

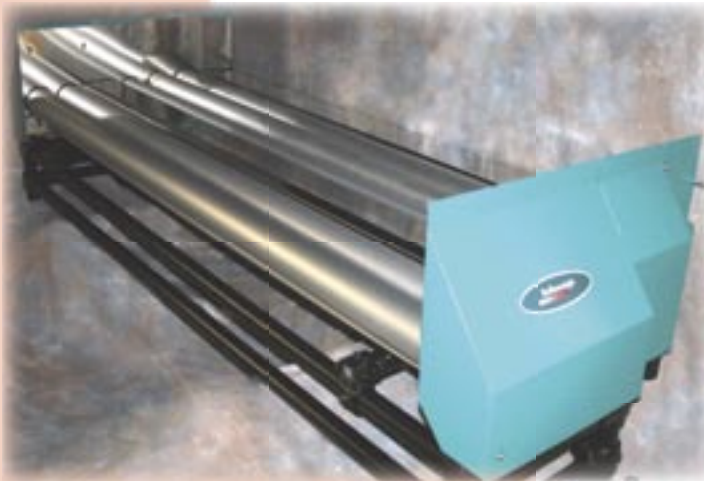


Rollaweigh

Rollaweigh, the unique fibre feed control system from Garnett Controls has become a standard for quality and performance in card feeding.

The success of Rollaweigh is a result of many years experience in card feeding and the popularity of the system reflects the extent to which Garnett Controls have listened to the industry and delivered the goods.

The latest generation Rollaweigh is a product of continued consultation with customers.



Volumetric feeders have become the only way to maintain today's high production rates. But high production through a mechanical feeder comes at a price, and the price is quality. Fibre density can change greatly within a feed chute as a result of various factors including bale to bale variation. Increased throughput speeds means less dwell time in the shaker and less opportunity to consolidate fibre evenly. This creates the need for weight control.

Weight control systems can traditionally be categorised into two basic types, long-term

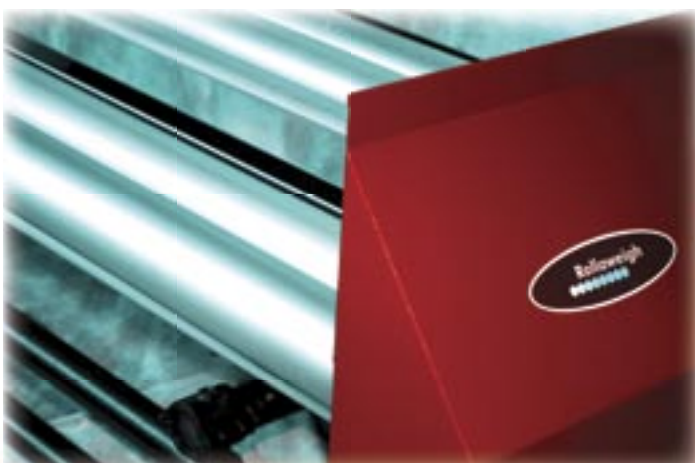
controllers such as weigh-belts, and short term controllers such as weigh-bridges and non-contact density measurement devices. However, whilst each type offers benefits there are corresponding disadvantages.

Traditional short-term controllers are good in principle, because they measure relatively short-term. The disadvantage is that they do not measure true weight. They are influenced by external factors such as friction, bridging and speed changes.

Traditional long-term controllers are also good in principle because they measure true weight.

The disadvantage is that they cannot control short term irregularities. They are also heavy, and as a consequence, poor in resolution. Problems associated with belts, such as tracking, fibre migration etc, can also be encountered.

Rollaweigh was developed to eliminate the disadvantages of both types of system whilst offering all the advantages and more.



Our technologists studied the advantages and disadvantages of available systems and along with customer feedback, set out to design and develop the ultimate fibre feed control system. Lightweight, positively driven rollers replaced heavyweight belts.

Clumsy, low resolution weigh systems are replaced by quality and precision. A unique twin weigh zone provides independent monitoring and control of both short-term and long-term regularity. This is achieved by incorporating a light weight, short weighing section within the larger section.

Irregularities are automatically corrected at the card feed rollers. This is achieved by incorporating a position sensor that determines the correct delay between the point of measurement and the point of control. Control is therefore absolute, not merely part of a simple averaging system.



As well as taking the benefits of traditional systems and eliminating the disadvantages, Rollaweigh offers its own additional advantages over all systems.

For example:

1) Rollaweigh is uniquely balanced, distributing weight equally across the machine. This is not possible with weigh belts.

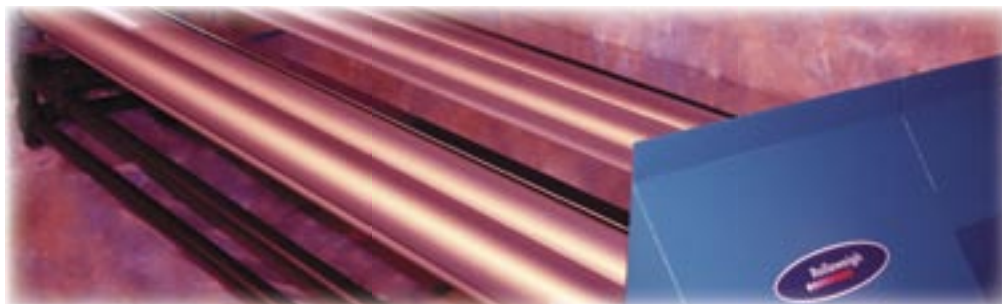
2) Rollaweigh is engineered with high precision using the latest production techniques, offering enhanced reliability.

3) Rollaweigh is easy to operate and has self-calibrating functions.

4) Rollaweigh is simply and efficiently maintained with minimum fuss.

5) Rollaweigh is custom designed to fit each card according to customers needs.

6) Rollaweigh pays for itself quickly in fibre savings, you produce what you require, eliminate out-of spec products whilst optimising production and product quality.



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