



**nemesis**  
serie c



# The most Versatile Checkweigher

## Serie C

### Compact and Modular

**Serie C** is the most flexible checkweigher in the Nemesis range.

Thanks to its structure built to weigh products **from 15 g to 8 kg** at a **maximum throughput of 400 ppm**, it suits industrial requirements in many different applications: unpacked, primary- or secondary-packed **food** and **non-food**, **cosmetics** and **chemicals** sectors.

In bags, trays, punnets, boxes, mesh bags, cans, jars, flow packs, bottles and tetrabriks, complying with **Prepack Retail regulations**.

A **Tailored Solution**.  
For **every project**.



#### OPTIMAL COMPACTNESS

➤ Due to its innovative weighing algorithm and quicker performance, a short weighing conveyor is enough for Nemesis checkweighers, so the whole system can be more compact.

➤ It fits in small spaces, smaller than 1 mt wide, thus meaning reduced energy and maintenance costs, too.

#### BUILT-IN MODULARITY

➤ It perfectly fits its final destination. The modular design of Nemesis Serie C allows an easy integration into every production lines.

➤ By using special feeding belts for example, there's no need of interrupting the line. And the checkweigher can be moved to a different line, if needed later.

#### FULL INTEGRATION

➤ It flawlessly communicates and transfers production batch data to external networks through communication protocols like Ethernet TCP/IP, Serial Standard RS-232, OPC UA, and much more like Profinet, Profibus and Modbus.

➤ Complete data reporting, analysis and remote control are also feasible through supplementary Nemesis Data Manager, Analytics and Overwatch Software.

## »» Sturdy Layout

**Stainless steel massive architecture** gives the machine a **great stability** and, as a consequence, a **higher weighing accuracy**.

**Front and back protection guards** provide a **safe protection** for mechanical parts and loading cell from bumps, dust and dirt, a **higher operator safety** and is the **ideal location for weighing and safety photocells**.



The display is contained in a **robust control panel**, **height-adjustable** or **180° rotating**, if a greater flexibility is required.

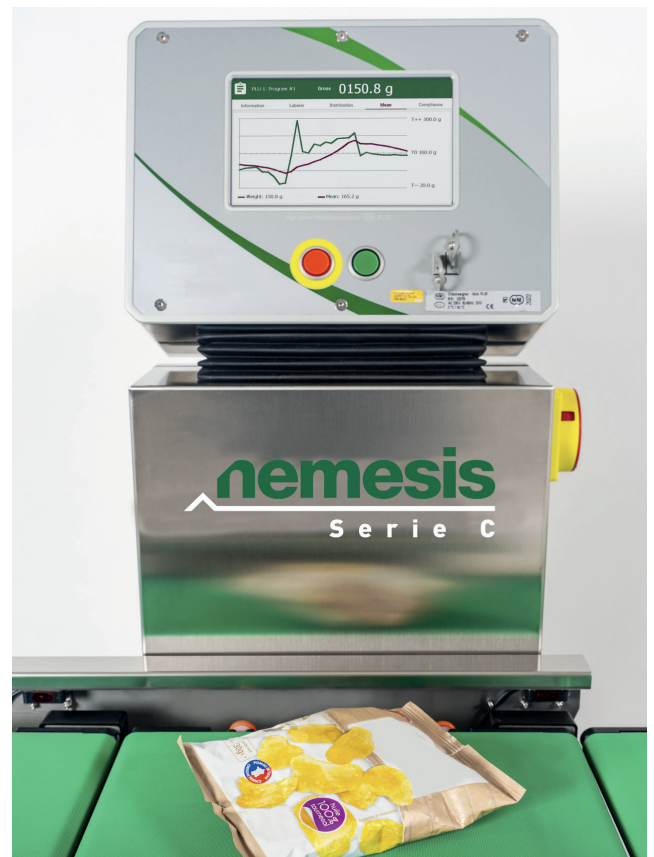
Two options of colour display are available: the **10"** or **7" versions**. **Touchscreen** is the simple and user-friendly HMI installed in all checkweighers. **No more than 5 screen touches** are required to set any of the various functions of the machine.

Up to **10,000 programs** can be stored in its database and the **Self-Diagnostics** section provides an essential ever-present trouble-shooting.

