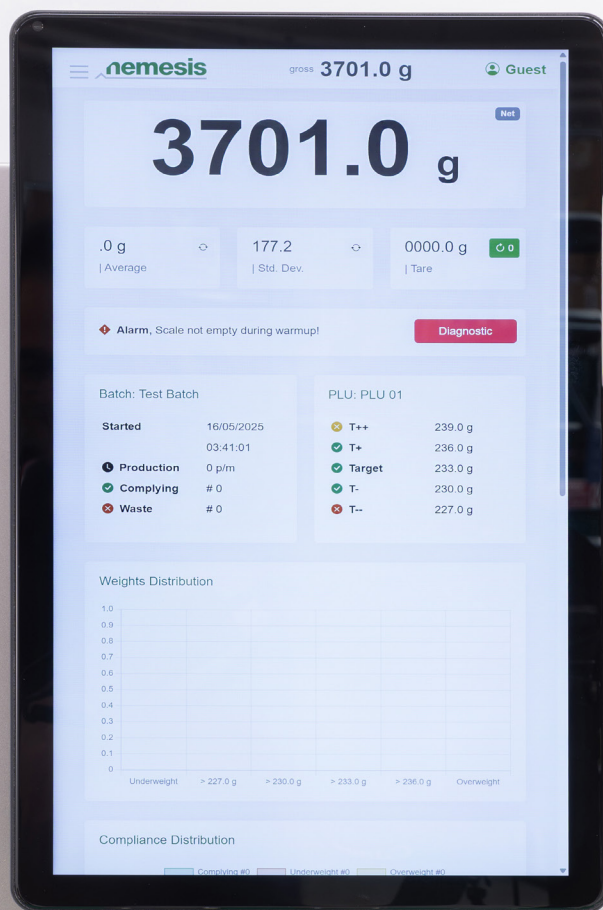




nemesis
LUMINA



CHECKWEIGHING

The new Concept of Checkweigher

Remotable Controls and Hygienic Design

Lumina checkweigher has been developed with such a smart technology to be easily **remotely controlled by a smartphone, PC or tablet**.

Thanks to a simple wi-fi.

Its **new open architecture** prevents the buildup of dirt and debris and makes it extremely easy to sanitize.

For this reason the checkweigher naturally complies with **IP65 standard**, while **IP69K** configuration is available, **as an option**.



VERTICAL SCROLLING DOWN ON A 15" DISPLAY

- ▶ Like the latest mobile devices, the User Interface of the machine is developed vertically, thus allowing to read production data, batch statistics and reports by simply scrolling down the screen.
- ▶ The new software is simple and intuitive, enabling the checkweigher to start with just a few touches.

HEAVY-DUTY AND STURDY STRUCTURE

- ▶ The innovative architecture, entirely made of stainless steel, makes Lumina highly resistant to harsh environments and sturdy enough to be installed even in production sites with vibrations and air currents.
- ▶ Stainless steel surfaces avoid bacterial contamination, increasing food safety in relevant applications.

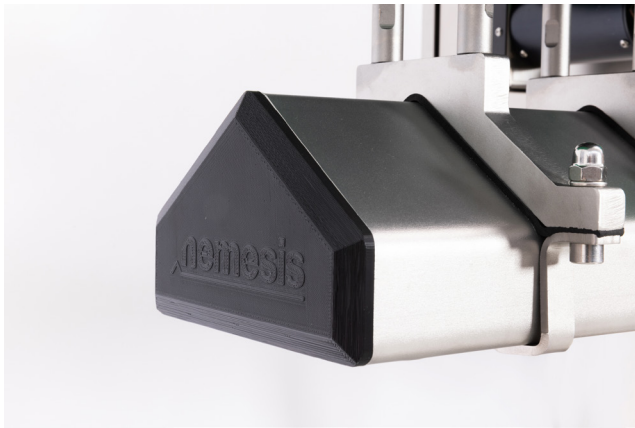
A TRUE CROSS-DEVICE EXPERIENCE

- ▶ Thanks to the Windows operating system installed in Lumina control panel, machine operation and functions can be easily mirrored to another portable device, making the user experience smart and fluid.
- ▶ Special services are also available in the new software, such as remote technical support integrated with AI.

