

PAVONESISTEMI

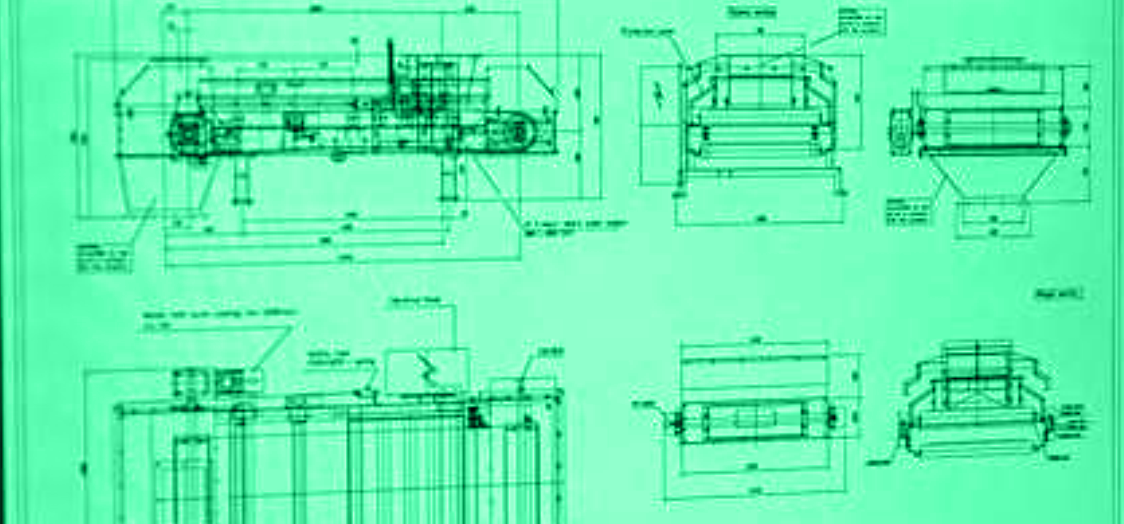
Weighing the difference



Electronic weighing systems since 1963

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A technical drawing of industrial weighing equipment, showing various components and dimensions. The drawing is in black lines on a white background, with some text labels. It includes a large side view of a platform scale, a smaller top view, and several detail views of components like the load cell and the weighing mechanism. The drawing is oriented horizontally.

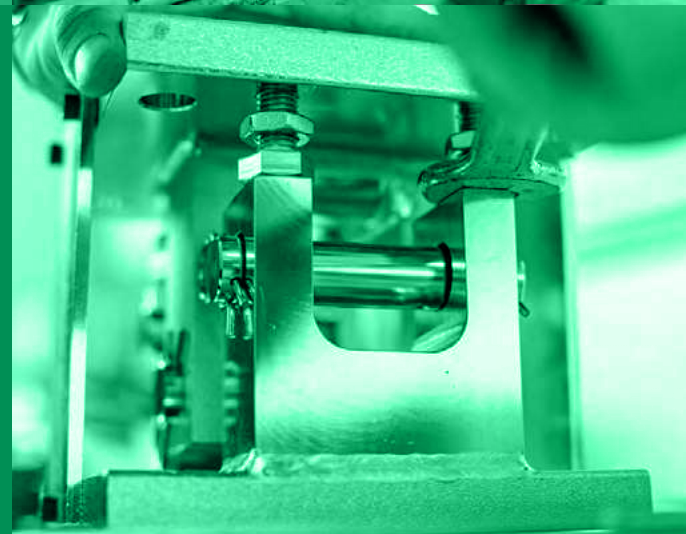
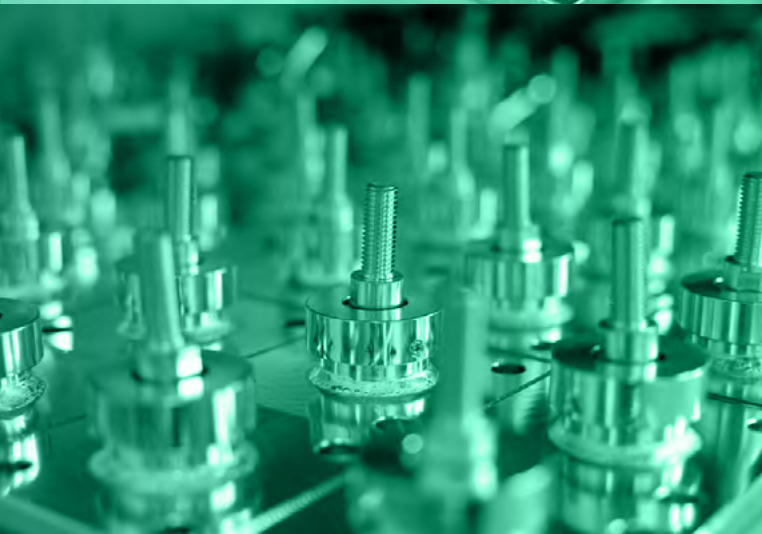
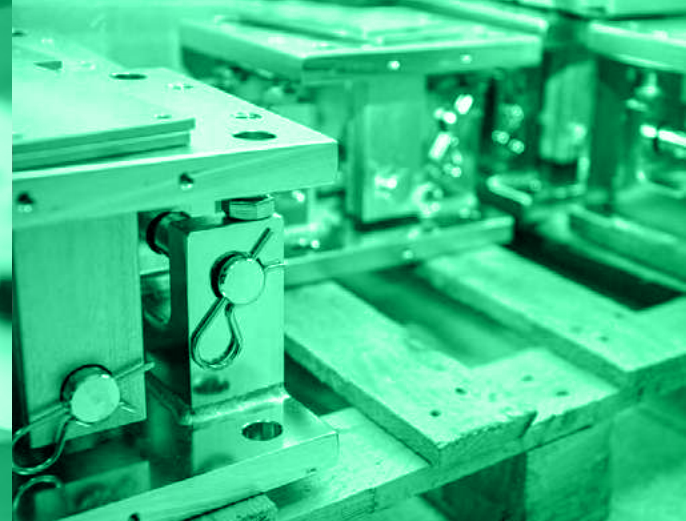
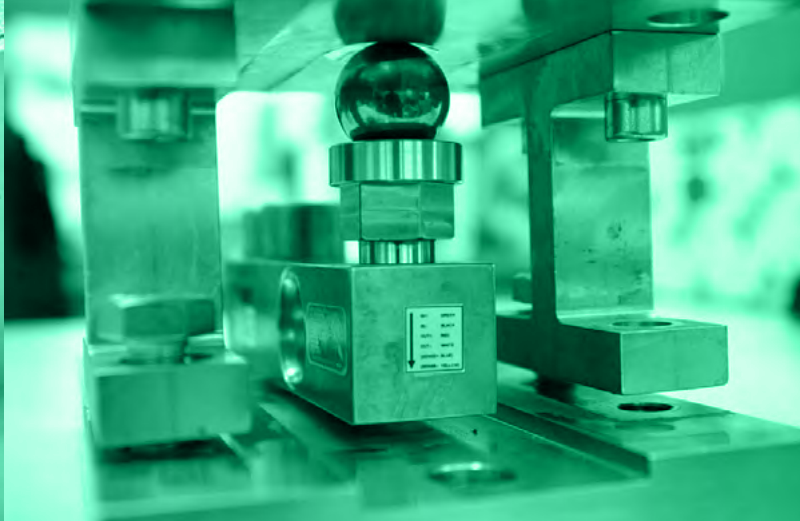
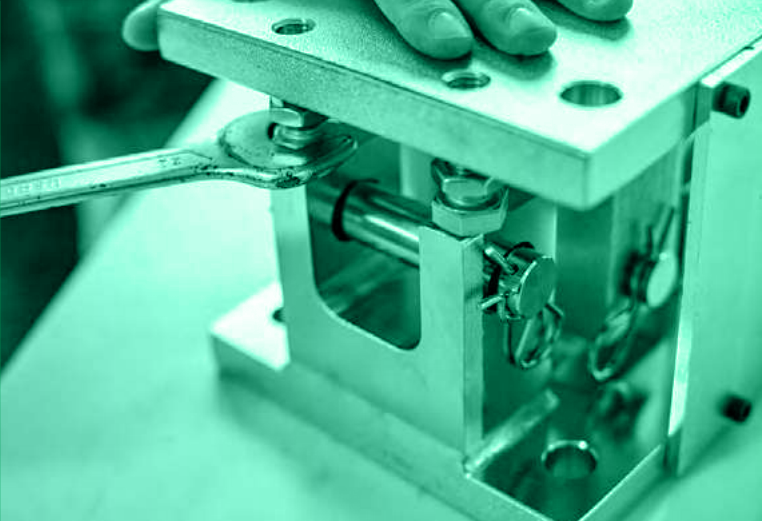
about us

