



**QUBE**  
COLOR SORTER

Neugrow Optoelectronic Technologies is a National high-tech enterprise having more than 20 years of experience focusing on technical background of manufacturing and selling optoelectronic sorting machines with highest customer satisfaction. We have a duo team of technical and marketing throughout India for providing prompt 24/7 services on time. With our expertise and trustworthiness, we have secured a respectable position for ourselves in this domain. Different factors for which we have attained appreciation from clients

## VISION

To be the world's best and most respected Indian company in sorting industry using cutting edge technology - that means to be the No.1 Company in terms of

- Customer satisfaction
- Using latest technology
- Sales

## MISSION

To meet sorting requirements of global customers with highest quality and affordable cost.

## SPREAD ALL ACROSS THE NATION ARE:

- Quality assures products
- Adept team of professionals
- Ethical business policies
- Client-centric approach
- Large scale distribution network
- Excellent transport and logistic facility
- Reasonable prices
- Resistance to corrosion & abrasion



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For More Info



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# QUBE

INTELLIGENT  
MULTICOMMODITY SORTING MACHINE

ZG SERIES



5400\*3 MEGA  
PIXELS CAMERA



ARTIFICIAL  
INTELLIGENCE



INTELLIGENCE  
ALGORITHM



INNOVATIVE  
SMART LED



LOW POWER & AIR  
CONSUMPTION



SMART  
IMAGE CAPTURE



REVERSE  
SORT



ONLINE  
SERVICE



SIZE & SHAPE  
SORTING AVAILABLE



www.neutronsorster.com





- ✓ Professional wide view camera
- ✓ Chromatic Toshiba CCD sensor
- ✓ High reliability and long life OSRAM LED light
- ✓ American Super speed FPGA Processor
- ✓ France Schneider Electrical Components



## ADVANTAGES OF QUBE ZG SERIES

- 1) The only machine which can use for Multiple commodities without changing any mechanical parts.
- 2) User settings can be changed with the single click at 10" color touch screen
- 3) Sorting can be done according to the defect size and density.
- 4) Chute partition can be configured according to the customer requirement
- 5) Multiple settings can be stored
- 6) Product sorting is happening every after true Image capturing and auto calibration.
- 7) Possible to sort products through True color RGB based Image capturing and monochromatic based black and white sorting whichever is suitable according to the product.

## MODEL AND SPECIFICATION

Model	Z300	Z500	Z700	Z1000	Z1200
Throughput (tons/hr)	1.8-2.8	2.5-4.0	3.5-5.0	5.0-8.0	6.0-10.0
Rejection (Bad:Good)	15:1	25:1	25:1	25:1	25:1
Accuracy (%)	>99.9	>99.9	>99.9	>99.9	>99.9
Voltage/Frequency	220VAC 50-60hz	220VAC 50-60hz	220VAC 50-60hz	220VAC 50-60hz	220VAC 50-60hz
Power Required (in kw)	1.8	2.6	3.5	4.5	5.5
Air Required (CFM)	60	100	140	200	250
Weight (in kgs)	750	900	1150	1400	1800
Dimensions (in mm) L x W x H	1175 x 1650 x 2050	2400 x 1650 x 2050	3050 x 1650 x 2050	3750 x 1650 x 2050	4350 x 1650 x 2050

## MODEL AND SPECIFICATION



### IMAGE ACQUISITION SYSTEM

International cutting-edge industry special 5400\*3\*12K full-color high-speed line scan imaging sensor CCD, high definition up to 1.94 hundred million pixels per second image and special color sorting cameras tailored by top international suppliers, can precisely identify subtle spots of 0.04mm<sup>2</sup>, and meet high-end color sorting requirements of synchronous sorting and independent sorting for belly-white and core-white.



### INTELLIGENT DUST REMOVAL SYSTEM

Single exhaust system in front of the camera, light and fast glass dust. Real time scavenging ensure resolution and color selection accuracy, intelligent dust removal. The dust device is intelligent to judge the requirements of dust cleaning and reduce the number of ash cleaning. High production, greatly improve the efficiency of machine work.



### LIGHT SOURCE

Innovative smart LED shadow less cold light system design can efficiently find out small spots, light yellow, belly-white, core-white, black pin-points, which make identification and judgment much easier, sorting more accurate. The light source has long service life, high luminous efficiency and strong anti-interference stability, and no warm-up is needed.



### DATA WAREHOUSING

Build open vast databases, unlimited storage integration solution platform, wide material implementation used a multiple-choice, multi-usage, single machine can be completed at the same time two, three, four, carry out than reduction, single machine can be used for rice, grains, crops, such as widely used, the maximum product application value for the customer creation, sharing the convenience of the era of large data and commercial value.



### IMAGE PROCESSING SYSTEM

The rice small lesion, shallow yellow, white belly, needle point such as black leis, grain. aiming at provide more flexible separation combination scheme in the multiple modes of complex intelligent algorithm, color sorting accuracy higher, ratio of lower.



### LIGHT SOURCE CONTROL DIMMING SYSTEM

Advanced digital automatic dimming technology, which can automatically work according to the variation of material choose requirements and environment matching best brightness, fully guarantee the effect of color to choose.



### THE CLOUD SYSTEMS

Our cloud service technology platform, can real time remote control, operation and maintenance, software upgrades, light source, electrical, mechanical and proof reading problem diagnosis and monitoring, product online operation, data acquisition, online guidance, to provide real time, accessibility, close all active online tracking service.



### HIGH FREQUENCY ELECTROMAGNETIC VALVE

Independent development of color choose intelligent magnetic control high frequency electromagnetic valve, create a leading thick tank lever in flexible return technology alternatives to traditional pneumatic return function, flow without leakage, choosing permeability; original super conducting magnetic use and launch control, current limiting technology, compared with the industry average electromagnetic valve to save power consumption by about 70%, save gas consumption of about 20%; Application of new high anti-wear material matching equipment used, to ensure that life, to create the best production efficiency.

## SORTING SAMPLES



White Rice



Idli Rice



Brown Rice



Wheat



Dal



Moong Dal



Black Chickpeas



Peanuts



Corn



Sunflower seeds



Beans



Coffee Beans



Tea Leaf



Almonds



Raisins



Cashew Nuts



Cardamom



Plastics