



21 October 2020

WEBINAR



#LAUMASKNOWHOW

LAUMAS[®]
Innovation in Weighing

LAUMAS: WHO WE ARE



HISTORY – KEY DATES

1984

Year of foundation. Luciano Consonni started the business in a small workshop in Parma and founded LAUMAS, combining the names of his children, Laura and Massimo, the current owners together with their father at the head of the company.

2002

After several relocations, LAUMAS moves to its current location in Montechiarugolo (PR), which covers an area of about 2000 m² and has an external warehouse measuring 1000 m².

2007

LAUMAS begins investments that will lead to the creation of the new department of Research and Development, equipped with an advanced laboratory.

2012

LAUMAS completely renewed its range of products, putting on the market new lines of very innovative and completely “MADE IN ITALY” Weighing Indicators and Transmitters.

2018

LAUMAS expands its headquarters and opens new offices, a Webinar room, conference and meeting rooms, a Metrological Laboratory and a brand new Warehouse of 1000 m².

NEW HEADQUARTERS



Extension
2000 m²

Existing
building
2000 m²

Meeting rooms
Relax areas

New Warehouse
New Offices

**OCTOBER
2018**

Green Energy
145 kW

Metrological
Laboratory

Total built area
4000 m²

Part Numbers
>2000

METROLOGIC LABORATORY

- **Calibration service** for load cells
- **Certificate** according to **UNI EN 17025**: ISO 376 and ASTM E 74 or Calibration Report (ISO 9001)
- **Accreditation** process **by Accredia** coming soon



WAREHOUSE

- €4 200 000,00 value
- 600 000 units (finished and semi-finished products)
- **2000 m²** area



