

OIML and ASTM Weights



Comprehensive Portfolio

WeightLink™

CarePacs®

Signature Line E1, E2, F1

Standard Line E2, F1

Basic Line F1, F2, M1

ASTM Classes 1 – 4

Industrial Weights F1 – M3

Accessories

Expertly Crafted Weights
for Consistent Performance

METTLER TOLEDO

Unrivaled Expertise

Brought to You With Passion

METTLER TOLEDO's world leading expertise in metrology extends to weights, weight sets and weight calibration services. The weight portfolio covers ANSI/ASTM and OIML weights from fifty micrograms to five tons in all accuracy classes. Our weights are used all over the world, not only for testing balances but also as primary standards in mass laboratories.



Vacuum melted steel for highest material purity

Vacuum melting of steel ensures consistent high quality through reduction of undesired trace elements, removal of dissolved gases and improvement of oxide cleanliness.

Page 4

Expertise



Overview of weight portfolio, technical specifications and weight calibration services.

6

Weight Calibration Service



Description of calibration service for weights.

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CarePacs® for Routine Testing



Benefits of routine testing with CarePacs®.



10

Weight Verification System



How to guarantee fully traceable balance testing with WeightLink™.

12

Traceability and Weight Classes

	E1	E2	F1
	mg	mg	mg
5000 kg			25000
3000 kg			
2000 kg			10000
1000 kg		1600	5000
500 kg		800	2500
300 kg			
200 kg		300	1000
100 kg		160	500
50 kg	25	80	250

OIML weight tolerances and traceability chart.

14

Order Numbers

△	△	△	△
△△	△△	△△	△△
△	△	△	△
△	△	△	△
△△	△△	△△	△△
△	△	△	△
△	△	△	△
△△	△△	△△	△△
△	△	△	△

Order numbers of complete weight portfolio.

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NoWait Weights



Waiting can be frustrating! Our most common CarePacs and weights are guaranteed in stock.

An Extensive Weight Portfolio at Reasonable Cost

Choose from a comprehensive selection of weights and related calibration services. We offer you weights and services of the highest quality – even for users with limited budget. Building on many years of experience and customer feedback, our weight boxes and accessories have an unmatched reputation. Profit from short recalibration times and trustworthy services with our global network of accredited mass laboratories.



Polishing is an industrial art

Experience and specialist skills acquired through years' of weight polishing guarantee the consistent high quality our customers demand.

OIML Weights



Weights are available in OIML classes E1, E2, F1, F2, M1, M2 and M3 matching all requirements of OIML R111. Nominal values range from 50 µg to 5 tons, satisfying all industry and customer specific needs.

ANSI/ASTM Weights



ASTM weights are available in classes 1 – 4 matching requirements of ANSI / ASTM E617. Nominal values range from 1 mg to 20 kg, satisfying all industry and customer specific needs.

Design and Construction



All weights are made of premium stainless steel to make them corrosion resistant. Monobloc weights are specially designed for long term stability, and weights with an adjusting cavity provide best value for money. Electrolytic polishing ensures glossy surfaces for anti adhesion effects.

Technical Specifications



Magnetization and susceptibility of all weights are strictly controlled to ensure compliance with standards. The steel used is vacuum melted and has a density of 8.0 kg/dm³, a homogenous structure, and best purity.



Traceability of Weights



All weights are manufactured with reference and traceability to the International Prototype Kilogram at the BIPM (International Bureau of Weights and Measures) near Paris. In addition, METTLER TOLEDO's WeightLink™ system guarantees fully traceable balance testing.

Weight Boxes



Traditional wooden boxes are still preferred in many mass labs while plastic and aluminum boxes better serve regulated and other industries. Impact resistant boxes and high quality foam inserts do not show any dissolve effects or residues even after years of use. Labels are tested for high resistance against cleaning liquids.

Weight Calibration



A global network of weight calibration laboratories, in Switzerland and other key markets, guarantee a fast and cost effective calibration service regardless of where you are based.

