



# NIMBUS

## OPTICAL SORTER

**Interested in a free demonstration  
with your own product or require more  
information?**

**Please contact us directly.**

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With a combination of various sorting technologies, the Nimbus free fall sorter is the answer to meet the continuously high requirements of the food industry and individual processors for safe and excellent quality food by removing any unwanted discolorations, foreign material, deformed products, ...

## ALL-ROUND DETECTION CAPABILITIES

The new generation free-fall sorting solutions combines the efficiency of laser detection on **foreign material**, with the camera to sort **discolorations** and **shape** of products in free-fall. The Nimbus is also able to sort based on **biological characteristics**, invisible to the human eye. Combined with TOMRA's patented FLUO™ technology, the Nimbus detects the slightest shades of **chlorophyll** to create an even better contrast between good products and defects. Other technologies available are SWIR, creating contrast between **water-based** products and other materials, the Advanced Foreign Material Detector™, and Detox™ for **aflatoxin** detection.

## TECHNOLOGICAL ADVANTAGE

Developed in-house, the unique BSI technology works by detecting the **biometric characteristics** of objects it scans and compares them to features in its stored database, to determine whether they should be accepted or rejected. Thanks to the integration of the BSI technology, the Nimbus is an ideal **quality and pre-sorting machine**.

## BENEFITS

- **User-friendly**
- **Low maintenance**
- **Self-learning**
- **Calibration-free**
- **High capacity**
- **Optimised sort**
- **Increased uptime, quality, throughput, yield**
- **Higher customer satisfaction**



## WORKING PRINCIPLE

A feed shaker or hopper uniformly spreads the product over the free-fall chute. The product falls down towards the inspection zone, where it is scanned by lasers, cameras or a combination thereof. A few milliseconds later the defects are hit with a precise powerful burst of air sending them into the rejection zone while the good product continues its natural free-fall.

## DIMENSIONS AND SPECIFICATIONS\*

Model	Dimensions				Utilities	
	Width	Length	Height	Infeed Elevation	Power	Air
<b>NIMBUS 640</b>	2200 mm (87")	3500 mm (138")	2450 mm (96")	2200 mm (86,4")	1ph: 4kVA 3ph: 2,5kVA	87-102 psi 6-7 bar
<b>NIMBUS 1200</b>	2660 mm (105")	4200 mm (165")	2450 mm (96")	2200 mm (86,4")	1ph: 4kVA 3ph: 2,5kVA	87-102 psi 6-7 bar
<b>NIMBUS 1600</b>	3050 mm (120")	5550 mm (219")	2450 mm (96")	2400 mm (94,2")	1ph: 4kVA 3ph: 2,5kVA	87-102 psi 6-7 bar

\*Information shown for reference and may change depending on the actual application.