

Full-Color RGB and NIR Sorting

OPTICAL SORTER

RGBR 3001 / 3401 / 5001 / 5401



RGBR5001DIS

SATAKE CORPORATION

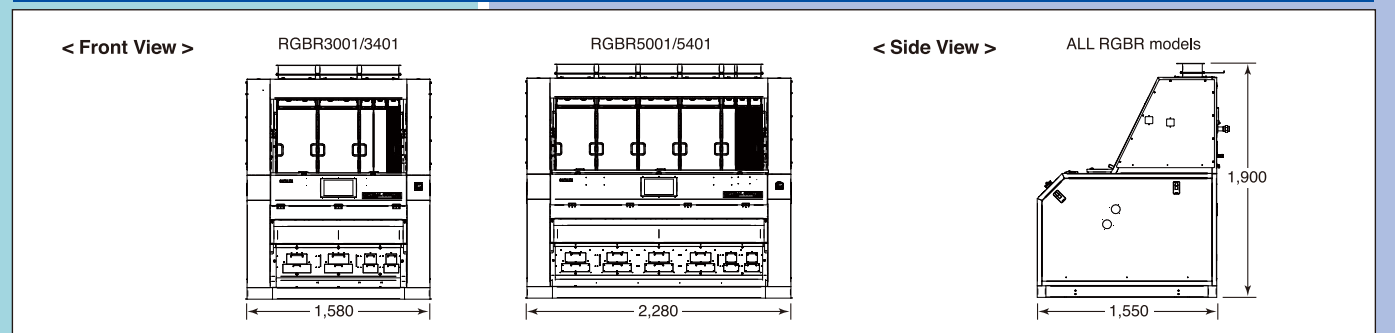
Specifications

Model	RGBR3001BI	RGBR3001AIS	RGBR3001DIS	RGBR5001BI	RGBR5001AIS	RGBR5001DIS
Number of chute	Primary sorting	Flat 336 x 3	Flat 336 x 2	Flat 336 x 2	Flat 336 x 5	Flat 336 x 3
	Secondary sorting	-	Flat 336 x 1	Flat 110 x 2	-	Flat 336 x 2
	Tertiary sorting	-	-	Groove 110 x 1	-	Groove 112 x 2
Capacity ^{*1,2} (t/h)	Coffee	~9	~6	~6	~15	~9
RGB Camera	6pcs.			10pcs.		
RGB Pixel	2048 pixels			2048 pixels		
Light Source for RGB	LED			LED		
Ejector Valve	204pcs.			340pcs.		
Ejector Pitch	5mm			5mm		
Air Consumption	600-1,500NL/min			1,000-2,000NL/min		
Compressor	5.5-11.0kW			7.5-15.0kW		
Power Supply	Single Phase 200-240V			Single Phase 200-240V		
Power Consumption	1.1kW			2.0kW		
Operation	Full Color Touch Panel 12 Inch			Full Color Touch Panel 12 Inch		
Net weight (kg)	920			1615		
Dimensions (mm)	W1,550 X L1,580 X H1,900			W2,280 X L1,550 X H1,900		

Model	RGBR3401BI(BM)	RGBR3401AIS(AMS)	RGBR3401DIS(DMS)	RGBR5401BI(BM)	RGBR5401AIS(AMS)	RGBR5401DIS(DMS)
Number of chute	Primary sorting	Flat 336x3	Flat 336 x 2	Flat 336 x 2	Flat 336 x 5	Flat 336 x 3
	Secondary sorting	-	Flat 336 x 1	Flat 112 x 2	-	Flat 336 x 2
	Tertiary sorting	-	-	Groove 112 x 1	-	Groove 112 x 2
Capacity ^{*1,2} (t/h)	White rice	1.8-19.8	1.2 - 13.2	1.2 - 13.2	3.0 - 33.0	1.8 - 26.4
	Brown rice	1.8-9.9	1.2 - 6.6	1.2 - 6.6	3.0 - 16.5	1.8 - 13.2
	Wheat/Barley	1.8-9.9	1.2 - 6.6	1.2 - 6.6	3.0 - 16.5	1.8 - 9.9
RGB Camera	6pcs.			10pcs.		
RGB Pixel	2048 pixels			2048 pixels		
NIR Camera ^{*3}	- (3pcs)			- (5pcs)		
Light Source for RGB	LED			LED		
Light Source for NIR	- (IR-LED)			- (IR-LED)		
Ejector Valve	252pcs.			420pcs.		
Ejector Pitch	4mm			4mm		
Air Consumption	600-1,500NL/min			1,000-2,000NL/min		
Compressor	5.5-11.0kW			7.5-15.0kW		
Power Supply	Single Phase 200-240V			Single Phase 200-240V		
Power Consumption	1.1kW			2.0kW		
Operation	Full Color Touch Panel 12 Inch			Full Color Touch Panel 12 Inch		
Net weight(kg)	920			1615		
Dimensions(mm)	W1,550 X L1,580 X H1,900			W2,280 X L1,550 X H1,900		

*1 Capacity for all products. *2 Sorting performance varies depending on variety and contamination of material.
*3 NIR function is an option.

Dimensions(mm)



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

SATAKE CORPORATION has obtained
ISO9001 and ISO14001 certification.
These international standards for management
systems ensure Satake will continue to provide
high quality products and services.



Satake's all new full color optical sorter will provide you with the best solution in color sorting.

1) FULL COLOR CAMERAS

The machine is equipped with Japan's latest full color cameras which allow the sorter to match the eye's ability to see true color. The smallest color deviations are identified and rejected.

2) ADVANCED COLOR TOUCH SCREEN

The Large modern color touch screen is designed for easy use and is operated the same way as smart-phones (flick scrolling)

3) AUTOMATIC PROFILING

The machine incorporates advanced software to evaluate the color profile of the product application. It then automatically creates the sensitivity settings for optical defect removal.

4) LED LIGHTING

LED lighting is utilized for optimum performance and long lifetime to reduce the machine's running cost.

5) TERTIARY SORTING

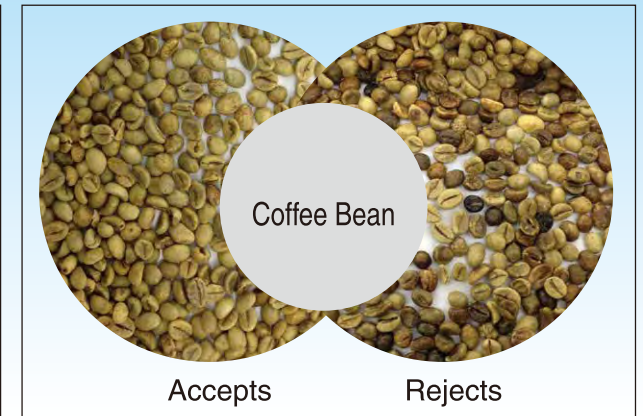
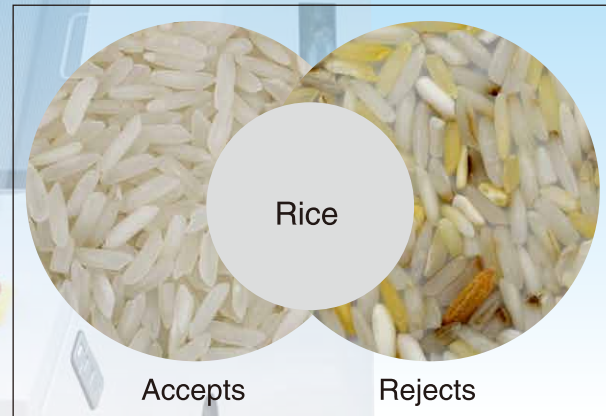
Precise sorting is achieved with a three stage sorting system. Rejects from the primary sort can be resorted twice, within one unit, to maximise the reject concentration

6) NIR FUNCTION

The NIR camera detects inorganic foreign material such as stones, plastic, glass and other items that have a similar colour to the accept product.

Sort Various Materials

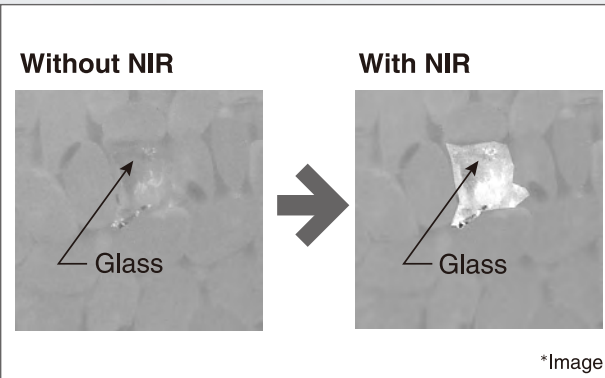
The machine serves the latest requirements for sorting rice, lentils, coffee beans, cereals and nuts etc.