We provide weighing solutions since 1963

We have been leader in the weighing and measuring sector for over 60 years.

From the foundation of our company until today, we have been through all the levels of technological evolution up to integrated electronic weighing solutions with particular attention to the development of load cells, weight transmitters and weight indicators. Most of our products are customizable in order to best adapt to their final use and to meet customer needs. In addition to providing high quality products, we guarantee assistance, maintenance and several free services such as telephone assistance,

tutorial videos available on our website and on our YouTube channel and software for our instruments. Our weighing software simplifies the weighing system usability since they allow calibration, linearisation and parameters set up, which usually occurs through a reduced keyboard. We are not just suppliers. We are a real, specialized consultants and we provide optimal and innovative solutions for your business. What makes our weighing products different is the detailed attention to the production process. Our added value is given by our assistance and attention to the client through free services.



We are close to your projects, with a constantly growing international sales and support network

worldwide



**Dedicated consulting
and support for all weighing systems**



**Constant innovation and development
of custom solutions**



International ISO certifications

We offer a global network of business partners who share our passion and expertise, and can provide technical support, assistance, and effective problem-solving for all your projects, anywhere in the world. Our team of internal technicians and engineers is also available to provide on-site support within 24 hours, if needed.

our attitude

We are innovators

Experience and research have enabled us to become true specialists in the industrial electronic weighing. We are not simply researchers; instead, we are innovators looking for new weighing solutions. Every day, we strive to improve our weighing products and services so as to satisfy our customers and ensure them the best accuracy and reliability in every measurement.

We care about certifications

Our business is proven by certifications that ensure the quality and the safety of our products and our services. The quality of our Management System is 100% reliable since it is certified by ISO 9001, which aims at verifying the company ability of providing products and services that meet customer requirements and satisfaction.

ATEX certification

Extremely compact designs, intuitive and optimized hardware-software integration, low power operation, data communication even with fieldbus, all at incredible prices. With the inclusion of first-class, direct, real-time support: online with video tutorials, on-call by telephone and on site with highly qualified technicians available to solve problems. The sum of these qualities makes all Pavone Sistemi ATEX products exclusive and superior to any other offer currently available on the market.

Zone 1, 21
Zone 2, 22





applications

We offer weighing solutions

Our work approach is active. Not only does the relationship with customers consist in selling the right product, but it also aims at educating our customers through assistance and technical competences. We deal with production, installation, assistance, and consulting and we periodically check the operation of the weighing system in order to ensure a stable, correct calibration. In addition, we provide other services: calibration of weighing systems with new full scale resolution values, repair of instruments and load cells, machinery re-homologation, verification of the correct mechanical installation and correct

electrical connection of the equipment, verification of the correct calibration according to the required procedures, etcetera. We are also suppliers of calibration certificates and we are ISO 9001 certified.



We provide solution for every need

Pavone Sistemi has been providing products and services for the industrial electronic weighing worldwide since 1963. Our load cells and our high-tech weighing components are compatible with any weighing system and are suitable for all sectors of industrial application. Our range of products deliver on the needs of different industrial environments and production processes paying attention to various types of problems: dimensions, extreme temperatures, product certifications, instrument testing, fireproof materials, ecc. The quality of our products and our work is proved by globally recognized certifying agencies.

We supply multiple sectors

We supply products and services all over the world. Pavone Sistemi solutions are applied in all industrial sectors: steel, metallurgy, paint, tanneries, cement factories, paper mills, glass, pharmaceutical, chemical, petrochemical, food processing and packaging industries. We give priority to costumers' needs: through the right questions, we provide the right solutions. Whether you are a small-medium industry or a multinational group, we always provide the proper solution thanks to our experience and our knowledge.



