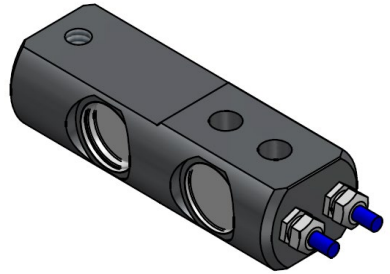
CELMI FOR THE LIFTING SECTOR

Celmi S.r.l ©
L.go Brugnatelli 13/16 - 20090 Buccinasco (MI) Italy - Tel. +39 0245712209 - Fax +39 0245705836 - info@celmi.com
C.F. e P.I. 04989520152 - Capitale Sociale: €10.400 R.E.A. 1082657

Types of load cells used in this sector

- Pin load cells: type PR
- Double shear beam load cells: type 315
- Compression load cells: type 142

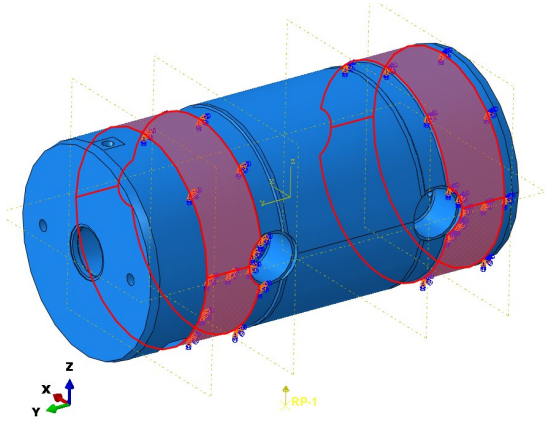


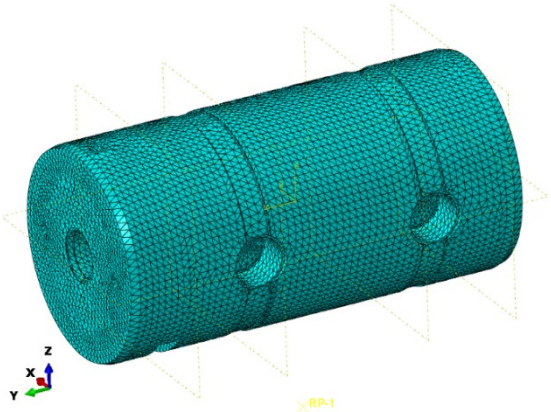
We
give the right weight to
YOUR SUCCESS

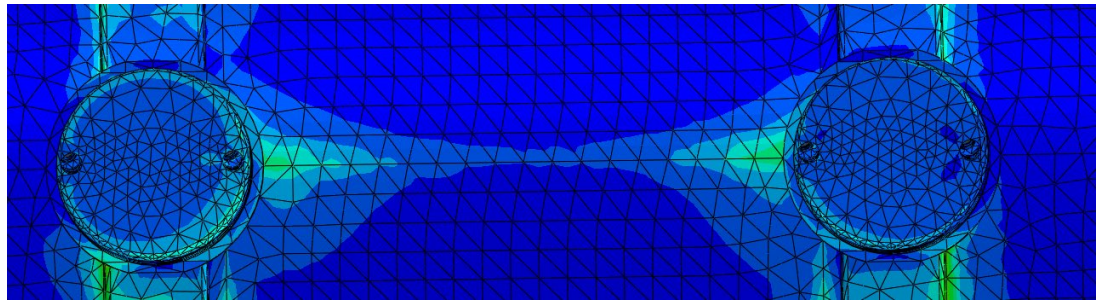
Design elements

The design of the load cell is carried out with advanced tools up to **the Finite Element Analysis (FEM).** These types of analysis allow to describe a real system in an accurate and reliable way, in order to be able to obtain the physical quantities of interest.

This important design phase allows the study of complex physical phenomena that could otherwise be faced only with an experimental approach by identifying any problems even before the load cell is built.