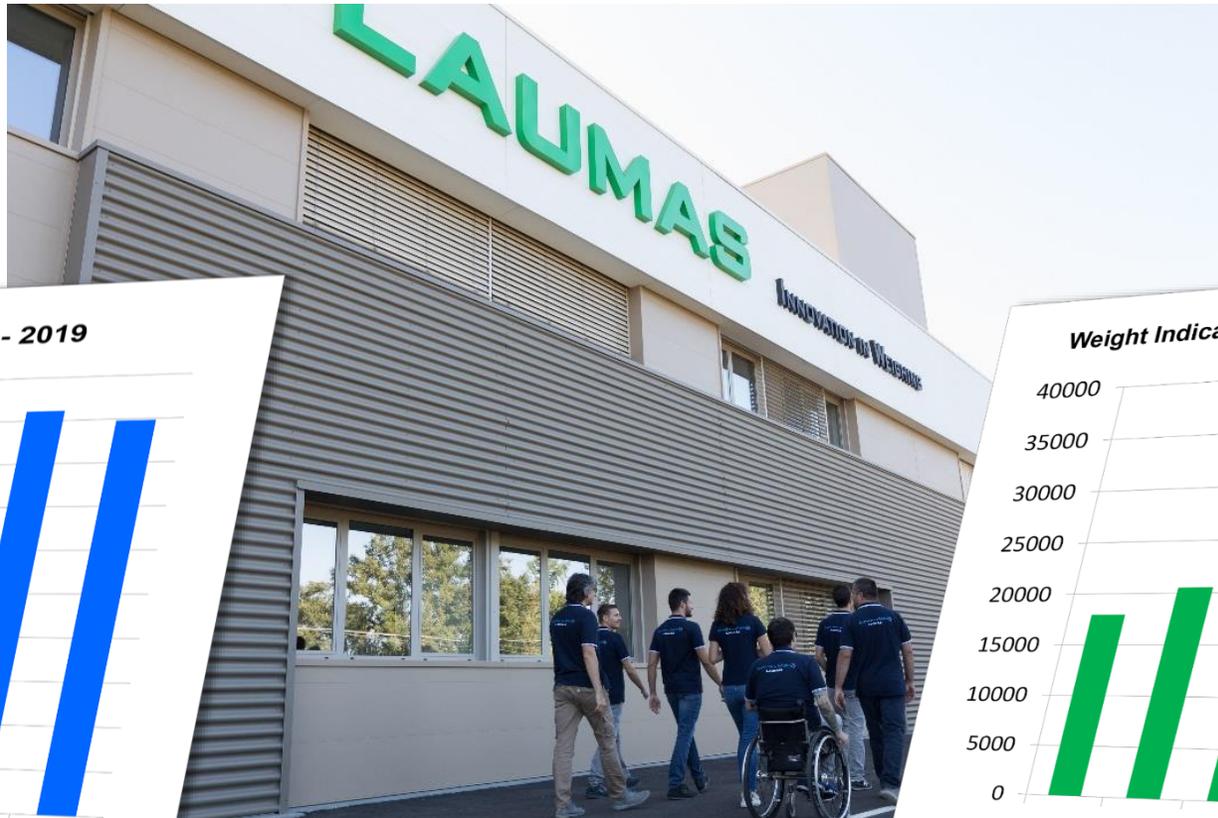
SALES

2019

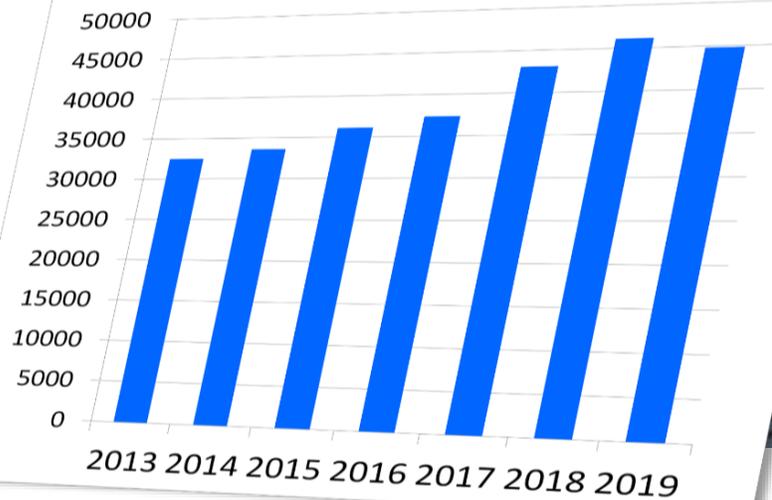
Turnover: €12 650 000,00

Load cells:
44 816 pcs

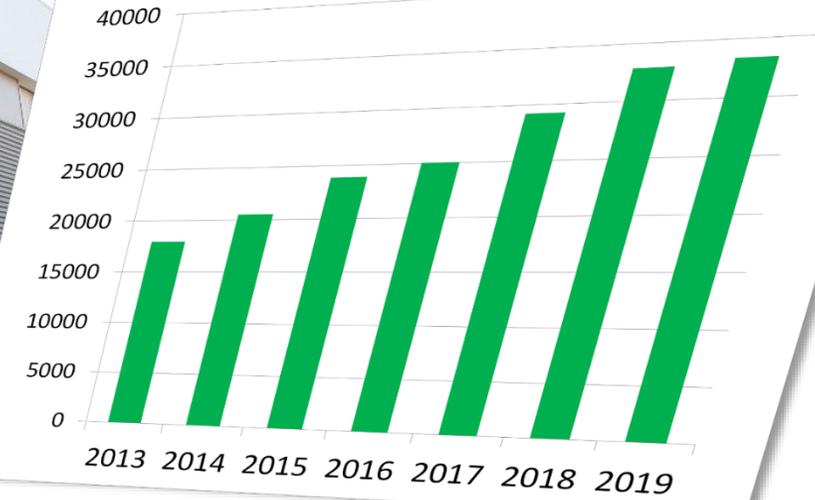
Electronic instruments:
33 371 pcs



Load Cells sold in 2013 - 2019

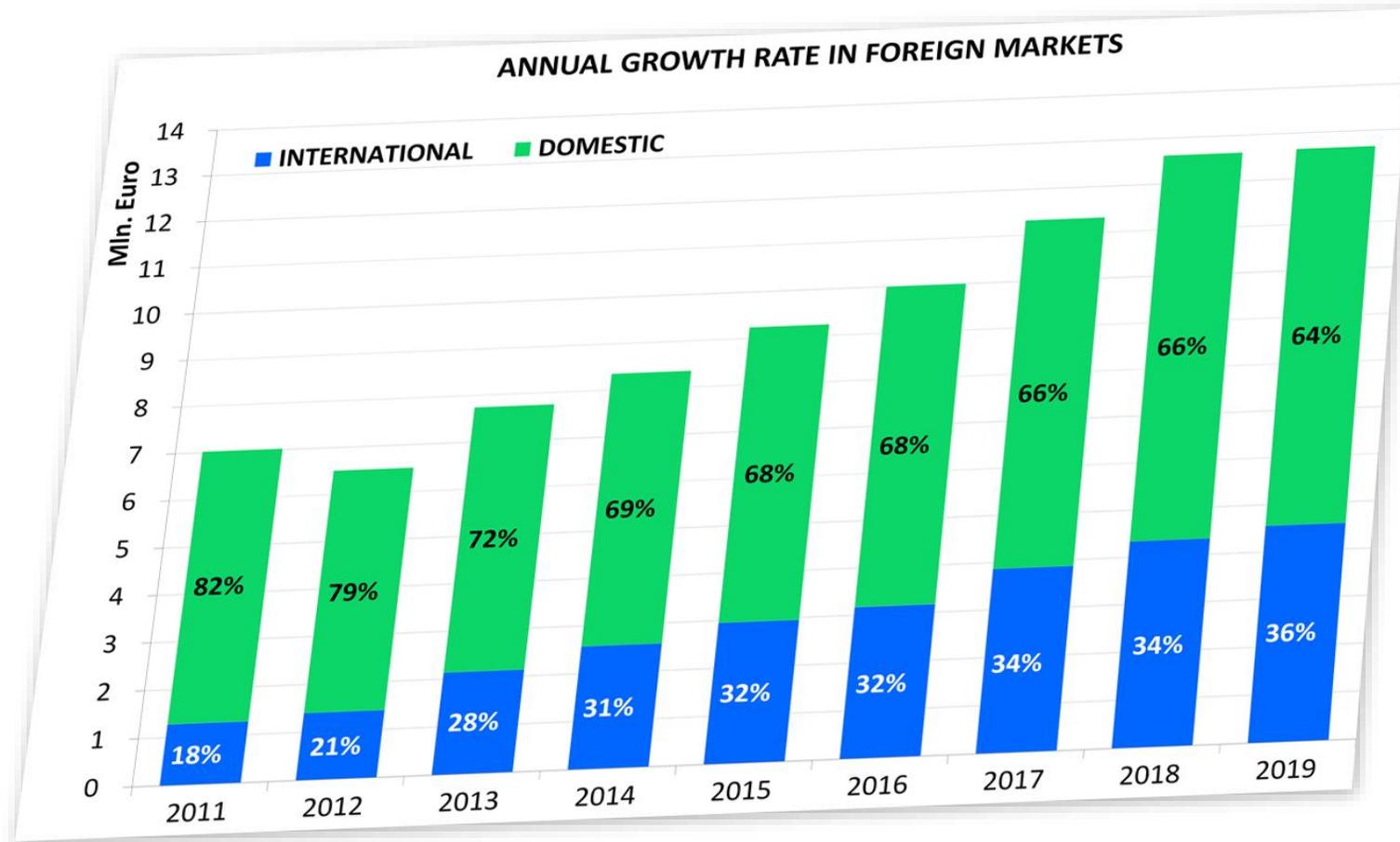


Weight Indicators and Transmitters sold in 2013 - 2019



INTERNATIONAL COMPANY

The internationalization process, in constant expansion, has led to a rise in the share of EXPORTS from 12% in 2008 to 36% in 2019.



OUR STRENGTHS

- Constant Research & Development focused on the continuous innovation of products
- Reliable products with excellent quality-price ratio:
 - 100% products tested before shipment
 - Calibration service
- Consulting and pre-sales assistance
- Goods ready in stock: Shipment within 5 days for standard products
- Quick and efficient after-sales technical support and reparation service



LAUMAS “INNOVATION IN WEIGHING”



