

Full-Color Sorting

# OPTICAL SORTER

RGBO 3000 / 5000 Series

for  
**Non-rice Grains**



RGBO5000DIS

OPTICAL SORTER RGO

## OPTICAL SORTER

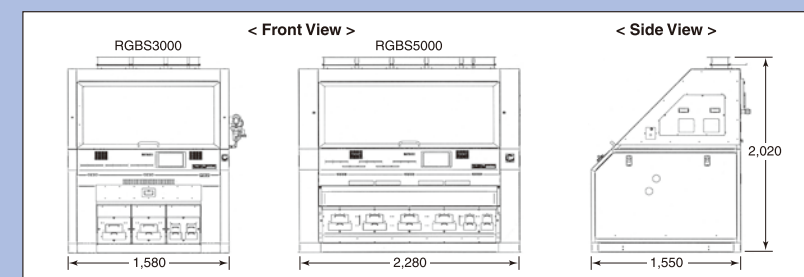
### Specifications

Model		RGBO3000		
		AIS	BI	DIS
Chute	Primary Sorting	336mmx 2 Chutes	336mmx 3 Chutes	336mmx 2 Chutes
	Secondary Sorting	336mmx 1 Chute	-	110mmx 2 Chutes
	Tertiary Sorting	-	-	110mmx 1 Chute
Material		Non-rice grains (Wheat, Lentil) * For other commodities, please contact us.		
Power Supply		Single phase 200 - 240 V		
Power Requirements	Normal	0.6		
	Maximum	1.1		
Required Air Volume		600 - 1,500 NL/min		
Volume of dust collector		12 m <sup>3</sup> /min		
Power of air compressor		5.5 - 11.0 kW		
Net Weight		920 kg		

Model		RGBO5000		
		AIS	BI	DIS
Chute	Primary Sorting	336mmx 3 Chutes	336mmx 5 Chutes	336mmx 3 Chutes
	Secondary Sorting	336mmx 2 Chutes	-	336mmx 1 Chute, 110mmx 1 Chute
	Tertiary Sorting	-	-	110mmx 2 Chutes
Material		Non-rice grains (Wheat, Lentil) * For other commodities, please contact us.		
Power Supply		Single phase 200 - 240 V		
Power Requirements	Normal	1.0		
	Maximum	2.0		
Required Air Volume		1000 - 2,000 NL/min		
Volume of dust collector		15 m <sup>3</sup> /min		
Power of air compressor		7.5 - 15.0 kW		
Net Weight		1,300 kg		

- \* Sorting performance varies depending on variety, condition of material, and initial contaminations.
- \* The higher of the reject rate of incomings, the more compressed air consumption. Pay attention the volume of air compressor.
- \* Excluding the conveyor, which supplied by the customers.
- \* Chute is changeable depending on the requirements of the end-users.

### Dimensions



All Satake products are the subject of continuous development and, as a result, their specification may change and differ in detail from those shown.

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SATAKE CORPORATION has  
obtained ISO 9001 and ISO  
14001 certification.  
These international standards  
for management systems  
ensure Satake will continue to  
provide high quality products  
and services.

ISO 9001 Certification  
(Quality Management Systems)  
ISO 14001 Certification  
(Environmental Management Systems)



## A true revolution in Color Sorting...



Lentil



Wheat



Coffee Bean



Sesame Seed



Urad Bean



Moth Bean



Mung Bean



Corn Seed



### CHUTE TYPE OPTICAL SORTER WITH FULL-COLOR CAMERA, RGBS

This large-capacity optical sorter features advanced full-color sorting technology with trichromatic image analysis and is ideally suited to sorting lentil and cereals such as wheat in a plant environment.

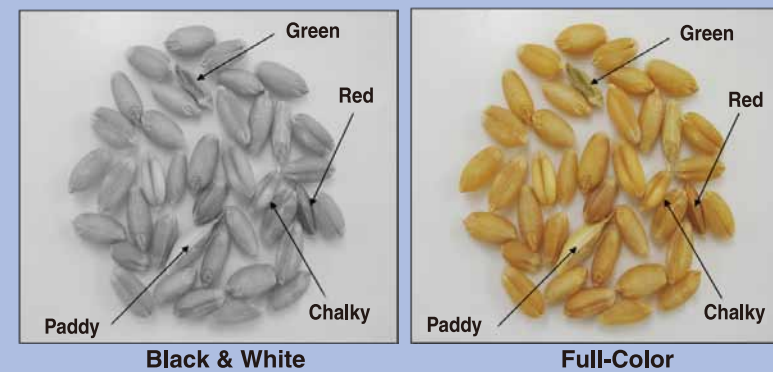
This machine is equipped with the latest sorting systems. A full-color camera recognizes subtle differences in color, adding to food security and improving your grains' appearance.

#### Features:

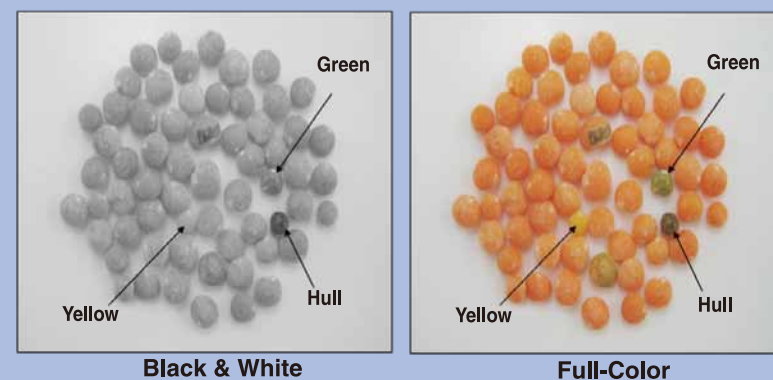
##### 1. Higher Quality Sorting

New digital image processing and automatic image adjustment functions can be adjusted for each raw material, allowing accurate sorting of many materials.

##### Comparison of Sensing on Wheat



##### Comparison of Sensing on Lentil



## A milestone achieved for our all customers.

### 2. Higher Capacity

336mm wide chute provides high processing capacity. Two chute types are available: flat and grooved. Optional mounting parts are also available to optimize chute material flow.

### 3. Higher Yield

**AIS: Secondary-sorting model**  
(Sorts raw materials once, then re-sorts the rejects after primary sorting.)

**BI: Primary-sorting model**  
(Sorts a raw material once only.)

**DIS: Tertiary-sorting model**  
(Sorts raw materials once, then re-sorts the rejects twice.)

A new ejection arrangement separates 2 grades of reject: absolute and intermediate. Absolute defects are removed by the primary sort and only intermediate defects go to resort. This reduces resort quantity and increases good product recovery.

### 4. Easier to Operate

The new user interface design has individual sensitivity adjustments for specific defects. This simple sorting control makes it easy for operator to achieve maximum sorting performance with minimum training.

