

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



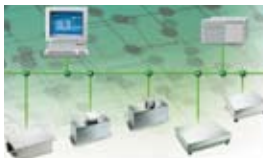
Rugged

- 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.

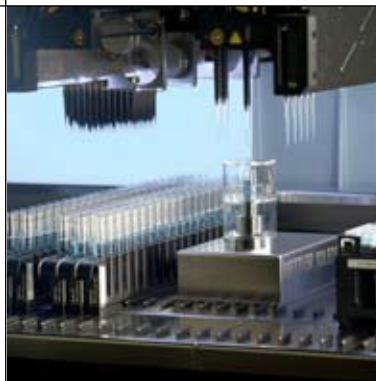


GMP-compatible filling of active substances.
(Picture: Lobotech, Switzerland)



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.

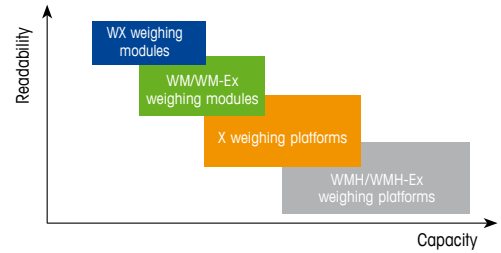


WM weighing modules in a testing system for car piston rods.
(Picture: Hofmann Mess- und Auswuchttechnik GmbH & Co. KG, Germany)

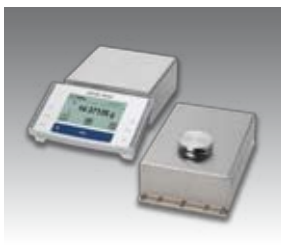
Innovative Products and Tailored Services

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).

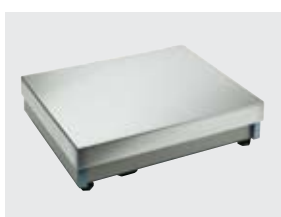
Capacity up to 6100 g
Readability down to 0.1 mg



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

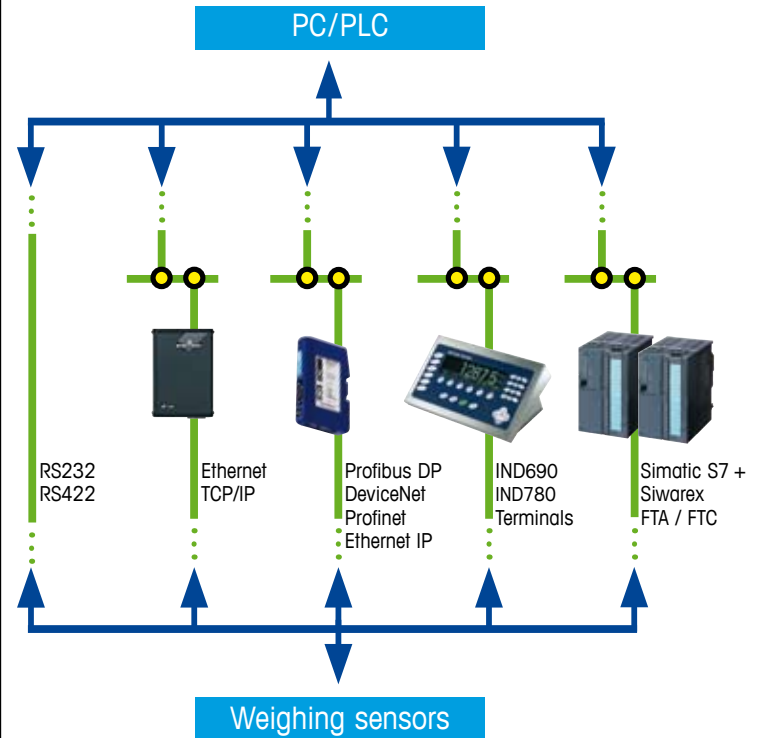


Strain gauge weigh mounts and load cells

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.

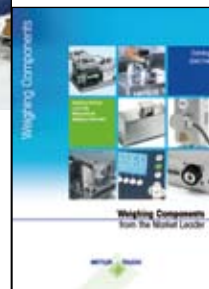


Engineering services

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.



Mettler-Toledo AG,
CH-8606 Greifensee, Switzerland
Phone +41-44-944 22 11
Fax +41-44-944 30 60

