

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 the global market leader in precision instruments and services for weighing, measurement and analysis in the laboratory and in a broad variety of industries. Our growing portfolio of Automated Precision Weighing products is focused on the needs of plant and process engineering and tailored to instruments and systems requiring integrated precision weighing technology.

Applications

Weight has always been a key parameter in the production or quality control of many processes. Fast, automated, yet high-precision weighing brings a completely new dimension to process and laboratory automation. Whether your application requires simple weighing, precise filling, characterization of materials or quality control, METTLER TOLEDO precision weighing modules and sensors offer direct data connection and

state-of-the-art weighing performance for automated weighing solutions.

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

- Choices of communication interfaces provide direct connectivity to a variety of control networks.
- Flexible engineering solutions ensure that customer specific requirements are always met.
- Local customer service offers expert support and guarantees maximum system availability.



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

Customer benefits



Fast

- Increased productivity
- Shorter cycle times
- Faster filling processes



Rugged

- Developed for harsh environments
- Reliable measurements
- Long service life



Precise

- Milligram weighing in industrial environments
- Material optimization
- Reliable quality control



Direct


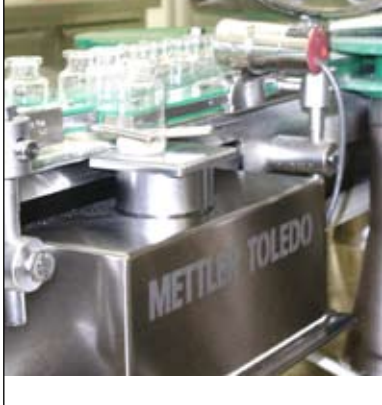



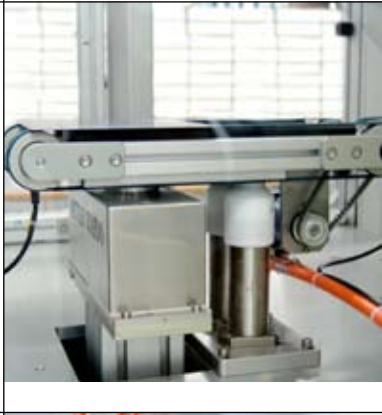


- Flexible connectivity
- Simple implementation
- Easy integration

ServiceXXL
Tailored Services

Global service

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

New Dimensions in Filling and Weighing

	<p>Automated precision weighing Fast yet high-precision weighing in the milligram range in a fraction of a second, seamlessly integrated into automated processes.</p>		<p>WM weighing modules in a pharmaceutical filling system. (Picture: F. Hoffmann-La Roche AG, Switzerland)</p>
	<p>Statistical quality control (SQC) Periodic weighing of defined samples for the purposes of statistical quality control; ensuring traceability; efficient offline process control.</p>		<p>WM weighing module in a tablet checking instrument. (Picture: Dr. Schleuniger Pharmatron AG, Switzerland and Sotax AG, Switzerland)</p>
	<p>100% quality control Extremely short weighing times, compact design and flexible parameter definition for 100% control integrated directly into the production process.</p>		<p>WM weighing module in a handling machine for solar wafers. (Picture: Jonas & Redmann, Germany)</p>
	<p>100% quality and process control 100% direct in-process precision weighing at critical process steps with immediate re-adjustment of relevant production parameters.</p>		<p>WM weighing modules in a metal powder press for precision metal cutting inserts. (Picture: Fette GmbH, Germany)</p>



Characterization of materials

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



WMH weighing module in an oxide crystal growing 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 optimized filling processes.

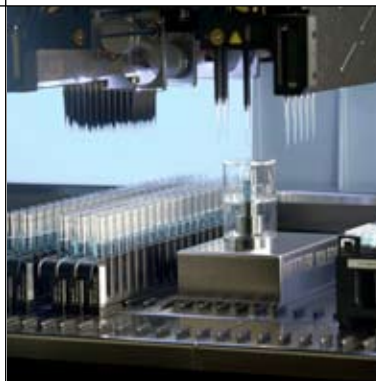


GMP-compatible filling of active substances.
(Picture: Lobotech, Switzerland)



Liquid handling

Extremely compact weighing sensor dimensions provide flexible integration into liquid handling platforms. Readability down to 10 µg.



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



Center of gravity

High-precision and fully automated determination of center of gravity to ensure optimum dynamic properties of highly-stressed components.

