

EMC – New Zealand Steel

Silo level measurement by extensometers

EMC is the SCAIME partner in New Zealand and is one of the country's largest process automation and industrial weighing suppliers.

SCAIME and EMC Industrial Group have partnered to offer a silo level measurement solution to **New Zealand Steel Ltd.** New Zealand Steel are the largest steel producer and operator of iron mines in New Zealand.

Customer need

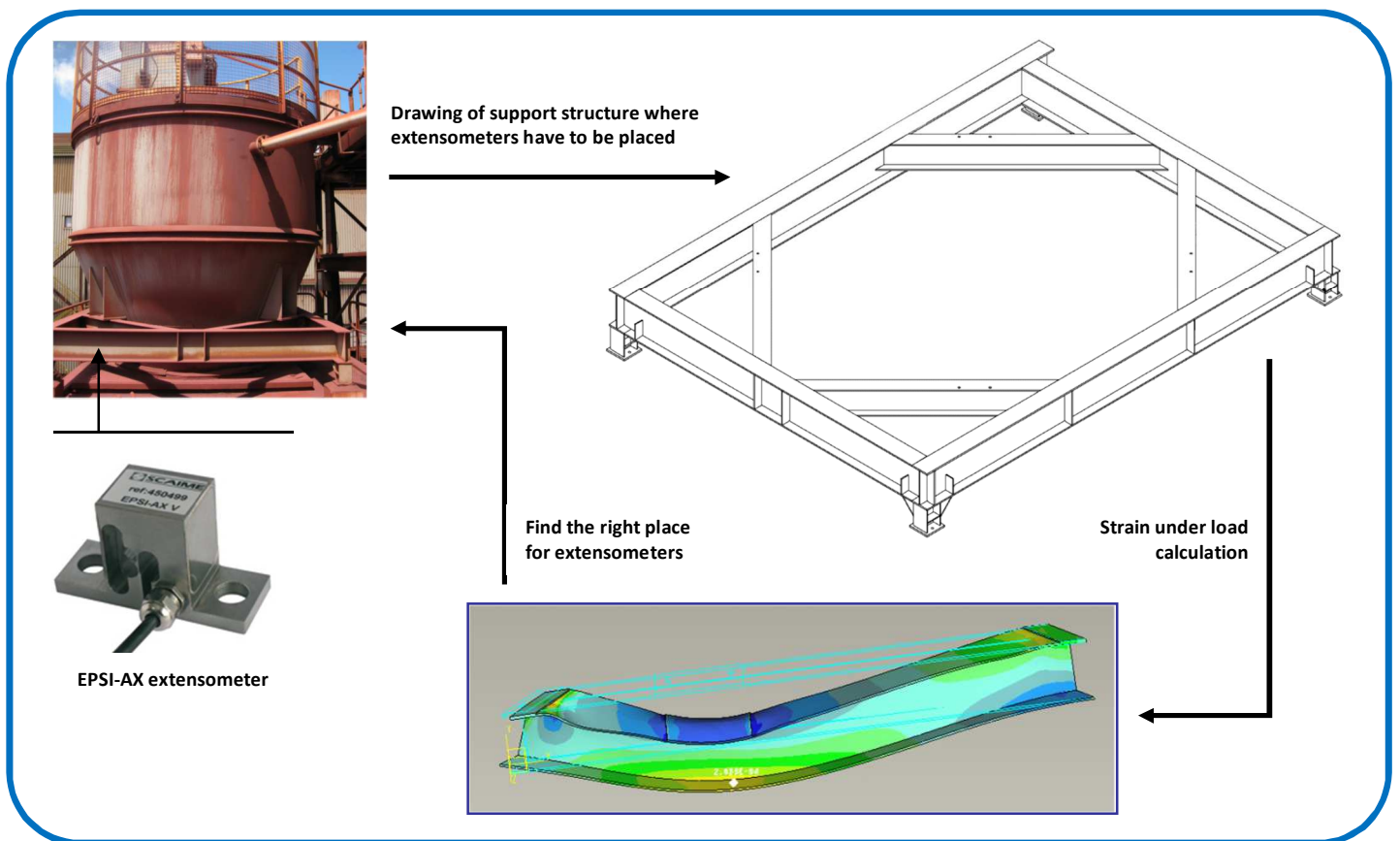
The customer required a reliable level measurement of a ferric oxide silo with a capacity of 30t.

They initially fitted free space and guide radar level transducers, but this was unsuccessful.

SCAIME solution

The system proposed by SCAIME and EMC consists of four EPSI-AX extensometers fixed to the supports of the silo connected to an ALCB-A4 junction box. This was connected to a load cell transmitter with a 4 – 20mA out to the plant PLC.

In this solution, the EPSI-AX strain sensors measure the deformation of the silo structure, proportional to the product weight inside the silo.



Customer benefits

- Quick installation without any modification of silo structure.
- Reliable level measurement with accuracy of 2% meeting the customers' needs.