

Automated Precision Weighing



OEM weighing solutions

Fast

Rugged

Precise

Direct

Precision Weighing
integrated into customer processes

METTLER TOLEDO

Automated Processes

faster, more effective and more reliable

METTLER TOLEDO is a global supplier of precision instruments and services for weighing, measurement and analysis in the laboratory and in industry. A growing portfolio of Automated Precision Weighing applications is geared to the needs of mechanical and plant engineering and to instruments and devices with integrated precision weighing technology.

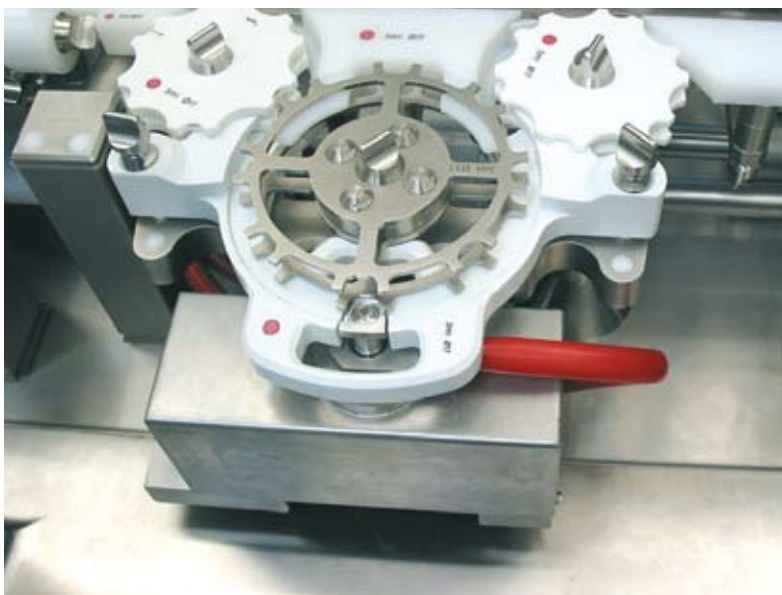
Applications

The mass or weight is still a key figure for process control or quality control in many processes. Fast, automated yet high-precision weighing opens up completely new dimensions in many areas of production and laboratory automation. Whether your needs are for simple weighing, precise filling, specific characterisation of materials or quality control, METTLER TOLEDO precision weighing modules and sensors are in demand wherever precise,

automated weighing is required with a direct data connection.

- We offer high-precision weighing sensors for applications in industrial and laboratory automation.
- Our broad product range guarantees a common hardware and software concept.
- Our products feature a wide variety of uses, robustness and a long service life.

- Interfaces specific to the sensor and various communications modules allow standard integration.
- We meet specific customer requirements with flexible engineering solutions.
- Local customer service guarantees you of competent advice and maximum system availability.



Weighing module in a filling machine in the pharmaceutical industry (Picture: Groninger & Co. GmbH, Germany)

Customer benefits



Fast
Increased productivity
Shorter cycle times
Faster filling process



Rugged
Developed for harsh environments
High process reliability
Long service life



Precise
Milligram weighing in industrial environment
Optimum use of materials
Reliable quality control



Direct
Flexible connectivity
Simple implementation
Reduced investment costs



Global service
Worldwide product availability
Professional consultancy
Fast on-site service

New Dimensions in filling and weighing



Automated precision weighing

Fast yet high-precision weighing in the milligram range in a fraction of a second, seamlessly integrated into automated processes.



WM weighing modules in a pharmaceutical filling system.
(Picture: F. Hoffmann-La Roche AG, Switzerland)



Statistical quality control (SQC)

Periodic weighing of defined samples for the purposes of statistical quality control; ensuring traceability; efficient offline process control.



WM weighing modules in tablet checking systems.
(Picture: Dr. Schleuniger Pharmatron AG, Switzerland and Sotax AG, Switzerland)



100% quality control

Extremely short weighing times, compact design and flexible parameter definition for 100% control integrated directly into the production process.



WM weighing modules in a handling machine for solar wafers.
(Picture: Jonas & Redmann, Germany)



100% quality and process control

100% in-process precision weighing directly at the critical process step with immediate re-adjustment of relevant parameters.



WM weighing modules in a metal powder press for hand metal cutting inserts.
(Picture: Fette GmbH, Germany)



Characterisation of materials

High-precision and automatic measurement of weight or force for the characterisation of materials. Exceptional long-term stability.



WMH weighing module in an oxide crystal puller system.
(Picture: Crystal Growing Systems GmbH, Germany)



Filling

38 updates per second, flexible configuration options, monitoring functions integrated into the sensor with digital outputs for optimum filling processes.



GMP-compatible filling of active substances.
(Picture: Lobotech, Switzerland)



Liquid handling

Flexible integration into fully automatic liquid handling platforms thanks to extremely compact dimensions of the weighing sensor; Readability to 10 µg.



