nimax



INSPECTION AND CONTROL

Lumina
Checkweighers

A true cross-device control experience

Lumina Checkweighers

Remote Control and Hygienic Design

Lumina introduces an intuitive and fast multi-device control experience.

It can be supervised and managed from authorised workstations via PC, tablet, and smartphone on the corporate network (depending on configuration), in compliance with IT/OT policies.

Its completely revamped user interface has been designed to facilitate operations and improve data readability, thanks in part to the 15" vertical touchscreen.

Thanks to its open and hygienic architecture—designed to reduce accumulation areas and facilitate drainage and cleaning—Lumina is rated IP65 as standard, with IP69K available as an option.



VERTICAL SCROLLING ON 15" DISPLAY

- Just like on a tablet, production data, statistics, and reports can be viewed by scrolling vertically.
- Lumina's new user interface is easy and intuitive, allowing you to operate the checkweigher with just a few simple touches.

STAINLESS STEEL STRUCTURE FOR HARSH ENVIRONMENTS

- Stainless steel frame and components designed to withstand demanding production conditions and ensure operational continuity, even in complex environments.
- Easy-to-clean stainless steel surfaces designed to reduce accumulation points, making the checkweigher suitable for applications with high hygiene requirements (food).

A TRUE CROSS-DEVICE EXPERIENCE

- Thanks to an industrial PC platform and connectivity services (depending on configuration), Lumina allows supervision and management from authorised workstations via PC, tablet, and smartphone on the company network (Ethernet; Wi-Fi optional).
- The software includes diagnostics and remote assistance tools to accelerate technical support and reduce line downtime.

Modular Architecture

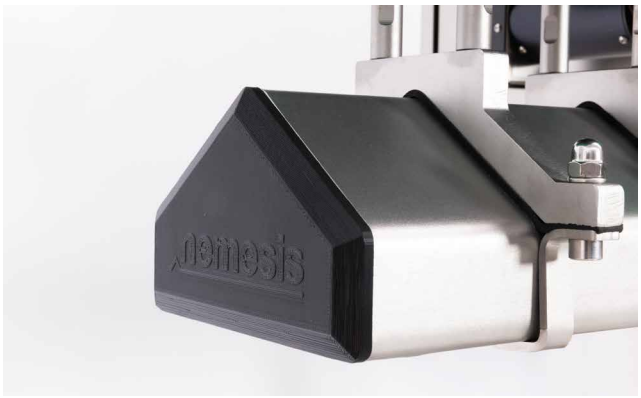
The structure of Lumina features a pentagonal central element that supports the conveyor belts through a modular system. This solution increases machine versatility and facilitates adaptation to layout and configuration changes.

The central element also integrates cable management, improving order, safety, and cleanability.

Thanks to its sloped sides and rounded edges, the checkweigher is quick to sanitise and suitable for environments with high hygiene requirements.

The rubber sealing cap is designed to withstand high-temperature and high-pressure washdown cycles, as well as exposure to industrial detergents. Depending on the configuration, an IP69K version (optional) is available, suitable for washdown environments with high-pressure and high-temperature jets.

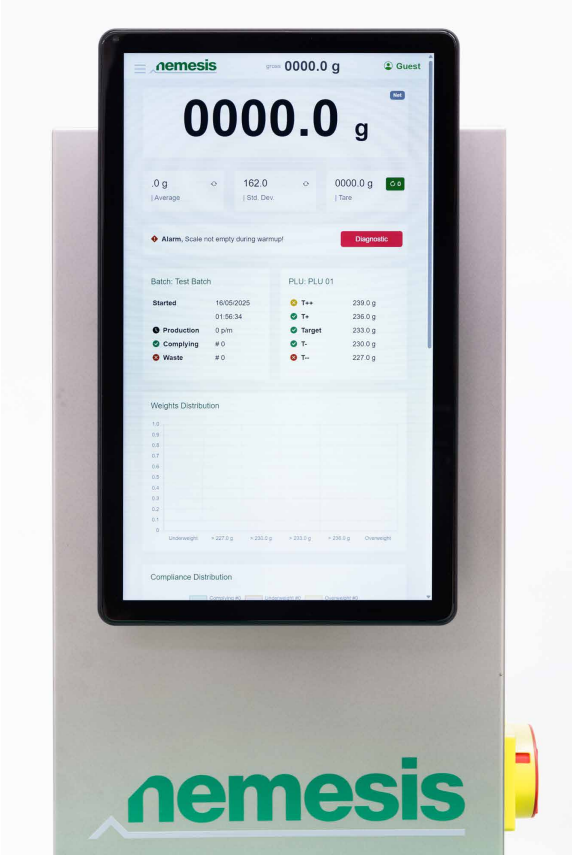




EasyWeigh® The weighing algorithm behind the screen

EasyWeigh® is the advanced software installed in Nemesis checkweighers to overcome the limitations of traditional weighing systems. It reduces setup complexity and dependence on learning procedures while maintaining accuracy and repeatability in in-line control.

