

# Flintec Overview

## What we do

Our comprehensive range of strain gage load cells and force sensors are highly reliable, accurate and cost effective. The combination of Flintec sensors and an extensive range of accessories and electronics allow our customers to install and create complete weighing systems.

For customers who require something unique, Flintec offers a fully project managed process of product development, producing sensors, hardware, electronics and software that are fully compliant with international standards and verification requirements. This process includes the manufacturing of complete systems for industrial weighing scales and medical applications.

## Customer service

We pride ourselves on customer focused service. With offices across the world, we ensure that each customer is given a regional contact who can provide technical guidance and support whenever it is needed. We have a global network of highly skilled engineers who can help with complex system integration and customization.

Flintec is a world leading manufacturer of precision weight measurement technologies designed for use across a diverse range of industrial sectors.

Our journey began in 1968 when two Swedish engineers established a weighing scale design company, designing unique scales and later developing innovative load sensors. Very soon the business grew to include offices in the USA and Germany. Today we have offices and representatives globally.

In 2008 the founder of Flintec passed ownership of the business to Indutrade AB ([www.Indutrade.Se](http://www.Indutrade.Se)), a company listed on the Swedish stock market. Although ownership of the company has changed, we remain committed to our values of innovation, quality, precision and customer service.



## Manufacturing

Since 1996 Flintec products have been manufactured in Sri Lanka. As demand grew, so did our manufacturing facilities. In 2006 our workforce expanded significantly with the opening of new state-of-the-art facilities. We currently employ over 800 highly skilled staff, manufacturing approximately 1 million sensors and 5 million strain gages annually.

Our sensors are manufactured using highly precise machinery, and are continually checked for accuracy. Our strain gages are manufactured by a dedicated team of highly skilled staff who ensure consistency and reliability. Each product manufactured by Flintec is rigorously tested and conforms to ISO9001 and ISO13485 requirements, ensuring quality and precision.

 Flintec is an Indutrade Company

We are extremely proud of our manufacturing facilities and welcome any prospective customer to visit Sri Lanka to understand why our products are renowned for being well made and reliable.

## Global reach

With offices and product stock strategically placed around the world, Flintec is able to offer fast shipments to our customers, regardless of location.

If stock levels don't meet order requirements, we can often mobilize our vast team of manufacturing staff to quickly meet the needs of our customers, offering priority manufacturing combined with either air or sea shipping.



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# Compression Load Cells

Sensor Systems + Solutions



 **flintec**  
quality + precision

 **flintec**

# Compression Load Cells

Flintec offers an extensive range of compression load cells for a wide range of weighing and measurement applications. Capacities range from as little as 20kg through to 300,000kg.

## When to use a compression load cell

Our compression load cell range is designed for a wide range of weighing tasks. Typical applications for our compression load cells include truck scales, silo weighing systems and oil pump control systems. When using a compression load cell, it is vital that the correct mounting hardware is used to achieve high accuracy performance, safety and reliability.

## Common applications

- High capacity weighing scales
- Truck scales
- Railway weighing systems
- Tank and vessel weighing systems
- Silo weighing systems
- Pump control systems
- Medical devices
- Test and measurement equipment
- Assembly machinery

## Key features

- Wide range of capacities from 20kg to 300,000kg
- Hermetically sealed
- Stainless steel construction
- High accuracies for legal for trade applications
- Hazardous area certified
- Extensive line of electronics and hardware available

## The highest quality materials Full traceability

Flintec is one of the few load cell manufacturers to design and produce their own strain gages, ensuring accuracy and reliability.

We select only the highest grade stainless steel and aluminum, ensuring quality and consistency with full traceability.

## Optimized manufacturing

Flintec's manufacturing facilities are certified to ISO9001, ISO13485 and ISO14001. Manufacturing begins with the use of stainless steel or aluminum bars which are precision machined to produce the sensor body.

In a controlled, clean environment; strain gages are applied and are connected to form the measurement circuit. Flintec load cells are hermetically sealed by laser welding ensuring the highest form of reliability.

## Total calibration

Each of our load cells is electrically adjusted to ensure a consistent accuracy across a wide range of temperatures; typically from -10°C to +40°C.

Every Flintec load cell is checked for accuracy between no-load through to full capacity using highly accurate and traceable dead weight and force generation machines. A record of critical performance parameters is then used to generate a calibration certificate unique to each and every load cell.

## Electronic accessories

Our manufacturing process is fully traceable from the procurement of raw materials through to final calibration and dispatch. Every load cell has a unique identity and history that is stored electronically for many years after shipment.

## Electronic accessories

In support of the compression load cell line, Flintec supplies a broad range of electronic modules, which includes:

- + Junction boxes
- + Analog amplifiers
- + Digitizing units
- + Weighing indicators
- + Measuring instruments

## Mounting hardware

A wide range of mounting hardware is available to ensure you get the optimum performance from your Flintec compression load cell. We supply:

- + Load introduction cups
- + Weigh modules
- + Truck scale mounting kits
- + Spherical washers

# Products

Our compression load cell family can be ordered with a range of precision measuring electronics and high quality mounting hardware allowing for optimum performance in all types of weighing and force measurement applications.



## RC1

- Capacities from 25.5t - 91.8t
- All stainless steel construction
- Hermetically sealed
- Self-restoring column design



## RC3D

- Capacities 30t, 40t & 50t
- All stainless steel construction
- Hermetically sealed
- Built-in micro controller and A/D converter



## RC3

- Capacities from 7.5t - 300t
- All stainless steel construction
- Hermetically sealed
- Self-restoring column design



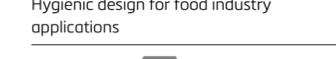
## RC3D New Gen

- Capacities 30t, 40t & 50t
- All stainless steel construction
- Hermetically sealed
- Eliminates need for a junction box
- Daisy-chain connection with M12 connector cable



## Q50

- Capacities from 500kg - 30T
- All stainless steel construction
- Hermetically sealed
- Low profile



## Q1

- Capacities from 20kg - 50kg
- Low profile
- Tension and compression force measurement
- Stainless steel construction
- User adjustable zero and span facility



## JF1

- Capacities from 2kN - 100 kN
- Low profile
- Stainless steel construction
- Designed for press fit applications



## CC1

- Capacities of 30Klb & 50Klb
- All stainless steel construction
- Hermetically sealed (IP68)
- Multiple connector options including Molex and Amphenol
- Designed for pump off control systems