➤➤ Modular Layout

Luminastate-of-the-art design structure features a **central pentagonal element** that supports the conveyor belts through an **innovative modular system**. This improves the **machine versatility** and its adaptation to any project change.

The **wiring is collected inside the element**, making the checkweigher safer and cleaner.



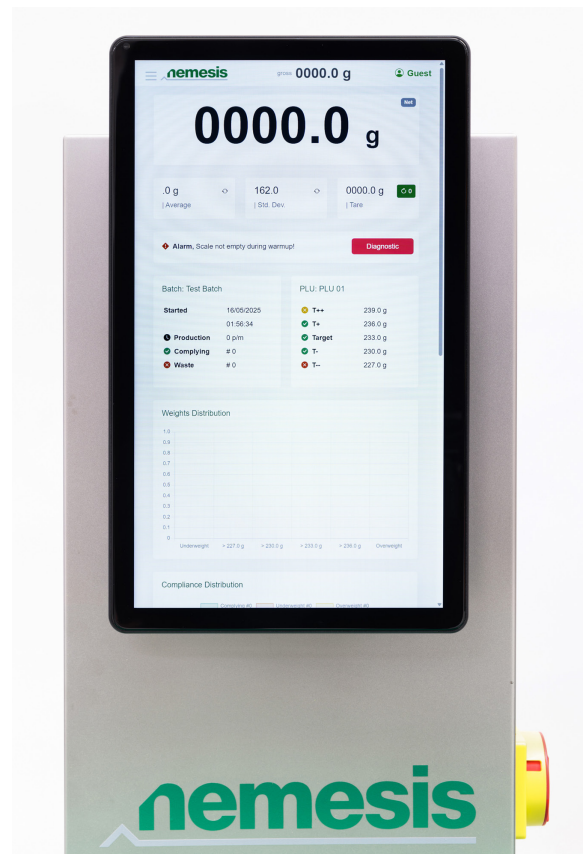
Due to the sloping sides of the central support and the rounded edges of the frame, the machine design is **quicker and easier to sanitize**.

The **special rubber seals** withstand high temperatures, high pressure and aggressive detergents, thus making the machine easily **upgradable to IP69K rating** configuration.

➤➤ EasyWeigh®: the weighing algorithm behind the screen

It's an internally-designed **weighing software** capable of overcoming all the issues usually associated with traditional weighing technology, improving the checkweigher's accuracy and durability:

- **no autolearning process**: regardless of the shape, size and orientation of the product on the conveyor, weighing can start immediately.
- **quicker weighing time**, so **shorter pitch** between products
- shorter pitch means shorter weighing conveyor, so **more compact** checkweigher.





Air-blast Ejector

Best for lightweights and delicate items, from 1 to 600 g.



Side Ejector

The most versatile ejector, from 15 g to 6 kg. For all industries.



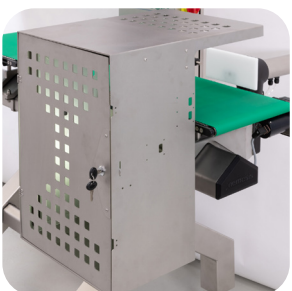
T-bar Ejector

It's the perfect ejector for fruit and veggie nets or heavier products.



Protection tunnel

Essential for GMP standards in pharma industry, it ensures safety and hygiene.



S/Steel Key-lockable Bin

Rejection bins allow a safe separation of non-compliant items and can be keylocked.



S/Steel Electro-lockable Bin

Rejection bins can also be electro-lockable, to be controlled by the control panel.



Safety Photocells

For a safer process, reject confirmation and full rejection bin photocells can be installed.



Safety Devices

A pressure switch can prevent air pressure drop and a light/sound alarm tower warns against breakdowns.

