



Online Check Weigher

Case Study:- Delivering smart check weigher solutions for improved packaging of dairy products

Executive Summary

Prompt Equipments is serving people for over four decades now and wishes to carry this service as a legacy in the years to come. Today, we have become a leading name in the Indian dairy industry and are substantially improving the lives of those involved in the dairy supply chain. For a very long time, we have been working with Amul, which is one of India's favourite milk brands that manufacture a variety of dairy products. Our innovative range of products is mainly designed to empower the rural and dairy sector

in India. A need for technological enhancements in weighing the packaging of dairy products was felt at Amul for better profits. Despite implementing automation in packaging, issues related to underweight or overweight of packaging was still observed. To counter this problem, we partnered with them to provide different milk testing machines and weighing scales. This has led to better outcomes at Amul in terms of meeting the compliances and improving profits.

About Amul

Amul is a leading cooperative dairy company based at Anand in the state of Gujarat. It was formed in 1946 and is today managed by the Gujarat Co-operative Milk Marketing Federation Ltd. (GCMMF). Today, it is jointly owned by 3.6 million milk producers in Gujarat.

Amul was responsible for spurring India's White Revolution, which led to India becoming the largest producer of milk and milk products in the world. It was spearheaded by Tribhuvandas Patel under the able guidance of Sardar Vallabhbhai Patel.

Challenges

Amul deals in manufacturing of a wide range of products daily. The number of units manufactured for each product is in lacs. They were facing a lot of issues related to the fluctuation of weight in the final

packaged product. The products with excess weight were leading to huge losses. Also, there was a constant threat of damage to the reputation as the products were found underweight.

- According to statistics, Amul produces around 10,00,000 packets of butter daily.
- Even if a package contains around 4 grams extra butter, it could mean that 40,000 kgs of extra milk will be consumed.

- This clearly leads to a loss of around INR 8 lacs daily.

The above example is only related to butter, so similar losses can only be imagined for other products like ghee, curd, ice-cream, butter milk, etc.

How Checkweight Helped

Upon a detailed analysis of the problems, our team of experts at Prompt found out that the continuous use of the packaging machines leads to them becoming less accurate. This clearly results in fluctuation of weight in the packages. By combining electronics and the right use of technology, we designed "Checkweight". It is a revolutionary product that is configured with the help of computer software. It is useful for weighing

packages, record the data for real-time correction and check for authentic

operations through unique package recognition. This helps the teams at Amul to track package weight on predefined intervals and take corrective measures when required. Detailed reports also help them to track performance and design future plans. The smart

Checkweight is equipped with triple light indicators – red, yellow and green. They indicate whether the package weight is more, less or accurate,

respectively. This has eased the operational efficiencies at Amul and helped them solve the problems related to packaging of products.

Outcomes

With the help of the “Checkweight”, Amul has managed to improve its operational efficiencies in the following ways:

- Minimised product giveaways through improved accuracy.
- Ensured regulatory requirements and legal compliances for better consumer experience.
- Keep a track of data in a real-time environment and take corrective measures when required.