SAG weighing module in a liquid handling system.
(Picture: Tecan Schweiz AG, Switzerland)



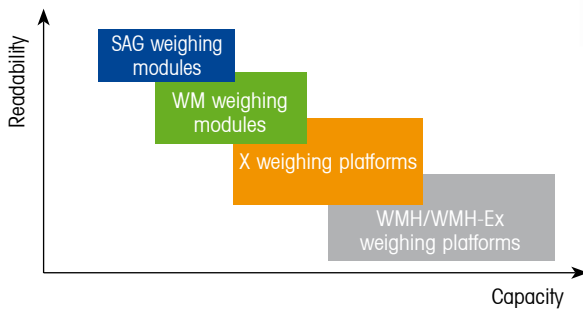
Taring

High-precision and fully automatic determination of moving masses to ensure optimum dynamic properties of highly-stressed automotive components.



WM weighing module in a taring system for car piston rods.
(Picture: Hofmann Mess- und Auswuchttechnik GmbH & Co. KG, Germany)

Innovative products and tailored services



Complete range

METTLER TOLEDO offers you a complete range of weighing sensors for automated precision weighing with readability of 10µg and capacity of up to several tonnes.

Precision weighing modules for automation



SAG weighing modules

Fast analytical weighing module with compact weighing unit and separate control unit with display.

Capacity to 210 g
Readability to 10 µg



WM weighing modules

Extremely fast, robust and compact precision weighing modules. Developed for integration into automated processes.

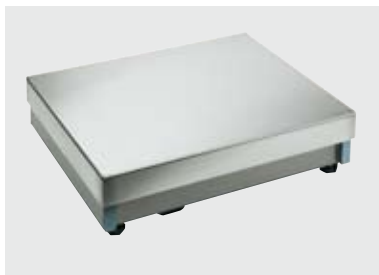
Capacity to 6100 g
Readability to 0.1 mg



X weighing platforms

Compact precision weighbridges with high weighing capacities yet the finest readability.

Capacity to 64 kg
Readability to 0.1 mg



WMH/WMH-Ex weighing platforms

Large range of robust weighbridges with direct connectivity and a wide range of accessories, optional Ex model.

Capacity to 3000 kg
Readability to 0.1 g



Weighing sensors



Weighing kits

Compact load cell electronics sets for flexible integration into machines and instruments. Customer-specific models on request.

- Capacity to 64 kg
- Readability to 10 µg



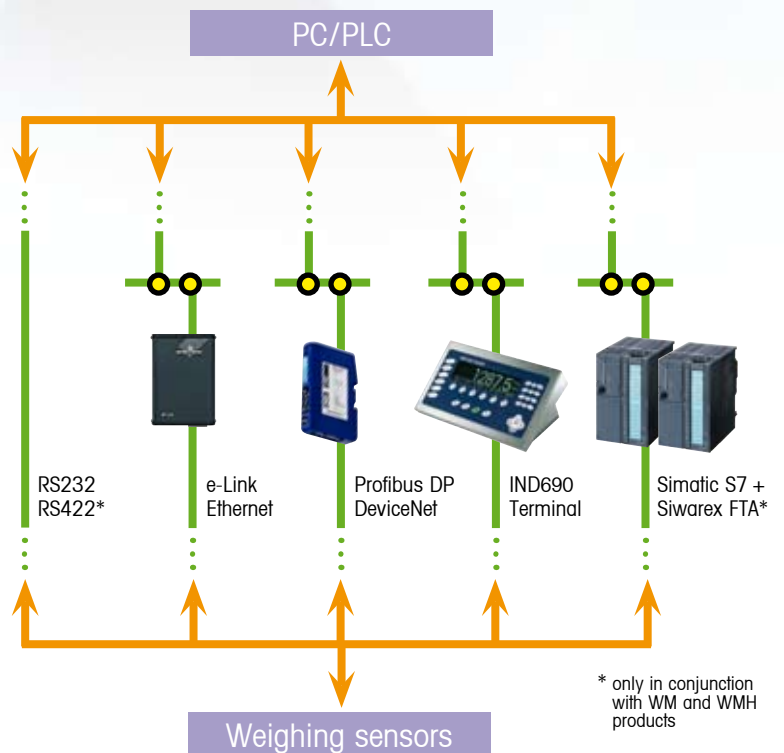
Stain gauge weighing modules

Wide range of weighing modules for static and dynamic applications in industry and logistics.

- Capacity to 20 t
- Readability to 50 g



Flexible connectivity



Accessories



Connection modules

ConModule, ConBox, cables, startup set.



Communications modules

Ethernet, DeviceNet and Profibus DP.



Engineering services

Take advantage of the R&D expertise of the market leader. We can offer you individual product modifications and weighing solutions tailored to your needs.

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More information



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