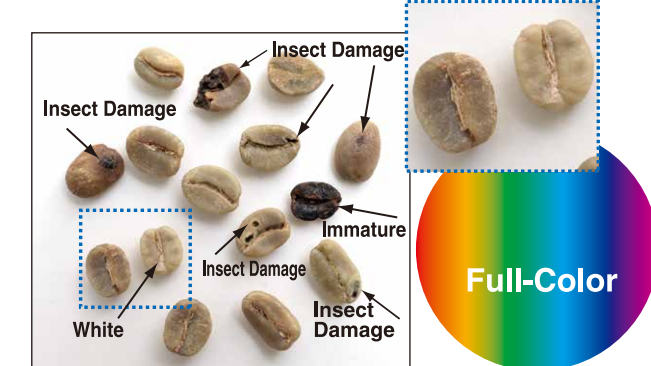
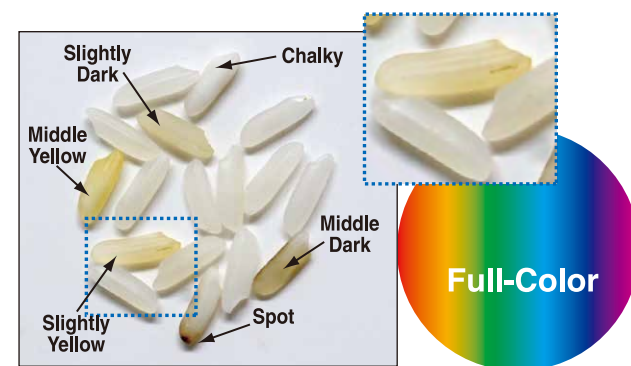
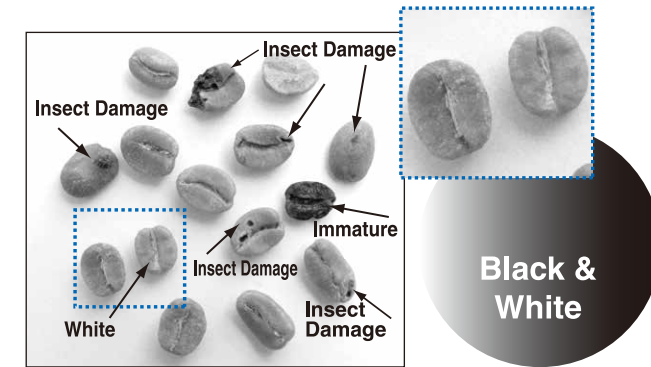
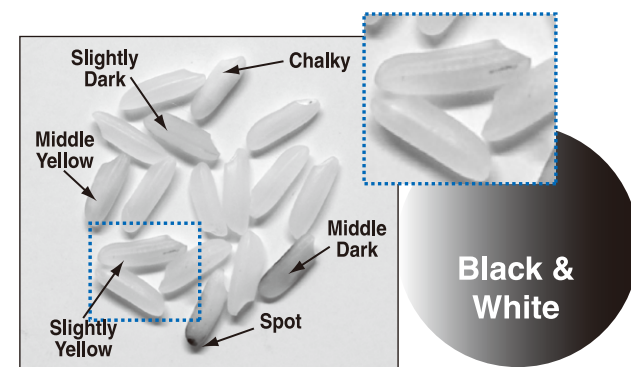
Near Infrared (NIR) Camera*

Impurities such as glass, plastic and stones which have the same color as the accept material cannot always be detected by a full color camera. The RGBR series, along with a full color camera, also has the ability to detect and remove foreign materials utilising a high technology NIR camera.

*NIR Camera is an option.



Comparison of Monochromatic and Full Color Sorting

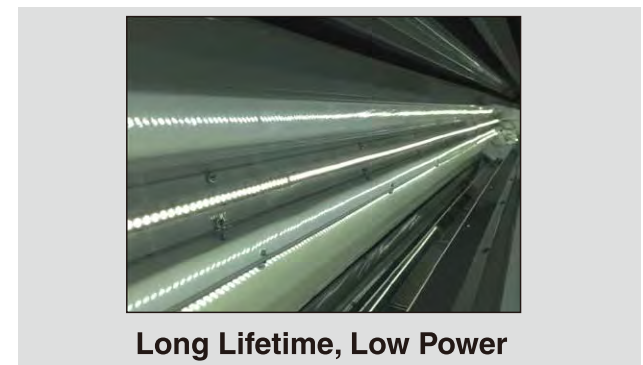


Advanced Color Touch Screen



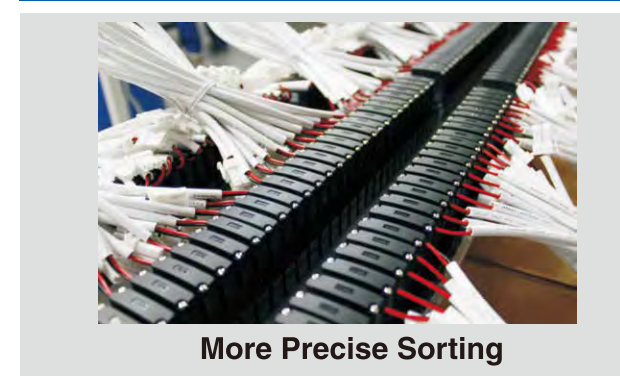
Easy to use Flick Scroll

LED Lighting



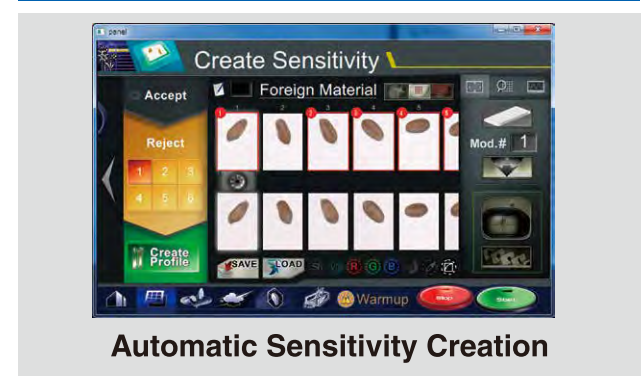
Long Lifetime, Low Power

High Speed Ejectors for Greater Accuracy



More Precise Sorting

Ease of Operation by Automatic Profiling



Automatic Sensitivity Creation