STEELWORKS



DRILLING



PAINTS



PACKAGING



AUTOMATION



FOOD



PLASTICS



PAPER



AUTOMOTIVE



ZOOTECHNICS



ENVIRONMENT



UNIVERSITY RESEARCH



UPLIFT



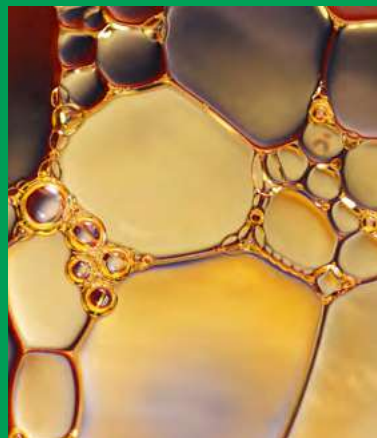
LOGISTICS



SHIPBUILDING



PHARMACEUTICAL



PETROCHEMICAL



TEXTILE



BEVERAGE



AGRICULTURE



product range

- ▲ Instrumentation
- ▲ Load cells
- ▲ Mounting kits
- ▲ Dynamic weighing
- ▲ Platform scales
- ▲ Junction boxes
- ▲ Tester 1008

The complete product range for weighing systems

Accurate weighing is the cornerstone of efficient production, regardless of your industry. For over six decades, Pavone Sistemi has been the trusted Italian partner delivering cutting-edge industrial weighing solutions. From static and dynamic weighing to loss-in-weight and batching processes, our comprehensive product range covers it all. But our commitment extends beyond superior products. We provide expert pre- and post-sales support, ensuring your weighing systems are optimized for peak performance.

With a global reach spanning approximately 40 countries, our durable solutions are designed to meet the unique challenges of diverse industries. Need a load cell tailored to your exact specifications? Our Italian-made custom load cells deliver unparalleled precision. Every Pavone Sistemi product is meticulously engineered to meet the rigorous demands of industrial environments, backed by essential certifications. Discover the Pavone Sistemi difference: precision, reliability, durability, and unparalleled expertise. Our weighing systems are built to last, guaranteeing accuracy and repeatability you can count on.

We set up success products

Our goal is to deliver unparalleled solutions for your industrial weighing challenges. That's why we are committed to designing, developing, and manufacturing the absolute best weighing equipment the market can offer. With us, you get more than just a product; you invest in exceptional performance and value. We believe in unwavering dedication to finding innovative solutions that not only meet but exceed your expectations, driving your business forward.



DAT 11



DAT 1400



EL5



UWT 6008



DAT 700



MCT 1302



MC 315 ATEX



TESTER 1008

technical info

certifications



UL

DAT 11

weight transmitter

The little genius of the weighing systems



Among the weight transmitters, DAT 11 is the fastest to receive, convert and transmit data thanks to a more performing A/D converter. Thanks to its small size and compact design, the DAT 11 weight transmitter can be inserted in any work environment without taking up too much space. DAT 11 is a customizable product that has a mechanical keyboard with a programmable key block from which it is possible to manually set the weight filter with predetermined values or with individually adjustable parameters.

The DAT 11 weight transmitter features removable screw terminal blocks, selectable logic input function, voltage or current analog input, unipolar or bipolar analog output, RS485 junction box connection and peak hold function for dynamic measurements.



DAT 11
weight transmitter

Tech Details

- » Measuring range: $-7.6 \div +7.6$ mV/V
- » Input sensitivity: $0.02 \mu\text{V}/\text{count}$
- » Full scale non-Linearity: $<0.01\%$
- » Gain drift: $0.001\% \text{ FS}/^\circ\text{C}$
- » Display: 6 digit, 7-segment LED red, height 8mm
- » A/D Converter: 24 bit
- » Internal Resolution: $> 16.000.000$ points
- » Visible resolution (in divisions): 999999
- » Divisions value (adjustable): x1, x2, x5, x10, x20, x50
- » Decimal figures range: $0 \div 4$
- » Temperature range: $-10 \div +50^\circ\text{C}$ (max umidity 85% without condensation)
- » Storage temperature: $-20 \div +60^\circ\text{C}$
- » Filter: $0.1 \div 250$ Hz
- » Excitation voltage: 4 Vdc (max 4 -350 Ohm- load cells)
- » Logic output: 2 optoisolated outputs; max 24 Vdc/100 mA each
- » Logic input: 2 optoisolated inputs 24 Vdc PNP (external power supply)
- » Serial port: 1 USB-C device + 1 RS232C and 1 RS485 with ASCII or Modbus RTU protocol or 1 Fieldbus
- » Analog output Non-Linearity: $<0.03\%$
- » Temperature drift analog output: $0.002\% \text{ FS}/^\circ\text{C}$
- » Power supply: 24 Vdc $\pm 10\%$ - power consumption 5 W
- » Microcontroller: ARM Cortex M0 + 32 bit 256KB Flash reprogrammable onboard via USB
- » Data storage: 32 Kbytes expandable up to 1024 Kbytes (optional)
- » Regulatory compliance: EN61000-6-2, EN61000-6-3, EN61326-1 for EMC, EN61010-1 for Electrical Safety

Models

- » ANALOG
- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET WEB SERVER
- » ETHERNET IP
- » ETHERCAT
- » CANOPEN

DAT 1400

weight transmitter



technical info



certifications

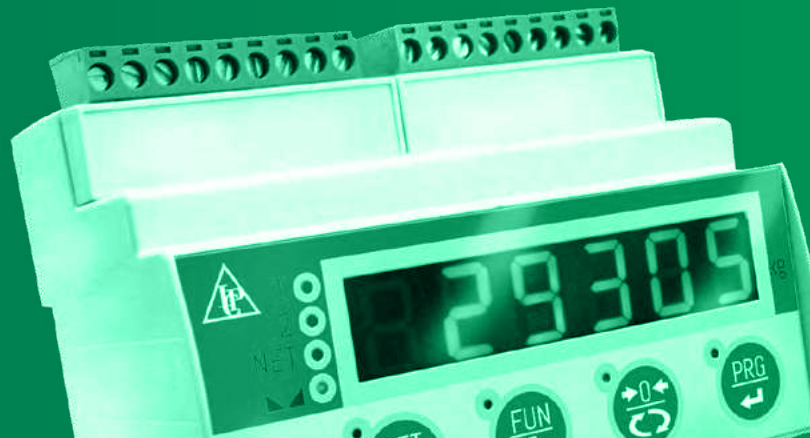
UL
EAC
OIML

The fastest in its category

The DAT 1400 weight transmitter has a mechanical keyboard, removable screw terminal blocks and a peak hold function for dynamic measures. It has the ability to integrate different options based on customer needs. For example, among the options there are the analog input which can be in tension or electrical and the RS485 connection to external smart junction box. The complimentary Optimization software empowers you to perform calibration and monitoring directly from your PC, providing complete control over your equipment; Optimization software, provided for free by Pavone Sistemi, offers an intuitive user interface, making setup and maintenance a breeze.