We
give the right weight to
YOUR SUCCESS

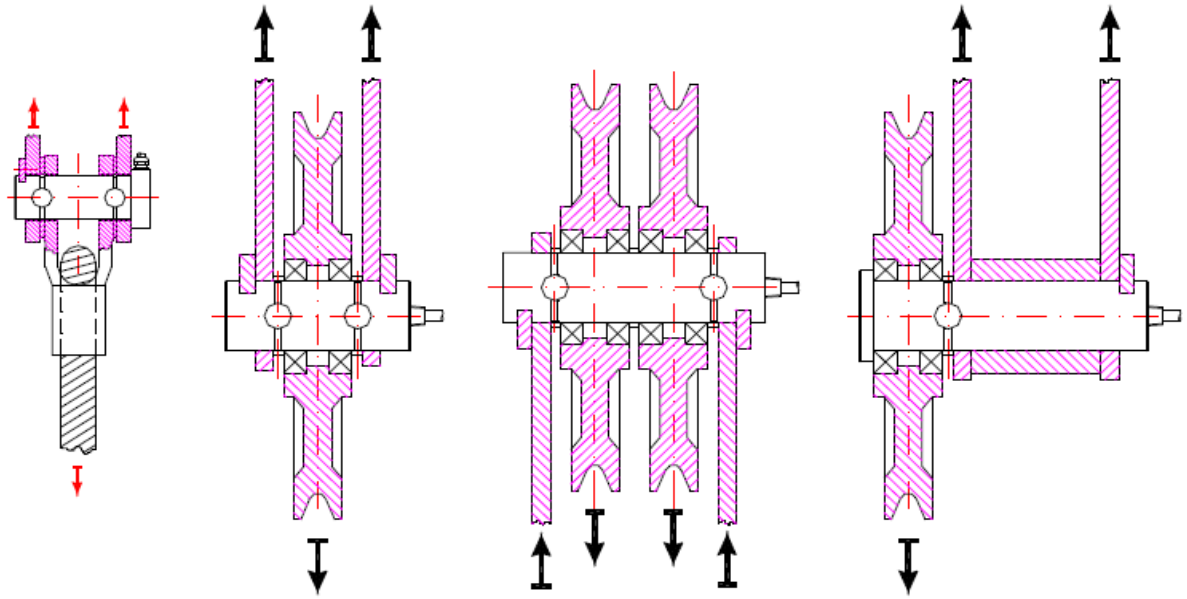
Pin load cells

The pin load cells are used to replace non-instrumented pins allowing the measurement of the force applied in an area (usually the central one) of the transducer.

The installation of the pin load cell allows to obtain an electrical signal proportional to the applied load.

The measuring body, made of 17-4PH aeronautical steel, is suitably machined to allow the installation of the rolling element on the area prepared for measurement (bearing, bushing, etc.).

The seats, suitably machined, ensure the orientation of the load cell with respect to the direction of the force to be measured and the fixing by means of a lock key.

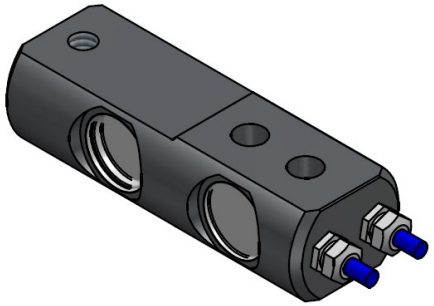


We
give the right weight to
YOUR SUCCESS

Compression and double shear beam load cells

In the lifting mode, overload control **is one of the most important safety measures** as it is mandatory by law (in Italy since 2001).

On the aerial platforms, the compression and double shear beam load cells, allow to calculate the real weight residing in the basket during the work operations; the machine is calibrated by the manufacturer in such a way as to inhibit any movement in case there is an excess of weight that goes beyond the established maximum capacity.

