



***HSC350***<sup>®</sup>  
by **Nemesis**

Weigh, Select, Label

1976



38

Years

**NEMESIS srl was established** in Modena by a innovative group of technicians with vast experience in the industrial automation sector. The company began by designing and building sophisticated weighing and feeding systems using early technology including the use of the first Personal Computers.

1987



6

Controllers

During its first ten years, the company developed numerous industrial processors and indicators for **static and dynamic weighing** applications in systems used by design engineers and manufacturers world-wide.

1999



2<sup>nd</sup>

Generation

Nemesis srl went on to develop the second generation of automatic machines **conforming to the OIML** classification and HSC350 dynamic weighing instruments, thanks to the use of a revolutionary and sophisticated algorithm for real time weighing with unparalleled performance.

# Our Background



Over 35 years of innovation in the dynamic weighing field

2005



100

% Made in Italy

Nemesis enters the international market with the **new HSC350 range** for industrial weighing and labelling of moving products, type-approved in class x(1) and class y(a), respectively.

2011



2

Type-approvals

The entire range of Nemesis products features type-approval certification according to OIML R51-2006 and **MID-2004/22/EC**, thereby extending the basic range of machines and integrating the original technical solutions.

TODAY



52

Countries

To comply with growing demands from the manufacturing industry, the HSC350 family undergoes continual technical development and is now distributed in the automation sector in **over 50 countries throughout the world.**



NEMESIS srl has obtained **EN ISO 9001** certification

Simple, fast,  
accurate

The "S Series" HSC350  
checkweighers can be  
integrated with:

- Datamatrix one-dimensional or two- dimensional marking systems
- Display system for monitoring the package and marking
- Multiple ejector systems with strict separation of the different products rejected.



MARKING AND INSPECTION SYSTEM



BOTTLE CHECK



PROGRESSIVE REJECTOR

The HSC350 range of measuring instruments has been designed using sturdy, tried-and-tested measuring technology to meet the industry's growing demands, with special attention to the specific requirements of each manufacturing sector.

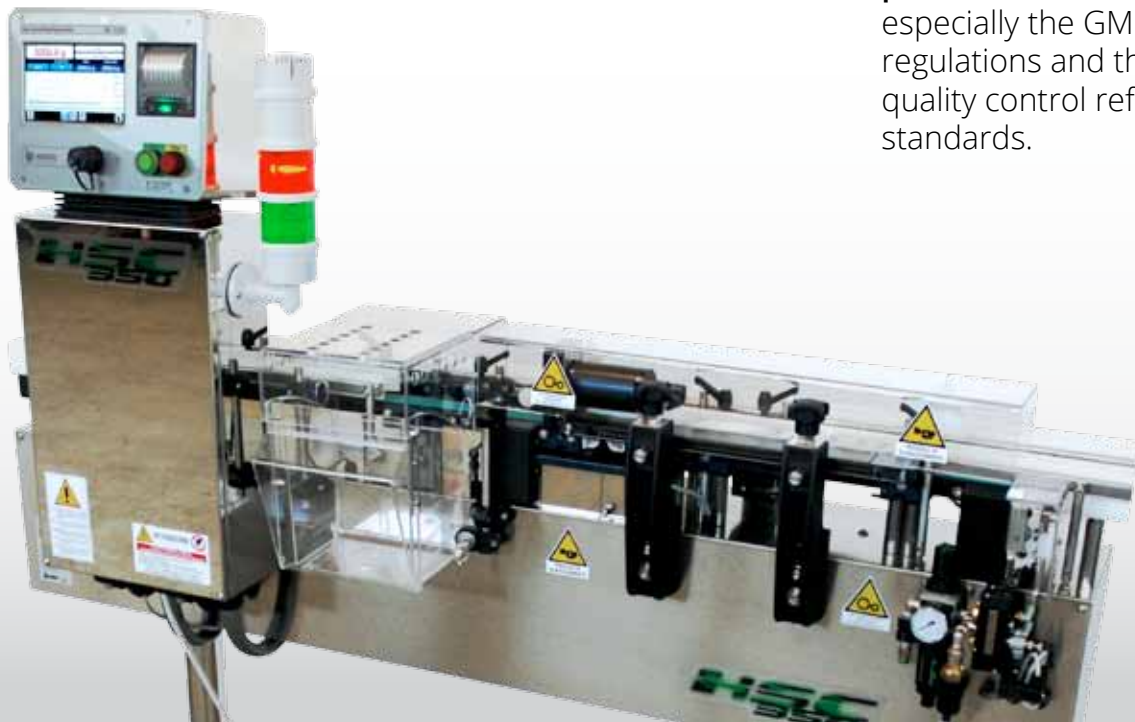
The creation of customised solutions designed to suit the size and shape of the products to be conveyed and measured ensures excellent results and full integration into even the most complex production lines.

