



# optimum NEXUS

The NEXUS is an optical sorting machine specially developed for sorting products with miscellaneous optical defects. Discolorations, shape deviations and undesirable constituents are detected in the product flow and removed with high precision.

The use of NEXUS not only leads to a higher quality of your end product, but also to lower and more predictable production costs.

The NEXUS has an innovative, controlled product feed, which is able to adapt to the size of your product. A feed belt ensures that the products reach the inspection and ejection area at the same speed.

This controlled product supply and internal resorting stream increase the certainty with which good and bad products are detected and ejected. You see this reflected in the quality of your good product and the optimal good-to-bad ratio.

- compact freefall sorter
- durable LED lighting
- advanced cameras
- smart algorithms
- internal resorting stream (DRS)
- excellent good-to-bad ratio
- sorting on the basis of colour, shape and structure
- 24/7 (remote) Service
- maintenance friendly
- fast product switching
- extremely user-friendly operation

The modular construction of the NEXUS makes it possible to select from the perfect combination of camera, light and other techniques for the best sorting results.

The NEXUS is available in two models with an operating width of 1000 or 1200 mm. This means that the machine can easily be integrated into an existing product sorting line. Optimum Sorting also effects the complete engineering of your optical sorting line: the NEXUS including feed vibrator, product (re-)routing and desired modules can be adapted to your requirements in the existing or new production line.

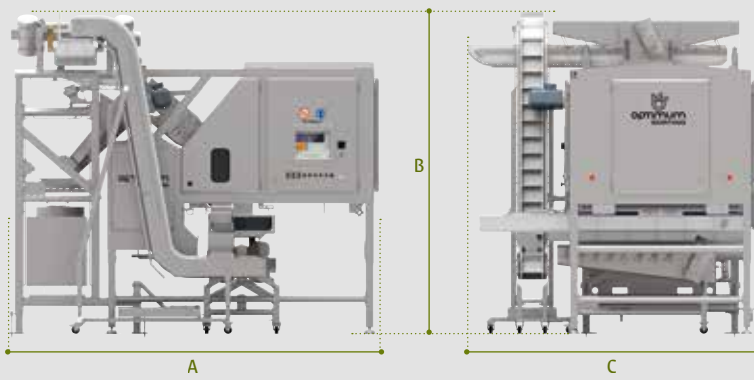


## THE NEXUS CAN BE USED IN MANY DIFFERENT APPLICATIONS.

### A few examples:

Jelly candy, sugared candy, non sugared candy, half foam, foam, licorice, hard candy.

**Ask our sales team about the possibilities in your application. Our demo centers are at your disposal to attend a comprehensive test on your product so that you can assess in advance what our machine can do for you.**



**NEXUS**

[mm]	A	B	C
1000	3377	2980	2990
1200	3377	2980	2990

These are indicative values. Detailed drawings are available on request

■ standard   ○ option   × not available

		NEXUS	
		1000	1200
Type		Free Fall Sorter	
Machine type		Free Fall Sorter	
Inspection width		1000 mm	1200 mm
Network		Ethernet	
Camera	Monochrome, RGB, iRGB	■	■
	InGaAs	○	○
	XIP	×	×
Laser	IR, SWIR, VIS, Fluo	×	×
Camera configurations	5/6 configuration	×	×
	Perpendicular	×	×
	Front/rear	■	■
Lighting	Hi frequency fluorescence tubes	×	×
	LED (white)	■	■
	LED (UV)	×	×
	LED (IR)	■	■
Sorting modes	TwoWay	■	■
	ThreeWay	○	○
Reject valves	Pitch 5,25 mm	×	×
	Pitch 7,5 mm	○ (134)	○ (160)
	Pitch 10 mm	100	120
Reject flippers	Pitch 40 mm	×	×
Noise level		80 - 100 dB(A)	
Noise reduction kit		○	○
Electrical supply	Voltage	400 Vac	
	Phases	3F+N + Earth	
	Frequency	50 Hz / 60 Hz	
	Power	7 kW	7,5 kW
Water supply	Quality	Chiller, closed circuit with Glycol	
	Average consumption	n.a.	n.a.
	Temperature	20°C	
	Pressure	1-3 bar	
	Connection	n.a.	n.a.
Compressed air	Quality	ISO norm 8573-1:2010	
	Class	1.4.2 Norm	
	Filter	0,1 μ - gedroogd	
	Air connection	1,5"	1,5"
	Incoming pressure	6-8 bar	
	Average consumption	25 L/part	30 L/part
Frame	Material	Stainless steel 304	
	Protection class	IP55	
	Dimensions	See drawing	
Cooling	Air-to-air airco	×	×
	Water-to-air airco	×	×
	Split airco unit	×	×
	Chiller	■	■
	Heat exchanger	■	■
Infeed shaker	Flatbed	○	○
	High speed	×	×
	Laned	■	■
Reject product	Conveyor bel	○	○
	Shaker	■	■
Accept shaker	Conveyor bel	○	○
	Shaker	■	■



**More information?**

OPTIMUM nv  
Zolderse Kiezel 36  
3511 Hasselt (Kuringen)  
Belgium

T. +32 (0)11 71 80 20  
info@optimum-sorting.com  
www.optimum-sorting.com