internet



Nr Defects	3
Defect Area	2,5%
Nr Dark Defects	2
Dark Defect Area	2,3%
Rot Percentage	0,4%
Rust Percentage	3,9%
Leaf Detected	0,0%
Mold Percentage	0,4%

ACCESSOIRES

"Perfect" is also your supplier for options and accessories like Bulk bin tippers, Waterdumpers, Packing belts, Packaging machines etc.

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Technical specifications can be changed without prior notice

Dealer: