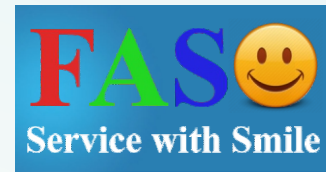


INNOVATION IN TEA SORTING



Tea Board of India Approved



Camera
with 16200 Pixels



4D
Image Processing



Super Brain
System



Advanced
User Interface



LED
lighting



Artificial
Intelligence



High Speed
1000Hz Ejector



PUGOS TECHNOLOGIES
The Ultimate Sorting Machine

Black Tea



Input



Accept-1



Accept-2



Rejection

Green Tea



Input



Accept-1



Accept-2



Rejection



COLOR
SORTING
RESULT

DUOS
Series

Pugos Technologies

SF. No.,272 / 2A2, Mettusalai, Mambally, Kinathukadavu,
Coimbatore - 641032. Tamilnadu, India.

Web : www.pugostech.com | Email : marketing@pugostech.com



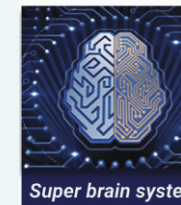
Camera

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.



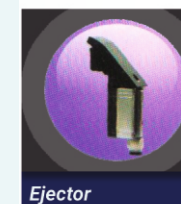
Image Processing

In the Artificial intelligence mode our software is capable of 4D sorting which includes R+G+B+SIZE. Image processing is possible in any orientation and uses the particle centering algorithm which identifies the center 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 system

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.



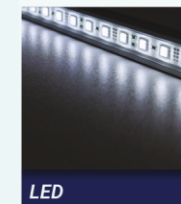
Ejector

High speed ejectors pushes the defective rices out of the flow path. With 0.1ms response time, the ejector operates at a frequency of 1000 Hz. High quality ejectors with excellent life of over 10 Billion cycles optimizes and reduces the air consumption reducing the overall working cost.



FPGA

The core of the system which is the high performance 28nm FPGA provides extremely reliable hardware architecture because of its compact design. Multi core design offers better reliability and durability. The electronics has extended life time due to 65% low power consumption.



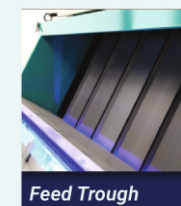
LED

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



User 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 5 GHz communication speed enables remote self learning and quick setting time.



Feed Trough

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 chutes ensure smooth material flow and better sorting.

TEA SERIES

Ultimate Tea Sorting Machine

INNOVATION IN TEA SORTING

PUGOS TECHNOLOGIES

Color Sorting Machine Manufacturers

Factory:

No. 272/2A2, Mettusalai,
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FASO
COLOR SORTER

Faso color sorter established at 2008 and specialized in designing and manufacturing of color sorting machines from India. Over 10 years of experience, our company offers professional color sorters according to your material type and configuration to the food and non-food processing industries.

We make high end sorting machine for commodities like Rice, Dhall, Wheat, Millet, Seeds, Spices, Tea, Coffee, Nuts, Dehydrated Vegetables, Fruits, Salt, Sugar, Recycled Plastics, Paper, Glass, Metal, Mining and Stones. Our advanced sorting machines sort by color, size, shape and material with superior precision, performance and efficiency. The complete machines are manufactured using cutting edge advanced machines.

Our color sorters having strong market share in global markets like America, Asia, Africa, Australia and Europe. In India we have over 25 Service centers with over 50+ team members to take care of after sale 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 for best value.



INNOVATION IN TEA SORTING

Our FASO range of sorting machines is the first of its kind in Tea sorting system with specialized features for high quality, fast and accurate sorting with ease of use. FASO DUOS Series uses ultra high resolution line scan cameras to inspect the product to be sorted. FASO is the First Indian sorting machine to use the real camera technology. Every particle is imaged by cameras in two stages and verified by FASO'S proprietary intelligent image processing algorithms. The advanced image processing technology gives higher level of defect detection which leads to efficient sorting. Computer based system monitoring gives unmatched sorting performance even during the variations in lighting and product color.

SPECIAL FEATURE

- New algorithm includes special features for Tip retaining, size sorting, reverse sorting»
- Rejects brown particles in tea.
- Eliminate red ends and all stalks.
- Negligible black tea rejected with stalk.
- Flexibility to configure the defect size LED lighting for long durability and high performance
- Computerized system can store multiple settings for variety of products.
- Automatic Cleaning for Periodic wiping
- Easy debugging test utilities
- Advanced valve analyzer
- Data Logging system for recording of complete system activity

SPECIFICATION

Model	Size (mm) L x W x H	Power Consumption (kW)	Capacity (Kg / Hour)	Air Consumption (hp)	Operating Voltage (Volts)
MX - TS-1C	1100 X 1330 X 1550	2.5	125 - 150	10	AC220V/50Hz
MX - TS-2C	1100 X 1330 X 1550	3.5	250 - 300	20	AC220V/50Hz
MX - TS-3C	1850 X 1330 X 1550	4.5	375 - 450	30	AC220V/50Hz
MX - TS-4C	1850 X 1330 X 1550	5.5	500 - 600	40	AC220V/50Hz
MX - TS-5C	2250 X 1330 X 1550	6.5	625 - 750	50	AC220V/50Hz
MX - TS-6C	2250 X 1330 X 1550	7.5	750 - 900	60	AC220V/50Hz

Model	Size (mm) L x W x H	Power Consumption (kW)	Capacity (Kg / Hour)	Air Consumption (hp)	Operating Voltage (Volts)
DUOS (TS-201)	1100 X 1850 X 3880	7.5	125 - 150	5	AC220V/50Hz
DUOS (TS-202)	1100 X 1850 X 3880	7.5	250 - 300	10	AC220V/50Hz
DUOS (TS-203)	1850 X 1850 X 3880	10.0	375 - 450	15	AC220V/50Hz
DUOS (TS-204)	1850 X 1850 X 3880	10.0	500 - 600	20	AC220V/50Hz
DUOS (TS-205)	2250 X 1850 X 3880	12.5	625 - 750	25	AC220V/50Hz
DUOS (TS-206)	2250 X 1850 X 3880	12.5	750 - 900	30	AC220V/50Hz

Model	Size (mm) L x W x H	Power Consumption (kW)	Capacity (Kg / Hour)	Air Consumption (hp)	Operating Voltage (Volts)
TRIOS (TS-301)	1100 X 1850 X 4780	7.5	125 - 150	10	AC220V/50Hz
TRIOS (TS-302)	1100 X 1850 X 4780	7.5	250 - 300	15	AC220V/50Hz
TRIOS (TS-303)	1850 X 1850X 4780	10.0	375 - 450	20	AC220V/50Hz
TRIOS (TS-304)	1850 X 1850 X 4780	10.0	500 - 600	25	AC220V/50Hz
TRIOS (TS-305)	2250 X 1850 X 4780	12.5	625 - 750	30	AC220V/50Hz
TRIOS (TS-306)	2250 X 1850 X 4780	12.5	750 - 900	35	AC220V/50Hz

Model	Size (mm) L x W x H	Power Consumption (kW)	Capacity (Kg / Hour)	Air Consumption (hp)	Operating Voltage (Volts)
QUATROS (TS-401)	1100 X 1850 X 4780	7.5	125 - 150	10	AC220V/50Hz
QUATROS (TS-402)	1100 X 4535 X 4780	7.5	250 - 300	20	AC220V/50Hz
QUATROS (TS-403)	1850 X 4535 X 4780	10.0	375 - 450	30	AC220V/50Hz
QUATROS (TS-404)	1850 X 4535 X 4780	10.0	500 - 600	40	AC220V/50Hz
QUATROS (TS-405)	2250 X 4535 X 4780	12.5	625 - 750	50	AC220V/50Hz
QUATROS (TS-406)	2250 X 4535 X 4780	12.5	750 - 900	60	AC220V/50Hz