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, mold, insect damage ...

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. Developed in-house, the unique BSI (Biometric Signature Identification) technology works by detecting the **biometric characteristics** of objects. 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.

BENEFITS

- Easy to use software
- Self-learning
- Calibration-free
- High capacity
- Optimised sort
- Hygienic machine design
- Increased uptime, quality, throughput, yield
- Higher customer satisfaction

NEW SORTING POSSIBILITIES WITH BSI+

The Nimbus BSI can be equipped with two types of scanners. The standard **BSI** module is ideal for the removal of foreign material, while the **BSI+** scanner deploys a wider spectrum and also detects visual irregularities identifying not only foreign material but also product specific defects.

SOFTWARE AT YOUR FINGERTIPS

Product characteristics are compared to features stored in the database, to determine whether they should be accepted or rejected. It's the operator who creates **product specific classifiers** and independently manages the sorting output, regardless of the machine configuration.

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, BSI 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
NIMBUS 640	2200 mm (87")	3500 mm (138")	2450 mm (96")	2200 mm (86,4")	1ph: 4kVA 3ph: 2,5kVA	87-102 psi 6-7 bar
NIMBUS 1200	2660 mm (105")	4200 mm (165")	2450 mm (96")	2200 mm (86,4")	1ph: 4kVA 3ph: 2,5kVA	87-102 psi 6-7 bar
NIMBUS 1600	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.