Renatus Maquinaria

Image Sorter

Description:

Dried pistachio contains different types of defects like adhering hull, black and yellow stained, crinkle shell, and foreign material; these defects cannot be detected by neither mechanical machines nor color sorters. Pistachio is more complex than any other nut in terms of shape and color. The common sorters machines can only detect color of pixels which is not enough to distinguish pistachio types. This machine enables detecting perfect pistachio from defected pistachio utilizing artificial intelligence and image processing. Only choose defect type, sorting will be done!

Product Features:

- Update and maintenance over internet.
- User-friendly interface.
- High quality imaging and high precision detection.
- Fully automated.
- Powered by specialized AI for pistachio.
- Capability to use different AI classifiers in a single machine.

Models & Technical Specifications:

Part no.	Number of channels	(Per channel)	
RA-PIS-500	1	Dimensions (Length X width X height)	210 X 62 X 208 cm
		Power consumption	1000 watts
RA-PIS-1000	2	Power supply	220 VAC – single phase
		Air pressure	8 bars
RA-PIS-1500	3	Air intake	<230 L/min
		Sorting capacity	Up to 500 kg/h
RA-PIS-2000	4	User Interface	13.3-inch touch screen

Shell Sorter

Pistachio	Perfect	Adhering hull	Foreign material	Crinkled shell	Black stain	Yellow stain
Basic	✓	✓	✓	✗	✗	✗
Professional	✓	✓	✓	✓	✓	✓

Nuts Sorter

Pistachio	Perfect (fully opened)	Partially opened
Luxury	✓	✓

Kernel Sorter

Pistachio Kernel	Perfect	Shell	Black and bugs damaged	Split
Basic	✓	✓	✗	✗
Professional	✓	✓	✓	✓

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