



# Weighing for process automation

Plant engineering, machine control



# Optimize the productivity of your processes...

Thanks to our automation skills and expertise in weighing applications, we can offer weighing solutions to optimize your productivity and the availability of your equipments. Easy to integrate into automated systems, these solutions cover your entire needs for monitoring and control of your manufacturing processes.

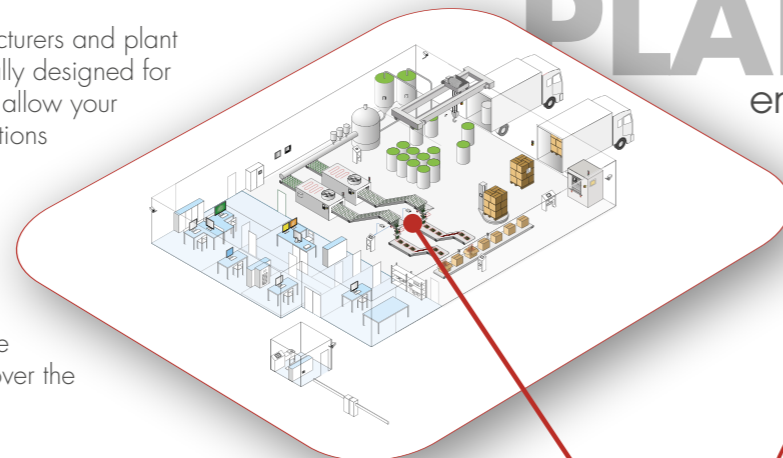
## OUR DIFFERENCE...

We back you up in the design and set-up...  
 We reduce your development and integration costs ...  
 We increase your productivity...  
 We improve the quality of your products...

## FIELDS OF EXPERTISE:

Our solutions, dedicated to machine manufacturers and plant engineering companies, have been specifically designed for integration into automated systems. They will allow your developers to quickly design automation solutions that will help you to improve the efficiency of your manufacturing processes.

You will take advantage of our expertise in the field of weighing solutions as our controllers integrate comprehensive and high-performance application functions. These evolutive and easily configurable solutions cover the entire supply chain.

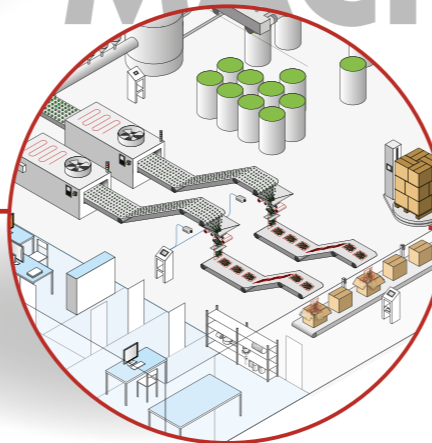


**PLANT**  
engineering

- Food & Beverage
- Mining, Metals and Minerals
- Chemicals/Pharmaceuticals
- Waste management
- Engineering/Automation

**MACHINE**  
control

- Packing
- Packaging



## INTEGRATION & CONNECTIVITY:

Our controllers are designed to be integrated into automated systems ensuring connectivity with the main industrial networks on the market...

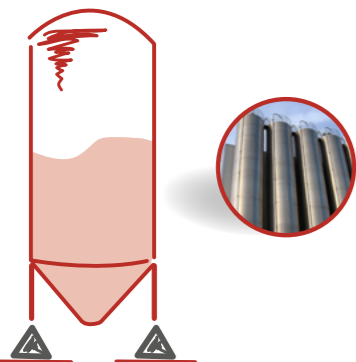


SCAIME is also Schneider Electric's official partner for weighing applications. This partnership ensures a perfect connectivity between our solutions and Schneider's automation architectures.

Technology Partner

Schneider Electric

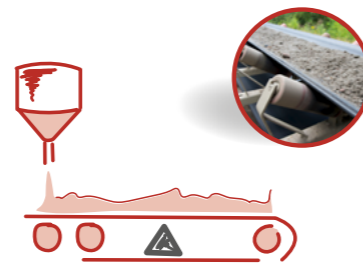
## Storage



### Silo and tank weighing

Accurate storage control for small size tanks up to several hundred tons silos thanks to a non-intrusive technology regardless of the container shape.

## Material supply



### Belt Weighing & Dosing

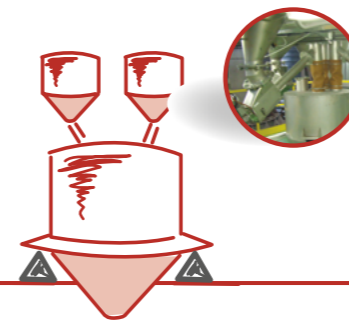
Material transfer on conveyor belt with flow regulation and continuous totalization.



### Loss-in-weight dosing

Get a constant material flow at very high accuracy.

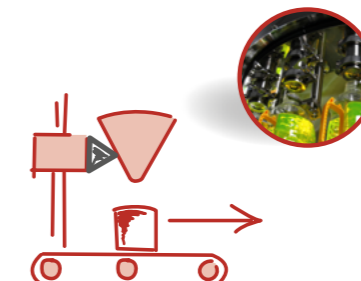
## Manufacturing



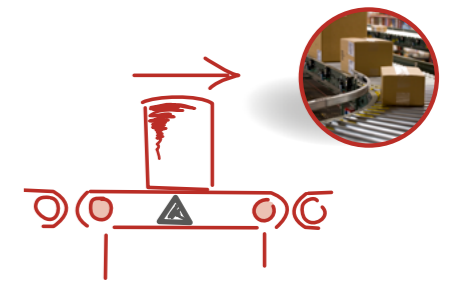
### Dosing & Filling

Accurate, fast and reproducible filling to ensure the quality of the products and reduce defective batches.

