

We Take Care of your Fruits all Around the World

LOGIKA
Electronic Grader



futura
fruit technology equipment

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LOGIKA CENTRAL DISCHARGE

Logika Central Discharge is the most suitable solution for medium to high grading processes. In fact, it offers the possibility to work with a number of lanes that can vary from 2 to 8 (in pairs). The optimal filling rate of our trolleys, which is up to 90-95%, guarantees a very high grading capacity. Like any grading system by Futura, Logika Central Discharge caters to a wide range of needs. The flexibility of this line, attention to details, and the use of high-quality materials ensure top-quality performance and the gentlest handling of your products.



TECHNICAL FEATURES

GRADING PARAMETERS

Weight, Size, Colour and External Quality in some applications.

RANGE OF WORKABLE PRODUCTS

Apple, Pears, Stone Fruits, Pomegranate, Tropical Fruits, Citrus, Date, Dragon Fruits, Vegetables, Persimmons, Garlic.

TROLLEY PITCHES: CUP OR ROLLER

Cover a wide range, depends on size of the products: 76mm, 95mm, 114mm, 114+mm, 152mm & 190mm.

NUMBER OF WORKING LANES

2, 4, 6 & 8 lanes.

WORKING SPEED

Depends on the products from 5 to 15 fruits / sec. / each lane.

STRUCTURE

Extruded aluminium, painted profiles, galvanized iron or Stainless Steel AISI 304.

TYPE OF FRUITS DISCHARGE

Central discharge via fruits collection belt on each exit through the flap, brushes or slipway.

INCLUDED ACCESSORIES

Remote diagnostic supports via internet, efficient programming and control system, offering a wide range of statistical reports, recall and Activating of any saved program as you need, setting the outputs and exits based on what you need.

OPTIONAL ACCESSORIES

Labelling system, Traceability system, Automatic trolleys washing system,



WEIGHT DETECTION

Our graders are specifically designed to accurately measure the weight of a wide range of products. They detect the weight of each individual product using high-quality load cells constructed from stainless steel and chrome-plated housings. Our system ensures optimal precision even when operating at the highest speeds.



PRE-ALIGNING SYSTEM

The pre-aligning system consists of V-shaped AISI 304 components, equipped with two distinct speed belts for each channel. Its primary objective is to efficiently align the products prior to their entry into the grading machine.

SINGULATION SYSTEM

The key element of our machines, which plays a crucial role, involves the utilization of metal sheets covered with soft rubber. These specially designed sheets transport the fruits into the trolleys, ensuring optimal singulation and precise handling of each individual fruit.



DIAMETER, COLOUR DETECTION AND EXTERNAL QUALITY

Our grader utilizes a sophisticated system consisting of a box equipped with LED lighting and high-resolution cameras. This innovative setup enables the detection of the diameter, shape, and colour of each product with remarkable precision. The dedicated cameras for diameter measurement and colour analysis are installed separately for each working lane, ensuring accurate and detailed data collection.



OUTLETS AND PRODUCTS DISCHARGE

The products are seamlessly discharged from the trolleys using computer-controlled solenoids. These solenoids expertly tilt the trolleys, allowing each product to gracefully descend onto an accompanying curtain before smoothly landing on the outfeed belt.