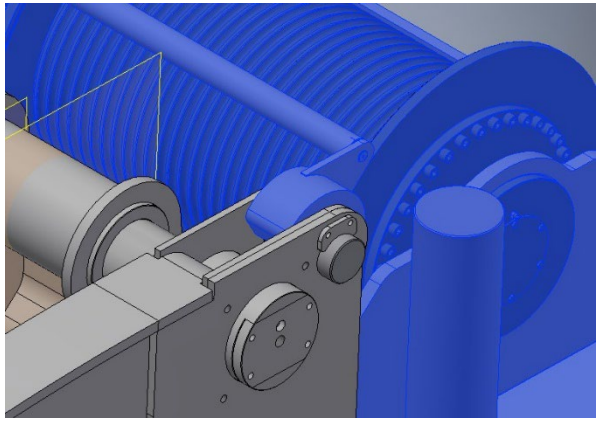


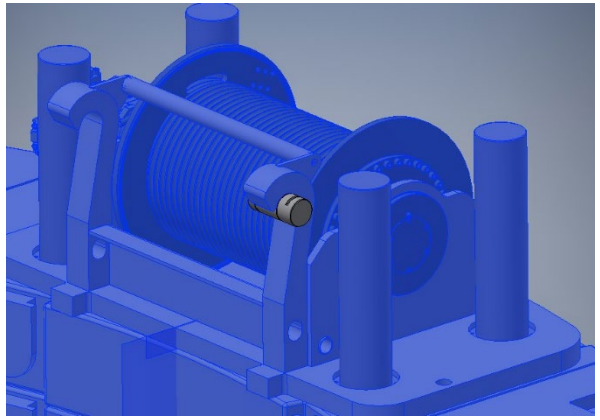
We
give the right weight to
YOUR SUCCESS

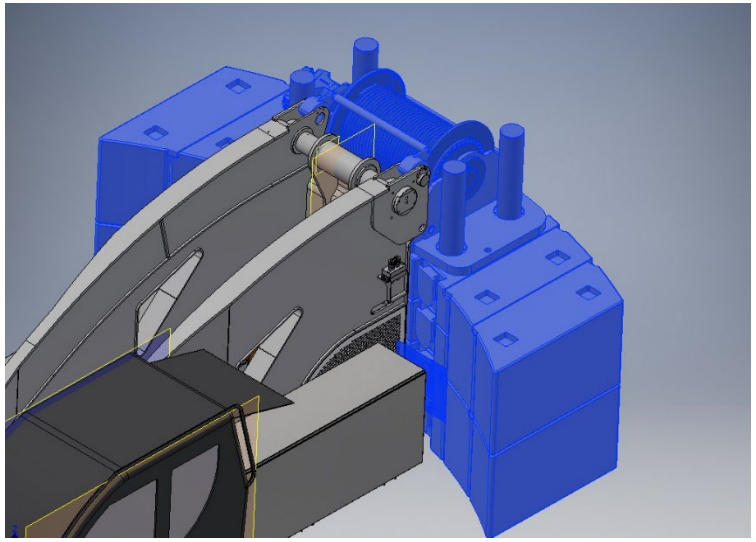
Platform stabilizers “Spider”