# Series S

The HSC350 checkweigher for the pharmaceutical industry



The "S Series" includes modular checkweighers that meet the current requirements of the **pharmaceutical industry**, especially the GMP regulations and the stringent quality control reference standards.



10" TOUCHSCREEN INTERFACE



BOX CHECK



ROUND PRODUCTS TRANSPORT

Various different configurations are available with 1 to 5 conveyor belts and width measurements ranging from 45 mm to 160 mm, for conveying bottles, tubes, blister packs and boxes.

| HSC350         | /000    | /00     | /0      |
|----------------|---------|---------|---------|
| Scale range    | 150 g   | 300 g   | 600 g   |
| Resolution (d) | ≥ 10 mg | ≥ 20 mg | ≥ 20 mg |
| Division (e)   | ≥ 50 mg | ≥ 0,1 g | ≥ 0,2 g |

# Compact, standard and modular

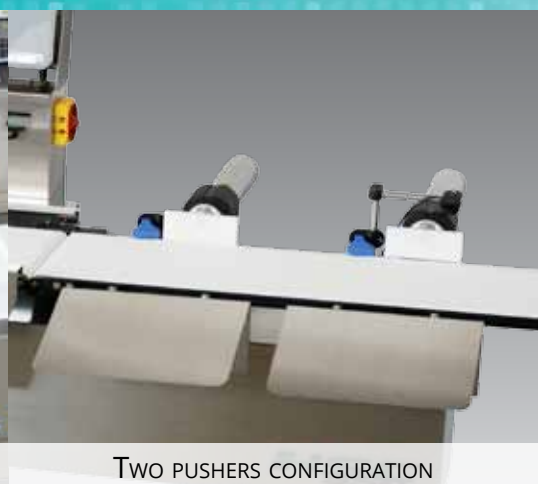
Thanks to the innovative “Real Weight” dynamic measuring system, HSC350 can be used **without the need for calibration or product learning procedures required** by the majority of the “peak weight” weighing machines available on the market.



REJECTOR FOR DELICATE PRODUCT



FALL CONVEYOR REJECTOR



TWO PUSHERS CONFIGURATION

The extensive standard range allows the machine to be selected and sized to suit specific production and application requirements, as well as to meeting the clients needs and budget.

HSC350 “C Series”: the system can be easily sanitised thanks to its special shape which featured flat, easily accessible surfaces.

# Series C

## Standard, for all types of products



The HSC350 "C Series" checkweigher is the compact, modular, cost-effective solution that integrates into the quality control line when space is at a premium.