RESEARCH & DEVELOPMENT: ELECTRONICS LABORATORY

**Electromagnetic
Compatibility**

**Electrical
Safety**

**Immunity
Tests**

**Emission
Tests**



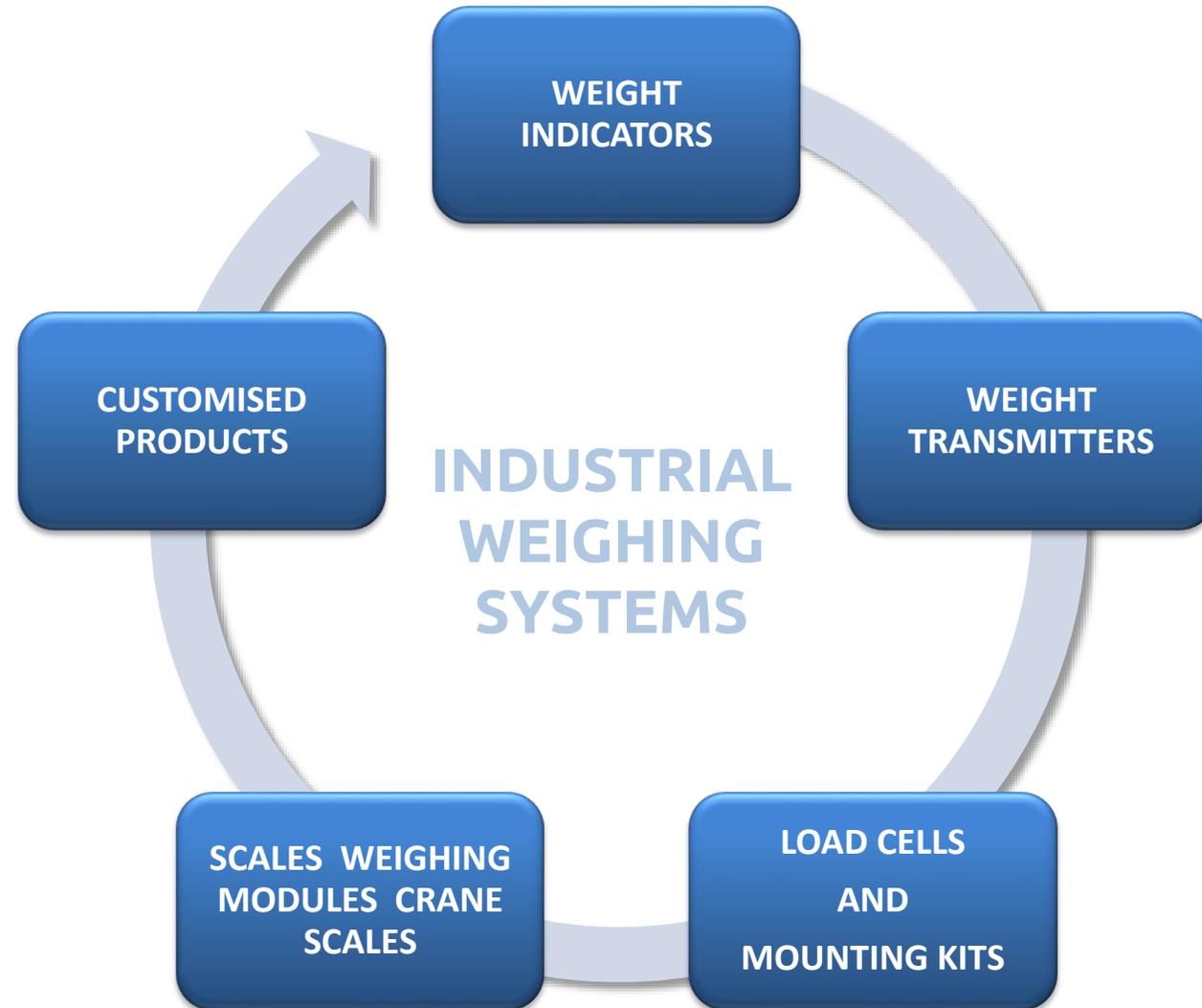
RESEARCH & DEVELOPMENT: METROLOGICAL LABORATORY

**Testing machines up to 10ton
(with climatic chamber)**

Testing machines up to 50ton



PRODUCTS - CATEGORIES



WEIGHT INDICATORS: W-SERIES



MULTI PROGRAM SOFTWARE

- Simple weighing
- Filling
- Mixing
- Unloading
- Multi-Head systems
- Dynamic weighing
- Load limiters
- Monitoring
- Testing machines
- Data saving
- and more...*

MOUNTING SOLUTIONS

- Front panel
- Wall
- Desk
- Column
- Hazardous areas

TRANSMISSION SPEED

- Up to 300 Hz

CONNECTIVITY

- USB
- Ethernet
- Wi-Fi transmission
- Fieldbus for PC/PLC



WEIGHT INDICATORS: W100 - WLIGHT



WLIGHT



W100

- Simple weighing functions
- Front panel mounting (W100) and other mountings (desk, wall, column) for WLIGHT
- Serial ports (RS485 and/or RS232), relay outputs (W100), analog output (W100)



Only W100



WEIGHT INDICATORS: BATCHING AND WEIGHBRIDGE PROGRAMS



W200



WDOS



WINOX-L



WDESK-BL



WTAB-G



WINOX-BGE

- **Batching programs** available (simple weighing, load, unload, multi-product, weighbridge)
- Different mounting solutions and displays available
- Serial ports (RS485, RS232), relay outputs, analog output
- Complete range of **fieldbusses** available