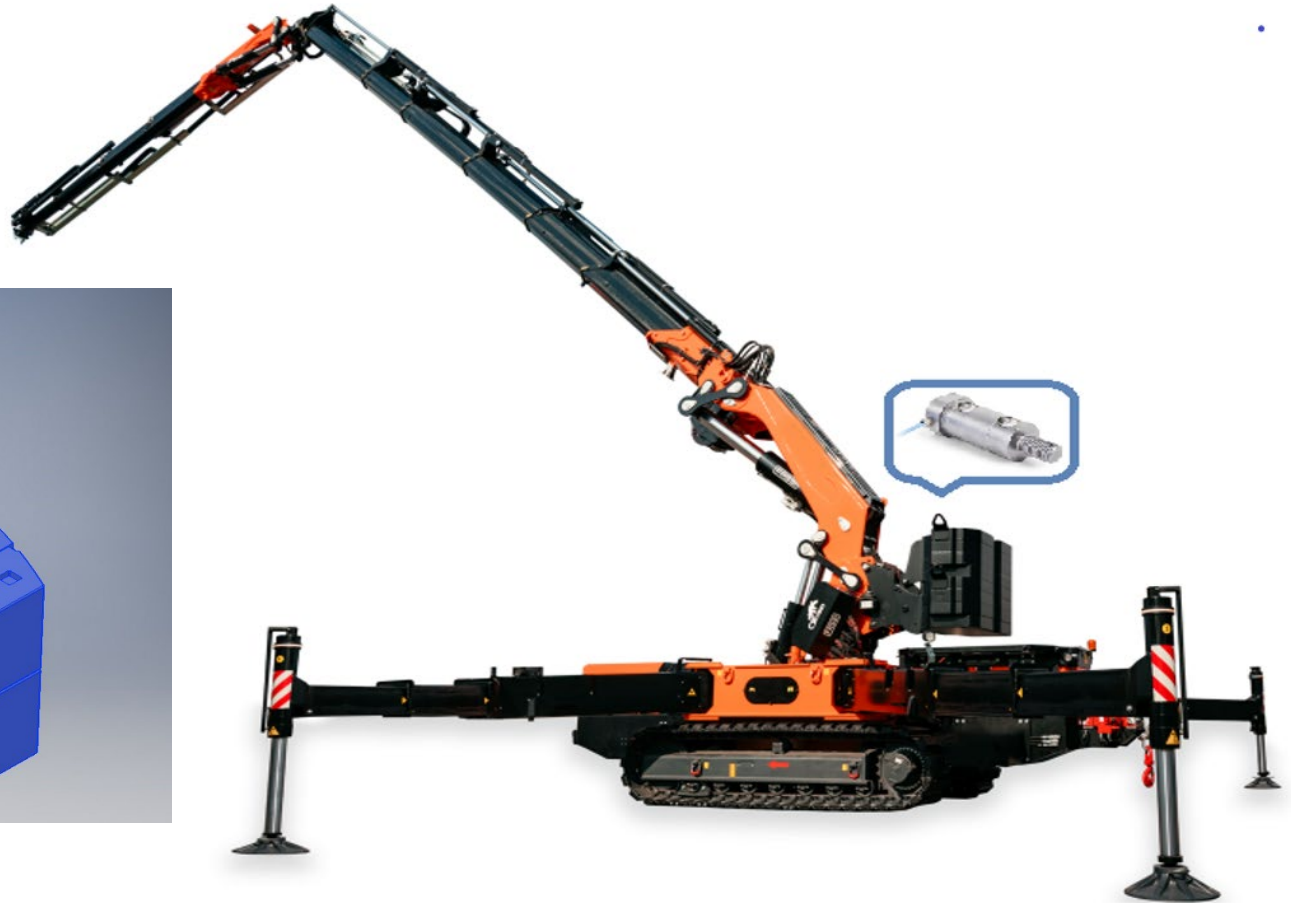
We
give the right weight to
YOUR SUCCESS

