

Laboratory Accuracies at Production Throughput



Increased line efficiency

Intelligent user interface for product settings and optional statistics – fast, simple and reliable. Memory presets allow for a quick and easy changeover to another product.



Flawless, traceable transport

Product infeed is "butt to butt" – no product spacing devices required. Total control of the product flow at any point in time using a precise clocking motion, optimum for pharmaceutical applications.



Highest precision

The starwheel, core of the StarWeigh™, ensures highest weighing accuracy by releasing the products after each feed step prior to weighing. Weighing is then a highly accurate, static weighing process.



Integrated rejector lever

"Bad" products are reliably pushed off the line by the integrated rejector lever – no additional rejecting device needed.



"No tools" starwheel changeout

Automatic raise/lower controls and removal for fast product changeover.



StarWeigh™ – for lightweight, unusual shaped packages

The StarWeigh™ rotary stepper checkweigher has proven to be the absolute best solution for checkweighing of a wide range of package sizes. High value products typically require 100% inspection and the StarWeigh™ is the perfect solution for highly accurate checkweighing of round, oval, and even rectangular shaped packages.

StarWeigh™ delivers milligram accuracy at a throughput up to 400 weighings/minute. Simple to install and requiring no line cuts, the StarWeigh™ can integrate packaging lines by simply straddling the existing conveyor.

StarWeigh™

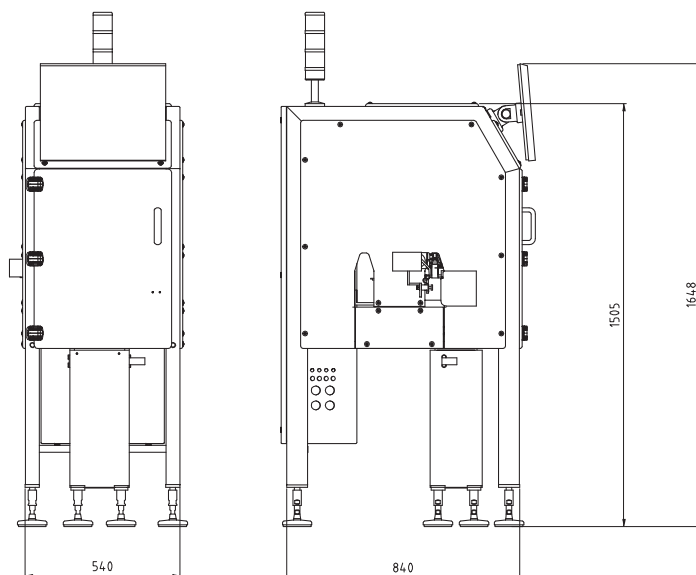
Precise Accuracy for Various Shapes

StarWeigh™ is a unique checkweigher consisting of a main frame made from stainless steel and an innovative, highly precise weighing system. A notable feature of the StarWeigh™ is that it does not utilize conveyors, but rather is designed to straddle the existing conveyor in the packaging line. In rare instances will a customer have to modify their existing conveyor line to accommodate a StarWeigh™.

The StarWeigh™ checkweigher operates on an intermittent weighing cycle with a rotary product flow, ideal for products with a small footprint.

The StarWeigh™ achieves accuracies as high as 5 mg at the maximum rate for a given product. The flexible product handling design reduces the time and effort required for a product change to an absolute minimum. The intermittent rotary cycle ensures safe product handling. Product reject is integrated in the cycle.

The starwheel incorporates a calibration on re-zero pocket which eliminates any weigh drift problems. Various starwheels (for different products) can be included in the configuration settings making starwheel changeover quick and easy.



Schematic StarWeigh™ – typical dimensions in mm – other dimensions possible depending on order specifications

StarWeigh™ characteristics

- Automatically times and spaces packages – no external timing conveyors or devices required
- Compact footprint requires minimal production floor space
- Straddles existing conveyors and requires no line cuts
- Complete control of product transfers for highly accurate weighings at high throughput
- "No tools" changeover of starwheels to accommodate various product shapes
- Rotary solenoid lever arm reject mechanism
- Multiple language support for on-screen dialogue
- RS232 serial interface

Operating terminal

- 15" diagonal, color touch screen user interface
- Bright, high contrast 1024 x 768 pixel resolution color display
- Embedded Windows™ XP operating system
- Various user-selectable screen dialogue languages
- Simple and intuitive touch screen menus
- Configurable multi-level coded security system (individual user access profiles with password protection)
- One touch full screen weight display
- 200 product setups
- 3 weight zone classification
- Display of all key up-to-date weight data, production and configuration screens
- Real-time data capture and distribution

Options and accessories

- 7 weight zone classification
- ProdX interface
- Network interface to METTLER TOLEDO FreeWeigh.Net SQC system
- RS232, 422, 485 and 20 mA CL serial interface
- Ethernet capability
- Various production monitoring, line integration and product safety monitoring and reporting
- Feedback control program for automatic adjustment of filling machines
- Statistics program for evaluation
- Various monitoring devices (e.g. backup detection)
- Calculation of the gliding mean value
- Mean value trend monitoring
- PrintStick or printer
- Further special options and accessories on enquiry

Technical Details	StarWeigh™
Weighing range, specific to product weight	250 mg to 2000 g
Accuracy* (3 Sigma)	from ± 5 mg (0.005 g)
Throughput (weighings/minute)	max. 400
Line height	810 – 1067 mm ± 25 mm
Standard sorting/rejecting device	Rotary solenoid lever arm
Power	110/230 V AC, 50/60 Hz, single phase, approx. 500 VA

*within the approved tolerances, depending on the weight, dimensions and transport behavior of the product to be weighed.

METTLER TOLEDO Service with global reach and tailored care solutions



Mettler-Toledo Group

Product Inspection Division
Local contact: www.mt.com/contacts

Subject to technical changes. Images are examples only.
© 10/2019 METTLER TOLEDO. All rights reserved.
139 EN

www.mt.com/C-Series-PI

For more information