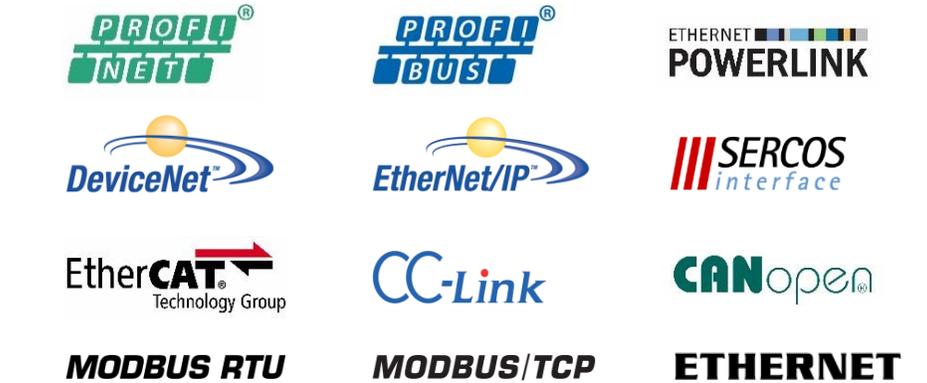
WEIGHT TRANSMITTERS



- Connection and transmission from load cell to device for data processing (indicator, PC, PLC, etc.)
- Display for visualization
- Keypad for calibration
- Fieldbuses for communication to PC/PLC depending on the model and version
- Analog output, relay outputs, RS485, RS232 depending on the model and version
- **Single channel** family: TLB, TLS, TLE, TLU
- **Multichannel** family: TLB4, TLM8, CLM8
- **LCB:** digitizer, IoT, wired or integral to load cell's body

SINGLE-CHANNEL WEIGHT TRANSMITTERS: TLB

- Display and keypad for calibration
- Basic “user friendly” software
- The most used **fieldbusses** (12) for connections to any kind of PLC or industrial PC
- Omega/DIN rail mounting

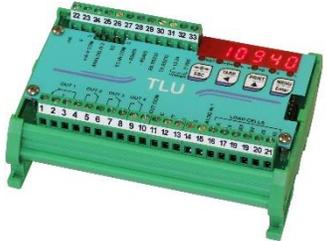


SINGLE-CHANNEL WEIGHT TRANSMITTERS: TL- FAMILY



TLS

- Most popular



TLU

- Load Limiting device



TLE

- Cost effective



- Polycarbonate **protection box** (IP67) for installation on field
- Omega/DIN rail standard mounting
- Easy calibration method (keypad or encoder) and display
- Dedicated inputs for load cells



SINGLE-CHANNEL WEIGHT TRANSMITTERS: LCB

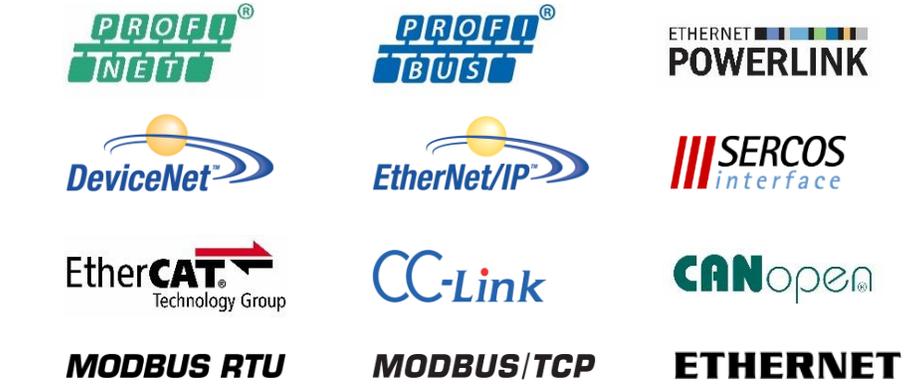


IoT
System

- It **transforms** an analog load cell (mV/V output) into a **digital** one
- It can be connected to any PLC (**14 different fieldbusses** available)
- Ideal for any **IoT** and **Industry 4.0** application
- Possible to be **integrated** to the load cell body
- **IP67 AISI316** stainless steel box
- **LCB Manager** configuration software via micro USB port
- **Base program / Load program**

MULTICHANNEL WEIGHT TRANSMITTERS: TLB4 - TLM8

- **Independent channels** for each load cell
- Load distribution on each channel with backups archive
- Digital equalization
- Diagnostic function
- Analog output, relay outputs, RS485 depending on the model and version



