ELEKTRONIK SYSTEM
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ELEKTRON-SOP-600 OPTICAL SORTER

➢ COLOR SORTER - optical detection system anomalies in terms of different color and shape not matching the tested product.

➢ Designed for sorting vegetables (dried, frozen, fresh), products liquids, puffed foods (rice), nuts (i.e. walnuts, almonds, cashew, pine nuts, etc.),

➢ Equipped with a quick-release design disassembly and cleaning.

➢ Effectively detects foreign bodies in raw materials, but also identifies their defects, e.g. damaged skin, mold, stains, etc.

PARAMETRES

Model	ELEKTRON-SOP-600
Contamination separation	Glass, plastics, metals, ceramics, rubber, various grains, earth, stone, animal waste, strings, paper, branches, cigarette butts, coal residues, shells, bones, fruit shells, colour-differentiated products, etc.
Number of channels	2 x 63
Dimensions (mm) (L x D x H)	3450 x 1700 x 2050
Weight	1250 kg
Display	15-inch LCD screen
Belt width	600mm
Leakage class	IP54
Detection capacity (for herbs and vegetables)	100-300 kg / h
Number of air nozzles	126
Air consumption	≤1,2 m³/min
Pressure	0,6-0,8MPa
Voltage	220V 50Hz
Belt speed	Adjustable from 10-90 m/min
Operating temperature	0°C to 40°C
Operating humidity	30-90% non-condensing steam
Housing material	Glass-blasted stainless steel

SOLVE PROBLEMS THAT HAVE NOT BEEN SOLVED

In traditional optical sorting machines, sorting small foreign bodies, such as hair, requires a large number people, which results in high costs and unstable quality. This equipment can successfully replace Human factor. **ELEKTRON-SOT** has a disproportionately higher error rate compared tomanual detection. At a speed invisible to the human eye, it flawlessly eliminates what humans cannot is able to see. The efficiency of such an optical sorter is enormous. The color sorter allows you to detection of the smallest impurities such as hair, feathers, string, wood, insects and insect bodies, damaged or broken products, shells, seeds and other foreign bodies that cannot be seen by the X-Ray scanner.Thanks to **ELEKTRON-SOT**, we will avoid direct contact with people (bacteria, viruses).
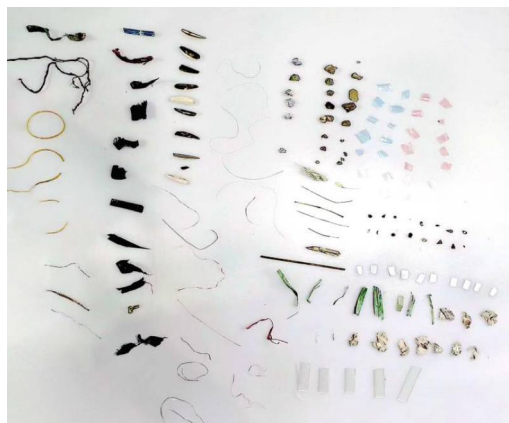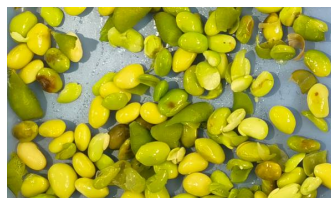
ADVANTAGES OF THE OPTICAL SORTER ELEKTRON

The **ELEKTRON-SOP-600** is a highly intelligent system that, with the support of **AI** artificial intelligence, expands the data of rejected samples obtained with a large number of markers to ensure minimised handling while optimising the sorting process. The programme is so flexible that memorised and processed data of different sortings can be matched to the same product type.

The state-of-the-art optical system is based on complex image recognition classification, which is then processed by a computer in spatial combinations. A programme with extensive capabilities supported by **AI** data using the cloud models a huge amount of data. With open-source style data linkage, complex sorting becomes easy and very efficient.

The **ELEKTRON-SOP-600** detects many more foreign bodies than similar optical sorters from other companies, including: glass, plastics, magnetic and non-magnetic metals, ceramics, rubber, out-of-range grains, soil, stones, animal faeces, insects. In addition, it detects uncommon inclusions such as fibres, threads, packing cords, hair tufts, etc. Objects resembling paper particles, material scraps, pieces of rubber gloves, branches, bark, cigarette butts, ash, coal, slime, shells, bones, bones, fruit shells, stems and roots are also no problem for the device. The **ELEKTRON-SOP-600** can eliminate products that are damaged mechanically damaged products or those nibbled by insects, detects and separates foreign bodies of a different colour, shape from the sample product.

DETECTION EFFECT