Tech Details

- » Legal for Trade: certification available on request
- » Measuring range: $-3.9 \div +3.9$ mV/V
- » Input sensitivity: $0.02 \mu\text{V}/\text{count}$
- » Full scale non-Linearity: $<0.01\%$
- » Gain drift: $<0.001\% \text{ FS}/^\circ\text{C}$
- » Display: 6 digit, 7-segment LED red, height 14mm
- » A/D Converter: 24 bit
- » Internal Resolution: $> 16.000.000$ points
- » Frequency signal acquisition: $12 \div 1000$ Hz
- » Visible resolution (in divisions): 999999
- » Divisions value (adjustable): x1, x2, x5, x10, x20, x50
- » Decimal figures range: $0 \div 4$
- » Temperature range: $-10 \div +50^\circ\text{C}$ (max umidity 85% without condensation)



DAT 1400
weight transmitter

Models

- » Storage temperature: $-20 \div +70^{\circ}\text{C}$
- » Filter: $0.5 \div 1000 \text{ Hz}$
- » Excitation voltage: 5 Vdc (max 8 $\div$ 350 Ohm- load cells)
- » Logic output: 2 optoisolated outputs; max 24 Vdc/100 mA each
- » Logic input: 2 optoisolated inputs 24 Vdc PNP (external power supply)
- » Serial port: 1 USB device + 1 RS232C + 1 RS485/Fieldbus; ASCII or Modbus RTU protocol
- » Analog output Non-Linearity: $< 0,02\%$
- » Temperature drift analog output: $0,001\% \text{ FS} / ^{\circ}\text{C}$
- » Power supply: $12 \div 24 \text{ Vdc} \pm 15\%$ - power consumption 5 W
- » Microcontroller: ARM Cortex M0 + 32 bit 256KB Flash reprogrammable onboard via USB
- » Data storage: 64 Kbytes expandable up to 1024 Kbytes (optional)
- » Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety
- » ANALOG
- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET WEB SERVER
- » ETHERNET IP
- » ETHERCAT
- » CANOPEN
- » ANALOG + PROFINET
- » ANALOG + PROFIBUS DP
- » ANALOG + ETHERNET
- » ANALOG + ETHERNET IP
- » ANALOG + ETHERCAT
- » ANALOG + CANOPEN

technical info

certifications



UL

EL5 weight transmitter



Light and effective

The brand new EL5 weight transmitter can be used in any industrial weighing system with the purpose of regulation and supervision. Practical, fast, flexible, suitable for systems up to 8 load cells. The EL5 weight transmitter can be configured via PC using dedicated software or directly from the Master via the communication protocol used. Main functions: field and remote fault diagnostics, emulation function of the faulty cell with exclusion from the weighing system and automatic recalibration of the new load cell. It is the natural evolution of the E LINK 3000 weighing instrument. It has two serial inputs: COM1: RS232 for configuring parameters from PC and

COM2: RS485 with Modbus RTU or Fieldbus protocol (Profinet, Profibus, Canopen, Ethernet IP and classic Ethernet). EL5 has extractable terminal blocks for electrical connection to load cells. Value for quality, performance, price, simply incredible. A real must have for all weighing systems.



EL5
weight transmitter

Tech Details

- » Transducer input voltage: 5 Vcc (max 16 load cells 350 Ohm, in total)
- » Measuring range: $-3.9 \text{ mV/V} \div +3.9 \text{ mV/V}$
- » Input sensitivity: $0.02 \mu\text{V min}$
- » Output linearity: $< 0.01\% \text{ FS}$
- » Gain drift: $< 0.0003\% \text{ FS} / ^\circ\text{C}$
- » A/D Converter: 24 bit
- » Internal Resolution: $> \text{than } 8.000,000 \text{ divisions}$
- » Frequency signal acquisition: $25 \div 400 \text{ Hz}$ (4 load cells)
- » Filter: Selectable from 0.25 Hz to 25 Hz
- » Power supply: $12\text{-}24 \text{ Vcc} \pm 15\%$ - absorbed power 3 W
- » Isolation: Class III
- » Installation category: Cat. II
- » Temperature range: $-10 / +50 ^\circ\text{C}$ (max humidity 85% without mist)
- » Storage temperature: $-20 / +70 ^\circ\text{C}$
- » Serial port: 1 USB device + 1 RS232C + 1 RS485
- » Microcontroller: 32 bit ARM Cortex M0+, 128KB Flash reprogrammable on- board from USB
- » Data storage: 4 Kbytes
- » Regulatory compliance: EN61000-6-2, EN61000-6-3 per EMC; EN61010-1 for electrical safety
- » Electrical connection: Removable screw terminal, 3.81 mm pitch
- » Dimensions: 98 x 90 x 40 mm (L x H x P)
- » Mounting type: Fixing with 4 screws or on support for DIN bar or OMEGA bar

Models

- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET IP
- » ETHERCAT
- » CANOPEN



UWT 6008

weight transmitter

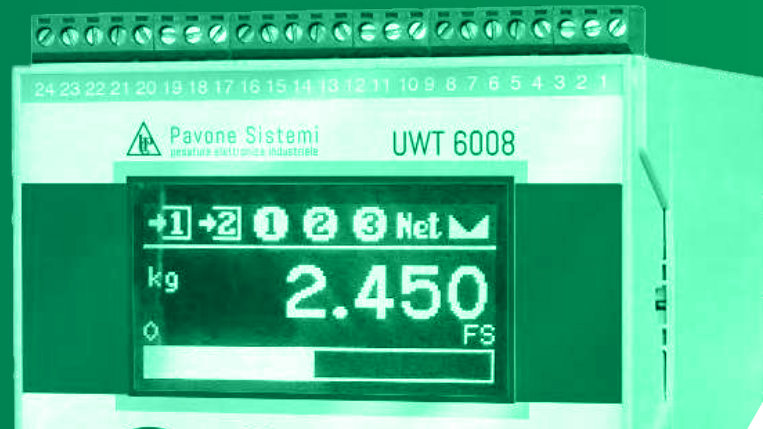


Never stop your production

The UWT 6008 weight transmitter, a Pavone Sistemi innovation, is revolutionizing load distribution monitoring. Engineered for demanding industrial environments, it delivers unparalleled visibility into load cell health. Safeguard your operations with proactive alerts for signal drift, missing connections, cell failures, and weight imbalances. Our exclusive emulative control ensures uninterrupted production, even in the face of unexpected challenges. Optimize efficiency and minimize downtime with free Optimization software, simplifying calibration and maintenance. Experience the UWT 6008 difference and elevate your weighing processes to new heights of accuracy and reliability. UWT 6008: precision and protection for your operations.