MULTICHANNEL WEIGHT TRANSMITTERS: TLB4 - TLM8

TLB4

- 4 channels
- The most used **fieldbus** for connections to any kind of PLC or industrial PC
- Omega/DIN rail mounting or front panel mounting
- Also **NMI** trade approved

TLM8

- 8 channels
- The most used **fieldbus** for connections to any kind of PLC or industrial PC
- Omega/DIN rail mounting or polycarbonate protection box IP67



MULTICHANNEL WEIGHT TRANSMITTERS: CLM8

INTELLIGENT JUNCTION BOX

- It transfers functions of CLM8 to any W- series weight indicator connected via RS485
- **8 channels**
- **Ethernet TCP/IP**
- Several versions for mounting on Omega/DIN rail or within polycarbonate box, ABS box or stainless steel box.
- Ideal to work within **weighbridges**, but not only. The **INCLINOMETER** function, provided by an external sensor, compensates the variations due to inclinations up to $\pm 10^\circ$, making it ideal for **on board weighing** systems
- Valid for systems approved for **legal trade use**.



ETHERNET
TCP/IP

LOAD CELLS AND MOUNTING KITS



- Wide range of standard load cells suitable for any kind of application in weight and force measurement.
- Capacity: from 0.25 kg up to 1000'000 kg



- For all load cells, LAUMAS can provide appropriate **mounting kits** to achieve the best application.



SINGLE POINT LOAD CELLS

Load cells range:

- Capacities: from 0.25 kg to 2000 kg
- Plate dimensions: from 150x150mm to 1200x1200mm
- IP protection class: from IP65 to IP68 and IP69K

Common use:

- Platform scales
- Roller conveyors
- Small tanks / hoppers
- Filling / Bagging / Packaging machines
- Dynamic weighing



BENDING BEAM / SHEAR BEAM LOAD CELLS



Load cells range:

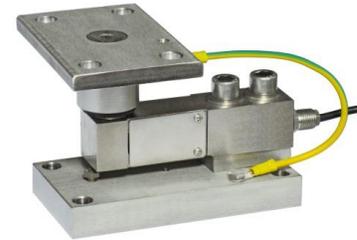
- Capacities: from 5 kg to 10 000 kg
- IP protection class: from IP67 to IP68 and IP69K

Common use: several applications, each type best fits with a specific mounting kit.

- Silos
- Hoppers
- Mixers
- Roller conveyors
- Big bag loaders or discharger

MOUNTING KITS

TF Compression joint compensates plates misalignments



PV

- Joint foot compensates plates misalignments
- Anti-tilt system
- Adjustable height
- Can be installed upside down



PS

- Spherical joint compensates plates misalignments
- Anti-tilt system
- Resistant to mechanical hurts



COMPRESSION LOAD CELLS



Load cells range :

- Capacities: from 200 kg to 1 000 000 kg
- IP protection class:
from IP67 to IP68 and IP69K

Common use: several applications, each type best fits with a specific mounting kit.

- Tanks
- Hoppers
- Mixers
- Silos
- Roller conveyors
- Big bag loaders and dischargers

Several basis are also available for those who want to realize their own mounting kit.

MOUNTING KITS

- V** • Anti-tilt and anti-lateral forces system
- Mechanical installation without load cell
- No need to lift the structure to replace load cell



- PV** • Joint foot compensates plates misalignments
- Anti-tilt system
- Adjustable height
- Can be installed upside down



- PS** • Spherical joint compensates plates misalignments
- Anti-tilt system
- Resistant to mechanical hurts



TENSION/COMPRESSION AND TENSION LOAD CELLS

TENSION/COMPRESSION

Load cells range:

- Capacities: from 50 kg to 200 000 kg
- IP protection class: from IP65 to IP68

Common use:

- Testing machines
- Force measurements
- Machine presses



TENSION

Load cells range:

- Capacities: from 15 kg to 250'000 kg
- IP protection class: from IP65 to IP68 and IP69K

Common use:

- Load limiting systems
- Crane scales
- Conveyor belts
- Hoppers
- Mixers
- Big bag loaders and dischargers
- Testing machines
- Mechanical scales revamping



OTHERS LOAD CELLS AND MOUNTING KITS

COLUMN COMPRESSION

Load cells range:

- Capacities: from 15 000 kg to 60 000 kg
- IP protection class: IP68

Common use: weighbridges / silos



PIN

Load cells range:

- Capacities: from 5000 kg to 20 000 kg
- IP protection class: IP67

Common use: load limiting / cranes

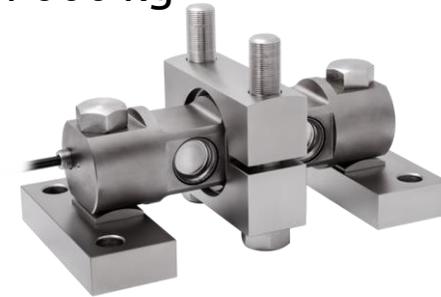


DOUBLE SHEAR BEAM

Load cells range:

- Capacities: from 13'000 kg to 34'000 kg
- IP protection class: IP68

Common use: on-board / weighbridges / silos

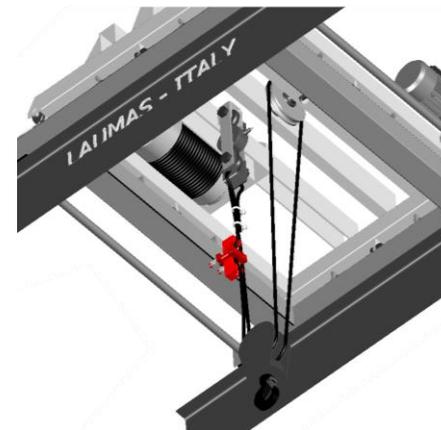


WIRE ROPE MEASURING

Load cells range:

- Capacity: up to 40 ton
- IP protection class: IP67

Common use: load limiting



CUSTOMIZED LOAD CELLS



- **Capacity:** from 0.1 kg to 1 000 000 kg
- **IP** protection class: up to IP68 and IP69K
- High/low **temperature** compensated
- With integrated **analog output** 0-10V / 4-20mA
- With two output cables for **dual safety systems**
- **Bi/tri-axial**
- With any **shape** or mechanical **dimensions** according to customers needs
- **ATEX** and **IECEX** available

SCALES – PLATFORMS - WEIGHING MODULES

LAUMAS also supplies:

- Approved **weighing platforms**
- Industrial platforms with single cell or four load cells
- Solutions suitable for all types of **industrial scales** and industrial weighing systems
- **Pallet-weighing**
- **Weighing bars**
- Piece **counting scales**
- Price computing **retail scales**
- **Pocket mini scales**
- Ultralight **crane scales**, by bridge crane, portable
- **Pallet truck scales**



LAUMAS' latest version of catalog
IDEA SCALES is now available!



PRODUCT & SYSTEM CERTIFICATIONS



UNI EN ISO 9001 - UNI EN ISO 14001



NTEP Certifications for commercial weighing and measuring equipment in the U.S. for legal for trade use



ATEX - EC-Type examination
Directive 2014/34/EU – ATEX; zone 0-1-2 gas ; zone 20-21-22 dust



IECEX CoC Certificate
Standards: IEC 60079-0, 60079-11, 60079-31, 60079-15; zone 0-1-2 gas ; zone 20-21-22 dust.



Eurasian Customs Union standard
The EAC mark replaces the GOST



EC-TYPE APPROVAL
(NAWI R76 - MID/AWI R51-R61)



OIML R60 - R61 - R51 - R76



“UL RECOGNIZED COMPONENT”
CERTIFICATION. The U.S. and Canadian standards



EAC Ex for use in potentially explosive atmosphere. TR CU 012 Standards; zone 0-1-2 gas ; zone 20-21-22 dust.



PAC - Pattern Approval Certificate
Russian Federation for weighing instruments for legal for trade use.



NMI Certifications for Australia



NMI Certifications for New Zealand

CONSORTIA & ASSOCIATIONS



PI
PROFIBUS & PROFINET
International



COMELAB
"Builders - Metrology -
Laboratories« Committee



EPSCG
Ethernet POWERLINK
Standardization Group



ETG
EtherCAT Technology
Group



SERCOS International



CLPA
CC-Link Partner
Association



NCWM
National Conference on
Weights and Measures



GIA
Artisan Companies Group
- Industrial & Tertiary



CANopen
CAN in Automation (CiA)