## Packaging



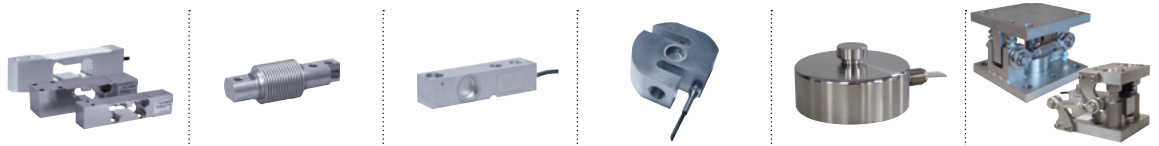
## Control



### Checkweighing & sorting

Weighing for the grading of products or missing parts check before shipment.

••••• **LOAD CELLS AND MOUNTING KITS** •••••



| Type          | Single points  | Bending beams   | Shear beams                                  | Tension   | Compression                         | Mounting kits   |
|---------------|--|---|--|---|-------------------------------------|---|
| Application   | Mono-cell<br>Belt weighing,<br>conveyor and tank<br>weighing | Mono/multi-cell<br>Belt weighing, conveyor<br>and tank weighing | Multi-cells<br>Conveyor and tank<br>weighing | Mono/multi-cell<br>Conveyor or hanging<br>hopper weighing | Multi-cell<br>Tank or silo weighing | Compression/Tension<br>Conveyor, tank or silo<br>weighing |
| Capacity (Cn) | 200 g ... 635 kg   | 5 kg ... 500 kg   | 300 kg ... 5 t                               | 25 kg ... 7.5 t   | 250 kg ... 1 000 t                  | 5 kg ... 750 t  |
| Construction  | Aluminum IP65<br>Inox IP65/IP69K                             | Stainless steel IP68  | Alloy steel IP67<br>Stainless steel IP68     | Alloy steel IP67<br>Stainless steel IP68                  | Stainless steel IP68                | Alloy steel<br>Stainless steel                            |
| Certification | OIML, ATEX, IECEx,<br>EHEDG, FM                              | OIML, ATEX, IECEx, FM   | OIML, ATEX, IECEx, FM                        | OIML, ATEX, IECEx, FM                                     | OIML, ATEX, IECEx                   | EN1090  |

••••• **ELECTRONICS AND DIGITAL LOAD CELLS** •••••



| Model         | AAD/DVX/DVS                            | IPE50                     | CPJ                       | eNod3                      | eNod4                          | PMESWT                            |
|---------------|--|---------------------------|---------------------------|----------------------------|--------------------------------|-----------------------------------|
| Type          | <i>Digital single point load cells</i> | <i>Weighing indicator</i> | <i>Analog transmitter</i> | <i>Weighing controller</i> |                                | <i>Automation weighing module</i> |
| Capacity (Cn) | 5 kg ... 75 kg                         | 1 to 4 channels           | 1 channel                 | 1 channel                  | 1 channel                      | 1 channel                         |
| Construction  | Aluminum IP65<br>Stainless IP68/IP69K  | Din Rail<br>Panel         | Din Rail<br>Box           | Din Rail<br>Box            | Din Rail<br>Stainless box IP65 | Backbone                          |
| Certification | OIML, EHEDG                            | OIML                      | -                         | OIML                       | OIML, ATEX, IECEx              | -                                 |

**Integrated applications**

|                              | Versions |   |   |   | Versions |   |   | Versions |   |   |   |   |
|------------------------------|----------|---|---|---|----------|---|---|----------|---|---|---|---|
|                              | C        | D |   |   | T        | C | D | T        | C | D | B |   |
| Weighing transmitter         | •        | • | • | • | •        | • | • | •        | • | • | • | • |
| Weighing controller, grading | •        | - | - | - | -        | • | - | -        | - | - | - | - |
| Dosing, filling              | -        | • | - | - | -        | - | • | -        | - | - | - | • |
| Weighing, belt dosing        | -        | - | - | - | -        | - | - | -        | - | • | - | - |
| Loss-in-weight dosing        | -        | - | - | - | -        | - | - | -        | - | - | • | - |


**Interfaces**

|                |         |         |     |         |         |         |         |
|----------------|---------|---------|-----|---------|---------|---------|---------|
| Inputs/Outputs | 2/1/4 ○ | 2/1/2 ○ | 2 ○ | 2/1/4 ○ | 4/1/4 ○ | 4/1/4 ○ | 2/1/4 ○ |
| Analog output  | -       | •       | •   | -       | ○       | ○       | -       |
| Bluetooth      | -       | -       | -   | -       | -       | ○       | -       |

**Industrial networks**

|             |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|
| Modbus-RTU  | • | • | - | • | • | • | - |
| Modbus-TCP  | - | - | - | - | - | ○ | - |
| CANopen®    | • | - | - | • | • | • | - |
| PROFIBUS-DP | - | • | - | - | - | ○ | - |
| PROFINET®   | ○ | - | - | - | - | ○ | - |
| EtherNet/IP | ○ | - | - | - | - | ○ | - |
| EtherCAT®   | - | - | - | - | - | ○ | - |

**HMI**



|                 |                |   |                            |   |                |          |
|-----------------|----------------|---|----------------------------|---|----------------|----------|
| • As a standard | ○ As an option |  | Touchscreen<br>eNodTouch-S | - | ○<br>4"3 - 5"7 | ○<br>4"3 |
|-----------------|----------------|---|----------------------------|---|----------------|----------|




Distributed exclusively in Italy by Nonis Balance

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