Tech Details

- » Measuring range: $-3.9 \div +3.9$ mV/V
- » Input sensitivity: $0.02 \mu\text{V}/\text{count}$
- » Full scale non-Linearity: $<0.01\%$
- » Gain drift: $< 0.001\% \text{ FS}/^\circ\text{C}$
- » Display: 128×64 -pixel graphic LCD
- » A/D Converter: 24 bits
- » Internal Resolution: $> 16.000.000$ points
- » Transducer input voltage: 5 Vdc (max. 230 mA)
- » Frequency signal acquisition: $12.5 \div 300$ Hz
- » Visible resolution (in divisions): 999999
- » Divisions value (adjustable): x1, x2, x5, x10, x20, x50
- » Decimal figures range: $0 \div 4$
- » Temperature range: $-10 \div +50^\circ\text{C}$ (humidity max)



UWT 6008
weight transmitter

- 85% no condensation)
- » Storage temperature: $-20 \div +70^{\circ}\text{C}$
- » Filter: $5 \div 250 \text{ Hz}$
- » Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each
- » Logic input: 2 opto-isolated at 12/24 Vdc PNP (external power supply)
- » Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU
- » Analog output Non-Linearity: $< 0,02\%$
- » Temperature drift analog output: $0,001\% \text{ FS}/^{\circ}\text{C}$
- » Power supply: 12-24 Vdc $\pm 15\%$ - Power consumption 4 W
- » Microcontroller: ARM Cortex M0+ at 32 bits,

- 256KB Flash reprogrammable on-board from USB
- » Data storage: 64 Kbytes expandable up to 1024 Kbytes
- » Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology
- » Number of load cells: $1 \div 8$
- » Dimensions: 100 x 75 x 110 mm (L x H x P)

Models

- » ANALOG
- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET IP
- » ETHERCAT
- » CANOPEN
- » ANALOG + PROFINET
- » ANALOG + PROFIBUS DP
- » ANALOG + ETHERNET
- » ANALOG + ETHERNET IP
- » ANALOG + ETHERCAT
- » ANALOG + CANOPEN



DAT 700

weight transmitter



Inexpensive and powerful

The DAT 700 weight transmitter rewrites the concept of high performance at a small price. This weight transmitter is practical, compact, and configurable via panel keys or the Optimization software, which can ensure configuration upload and download, as well as real-time filter viewing. The DAT 700 weight transmitter is available in serial and/or analog versions, or as a bipolar version. Every fieldbuses available. The load cells that can be connected to this transmitter are analog and/or amplified in voltage and current.

Tech Details

- » Power supply: 10-30VDC protected against reverse polarity. Protection with resettable fuse
- » Insulation: Class II
- » Operating temperature: $-10^{\circ}\text{C} \pm +40^{\circ}\text{C}$ (max. non-condensing humidity 85%)
- » Storage temperature: $-20^{\circ}\text{C} \pm +60^{\circ}\text{C}$
- » Display: numerical 6-digit red 7-segment led (h 14 mm)
- » Dimensions: 96 mm x 48 mm x 100 mm (w x h x d) (terminal blocks included)
- » Material: self-extinguishing PPO (UL 94 V0)
- » Electrical connection: removable screw 5.08 mm pitch terminal blocks
- » Cell input: max 8 of 350 ohms in parallel
- » Operating voltage: 5Vdc (cell input), $\pm 10\text{ V} / \pm 5\text{ V}$ (analog voltage output), $0 \pm 20\text{ mA} / 4 \pm 20\text{ mA}$ (current analog output)



DAT 700
weight transmitter

Models

- » Output linearity: < 0.01% of full scale (cell input), 0.03% of full scale (current analog & analog voltage output)
- » Temperature drift (Input): < 0.001% of full scale / °C (cell input), 0.002% of full scale / °C (current analog & analog voltage output)
- » Internal Resolution: 24 bits (cell input), 16 bits (both current analog and analog voltage output)
- » Measuring range: from -7.6 mV/V to +7.6 mV/V
- » Filter: selectable 0.1 Hz - 1000 Hz
- » Decimal figures range: 0 to 4 decimal digits
- » Logic output: 2 photo relay outputs (24 VDC/Vac one NO contact) Relay contact rating 100 mA
- » Logic input: No. 2 opto-isolated
- » Serial port: Rs232 half duplex, Rs485 half-duplex, USB Device for instrument programming and setting
- » Baud rate: Up to 115 kb/s (default 9600 b/s)
- » Calibration: Digital from buttons (both current and analog voltage output)
- » Impedance: minimum 10K Ohm (current analog output), maximum 300 Ohm (analog voltage output)
- » Microcontroller: 32-bit ARM Cortex M0+, 256KB Flash reprogrammable on-board by USB
- » Data storage: 32 Kbytes + optional Alibi memory (1MByte)
- » Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC, EN61010-1 for Electrical Safety
- » ANALOG
- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET IP
- » ETHERCAT
- » CANOPEN
- » ANALOG + PROFINET
- » ANALOG + PROFIBUS DP
- » ANALOG + ETHERNET
- » ANALOG + ETHERNET IP
- » ANALOG + ETHERCAT
- » ANALOG + CANOPEN

MCT 1302

weight indicator

technical info

certifications



OIML

One product, many solutions



The MCT 1302 touchscreen weight indicator excels in static weighing, loading/unloading, and multi-component dosing. Easy to install and operate, it offers unparalleled customization. Boasting a multilingual menu, touchscreen keyboard, and removable terminal blocks, it's designed for efficiency. With expandable memory up to 1024 Kbytes and simultaneous Fieldbus/analog output, it tackles complex tasks effortlessly. Boost productivity further with free Optimization software. This Pavone Sistemi creation simplifies calibration and monitoring, ensuring optimal performance and maximizing your return on investment.

