INNOVATION IN PEANUT SORTING

FASO
COLOR SORTER

FASO

RGB

FASO

MX-PNS
Ultimate Peanut Sorting Machine

Camera
with 16200 Pixels

4D
Image Processing

Super Brain
System

Advanced
User Interface

LED
lighting

Artificial
Intelligence

High Speed
1000Hz Ejector

PUGOS TECHNOLOGIES
Color Sorting Machine Manufacturers

MX-PNS SERIES

Our MX series industry color sorter is engineered and designed to sort rice with the help of cutting edge Ultra High Resolution, HD Artificial intelligent cameras. It effectively removes basic defects like discoloured wholes, splits, bits, unpeeled shells and Immature defects and produces excellent results with good quality sorting with minimum rejection. Our MX series industry color sorter adapting Artificial intelligence with cutting-edge vision system improves the sorting performance in multiple folds. Being available in different frame sizes, it suits all capacity requirements based on the customer expectation.

MODEL	SIZE IN MM	POWER (kw)	CAPACITY(t/h)	WEIGHT(kg)	POWER INPUT	AIR (hp/cfm)
MX-PNS-HC	1870 x 1710 x 1720	1.3	0.3 - 0.5	760	AC 220V/50Hz	7.5Hp/25cfm
MX-PNS-1C	1870 x 1710 x 1720	1.8	0.5 - 1.0	840	AC 220V/50Hz	7.5Hp/25cfm
MX-PNS-2C	2185 x 1710 x 1720	2.3	1.0 - 2.0	1030	AC 220V/50Hz	15Hp/45cfm
MX-PNS-3C	2500 x 1710 x 1720	2.8	1.5 - 3.0	1220	AC 220V/50Hz	20Hp/60cfm
MX-PNS-4C	2815 x 1710 x 1720	3.3	2.0 - 4.0	1350	AC 220V/50Hz	30Hp/60cfm
MX-PNS-5C	3130 x 1710 x 1740	3.8	2.5 - 5.0	1510	AC 220V/50Hz	40Hp/120cfm
MX-PNS-6C	3760 x 1710 x 1740	4.3	3.0 - 6.0	1850	AC 220V/50Hz	45Hp/135cfm
MX-PNS-7C	3935 x 1710 x 1740	4.8	3.5 - 7.0	2190	AC 220V/50Hz	50Hp/150cfm

Note: The throughput and parameters may be different according to the input contamination level of the raw materials,
These specifications can be changed without any notice.

TECHNOLOGIES

CAMERA
RGB Camera with 16200 pixels is the key element of MX series sorters providing high resolution images to identify the defects accurately It uses 24 bit processing and can provide ultra high resolution HD image of 190 million pixels which can detect defects down to 0.06mm size.

ALGORITHM
In the Artificial intelligence mode our software is capable of 4Dsorting which includes R+G+B+SIZE. Image processing is possible in any orientation and uses the particle centering algorithm which identifies the centre of the rice particle exactly. The self learning algorithm sorts the materials based on shape and size. It is available in both forward and reverse Sorting modes.

SUPER BRAIN
Super brain system allows sorting based on the characteristics of the material. This advanced system provides best classification parameters based on Artificial Intelligence and satisfies the requirements for custom sorting

EJECTOR
High speed ejectors pushes the defective rices out of the flow path.With 0.1ms response time, the ejector operates at a frequency of1000 Hz. High quality ejectors with excellent life of over 10 Billioncycles optimizes and reduces the air consumption reducing theoverall working cost.

FPGA
The core of the system which is the high performance 28nm FPGAprovides extremely reliable hardware architecture because of itscompact design. Multi core design offers better reliability anddurability. The electronics has extended life time due to 65% lowpower consumption.
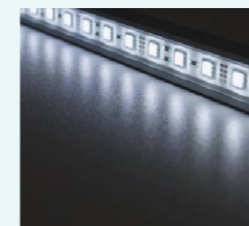
LED
The high performance LED offers ultra-brightness for clear images at high speed. These LEDS have an extremely long life and our specialized electronics provide intensity control. for different materials for optimised sorting and also to increase the life of the LED's

INTERFACE
Our design philosophy is centered around user-friendly software to control the machine. Our UI is intuitive and simple to use with intergated internet connectivity to provide remote access for support and updates. High end embedded computer with up to 50Hz communication speed enables remote self learning and quick setting time.
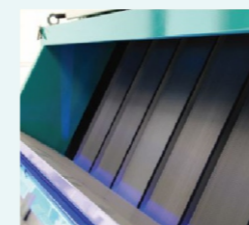
CHUTE
We use High-quality and ultra-wide trough for material feeding. Our high speed feeders and chutes ensures uniform flow of material offering higher production rate in line with international standards. These wide chútes ensure smooth material flow and better sorting.

PUGOS TECHNOLOGIES
Color Sorting Machine Manufacturers

FASO Color Sorter established at 2008 and specialized in designing and manufacturing of Color sorting machines in India. Over 12 years of experience, our company offers professional Color sorters according to the material type and configuration to the food and non-food processing industries.

We make high end sorting machines for commodities like Rice, Dhal, Wheat, Millet, Seeds, Spices, Tea, Coffee, Nuts, Dehydrated Vegetables, Fruits, Salt, Sugar, Recycled Plastics, Onion, Paper, Glass, Metal, Mining Precision, Performance and Efficiency. The complete machines are manufactured by cutting edge advanced technology.

Our Color sorter having strong market share in global markets like America, Asia, Australia and Europe. In India we have over 25 service centres with over 50+teammembers to take care of after sales support.

Our sorting machines have been designed to meet the highly demanding standards of food safety and quality and for non-food industries, to deliver maximum product purity of best values.

SORTING SAMPLES

INPUT

ACCEPTANCE

DARK

PEALED

GRAY (BITTER)

REJECTANCE

PUGOS TECHNOLOGIES
Color Sorting Machine Manufacturers

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