



# CELMI FOR THE OIL&GAS INDUSTRY

Celmi S.r.l ©

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# CELMI – our background

- Celmi s.r.l has been in the field of static and dynamic weighing **since 1981: 40 YEARS SO FAR**
- The number of our clients has grown constantly: at the moment we sell our products to **more than 20 countries all over the world.**

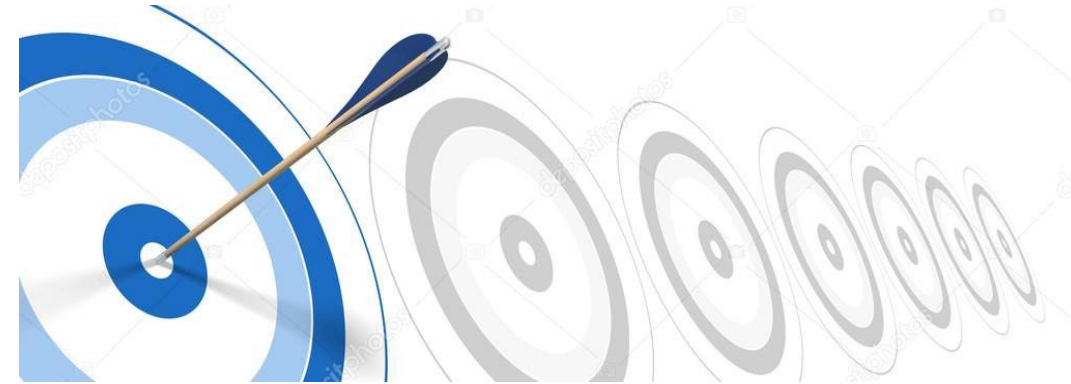


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YOUR SUCCESS



## CELMI – our target

- Our target has always been to realize **high performing instruments with significant technological content**, capable of satisfying the most demanding clients.
- The objective has been reached combining **design techniques** that use all the **latest softwares** with **artisanal production processes**, which are controlled by the **quality system ISO9001**.



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## CELMI – our offer

- All our products can be **fully customized** in order to meet all our clients' requirements. Furthermore all our internal processes are controlled and certified by the **quality system ISO9001** that ensures constant and reliable performances through the years.
- Our offer also includes the load cell with **integrated CANopen technology**, that can interface with all embedded systems equipped with this innovative communication protocol.
- Most of our load cells have **ATEX certification**, so that they can be used in areas at risk of explosion



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# CELMI – our offer for oil&gas industry

We are aware that, in the oil&gas industry, the **requirements** for instrumentation are **very high and demanding**, having to work in explosive environments potentially extremely dangerous.



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# CELMI – our offer for the oil&gas industry

Our specific products are designed in order to cooperate in these fundamental phases of oil&gas plants life:

- **marine cable/pipes layers and cable/pipes tensioning system:** the laying of cables/pipes on the seabed is done using huge ships, which “unroll”/lay them in the depths for kilometers. It is a delicate operation: before positioning them, the seabed is studied to understand how it is structured and define the correct trajectory so that the cable/pipe is not damaged. The load cells we suggest for this kind of application are:
  - **pin: type PR.** from 500 Kg to 100 t. Immersion proof construction. Stainless steel plasma welded construction. ATEX certification.
  - **shear beam: type 315.** 50-500 Kg / 1-2-3-5 t. Waterproof. Stainless steel. ATEX certification
  - **compression: type 142.** 0,5-1-2-5-7,5-10-15-20-30-50-100 t. Side load high resistance. High precision (equivalent to OIML C3). ATEX certification.
  - **cable/rope tension measurer:** Capacity: 5T to 20T; rope: 16/17; IP67 ingress protection or NEMA6 – heavy protection against dust and rain



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# CELMI – our offer for the oil&gas industry

We can also offer, together with our products, this accessory designed specifically for all risk explosive environments like all oil&gas applications:

- **explosion-proof cases:** special cases designed for installation in industrial plants with potentially explosive atmospheres classified as zone 1 and zone 2 for gases and zone 21 and 22 for combustible dusts. They are used to protect different types of electrical/electronic control equipment.