Tech Details

- » Legal for Trade: certification available on request
- » Measuring range: $-3.9 \div +3.9$ mV/V
- » Input sensitivity: $0.02 \mu\text{V}/\text{count}$
- » Full scale non-Linearity: $<0.01\%$ full scale
- » Gain drift: $<0.001\%$ FS/ $^{\circ}\text{C}$
- » Display: graphic LCD (240x128 pixel)
- » A/D Converter: 24 bit; internal resolution up to 16.000.000
- » Transducer input voltage: 5 Vdc (max 8 cells -350 Ohm)
- » Frequency signal acquisition: $12 \div 1000$ Hz
- » Visible resolution (in divisions): 999999
- » Divisions value (adjustable): x1, x2, x5, x10, x20, x50; max 4 decimals



MCT 1302
weight indicator

- » Temperature range: $-10 \div +50^{\circ}\text{C}$ (humidity max 85% no condensation)
- » Storage temperature: $-20 \div +70^{\circ}\text{C}$
- » Filter: $0.1 \div 250 \text{ Hz}$
- » Logic output: 6 opto-isolated; max 24 Vdc/100mA each
- » Logic input: 6 optically isolated 24 Vdc PNP (external power supply)
- » Additional I/O: up to 4 external modules with 4 in/8-out each (16 in/32 out, total) by independent RS485
- » Serial port: 1 USB device + 1 RS232C + 1 RS485/Fieldbus
- » Power supply: $18 \div 30 \text{ Vdc}$ - Power consumption 5 W
- » Microcontroller: ARM Cortex M0 + 32 bit 256KB Flash

- » reprogrammable onboard from USB
- » Data storage: 64 Kbytes expandable up to 1024 Kbytes
- » Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology
- » Drilling template: 138 x 82 mm (L x H)
- » Dimensions: 150x95x26mm (LxWxH) including terminal blocks; 150x95x56mm (WxHxD) with fieldbus options
- » Fieldbus: Ethernet 10/100 con protocolli TCP, MODUBUS/TCP, UDP, IP, ICMP, ARP; Profinet; Ethernet/IP; Ethercat

Models

- » ANALOG
- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET IP
- » ETHERCAT
- » CANOPEN
- » ANALOG + PROFINET
- » ANALOG + PROFIBUS DP
- » ANALOG + ETHERNET
- » ANALOG + ETHERNET IP
- » ANALOG + ETHERCAT
- » ANALOG + CANOPEN
- » BATCH

MC 315 ATEX

weight transmitter



Pavone Sistemi in zone 1.21

The ATEX MC 315 weight indicator, designed and manufactured by Pavone Sistemi in accordance with Directive 2014/34/EU and in compliance with EN 60079-0:2018, EN 60079-11:2012, EN 60079-26:2015, is an ATEX certified weighing instrument suitable for use in environments with potentially explosive atmospheres, particularly in ATEX zones 1, 21 and zones 2, 22 (1 and 2 for gases, 21 and 22 for dust). The low energy consumption of the ATEX MC 315 weight indicator is not sufficient to ignite explosions, neither by electrical sparks nor by excessive temperatures (class T4), making the use of the ATEX MC 315 weight indicator safe in areas with explosion risk. The fiber optic connection of the ATEX MC 315 weight indicator allows the necessary information to be brought to the safe area without Zener barriers, to obtain the analog

technical info



certifications

ATEX

voltage or current output via the S318 interface. As an alternative to the RS232 and RS485 ports. A version with a rechargeable battery box (charger for recharging in a safe area) is available upon request. Key features:

- » ATEX certification for zones 1, 21, 2, 22
- » Low energy consumption (class T4)
- » Fiber optic connection
- » Compatibility with various Fieldbuses
- » Optional rechargeable battery

Pavone Sistemi guarantees safety, reliability and precision in your applications in explosive atmospheres.



MC 315 ATEX
weight transmitter

Tech Details

- » Measuring range: $-3,9 \div +3,9$ mV/V
- » Input sensitivity: $0.02 \mu\text{V}/\text{count}$
- » Full scale non-Linearity: $<0.01\%$ of full scale
- » Gain drift: $<0.002\%$ of full scale/ $^{\circ}\text{C}$
- » A/D Converter: 24 bit
- » Visible resolution (in divisions): up to 999.999 divisions on payload
- » Decimal figures range: $0 \div 4$
- » Temperature range: $-10 \div +40$ $^{\circ}\text{C}$
- » Storage temperature: $-20 \div +50$ $^{\circ}\text{C}$
- » Filter: $0.25 \div 50$ Hz
- » Logic output: 6 photorelay, max 24 Vcc/100mA each
- » Logic input: 2 optoisolated $12 \div 24$ Vcc PNP (external power supply)
- » Serial port: 2 x RS485 with ASCII or Modbus RTU protocols; maximum cable length = 200 meters
- » Fiber optic ports: 1 x FULL DUPLEX with data transmission to S318 card in safe area; Duplex type cable with Plastic Optical Fiber of 1 mm (ex: COP-1002-HD) and maximum length of 50 meters
- » Power supply: $100 \div 250$ Vac from AL-AX certified power supply or from 6V battery via AL-BX barrier (in safe area)
- » Regulatory compliance: for EMC = EN61000-6-2, EN61000-6-3; for Electrical Safety = EN61010-1; for ATEX = EN60079-0, EN60079-11, EN60079-26
- » Fieldbus: Profibus, Profinet, Ethernet IP, Ethercat
- » Transducer input voltage: 3.3 V (max 4 load cells 350 Ohm)

Models

- » ANALOG
- » PROFINET
- » PROFIBUS DP
- » ETHERNET
- » ETHERNET IP
- » ETHERCAT

TESTER 1008

accessories

technical info



The 1 minute problem solver

The Tester 1008, unique in its kind, is used to check the distribution of the load among the load cells, thus avoiding overloads or unbalances that may be harmful both for the load cells and for the precision of the measurement. Our diagnostic calibrator Tester 1008 allows you to verify the exact calibration of the four-cell systems in a short time with a simple and practical connection to the junction box, thus guaranteeing a huge time saving. In addition to that, Tester 1008 also allows you to perform the instrumental calibration of weight indicators and weight transmitters. The Tester 1008 is equipped with a monochrome touch screen display, touch keyboard, power button and

ABS handheld case. The Tester 1008 can be used with cells with power supply voltage from 3 Vdc to 15 Vdc, both positive and positive and negative, with input impedance > 100 kohm.

- » Immediate control of the correct mechanical installation.
- » Rapid diagnosis of faults: the needed time is very short.
- » Tester 1008 generates signals in mV/V in order to calibrate the weighing instrument.
- » The product is provided with a set of cables for a fast connection.
- » Automatic reading of the load cell input resistance.

