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Mettler-Toledo redefines speed and precision of checkweighing with new FlashCell™ load cell technology

Next generation EMFR load cell technology designed by Mettler-Toledo is faster and more precise than previous load cells to address the growing demand for higher throughputs, increased weighing precision whilst optimising productivity.*

Giesen, Germany, 7th June 2021 – [Mettler-Toledo Product Inspection's](#) C-Series checkweighing systems are setting new standards for speed and precision with the addition of new load cell technology that allows them to achieve industry-leading throughputs. The FlashCell™ load cells weigh products at speeds of up to 800ppm, with pharmaceutical regulation compliant precision. The FlashCell™ load cells are available in three different types, enabling customers to weigh products up to 10kg. In the pharmaceutical sector, where products are comparatively lightweight, the 600g load cell is particularly well suited. Mettler-Toledo C-Series Pharma checkweighers can now, for example, match the speed of industry leading cartoners operating at 700 ppm to carry out completeness checks for lightweight blister packs. This quality assurance measure ensures that manufacturers can detect if even one extremely lightweight component such as a drug leaflet or vaccine shot is missing. As quality assurance checks are carried out at high throughputs, manufacturers can rest assured that productivity levels are fully optimised.

Performance metrics have already been proven: Mettler-Toledo has carried out extensive tests comparing the new FlashCell™ to current EMFR load cells plus installed its new load cell technology at customer sites. Through these tests and installations, FlashCell™ load cell checkweighers have demonstrated, for example, the ability to precision weigh 80g blister cartons with a standard deviation of 185mg at 700ppm and a measuring time of 41ms.

“FlashCell™ technology is a significant further improvement of the already flexible C-Series checkweighers, giving customers the opportunity to increase performance significantly whilst maximising precision according to their needs,” said Frank Borrmann, Market Manager, Mettler-Toledo Product Inspection.

Borrmann continued, *“In today’s market, manufacturers need to be able to respond quickly and competently to fast-changing trends, including changes in product types,*

shapes and weights. By investing in a checkweigher from Mettler-Toledo with FlashCell™ load cell technology, manufacturers will receive a flexible and future-proof system, where every component can adapt to future requirements".

Performance enhancements delivered by Mettler-Toledo FlashCell™ load cell technology include:

➤ **Higher Throughputs**

The next generation load cell technology supports shorter measuring times, enabling product throughput at up to 800 parts per minute (ppm), with no compromise on either weighing accuracy or the safety of the operation. C-Series checkweighers incorporating FlashCell™ technology therefore help to deliver increased productivity.

➤ **Higher Precision**

The FlashCell™ technology delivers weighing results with a standard deviation up to four times lower than the previous load cell generation. This helps to carry out quality assurance to protect both the consumer and the brand.

➤ **Reduced Footprint**

FlashCell™ works with shorter measuring times at high speeds. The weighing conveyor can therefore be reduced in length, with slower conveyor speeds helping to increase product handling stability and allowing shorter outfeed conveyors and product collection areas. The complete length of the checkweigher itself can be reduced by up to 24%.

Mettler-Toledo has proven experience in developing weighing technologies for different industries and applications, from laboratory scales that can weigh a 0.1 microgram load, up to rail scales capable of measuring up to 120 tons. This broad use across many applications means that its weighing technology is continuously developed and tested, ensuring it remains a high quality, stable and secure platform. With its new FlashCell™ load cell technology, the company is introducing a huge advance in weighing precision and performance in the pharmaceutical and packaging industry.

For more information, visit <http://www.mt.com/pi-precision-weighing>

**EMFR: Electro-magnetic force restoration – EMFR load cells are a technology in comparison to strain gauge load cells; like modern strain gauge cells they rely on microprocessors for control, but unlike strain gauge cells they have better temperature stability. EMFR load cells are intelligent sensors which are able to either control or compensate for factors which can influence weighing results. As with strain gauges, filtering out factors such as vibrations is accomplished using software algorithms, although adjustments are made due to the differences in how EMFR functions.*

About METTLER TOLEDO

METTLER TOLEDO is a leading global manufacturer of precision instruments and a service provider. The company ranks highly in a number of market segments and is a global market leader in many areas. METTLER TOLEDO is the largest provider of weighing systems and analysis instruments for use in laboratories and in-line measurement within demanding industrial and food production processes.

The Product Inspection division of METTLER TOLEDO is one of the leading providers within the field of automated inspection technology. The division includes the following brands: Safeline metal and X-ray inspection, Garvens and Hi-Speed checkweighers, and CI-Vision and PCE Track & Trace. The product inspection solutions improve manufacturers' process efficiency and help them comply with industry standards and regulations. METTLER TOLEDO systems ensure consistently higher product quality, helping protect both consumers as well as the reputation of manufacturers and their products and brands.

For more information, please visit: <http://www.mt.com/pi>