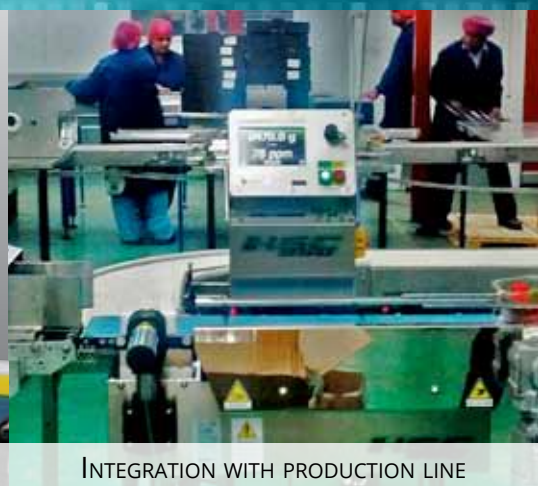
**Sturdy and flexible**, it can be easily fitted with a Metal detector plus display and labelling systems.



ORTHOGONAL SORTER



MULTIPLE-LINE CHECKWEIGHER



INTEGRATION WITH PRODUCTION LINE

Available in many different configurations with 1 to 5 conveyor belts and width measurements ranging from 90 mm to 400 mm, for conveying all types of packaged products.

| HSC350         | /01     | /03     | /06     |
|----------------|---------|---------|---------|
| Scale range    | 1.500 g | 3.000 g | 6.000 g |
| Resolution (d) | ≥ 50 mg | ≥ 0,1 g | ≥ 0,2 g |
| Division (e)   | ≥ 0,5 g | ≥ 1 g   | ≥ 2 g   |

The demand to weigh and sort large, heavy products is increasing in today's markets.

The HSC350 "H Series" checkweighers offer a solution to this demand as they are able to handle and **weigh loads of up to 60 kg at high speed.**



CRATE SELECTION



ROUND PRODUCTS TRANSPORT



BAG SELECTION

With our focus on product handling and production rate, we ensure accurate measuring in all our equipment which guarantees our customers return on investment.

Our comprehensive range of product sorter and rejector devices ensure that the weighing system remains accurate when rejection operations are in progress.

# Series H

The checkweigher for heavy, bulky products

Reliable,  
robust,  
easy to use



3 CONVEYOR BELTS CONFIGURATION



BREAD KNEADING CONTROL



REJECTOR FOR BOXES

Available in many different configurations with 1 to 4 standard or modular conveyor belts and width measurements ranging from 180 mm to 800 mm, for conveying bags, boxes and drums.

|                |          |          |          |
|----------------|----------|----------|----------|
| HSC350         | /15      | /30      | /60      |
| Scale range    | 15.000 g | 30.000 g | 60.000 g |
| Resolution (d) | ≥ 0,5 g  | ≥ 1 g    | ≥ 2 g    |
| Division (e)   | ≥ 5 g    | ≥ 10 g   | ≥ 20 g   |

# Series P

Extreme products in harsh environments

The "P Series" HSC350 checkweighers fully complies with the most stringent standards of hygiene, in wet environments.

Powerful,  
robust and  
accurate



3-CHANNEL SORTER



FEEDING BELTS

HSC350 "P Series" comprise modular plastic conveyors able to provide the utmost resistance to aggressive substances in the food, manufacturing, chemical and pharmaceutical industries.

Available with 1 to 4 standard and modular conveyors and width measurements ranging from 75 mm to 620 mm.

| HSC350         | /03     | /06     | /15      |
|----------------|---------|---------|----------|
| Scale range    | 3.000 g | 6.000 g | 15.000 g |
| Resolution (d) | ≥ 0,2 g | ≥ 0,5 g | ≥ 1 g    |
| Division (e)   | ≥ 2 g   | ≥ 5 g   | ≥ 10 g   |

# Series Q

Designed and built for bulk products



Effective, simple  
and flexible

The HSC350 "Q Series" checkweigher features an innovative design and construction, and it is **extremely simple to use and service**: the modular plastic belts are easily removed which makes washing and sanitising quick and simple.