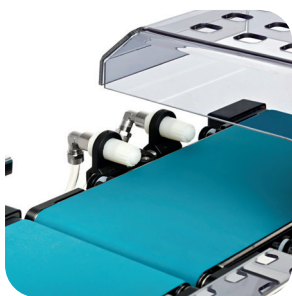
## »» EasyWeigh®: the weighing algorithm behind the screen

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.



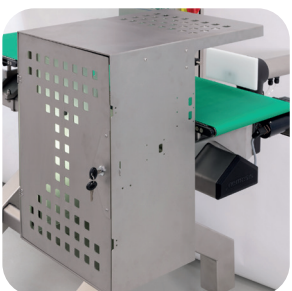
### T-bar Ejector

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 light/sound alarm tower warns against breakdowns while a pressure switch prevents air pressure drops.

## Options and Accessories

## MID or OIML-R51 Certifications

All Nemesis 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.

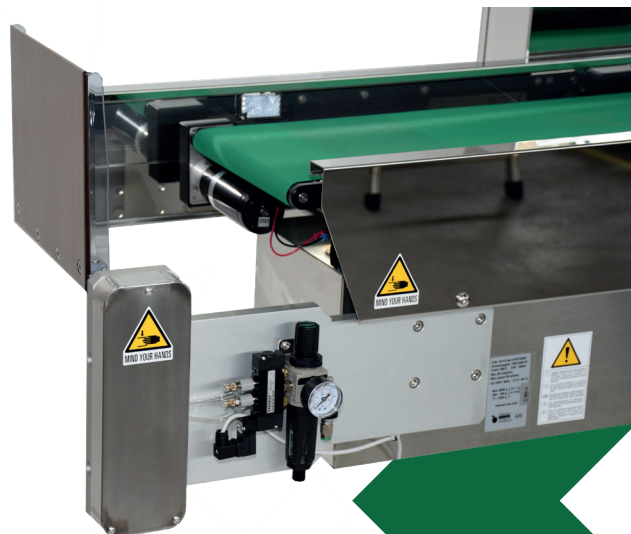
## Compliance with all main Industry Standards

The equipment of dedicated features make Nemesis 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.

# »» Dedicated Solutions

Designed to discard heavier products, **Drop-Down Rejection Systems** are ideal for special applications: the one on the right features a **trapdoor** which opens to discard the non-compliant item into a reject bin underneath. It's mainly used in prepacked fruit and veggie.

Otherwise it can simply **tilt downwards**, dropping products which are too heavy to be rejected by air blasts, but too delicate to be pushed. Like bread or pizza dough balls.



## 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.

# Serie C checkweighers

## Technical Specifications

| Metrology                      |   |
|--------------------------------|---|
| Capacity                       | From 15 g to 8 kg   |
| Scale Interval "e"             | $\geq 0.5g$ (MID) / $\geq 0.2g$ (i.u.)*   |
| Display resolution "d"         | $\geq 0.1 g$  |
| Accuracy (3 $\sigma$ )         | $\geq \pm 0.36 g$ (MID)<br>$\geq \pm 0.1 g$ (i.u.)*   |
| Throughput                     | $\leq 400$ ppm*   |
| Belt Speed                     | $\leq 100$ m/min (MID)<br>$\leq 120$ m/min (i.u.)*  |
| Machine data                   |   |
| Display Control Panel          | 10" / 7" Colour Touchscreen   |
| Connectivity                   | Ethernet, Ethernet/IP; EthernetCAT, RS-232, OPC UA, Profinet, Profibus, Modbus, Modbus TCP, M-Bus, NMEA 2000, , MQTT, LoRaWAN, J1939, IEC 61850, HTTP/REST, HART, EnOcean, DMX, DeviceNet, DALI, CANopen, CAN |
| Power consumption (low-energy) | $\leq 0.3$ kW   |
| Configuration                  | from 1 to 6 conveyors   |
| Height                         | from 460 mm to 1200 mm with adjustable feet   |
| IP rating - Hygienic Design    | IP54 (IP65 optional)  |
| Conveyor width                 | from 90 mm to 456 mm  |
| Conveyor length                | from 150 mm to 750 mm   |
| Conveyor type                  | Polyurethane, antistatic for best product grip  |
| Machine Structure              | 100% Stainless steel  |
| Industries of application      | 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.

