

Flintec Overview

What we do

Our comprehensive range of strain gauge 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 manufacture 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 customisation.

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 gauges annually.

Our sensors are manufactured using highly precise machinery, and are continually checked for accuracy. Our strain gauges 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



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Miniature Force Sensors

Sensor Systems + Solutions



 **flintec**
quality + precision

 **flintec**

Miniature Force Sensors

Flintec's range of miniature and low profile force sensors are designed for a broad range of process automation and test and measurement applications. Due to the very compact designs and high accuracy, the force sensors are easy to integrate into machinery; ensuring long-term, reliable force measurement.

When to use a miniature force sensor

General load cells constrain their use in many types of machinery due to their overall size and mounting requirement. The Flintec range of force sensors overcomes this constraint due to the very compact size and ease of mounting.

For general measurement tasks in the laboratory, the Flintec miniature force sensors offers a compact, high accuracy measurement solution across a broad range of capacities from as little as 1lb.

Common applications

- General test and measurement tasks
- Press-fit machinery
- Packaging machinery
- Process automation equipment
- Assembly equipment
- Medical devices
- Material test machines

Key features

- Accuracies from 0.25%
- Wide range of capacities from 1lb to 10,000lb
- Tension & compression measurement
- Environmental protection
- Stainless steel & aluminium construction
- Compact, low weight designs
- High accuracy
- TEDS (Transducer Electronic Data Sheet) storage
- Extensive line of electronics and hardware available

The highest quality materials

Flintec is one of the few force sensor manufacturers to design and produce their own strain gauges, ensuring accuracy and reliability.

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

Optimised manufacturing

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

In a controlled, clean environment; strain gauges are applied and are connected to form the measurement circuit. Flintec force sensors are environmentally protected ensuring the highest form of reliability.

Total calibration

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

Every Flintec sensor 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 force sensor.

Full traceability

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

Electronic accessories

In support of our force sensor range, Flintec supplies a broad range of electronic modules, which includes:

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

Products

Our miniature force sensors can be ordered with a range of precision measuring electronics, and can be supplied with TEDS storage.



AP5

- Capacities from 1kg - 10kg
- Compression force measurement
- Aluminium construction
- Environmental protection to IP64
- Low capacities with high accuracy



MBD2

- Capacities from 10 - 5,000lb
- Compression force measurement
- Range of internal thru-hole diameters
- Stainless steel construction
- Environmental protection to IP64
- Compact, low weight design



MHT

- Capacities from 1 - 5,000kg
- Compression force measurement
- Aluminium (MHT1) and stainless steel (MHT2)
- Environmental protection to IP64
- Compact, low weight design



MK

- Capacities from 100N - 150kN
- Compression force measurement
- Stainless steel construction
- Environmental protection to IP64
- Compact, low weight design



AP8

- Capacity of 1kg
- Compression force measurement
- Aluminium construction
- Environmental protection to IP64
- Low capacities with high accuracy



ISA/ISB

- Capacities from 1 - 100lb
- Tension & compression force measurement
- Aluminium & stainless steel construction
- Environmental protection to IP40
- Compact, low weight design



JF1

- Capacities from 2 - 100kN
- Compression force measurement
- Stainless steel construction
- Environmental protection to IP60
- Low profile design



Q1

- Capacities from 200 - 500N
- Tension & compression force measurement
- Stainless steel construction
- Hermetically sealed offering environmental protection to IP68
- Low profile design



Y1

- Capacities from 200N - 5000N
- Tension & compression force measurement
- Stainless steel construction
- Environmental protection to IP64
- Compact, low weight design



Y2

- Capacities from 10kN - 50kN
- Tension & compression force measurement
- Stainless steel construction
- Environmental protection to IP64
- Compact, low weight design



MBC

- Capacities from 100 - 10,000lb
- Compression force measurement
- Range of internal thru-hole diameters
- Stainless steel construction
- Environmental protection to IP65
- Compact, low weight design



MBA

- Capacities from 100 - 10,000lb
- Compression force measurement
- Stainless steel construction
- Environmental protection to IP65
- Low profile design



MBA-TW

- Capacities from 25 - 50lb
- Compression force measurement
- Stainless steel construction
- Environmental protection to IP64
- Miniature, low weight design