Dual-Lane Checkweigher Prescribed
To Meet Automation Needs

Teligent

Producing a diverse range of generic prescription topical and injectable pharmaceuticals, Teligent has built their success on a culture of quality. To automate inspection on their high-throughput tube line, they turned to METTLER TOLEDO and selected a customized XS1 checkweigher with a two-lane configuration that matches their dual-lane filler. Detecting and rejecting under- and over-filled tubes, this checkweigher helps Teligent ensure final product quality and provides data to improve yields.

XS1 Checkweigher

Teligent Inc.

Accurate weight monitoring
at high speeds

METTLER TOLEDO

Customized machinery can suit specialized applications at high speeds with exceptional accuracy - ideal for meeting Teligent's high standards.

Custom-made machines

"METTLER TOLEDO modified their standard one-lane XS1 to meet our line requirements, designing two lanes with a weigh cell under each one. By complementing our dual-lane filler, the machines were easy to integrate," said Mike Bertonazzi, Packaging Supervisor. "This checkweigher handles our high speeds in a small footprint with phenomenal accuracy."

Exceptional accuracy

The XS1 is capable of achieving an accuracy of +/- 20 mg with a throughput of up to 400 packages per minute by using advanced electromagnetic force restoration (EMFR) weigh cells, instead of common strain gauge load cells. "We have very high standards at Teligent, and the accuracy of this checkweigher helps us meet those standards," said Ehor Andrasz, Packaging Mechanic. "Laminate tubes don't seal properly if they are overfilled, so we reject overfills as well as underfills. The system has two reject devices, one for each lane. We segregate rejected packages, which helps us ensure final product quality."

Small container weighing

Designed to handle small, lightweight packages of valuable products that weigh 200 g or less, the XS1 was installed at Teligent in 2015 to assist in automation. The line fills lotions, ointments and gels, primarily regulated pharmaceuticals for private label customers, into metal, plastic or laminate tubes ranging in size from 2 to 30 g.

"Because our METTLER TOLEDO checkweigher captures real-time data, it enables us to be more proactive in monitoring fill weights, which helps improve our yields. The display is like an odometer that shows when tube weights are drifting," explained Bertonazzi. "If there's a fluctuation outside the target weight zone, we're alerted in real time and can quickly make adjustments to the filler."

Full-featured intuitive layout

Featuring a 15-inch color touchscreen, the XS1 has a 'dashboard' layout with 23 separate fields for 'at-a-glance' monitoring of the production process. Password protection offers three levels of access to prevent unintentional and unauthorized changes. "This checkweigher's functionality and software allow us to streamline the changeover process," said Bertonazzi. "The user interface is very intuitive."

Data collection capabilities

To track rejects and product fluctuations, Teligent has access to collect batch data from the XS1 via a USB Print Stick™, with the capability to connect the system to the plant-wide network for more streamlined reporting in the future. Batch reports can be reviewed on a batch by batch basis at Teligent to confirm that no irregularities have occurred on the production line and to analyze performance for improved overall equipment effectiveness (OEE).

The easy-to-use color touchscreen allows for "at-a-glance" monitoring without slowing down the production line.

Reputation and experience

"We choose METTLER TOLEDO because they gave us everything we needed – reliable, easy-to-use equipment and superior service. Their reputation for producing great inspection systems matches our experience," said Jason Edwards, Packaging Manager.

"Our sales rep, Joe Young at Reliant Packaging, really took the time to understand our needs. He helped us select the ideal checkweigher for our application by recommending a very customized dual-lane solution," added Al Wissler, Maintenance and Facilities Manager.

Success through accuracy

"We measure the success of this equipment by its accuracy. We have specific fill-weight requirements for each package that we absolutely must meet, and the XS1 is a very efficient tool to verify that each tube we produce is within our defined range," concluded Edwards. "This checkweigher helps us uphold our commitment to quality. It gives us confidence that every single product coming off the line meets our weight specifications."

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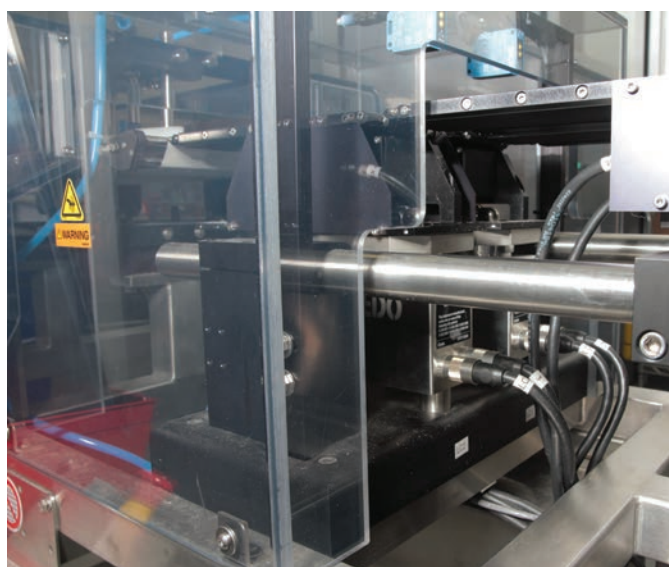
The XS1 - Reliable, well-designed, and capable of accurately measuring products weighing 200g or less

About Mettler-Toledo Product Inspection:

The Product Inspection Division of METTLER TOLEDO is a leader in the field of automated inspection technology. Our solutions increase process efficiency for manufacturers while supporting compliance with industry standards and regulations. Our systems also deliver improved product quality which helps to protect the welfare of consumers and reputation of manufacturers.

Checkweighing

Metal Detection

Track & Trace

Vision Inspection

X-ray Inspection

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