Monitoring of the ballast against tampering

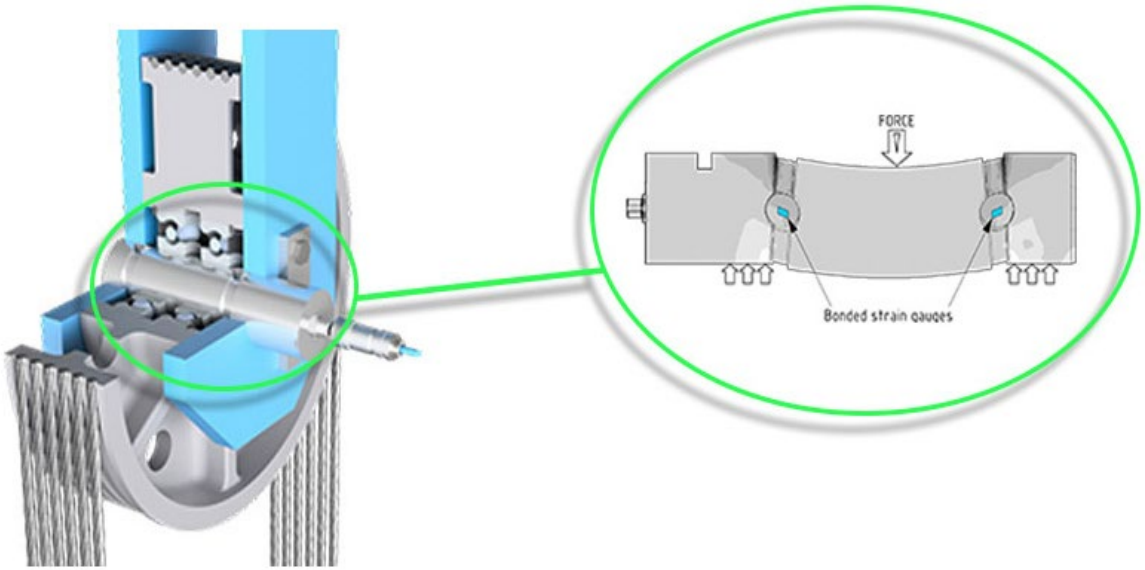


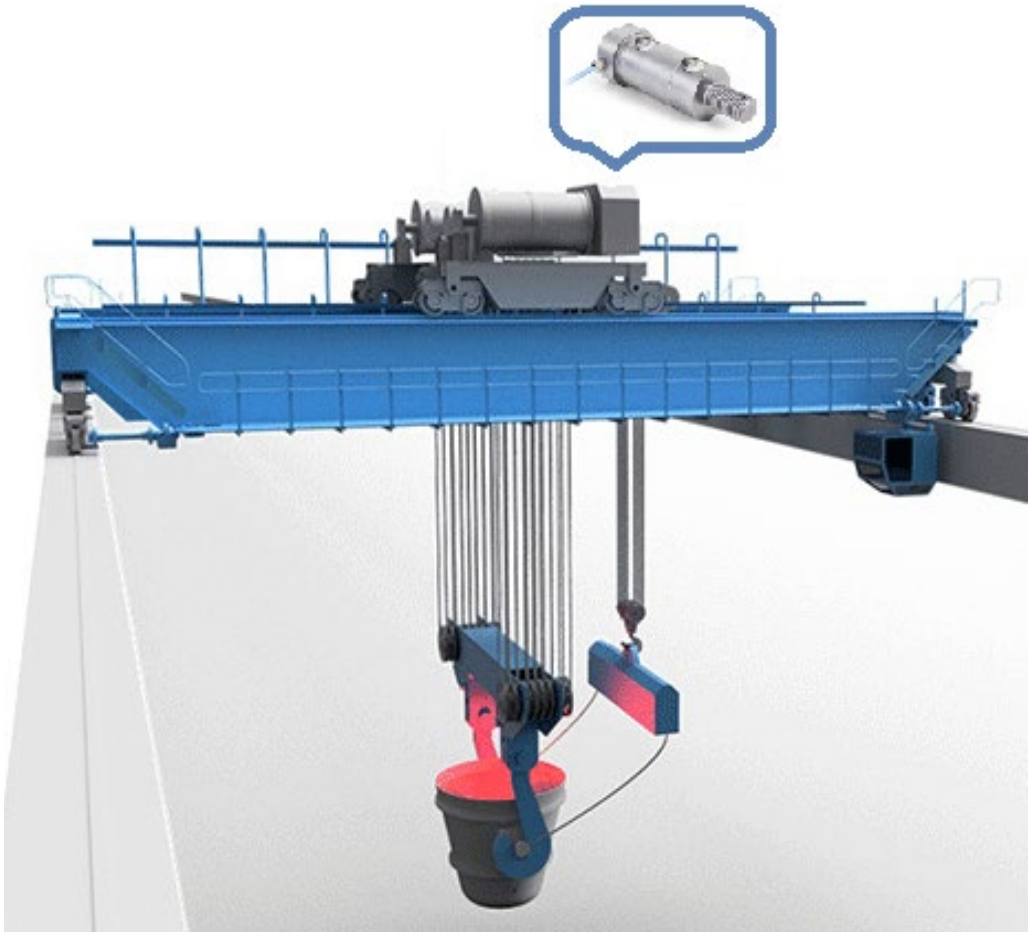






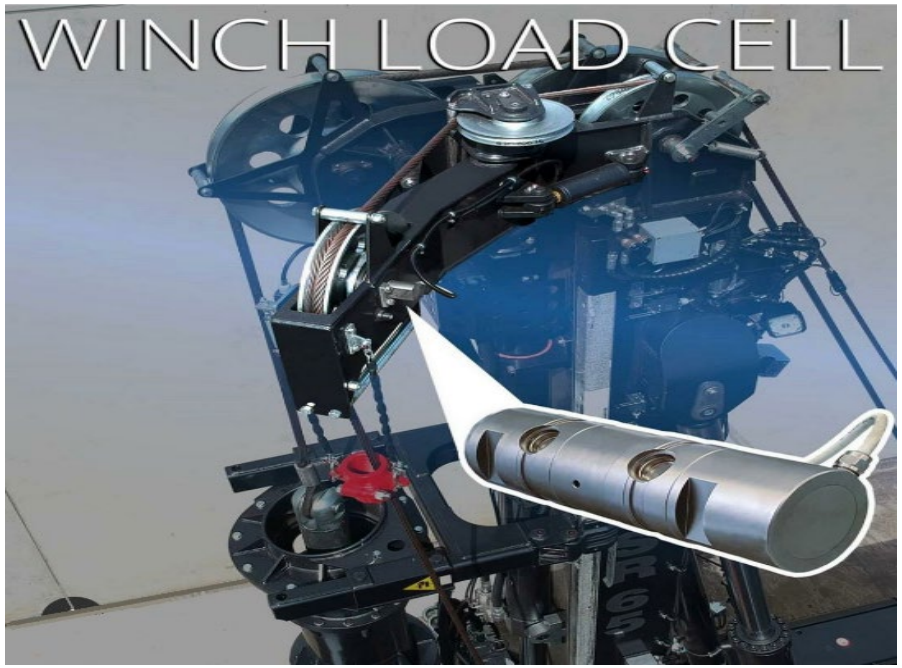
Crane lifting winches





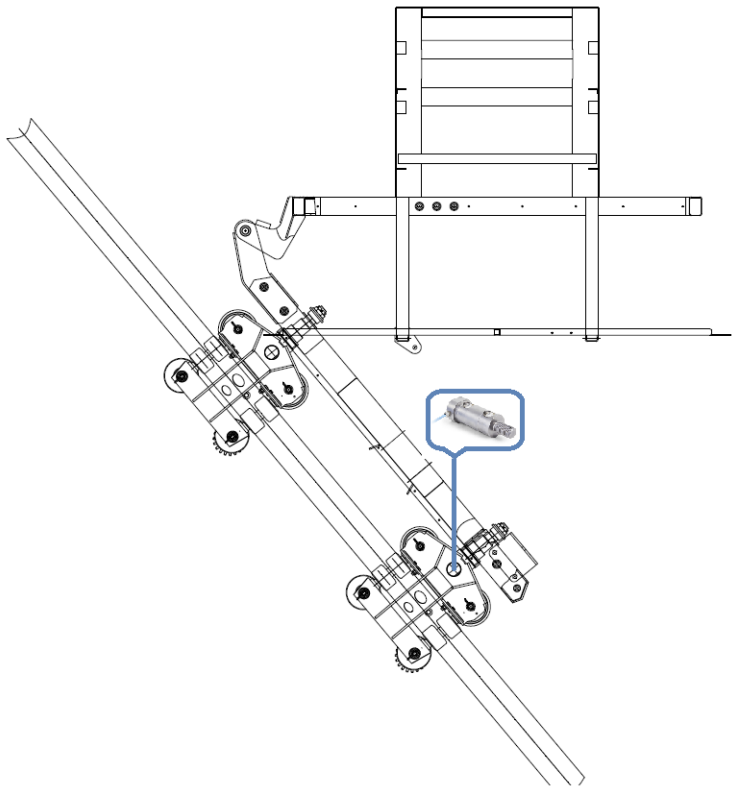
We
give the right weight to
YOUR SUCCESS

Augers and drilling machines



We
give the right weight to
YOUR SUCCESS

Rail transport systems, lifts, cable cars



We
give the right weight to
YOUR SUCCESS

Measurement of rope tension on winding drums and winches

We
give the right weight to
YOUR SUCCESS

CELMI – always with you

www.celmi.com

+39 0245712209

L.go Brugnatelli 13/16 -
20090 Buccinasco (MI)
Italy

info@celmi.com

We
give the right weight to
YOUR SUCCESS