SECTORS OF APPLICATION

SOLUTIONS FOR INDUSTRIAL APPLICATIONS



Industrial Automation



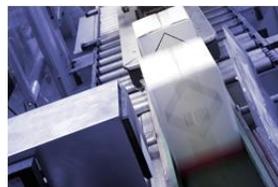
Chemical and Pharmaceutical



Food



Transport and Handling



Packaging



Lifting



Atex



Automotive



Livestock



Construction



Textile and Paper-making



Environment

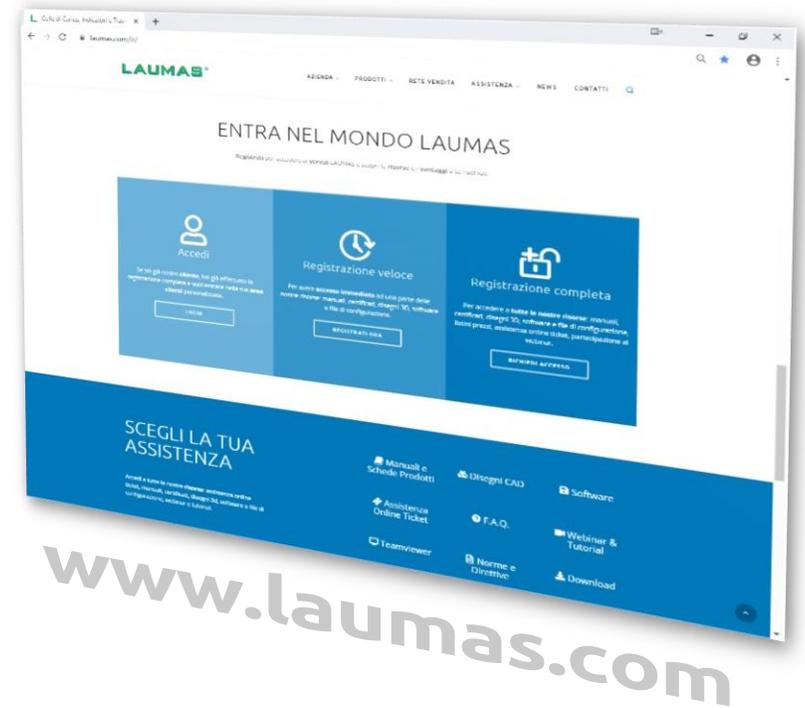
WEBSITE & VIDEOS

FREE WEB SERVICES

- 500 Products Videos
- Tutorials
- Webinar Archive
- Updated Webinar Calendar
- Training Videos



#LAUMASKNOWHOW



CUSTOMER AREA

- Download
- Technical Support via Ticket
- Newsletter

SOCIAL MEDIA

SOCIAL NETWORKS periodically updated



**“Weighing Systems 4.0 > Load cells - Weight Indicators -
Weight Transmitters - Industrial Scales ”**

LinkedIn group. Largest weighing industry technical forum Worldwide



INTERNATIONAL REFERENCES

THEY TRUST US



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SALES NETWORK

DEALERS AND ASSISTANCE CENTERS

OVER 100 COUNTRIES

Africa	Americas	Asia	Europe	Russia	Oceania		
Algeria Cameroon Côte d'Ivoire Egypt Libya Morocco Nigeria Senegal South Africa Tunisia Zambia	Argentina Venezuela Bolivia Brazil Canada Chile Colombia Ecuador Mexico Nicaragua Peru United States Uruguay	China South Korea Hong Kong India Indonesia Pakistan Sri Lanka Taiwan Thailand Vietnam Saudi Arabia Bahrain Un. Arab Emirates	Jordan Iran Iraq Israel Japan Lebanon Palestine Qatar Turkey Singapore	Albania Belgium Bulgaria Cyprus Croatia Denmark Estonia Finland France Germany Greece Lithuania Luxembourg	Macedonia Poland Portugal UK Romania Serbia Slovenia Spain Sweden Hungary Latvia Norway Ukraine	Russia	Australia New Zeland

LAUMAS USA

LAUMAS
laumas-us.com

READY IN-WAREHOUSE

TECHNICAL SUPPORT

The graphic features the LAUMAS logo and website address at the top. Below it, there are icons for a warehouse with a checkmark, a technical support agent with a headset and tools, and a globe with location pins for the USA and Canada. The text 'READY IN-WAREHOUSE' and 'TECHNICAL SUPPORT' is positioned at the bottom of the graphic.

United States and Canada

Weekly supplied stock ready for delivery in
North America

USA-based technical support, both before and
after-sales

LAUMAS SPORT

WHEELCHAIR BASKETBALL team *Polisportiva Gioco Parma*



ZEBRE RUGBY Club in the Guinness Pro14 Championship



SOCIAL RESPONSIBILITY



**“God Our Father Centre For Needy Children” orphanage
in Timboni, Malindi, Kenya**

www.laumas.com



sales@laumas.it

Send us an e-mail to request
the **participation certificate**
or further information



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and video **Tutorials** for a
comprehensive training

#LAUMASKnowHow



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one that suits you best

Thanks for your attention!