2-CHANNEL CONFIGURATION



BULK PRODUCT SELECTION

Small in size and configurable as a multiple product grading line with 100 mm to 300 mm conveyor width

| HSC350         | /01     | /03     | /06     |
|----------------|---------|---------|---------|
| Scale range    | 1.500 g | 3.000 g | 6.000 g |
| Resolution (d) | ≥ 0,2 g | ≥ 0,5 g | ≥ 1 g   |
| Division (e)   | ≥ 2 g   | ≥ 5 g   | ≥ 10 g  |

# Customised solutions

The “tailor-made” solution for your product

## Problem

Reduce over-weight packs when packaging mushrooms, strawberries and soft fruits



## HSC350 Solution

Nemesis has built and patented line that recirculates the product back to the checkweigher, facilitating manual weight correction and minimizing over-batching with 100% control of the production lot.

## Problem

Weight checking for salt packages at a rate of over 350 pieces per minute



## HSC350 Solution

Given the extreme operating conditions, the solution required in-depth research so as to guarantee fade-free accuracy of the measuring system. Careful selection of materials and technical solutions allows the machine to function 24 hours a day with reduced maintenance intervals.

## Problem

Limited space, existing line that cannot be modified and unstable product



## HSC350 Solution

A machine designed and tailor-made is the only solution: this problem was solved by picking up the product from alongside the conveyor and taking it back to the accumulator table without having to modify the existing line in any way.



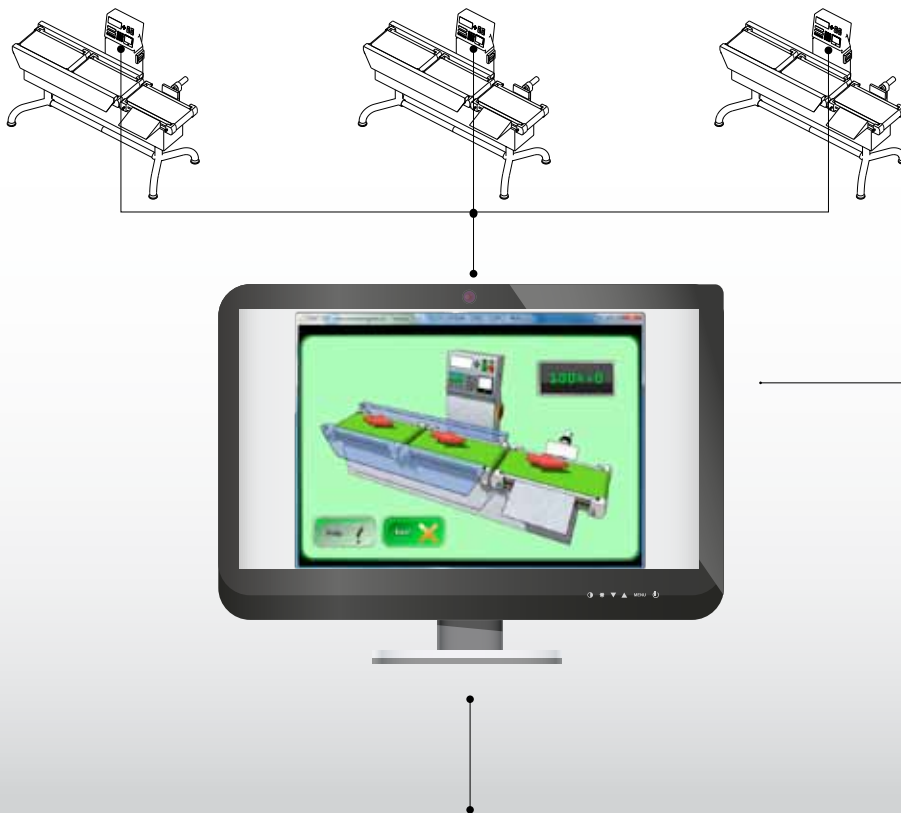


# STAT350

Data acquisition software

The **food traceability and re-traceability laws** have added a further degree of complexity to the industry. The management software created by NEMESIS is an excellent solution to these problems.