Options and Accessories

MID or OIML-R51 Certifications

All Lumina checkweighers can be **MID-certified**, when having to comply with the European Directive that ensures accuracy and reliability of any Measuring Instruments. Outside the European Union they can be **OIML-R51-certified**, thus meeting all legal requirements set down by the Organization of Legal Metrology. An important proof of **quality** for the market.

Compliance with all main Industry Standards

The equipment of dedicated features make Lumina checkweighers conform to the most required international standards in the Food industry, like **HACCP**, **BRC**, **SQF**, **IFS** and **Marks&Spencer**, or in the Pharma industry, like **GMP** requirements.

»» Lumina K

Lumina concept is produced also in **Weigh-Price Labeler version**, featuring a **large printer** capable of printing and applying **120 labels per minute**.

The **stainless steel printer casing** has been designed to be **easy to clean** and can be **electrically height-adjusted**.



»» Lumina S

It is meant for all applications where **top weighing accuracy** is required, up to **± 0.05 g** at the **speed of 120 m/min**.

Ideal for pharma and cosmetics, for **light and small products**.

»» Lumina C

It's the most versatile version, perfect to weigh **bulk or primarily-packaged products**, like in cans, jars, bottles, trays, bags, boxes and tetrabriks, with a weight ranging **from 15 g to 8 kg**.

DISCOVER MORE ABOUT THE NEMESIS RANGE



Metal Detectors

Stand-alone or combined with a checkweigher, Nemesis metal detectors complete the inspection system of consumer goods, thus assuring highest safety and quality standards. For products ranging from 15 g to 60 kg - Maximum throughput 150 ppm



Sorting Systems

Checkweighers can be integrated with special conveyor belts, dividers or electronic systems, so to automatically sort, grade or classify products by weight. A high accuracy degree is guaranteed even for lightweight and small-sized products.

Lumina checkweighers

Technical Specifications

	Lumina K	Lumina S	Lumina C
Metrology			
Capacity	From 15 g to 8 kg	From 5 g to 1200 g	From 15 g to 8 kg
Scale Interval “e”	≥ 0.5g	≥ 0.2 g (MID) - ≥ 0.05 g (i.u.)*	≥ 0.5 g (MID) - ≥ 0.2 g (i.u.)*
Display resolution “d”	≥ 0.01 g	≥ 0.01 g	≥ 0.01 g
Accuracy (3σ)	≥ ± 0.36 g	≥ ± 0.07 g (MID) ≥ ± 0.02 g (i.u.)*	≥ ± 0.36 g (MID) ≥ ± 0.1 g (i.u.)*
Throughput	≤ 120 ppm	≤ 600 ppm*	≤ 400 ppm
Belt Speed	≤ 40 m/min	≤ 100 m/min (MID) ≤ 120 m/min (i.u.)*	≤ 100 m/min (MID) ≤ 120 m/min (i.u.)*
Labeler			
Printing Output	120 labels per minute*		
Printing Resolution	203 dpi / 300 dpi / 600 dpi		
Printing Technology	thermal transfer / direct thermal		
Max Printing Speed	6 ips (152 mm/sec) 14 ips (356 mm/sec) 18 ips (457 mm/sec)		
Machine data			
Display Control Panel	15" Touchscreen		
Connectivity	Ethernet - Wi-fi		
Power consumption (low-energy)	≤ 0.3 kW		
Configuration	from 1 to 6 conveyors		
Height	from 700 mm to 1100 mm with adjustable feet		
IP rating - Hygienic Design	IP65 (IP69K optional)		
Conveyor width	from 110 mm to 400 mm		
Conveyor length	from 150 mm to 550 mm		
Conveyor type	Polyurethane for best product grip		
Machine Structure	100% Stainless steel		
Industries of application	Fresh produce / Packed Meat and Fish / Bakery / Convenience Food	Chemistry / Pharma / Cosmetics	Fresh produce / Packed Meat and Fish / Bakery / Convenience Food / Chemistry / Metal and Electrical

*final performance data depend on the shape, size and weight of the inspected item.