## **CERTIFICATIONS:**

- ATEX - ISSeP10ATEX011
- IECEX - INE 11.0018X
- Ex TR CU - TC RU C-IT.ГБ05.B.00640

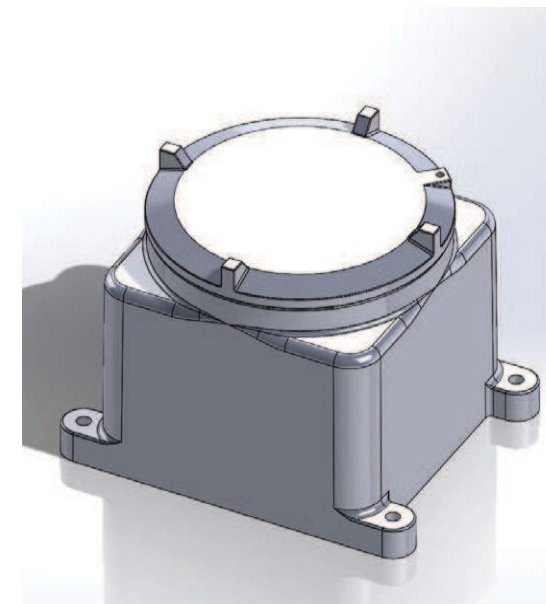
## **MATERIAL:**

- Copper-free aluminum alloy (Cu<0.1%)
- Stainless steel AISI 304 or AISI 316L

**IP PROTECTION CLASS:** IP66 / IP65

## **ENVIRONMENT TEMPERATURE:**

- ATEX -60°C / +65°C
- IECEX -60°C / +65°C



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# CELMI – our offer for the oil&gas industry

Our specific products are designed in order to cooperate in these fundamental phases of oil&gas plants life:

- **land-based extraction and refining plant:** this kind of application includes the weighing of tanks and reactors in order to avoid overload and system failures and stops. The load cells we suggest for this kind of plant are:
  - **bendind beam: type 54.** 2-5-10-20-50-100-200-300-500 Kg. Waterproof. Available with CANopen output. Stainless steel body with bellow microplasma soldered. High precision (equivalent OIML C3). ATEX certification.
  - **shear beam: type 315.** 50-500 Kg / 1-2-3-5 t. Waterproof. Stainless steel. ATEX certification
  - **compression: type 142.** 0,5-1-2-5-7,5-10-15-20-30-50-100 t. Side load high resistance. High precision (equivalent to OIML C3). ATEX certification.



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# CELMI – our offer for the oil&gas industry

Our specific products are designed in order to cooperate in these fundamental phases of oil&gas plants life:

- **offshore oil platform:** The load cells we suggest for this kind of application are:
  - **bending beam: type 54.** 2-5-10-20-50-100-200-300-500 Kg. Waterproof. Available with CANopen output. Stainless steel body with bellow microplasma soldered. High precision (equivalent OIML C3). ATEX certification.
  - **shear beam: type 315.** 50-500 Kg / 1-2-3-5 t. Waterproof. Stainless steel. ATEX certification
  - **compression: type 142.** 0,5-1-2-5-7,5-10-15-20-30-50-100 t. Side load high resistance. High precision (equivalent to OIML C3). ATEX certification.



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# CELMI – our offer for the oil&gas industry

Our specific products are designed in order to cooperate in these fundamental phases of oil&gas plants life:

- **cylinder weighing system:** The load cells we suggest for this kind of application are:
  - **bendind beam: type 54.** 2-5-10-20-50-100-200-300-500 Kg. Waterproof. Available with CANopen output. Stainless steel body with bellow microplasma soldered. High precision (equivalent OIML C3). ATEX certification.
  - **shear beam: type 315.** 50-500 Kg / 1-2-3-5 t. Waterproof. Stainless steel. ATEX certification
  - **compression: type 142.** 0,5-1-2-5-7,5-10-15-20-30-50-100 t. Side load high resistance. High precision (equivalent to OIML C3). ATEX certification.



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**CELMI – always with you**

**[www.celmi.com](http://www.celmi.com)**



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