Innovative Software

Confort zones and stability. Simplicity in the operation of weighing systems that are critical and strategic within a production process. If your batching system gets a recipe wrong, you throw away all your raw materials. If repeatability is lost in a weighing process, resources are broken. We know this very well. That's why we offer the best possible hardware, standard or custom, made from the best Italian steel, and the best software: Optimization and Recipes.

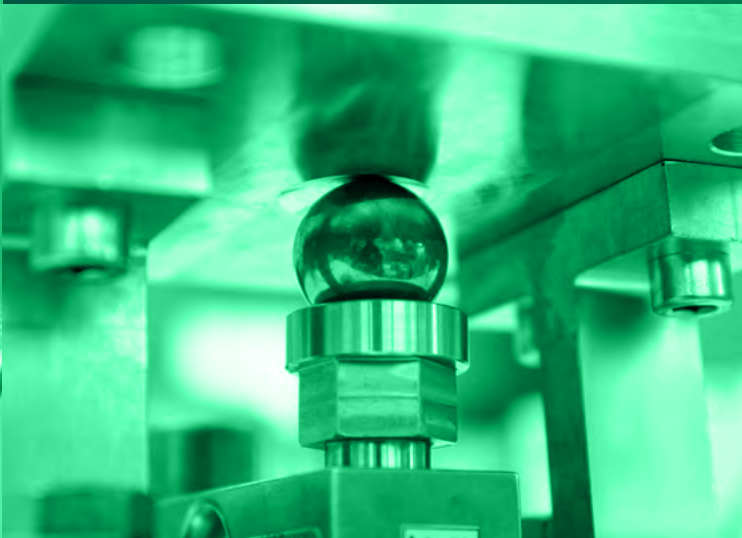
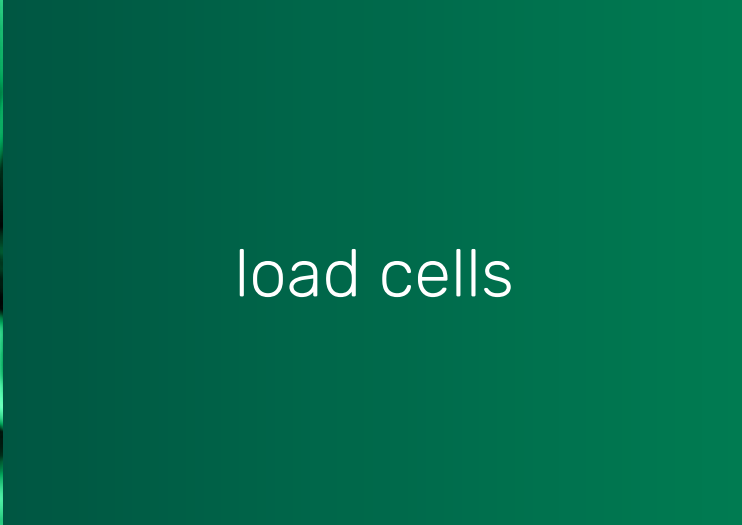
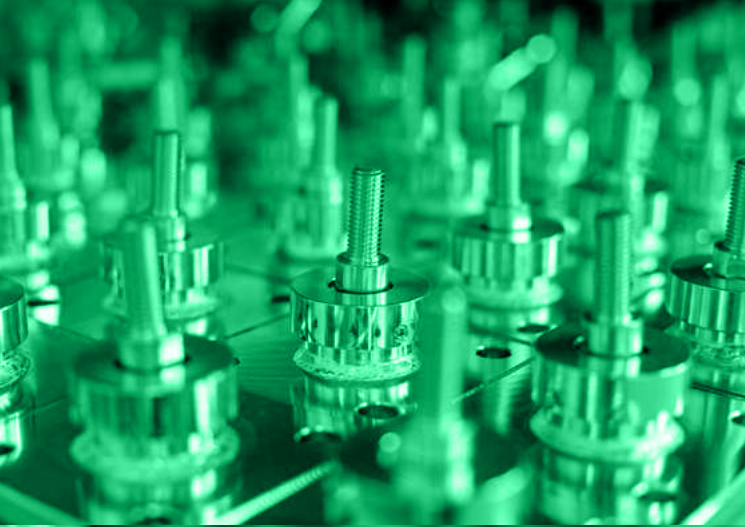
Thanks to Optimization, it has never been easier to calibrate, backup or manage a system. It is a software that can be used on all our instruments, because we know how important the family feeling is.

If a technician knows how to run one system, he or she knows how to run them all: in fact, all of our instruments use the Optimization software, which we include for free with every shipment.

The same goes for the Recipes software. Creating a recipe has never been easier, all on a PC and then loaded onto one of our MCT 1302s or DAT 1400s.

At Pavone Sistemi we know that the key to a successful weighing system lies not only in the hardware but also in the software.





Custom Solutions

With a long tradition of excellence in weighing technology, we are recognized for our ability to provide reliable and precise solutions. Pavone Sistemi manufactures its own standard load cells and custom load cells designed to withstand extreme conditions, including high temperatures, and adapt to specific dimensions based on customer designs, embracing any customer request. This approach allows us to meet a wide range of industrial needs, always ensuring maximum precision and reliability.

Each year, Pavone Sistemi sells over 70.000 load cells of all types, which are installed in the most diverse weighing systems around the world. These load cells are used in sectors such as steel, chemical, food, automotive, and many others, demonstrating their versatility and robustness. Our experience and technical expertise enable us to support customers with customized solutions that improve operational efficiency and measurement accuracy. Thanks to rigorous quality control and constant innovations, our load cells are the beating heart of weighing systems worldwide, guaranteeing reliable and long-lasting performance.



dynamics

Belt and LIW

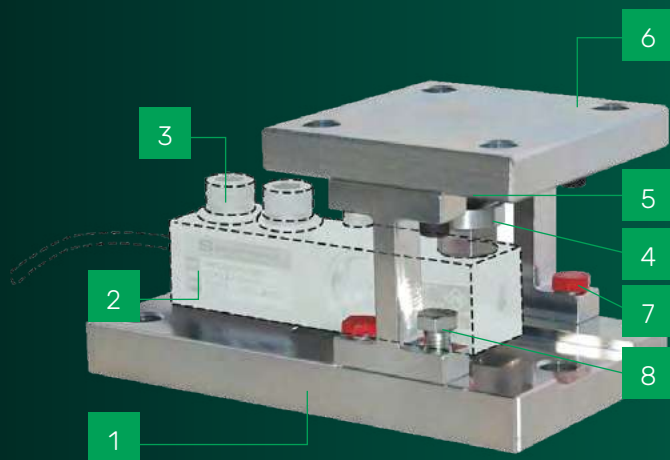
We provide not only complete weighing systems but also assist clients in integrating weighing into their existing systems, ensuring optimal performance and unparalleled accuracy. Our expertise extends to the design and production of specific load cells developed to meet any requirement, no matter how complex, ensuring that every need is fully satisfied. We support our dynamic weighing solutions with advanced instruments for intuitive and precise management. Our instrument lines include system specifically