STAT350 acquires indications about the origins of the products, as well as the events and variations that may have occurred during the individual production phases, **thereby complying with the HACCP recommendations.**



CUSTOMER AND SUPPLIER ARCHIVE



ON-LINE ANALYSIS



BATCH STATISTICS REPORT

Amongst others, the program provides the following functions:

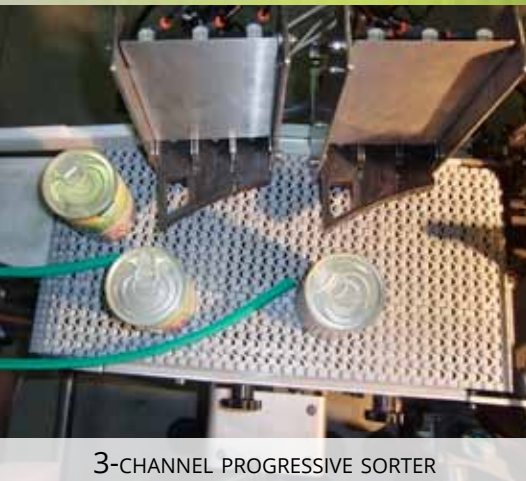
- Real time display of the production lot reports
- Control of up to 32 HSC350 units by a single PC
- Management of the product archive with definition of all the parameters
- Real time display of the production Data, plus data storage for future process.

# Series R

Chain checkweigher for high speeds

Strong, fast  
and precise

The HSC350 "R Series" chain checkweigher combines **unrivalled sturdiness**, high precision and a design created for use in extreme industrial environments.



3-CHANNEL PROGRESSIVE SORTER



DIAGNOSTIC AND ALARM SYSTEM



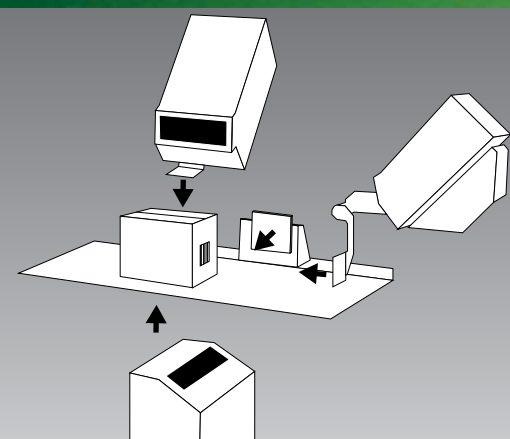
CAN MONITORING

Available in numerous configurations, with 1 to 4 chain conveyors and width measurements ranging from 50 mm to 230 mm, for checking cans, jars and bottles.

| HSC350         | /01     | /03     | /06     | /15      |
|----------------|---------|---------|---------|----------|
| Scale range    | 1.500 g | 3.000 g | 6.000 g | 15.000 g |
| Resolution (d) | ≥ 0,1 g | ≥ 0,2 g | ≥ 0,5 g | ≥ 1 g    |
| Division (e)   | ≥ 1 g   | ≥ 2 g   | ≥ 5 g   | ≥ 10 g   |

## Versatile, accurate, effective

The basic entry level version is semi-automatic which enables smaller operators to calculate and print labels according to the weight.



APPLICATION EXAMPLES



"C" TYPE LABELLING MACHINE



FRONT LABEL APPLICATOR

Each unit can be equipped with one or more printing units with a 4" to 6" applicator for top, side, "C" band, bottom and front-facing labelling.

HSC350 weighing-price marking machines can be perfectly integrated into production lines or used as self-standing stations.