Australia	Mettler-Toledo Ltd. , Port Melbourne, Victoria 3207 Tel. (03) 9644 57 00, Fax (03) 9645 39 35
Austria	Mettler-Toledo GmbH. , A-1230 Wien Tel. (01) 604 19 80, Fax (01) 604 28 80
Belgium	Mettler-Toledo s.a. , B-1932 Zaventem Tel. (02) 334 02 11, Fax (02) 334 03 34
Brazil	Mettler-Toledo Ltda. , 06455-000 Barueri/São Paulo Tel. (11) 7295 1692, Fax (11) 421 3459
Canada	Mettler-Toledo Inc. , Ontario, Canada Tel (800) 638-8537, Fax (905) 681-8036
China	Mettler-Toledo (Shanghai) Ltd. , Shanghai 200233 Tel. (21) 6485 04 35, Fax (21) 6485 33 51
Croatia	Mettler-Toledo, d.o.o. , HR-10000 Zagreb Tel. 01 29 58 130, Fax 01 29 58 140
Czech Republic	Mettler-Toledo, spol. s.r.o. , CZ-10000 Praha 10 Tel. 272 123 150, Fax 272 123 170
Denmark	Mettler-Toledo A/S , DK-2600 Glostrup Tel. (43) 270 800, Fax (43) 270 828
France	Mettler-Toledo s.a. , F-78222 Viroflay Tel. (01) 3097 17 17, Fax (01) 3097 16 16
Germany	Mettler-Toledo GmbH , D-35353 Giessen Tel. (0641) 50 70, Fax (0641) 507 128
HongKong	Mettler-Toledo (HK) Ltd. , Kowloon Tel. (852) 2744 1221, Fax (852) 2744 6878
Hungary	Mettler-Toledo, KFT , H-1139 Budapest Tel. (01) 288 40 40, Fax (01) 288 40 50
India	Mettler-Toledo India Pvt Ltd , Mumbai 400 072 Tel. + Fax (22) 2803 11 11
Italy	Mettler-Toledo S.p.A. , I-20026 Novate Milanese Tel. (02) 333 321, Fax (02) 356 29 73
Japan	Mettler-Toledo K.K. , Tokyo 143 Tel. (3) 5762 0606, Fax (3) 5762 0756
Korea	Mettler-Toledo (Korea) Ltd. , Seoul 137-130 Tel. 82-2-3498-3500, Fax 82-2-3498-3555
Kazakhstan	Mettler-Toledo Central Asia , 480009 Almaty Tel. (07) 3272 980 834, Fax (07) 3272 980 835
Malaysia	Mettler-Toledo (M) Sdn. Bhd. , 40150 Selangor Tel. (603) 784 55 773, Fax (603) 784 58 773
Mexico	Mettler-Toledo S.A. de C.V. , México C.P. 06430 Tel. (55) 5547 5700, Fax (55) 5547 2128
Netherlands	Mettler-Toledo B.V. , NL-4004 JK Tiel Tel. (0344) 638 363, Fax (0344) 638 390
Norway	Mettler-Toledo A/S , N-1008 Oslo Tel. 22 30 44 90, Fax 22 32 70 02
Poland	Mettler-Toledo, Sp. z o.o. , PL-02-822 Warszawa Tel. (22) 545 06 80, Fax (22) 545 06 88
Russia	Mettler-Toledo C.I.S. AG , 10 1000 Moskau Tel. (095) 921 92 11, Fax (095) 921 78 68
Singapore	Mettler-Toledo (S) Pte. Ltd. , Singapore 139959 Tel. 65-6890 0011, Fax 65-6890 0012
Slovakia	Mettler-Toledo , SK-83103 Bratislava Tel. (02) 4444 12 20-2, Fax (02) 4444 12 23
Slovenia	Mettler-Toledo, d.o.o. , SI-1236 Trzin Tel. (01) 530 8050, Fax (01) 562 1789
Spain	Mettler-Toledo S.A.E. , E-08908 Barcelona Tel. (93) 223 76 00, Fax (93) 223 76 01
Sweden	Mettler-Toledo AB , S-12008 Stockholm Tel. (08) 702 50 00, Fax (08) 642 45 62
Switzerland	Mettler-Toledo (Schweiz) GmbH , CH-8606 Greifensee Tel. (044) 944 45 45, Fax (044) 944 45 10
Thailand	Mettler-Toledo (Thailand) Ltd. , Bangkok 10320 Tel. 66-2-723 0300, Fax 66-2-719 6479
Taiwan	Mettler-Toledo Pac Rim AG , Taipei Tel. (2) 2657 8898, Fax (2) 2657 0776
United Kingdom	Mettler-Toledo Ltd. , Leicester, LE4 1AW Tel. (0116) 235 70 70, Fax (0116) 236 5500
United States	Mettler-Toledo, Inc. , Columbus, OH 43240 Tel. 800-METTLER, Fax (614) 438 4900

For all other countries

Mettler-Toledo AG
PO Box VI-400, CH-8606 Greifensee
Tel. +41-44-944 22 11, Fax +41-44-944 31 70

Subject to technical changes
© 3/2008 Mettler-Toledo AG
Printed in Switzerland 11795606

www.mt.com/OEM-weighing

nefton
Зύγιση
Σημανση
Συμπόρωση

Νεφτων Τεχνολογίες ΑΒΕΕ
Γέφυρα 113, Τ.Θ. 67934
15344 Γέφυρα
Τηλ: 210 6654544
Fax: 210 6654546
marketing@nefton.gr
www.nefton.gr



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.