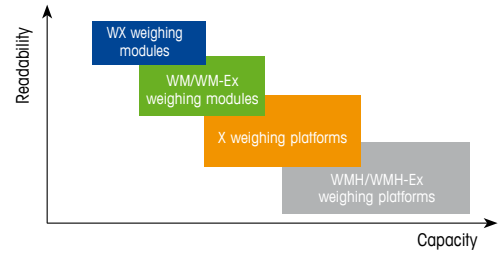


WM weighing modules in a testing system for car piston rods.
(Picture: Hofmann Mess- und Auswuchttechnik GmbH & Co. KG, Germany)

Innovative Products and Tailored Services

Complete range

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



Precision weighing modules for automation



WX weighing modules

Fast analytical weighing module with compact load cell. Available with or without terminal.

Capacity up to 220 g
Readability down to 10 µg



WM/WM-Ex weighing modules

Extremely fast, robust and compact precision weighing modules. Developed for integration into automated processes. Models approved for hazardous areas are also available (with ATEX, FM & CSA compliance).

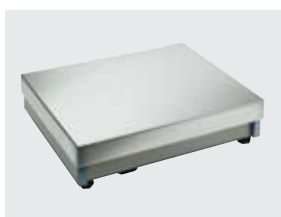
Capacity up to 6100 g
Readability down to 0.1 mg



X weighing platforms

Compact precision platforms with high weighing capacities yet the smallest readability.

Capacity up to 64 kg
Readability down to 0.1 mg



WMH/WMH-Ex weighing platforms

Broad range of robust weighing platforms with direct connectivity and a wide selection of accessories. Models approved for hazardous areas are also available (with ATEX & FM compliance).

Capacity up to 3000 kg
Readability down to 0.1 g

Weighing sensors



Weighing kits

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

- Capacity up to 64 kg
- Readability down to 10 µg

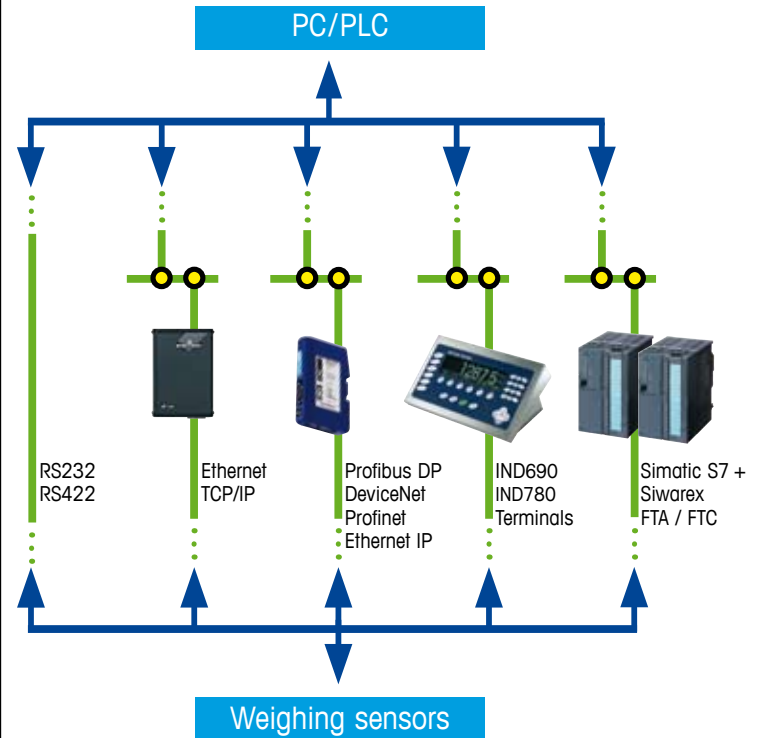


Strain gauge weigh mounts and load cells

Wide range of load cells for static and dynamic use in industrial and logistic applications.



Flexible connectivity



Accessories



Connection components

ConModule, ConBox, cables, commissioning set.



Communication bridges

Ethernet IP, Ethernet TCP/IP, Profinet, DeviceNet and Profibus DP.



Mechanical components

weigh pans, below-the-balance weighing kit, draft shield, evaporation traps.

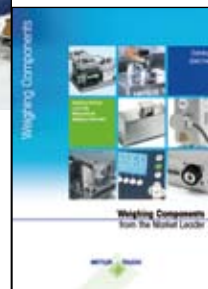


Engineering services

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.

Weighing components catalog

METTLER TOLEDO offers the broadest range of worldwide approved and supported weighing components. Order your copy today by contacting your METTLER TOLEDO sales representative.



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For more information



Quality certificates

Development, production and testing under ISO 9001.



Environment management system under ISO 14001.



“Communauté Européenne”.

This mark assures you that our products comply with the latest guidelines.