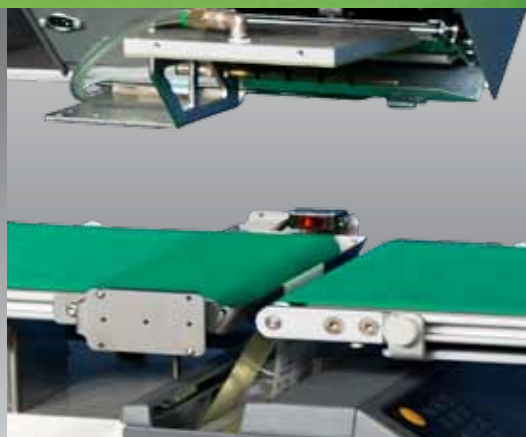
# Series KX

The reliable price-weigh-labelling machine for general use

A new generation of weighing and labelling systems able to provide an **excellent performance at an unrivalled cost ratio**



SIDE LABEL APPLICATOR



TOP AND BOTTOM LABEL APPLICATOR



BOTTOM LABEL APPLICATOR

Available in numerous configuration, from 1 to 5 conveyors with width from 160 mm to 400 mm.

|                |         |         |         |
|----------------|---------|---------|---------|
| HSC350         | /01     | /03     | /06     |
| Scale range    | 1.500 g | 3.000 g | 6.000 g |
| Resolution (d) | ≥ 50 mg | ≥ 0,1 g | ≥ 0,2 g |
| Division (e)   | ≥ 0,5 g | ≥ 1 g   | ≥ 2 g   |



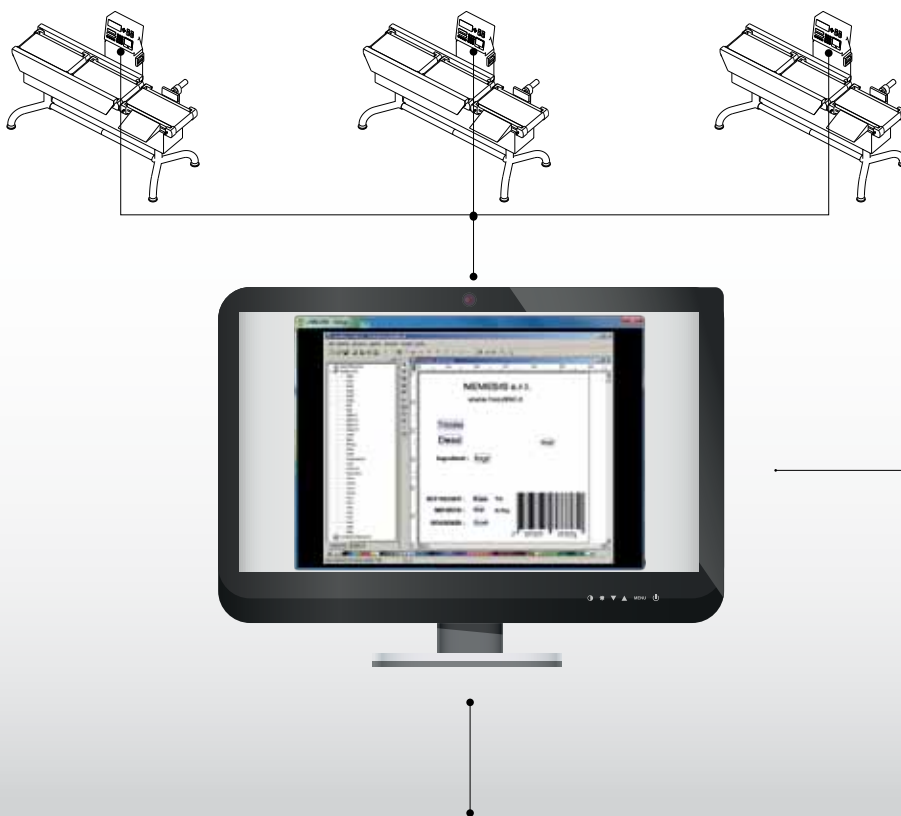
# LABEL350

Full operational autonomy included in the price

The LABEL350 software **manages the weighing and labelling function and is simple and easy to use.**

Label formats created and edited on the screen, management of the PLU database, data exchange and integration in the factory network are just a few features of this software package.

**Text management including the UniCode standard** for non-western alphabets.



LABEL PREVIEW



DATABASE MANAGEMENT



SIMPLE, FAST SETTINGS

Supplied together with the HSC350 weighing-labelling machine, the LABEL350 integrated work environment includes user-friendly tools and fully autonomous management of graphic layouts and PLU.

