

# 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), 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



**Flintec USA**  
(+1) 978 562 7800



**Flintec UK**  
(+44) 2920 797959



**Flintec Sweden**  
(+46) 21 120155



**Flintec Singapore**  
(+65) 66 510265



**Flintec Italy**  
(+39) 039 245 5666



**Flintec India**  
(+91) 20 41228295



**Flintec Germany**  
(+49) 6226 9240-0



**Flintec France**  
(+33) 38 731 3620



**Flintec China**  
(+86) 10 8487 1101



**Flintec Brazil**  
(+55) 11 4704-1450

[www.flintec.com](http://www.flintec.com)

# Tension Load Cells

Sensor Systems + Solutions



 **flintec**  
quality + precision

 **flintec**

# Tension Load Cells

Flintec offer a range of tension load cells for a wide variety of weighing and measurement applications. Capacities range from as little as 1lb to 10,000kg.

## When to use a tension load cell

Often called S-type due to their shape, these load cells are designed to measure tension and/or compression forces. Common in suspended weighing and a wide range of lifting apparatus. Compact versions are also now available for test and measurement applications.

## Common applications

- Silo weighing systems
- Suspended tank and hopper weighing
- Patient hoist systems
- Tensile load cell machinery
- Crane scales
- Test and measurement equipment
- Machine monitoring and control

## Key features

- Wide range of capacities from 1lb to 10,000kg
- Hermetically sealed variants
- Stainless steel & aluminum construction
- High accuracy
- Hazardous area certified
- Extensive line of electronics and hardware available
- OIML and NTEP for legal for trade applications

## The highest quality materials

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.

## Full traceability

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 tension load cell line, Flintec supplies a broad range of electronic modules, which includes:

- + Junction boxes
- + Analogue amplifiers
- + Digitising units
- + Weighing indicators
- + Measuring instruments

## Mounting hardware

Complementing the Flintec tension load cell range is a specially designed tension assembly. The 53-04 is manufactured using high grade stainless steel, is simple to install and maintenance free.

# Products

Our tension 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.



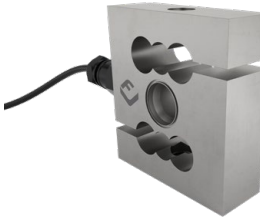
## ULB

- Capacities from 100kg - 5000kg
- Stainless steel construction
- Environmentally sealed by potting
- High accuracy and input resistance



## UB6

- Capacities from 75kg - 500kg
- Stainless steel construction
- Hermetically sealed
- High accuracy and input resistance



## UB1

- Capacities from 1000kg - 10,000kg
- Stainless steel construction
- Hermetically sealed
- High accuracy and input resistance



## ISA/ISB

- Capacities from 1 - 100lb
- Tension & compression force measurement
- Aluminum & stainless steel construction
- Compact, low weight design