The key advantages are listed below.
Immediate recipes without learning: weighing of new products regardless of shape, size, and orientation.
Greater compliance assurance: reduces the risk of "apparently compliant" batches affected by sub-optimal learning.
Reduced training: intuitive interface with few steps for key functions.
Quick changeovers: simply set the product weight and belt speed to start weighing.



Lumina S

This is the perfect version of Lumina for any application requiring the highest possible accuracy, up to ±0.05 g at a speed of up to 100 m/min.

Ideal sectors: Light food products, Cosmetics, Pharmaceuticals, Chemical Industry, Non-food.
Ideal formats: bags, flow packs, bottles, multi-component kits.



Lumina C

Designed for weighing products of any kind and application type, whether loose or in primary packaging, such as cans, glass jars, nets, bottles, trays, bags, boxes, and cartons, with weights ranging from 15 g to 8 kg.

Ideal sectors: Food & Beverage, Cosmetics, Pharmaceuticals, Chemical Industry, Non-food.
Ideal formats: cans, bottles, cartons/boxes, flow packs.

DISCOVER NIMAX **DIGITAL INNOVATIONS**

Line Strategy by nimax

Line Strategy is the application that gives you full control of your production line from a single workstation:

- Connects machines of any brand on the line;
- Reduces human error and enables centralized production control;
- Provides real-time reports on production performance;
- Reduces costs and streamlines tooling, control, and maintenance processes;
- Interfaces with company MES and ERP systems.

MyNimax Service Portal is your central platform for managing your Nimax machine fleet:

- AI-powered support with ai.max, available 24/7 for fast issue resolution;
- Integrated e-shop for easy ordering of consumables and spare parts;
- Unlimited remote assistance from our technical support team;
- Complete service and maintenance history.

Options and Accessories



Single or double air-jet ejector
Ideal for rejecting light or delicate products.



Pneumatic pusher
The most versatile ejector, suitable for products from 15 g to 6 kg, across all sectors.



Cylinder-less pneumatic pusher
Perfect for rejecting nets of fruit and vegetables or other heavy products.



Protective tunnel
Essential for compliance with GMP standards in the pharmaceutical industry, it ensures hygiene and safety.



Steel reject basket with key
For safely rejecting non-compliant products, with a key lock.



Waste basket with automatic lock
Also made of steel, with the locking mechanism controlled via the control panel.



Safety photocells
For a safer process, photocells for rejection confirmation and full waste basket detection are available.



Safety devices
Such as audible/visual alarm towers to signal anomalies and pressure switches for monitoring air pressure drops.

MID and OIM-LR51 certifications

The entire range of LUMINA checkweighers can be MID (Measuring Instruments Directive) certified, in accordance with European regulation MID 2014/32/EU, which governs measuring instruments in all sectors and guarantees their accuracy and reliability.

This is essential for working with large-scale retailers and in the pharmaceutical sector.

For installations outside the European Union, the sorters are still OIML-R51 certified, meaning they comply with all legal requirements imposed by the International Organization of Legal Metrology.
A great guarantee of quality for the market.

Main Industry Standards

The special technical solutions adopted in Lumina checkweighers make them fully compliant with Italian national regulations and international standards governing the food industry, such as Law No. 690 of 1978 for the weight control of pre-packaged products, HACCP, BRC, SQF, IFS, and Marks & Spencer standards. Similarly, they comply with GMP standards for the pharmaceutical industry.

Technical Specifications

Metrology	LUMINA S	LUMINA C
Capacity	From 5 g to 1.2 kg	From 15 g to 8 kg
Verification division "e"	0.2 g (MID) - 0.05 g (u.i.)*	0.5 g (MID) - 0.2 g (u.i.)*
Display resolution "d"	0.01 g	0.01 g
Accuracy (3σ)	± 0.07 g (MID) ± 0.02 g (u.i.)*	± 0.36 g (MID) ± 0.1 g (u.i.)*
Cadence	Up to 600 ppm*	Up to 400 ppm*
Belt speed	Up to 100 m/min (MID)	Up to 100 m/min (MID)
Machine data		
Screen type	15" Touchscreen	
Connectivity (depending on configuration/optional)	Ethernet TCP/IP. Connection to PLC/SCADA/MES via industrial protocols and/or gateways (e.g., OPC UA, PROFINET, EtherNet/IP, Modbus TCP/RTU)	
Power consumption	⩽ 0.3 kW	
Configuration	From 1 to 6 belts	
Height	From 700 mm to 1100 mm with adjustable feet	
IP protection - Hygienic design	IP65 (IP69K optional)	
Belt width	From 110 mm to 400 mm	
Belt length	From 150 mm to 550 mm	
Belt type	Polyurethane, for optimal grip on the product	
Machine structure	100% stainless steel	
Sectors of application	Chemicals, Pharmaceuticals, Cosmetics, Light Food	Fresh food / Packaged meat and fish / Bakery products / Ready meals / Chemical, metal, and electrical products

*Final data depends on the shape, size, and weight of the product being inspected.

DISCOVER MORE