



• Seeds

• Tree Nuts & Peanuts

• Beans & Pulses

• Coffee

• Plastic Pellets & Flakes

# The Evolution<sup>®</sup> RGB

## Optical Sorting to the Highest Standards

### **The new Evolution<sup>®</sup> RGB is a Revolution in optical sorting.**

Both the human eye and the Evolution can detect colour through three wavelengths (Red, Green & Blue), allowing the sorter to match the eye's ability to see true colour.

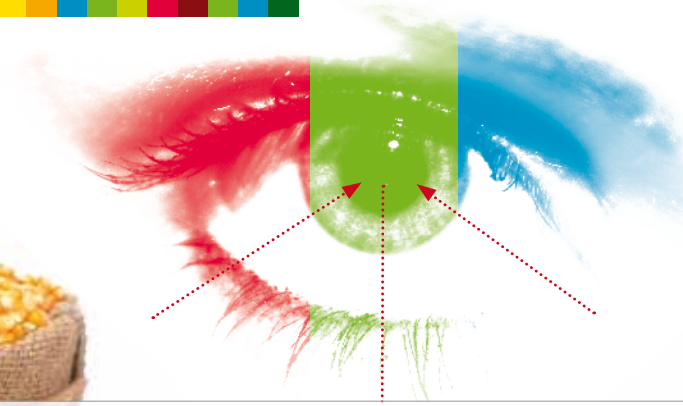
The Evolution<sup>®</sup> RGB uses 16 million colours, high resolution cameras and long lasting LED lighting to detect and remove defects and even the smallest colour deviations can be identified and rejected. Thanks to its ability to see true colour, the Evolution<sup>®</sup> RGB can precisely sort a wide range of products, even those with small shade differences. This machine really is the new Evolution of optical sorting.

### **Typical applications:**

- **Food & Seed to remove off-coloured, specks, broken product, insect damage, mould and foreign materials**
- **Plastics to colour-sort Pellets, Recycled Flakes and Regrinds.**

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Easy Setting by Image Capture



Evolution		
Model	EVO 400	EVO 800
Number of chutes	4	8
Width	1325mm	1637mm
Depth	1594mm	
Height	2055mm	
Weight	590kg	700kg
Power consumption	4.6kW	6.5kW
Power requirements	240VAC, 50Hz, 1Phase	
Compressed air supply 90 PSI/5.5Bar min.	1.13 m <sup>3</sup> /min	1.7 m <sup>3</sup> /min
Air consumption, air knife (compulsory)	1.13 m <sup>3</sup> /min	1.3 m <sup>3</sup> /min
Exhaust dust extraction	28.3 m <sup>3</sup> /min	34.0 m <sup>3</sup> /min
Ambient temperature	0°C - 40°C	
Sound level	<85dBA	

## Product Specifications:

- Multilingual touch screen with a user friendly interface & image capture technology.
- Utilises full colour camera technology to precisely sort a wide range of products.
- Fully digital electronic package
- Patented long life, high intensity LED illumination system
- Proprietary image processing software
- Improved high capacity material handling system
- High speed ejection system
- Enhanced high speed micro-processing
- Internet accessibility via 'Satake-Everywhere' remote administration & support system

## RGB Full Colour Technology

Evolution RGB utilises proprietary software to combine the response from the red/green/blue (RGB) camera to form a 3D colour space. The EVO RGB combines these responses in a manner that very closely imitates the human eye response to colour.

## Product Advantages:

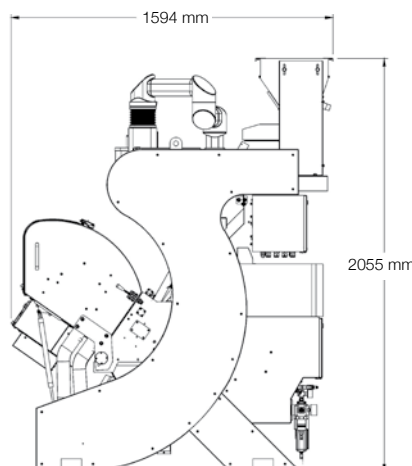
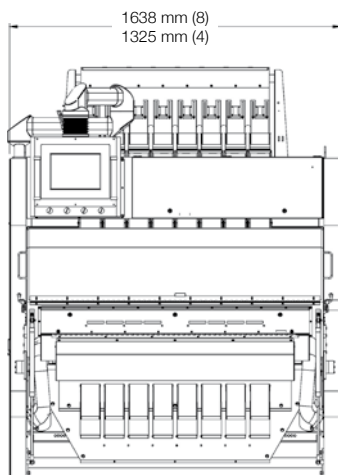
- RGB optical sorter is ideal for multiple coloured applications or minor shade differences.
- No changeover between products
- High capacity
- Colour map memory
- 3D colour technology allows accurate colour mapping
- Mapping - ability to pin point defects and remove them accurately
- Flexible re-sort capability
- Movable screen to observe the defect image data during product set up
- Backup USB memory Save settings, transfer to different machines or to your PC
- Easy setting by image capture of the product

## Satake Corporation.

Precision meets perfection. With a wide range of optical sorting equipment, Satake equipment meets every customers requirements. Utilising high resolution cameras, small ejector pitches and fast scanning rates we can sort Food, Seeds & Plastics to meet all of today's highest requirements. Satake can offer a range of capacities to meet throughput requirements from small units to large plants.

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