Historic production statistics can be transferred by USB Flash drive or Ethernet.

# Series KX

For weighing and labelling bulky products



## Weigh-price labeller for large sizes

Boxes, crates and other large packages can be weighed and labelled with fixed and variable weights using the "KX Series" weighing-price marking machines.



BOTTOM LABEL APPLICATION



LOGISTICS APPLICATIONS



SIDE LABEL APPLICATION

Available in numerous configuration, from 1 to 5 conveyors with width from 300 to 620 mm.

|                |          |          |          |
|----------------|----------|----------|----------|
| HSC350         | /15      | /30      | /60      |
| Scale range    | 15.000 g | 30.000 g | 60.000 g |
| Resolution (d) | ≥ 0,5 mg | ≥ 1 g    | ≥ 2 g    |
| Division (e)   | ≥ 5 g    | ≥ 10 g   | ≥ 20 g   |

100%  
inspection  
in line



METAL-DETECTOR FOR POWDERS



VERTICAL METAL-DETECTOR WITH BELTS



STAND-ALONE METAL-DETECTOR

**Fully integrated**, the metal detector can be supplied in the configuration with 1 to 4 conventional or modular conveyor belts as a stand-alone unit or in combination with checkweigher HSC350.

Safety and reliability are essential factors in industrial production as the end consumer trusts that the products fully comply with the quality standards.

# Series MX

## Integrated systems with Metal Detectors

An advanced end-of-line control system can be achieved by combining a mono- or multiple frequency Metal detector with an HSC350 checkweigher.



CHECKWEIGHER AND METAL-DETECTOR FOR BAGS



INTEGRATION WITH LABELLING MACHINE

The HSC350 statistical data acquisition unit and the local printer record the non-conformities detected by the Metal-detector.

|                | MX      |         |         | MH       |          |
|----------------|---------|---------|---------|----------|----------|
| HSC350         | /01     | /03     | /06     | /15      | /30      |
| Scale range    | 1.500 g | 3.000 g | 6.000 g | 15.000 g | 30.000 g |
| Resolution (d) | ≥50 mg  | ≥ 0,1 g | ≥ 0,2 g | ≥ 0,5 g  | ≥ 1 g    |
| Division (e)   | ≥ 0,5 g | ≥ 1 g   | ≥ 2 g   | ≥ 5 g    | ≥ 10 g   |



**The punnet production line is an advanced configuration of the "Z Series".** It features a "recirculation" channel where non-conforming products are conveyed to the weight correction station so as to avoid waste and prevent non-conformities. After correction, the products are weighed again ensuring 100% control of production.

"To provide less product is a crime, to give product away is a pity.."

The standard configuration has three conveyor belts: The input unit spaces the packages and loads the scale module where the products are accurately weighed. They are then transferred to a third conveyor belt in the relevant channel.

# Series Z

## Multiple channel weight classification

The "Z Series" HSC350 is a high speed checkweigher for small packages (punnets, trays, cans, jars) with an **integrated classification system** able to divide the product among three channels: underweight, conforming, overweight.



TOMATO PROCESSING



MODULAR PLASTIC BELT



BLUEBERRY PROCESSING

The "Flipper" sorting system can work with delicate packages, even open ones, without the risk of damaging or spilling the product.

|                |         |         |
|----------------|---------|---------|
| HSC350         | /01     | /03     |
| Scale range    | 1.500 g | 3.000 g |
| Resolution (d) | ≥ 50 mg | ≥ 0,1g  |
| Division (e)   | ≥ 0,5 g | ≥ 1 g   |



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**NEMESIS** is active from 1976 in the industrial electronics for automation field; from then on the company has developed, careful with the market demands, anticipating planning solutions with high technological content, improving technical and instruments dedicated to industrial applications in static and dynamic weighing field.