designed for belt weighing, ideal for industrial applications that require continuous and accurate weight monitoring during material transport. Dedicated to loss-in-weight for applications where precise measurement of weight loss is critical, such as in dosing and mixing processes. We also offer advanced solutions for other critical applications: batching, for accurate and repeatable dosing of various components, enhancing efficiency and product quality and big bag weighing, for ensuring

precision in filling large bags, making it indispensable for industries such as chemical and food. With our advanced technology, customers can rely on weighing solutions that enhance efficiency, reduce errors, and offer complete control over all stages of the production process. Pavone Sistemi is committed to providing weighing solutions that not only meet but exceed customer expectations, combining innovation, quality, and top-tier technical support. We are ready to tackle any challenge with customized solutions that ensure performances in every operational condition.

MKX accessories



Legend

1. Base Plate with 3 through holes for ground fixing
2. Shearbeam load cell
3. Load cell fixing bolts
4. Ball-support accessory
5. Load ball in tempered steel
6. Upper Plate with 4 through holes
7. Locking bolts for transportation
8. Anti-tilt bolts. DO NOT remove

We provide fully customizable and innovative integrated systems

Introducing the MKX, a revolutionary mounting accessory engineered by Pavone Sistemi to optimize industrial weighing systems. This innovative mechanical system simplifies load cell installation for both radial and tangential configurations. Designed to seamlessly integrate with your weighing structure, the MKX accommodates expansion and contraction without compromising accuracy. Its unique design eliminates the need for jacks during lifting, streamlining the installation process. Moreover, the MKX serves as a precise template for efficient assembly.

Experience the MKX difference and elevate your weighing operations to new heights.

What sets the MKX apart is its unparalleled ease of use and precision:

- » Height Adjustability: Achieve perfect flatness with effortless height adjustments.
- » Rigid Base: Ensure correct installation and perfect perpendicularity with our fixed upper and lower bases.
- » Anti-Tilt Function: Maintain optimal load distribution and prevent system instability.
- » Lateral Force Absorption: Our innovative ball cup technology effectively absorbs lateral forces.
- » Choose from durable alloy steel or corrosion-resistant stainless steel (AISI 304) to match your specific requirements. The MKX is more than just a mounting accessory; it's a catalyst for improved weighing accuracy, efficiency, and longevity.

Load Cells



SBR



BBR



PS24



DDR

Accessories



MKX



MH



MKC



DE

Weight Transmitters



DAT 1400



DAT 11



DAT 700



UWT 6008



MCT 1302



EL5



projects

Installations

1) Belt weighing application using weighted rollers and idlers. Mining applications, excellent performance achieved with extremely accurate weighing and an error of less than 1%.

2) Extremely tough application, carried out in a complex industrial environment: a steel mill. With ambient temperatures reaching minus 40 degrees Celsius in winter and plus 38 degrees Celsius in summer. Extremely high cell capacity and throughput, more than 400 tons, all custom designed and manufactured.

3-4) Both photos 3 and 4 show applications made on very high capacity silos, more than a thousand tons. The complexity of the project also included the high seismic risk of the area and often complicated environmental conditions due to high winds. The entire project was customized.

5) For more than 30 years, we have been providing weighing systems for food processing companies. Special steels, advanced electronic solutions to ensure the best possible performance. All achieved by working closely with the customer's engineers and our in-house technical office.

6) Perhaps one of the most complex anti-seismic applications ever made, partly due to the height of the silo. Anti-lift-off systems have been specially designed by our in-house engineering department to ensure a bespoke solution, but with standard products to keep costs down.



fast
technology



weighs up to
1000 T



high temperature
up to **200° C**



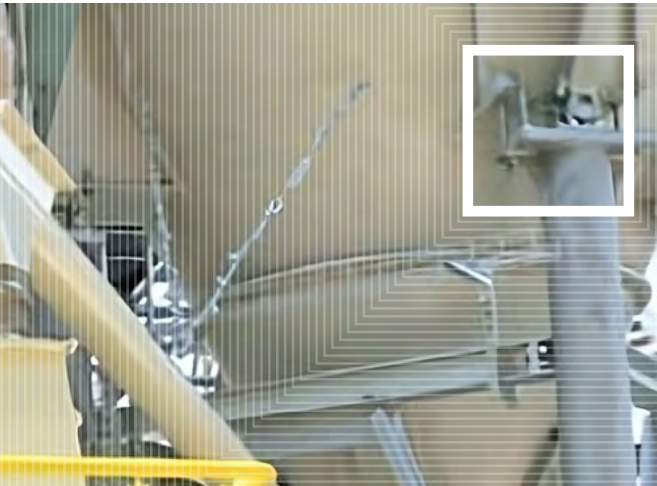
1. belt weighing applications



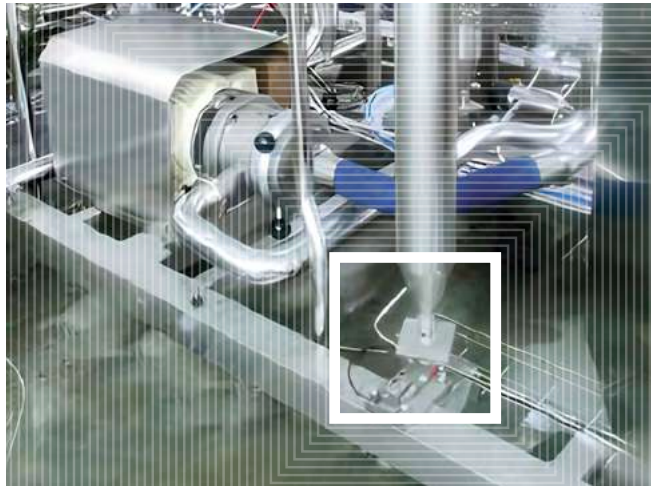
2. extremely tough applications



3. high capacity silos



4. high capacity silos



5. special steels advanced electronic solutions



6. anti-seismic applications



made in Italy
since 1963



worldwide
assistance



innovation
& quality



custom
solutions



precision &
performance



extreme
solutions

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