Accessories



Ergonomic tweezers and weight forks as well as clean-room approved gloves and cleaning cloths meet highest requirements of all industries and assure professional testing.

Weight Calibration

the Cornerstone for Secure Testing

Accurately calibrated weights are the basis of accurate weighing results. Balances should always be checked with reference weights you can rely on and trust. At our accredited mass laboratories, we clean, calibrate, adjust and document the results in a calibration certificate. The calibration services cover the basic reporting of conventional mass correction, uncertainty and traceability information in accordance with ISO/IEC 17025 requirements.



Unique weight adjustment procedure

Electrolytic adjustment of weights is a unique technique of METTLER TOLEDO to achieve surface smoothness which far exceeds required specifications.



Reference weight
Test weight
Turn table

Offering*

- Calibration by ISO/IEC 17025 accredited laboratory ("as left" values)
- Traceable, accredited calibration certificate
- Statement of conformity for the accuracy class
- Certificates in English (other languages on request)
- Professional weight cleaning
- Faulty weights replaced by METTLER TOLEDO original weights
- Re-adjustment of adjustable weights
- Statement of additional "as found" values (e.g. before cleaning or before adjustment)
- Reminder service from METTLER TOLEDO for weights due for calibration
- Priority service for quickest turn-around time
- Archiving of calibration history of weights

* Offering may vary from country to country

Feature	Benefit
Accredited Mass Laboratory	Accreditation in accordance with ISO/IEC 17025 ensures independent auditing of a labs technical competence
Weight cleaning	Each weight is returned to its original state to ensure the same conditions for every balance test
Re-adjustment of weights	Out of specification weights are adjusted to save costs, and weights can be used again for calibration purposes



Refer to page 26



Benefits of calibrating your weights at METTLER TOLEDO:

- The only company in the world with a global network of weight calibration laboratories
- Network allows competence testing among own mass laboratories and with other partners in the industry
- Global leader in manufacturing state-of-the-art mass comparators, which are used in our mass laboratories
- All accredited mass laboratories meet or exceed ISO/IEC 17025, FDA, GMP, and requirements of nuclear industry
- Dense network ensures short turn around time for weight recalibration



Weight Calibration Process

Weight calibration by an accredited Mass Laboratory under the scope of ISO/IEC 17025 is the only way to obtain accurate and reliable data. METTLER TOLEDO's weight calibration process is shown below.



Each weight is cleaned prior to the actual calibration process to ensure defined conditions for each calibration.



Stabilization of cleaned weights is important to ensure stable surface conditions prior to calibration.



Weight calibration process is performed following procedures of ISO/IEC 17025.



A certificate is provided with all the calibration results. With WeightLink™, calibration results are also stored in a data matrix code (eData).

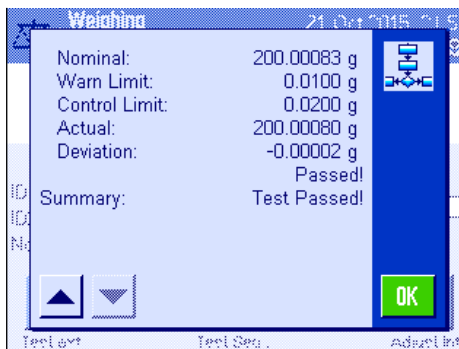
Professional CarePacs®

for Smooth Routine Testing

Test your balances securely, and in accordance with USP <41>, by using just two weights to test at 5% and 100% of the capacity of each balance. Not only is this unique approach much faster, but purchasing and recalibration costs are substantially reduced. CarePacs® include tweezers, gloves and other accessories for professional weight handling.



Three sizes of CarePacs® allow testing of balances up to 8 kg weighing capacity.



Maintain Process Tolerances

Fully supporting routine testing with external weights, CarePacs® offer a convenient and cost-effective way of limiting the risk of working outside of specified process tolerances.



WeightLink™ Ensures Full Traceability

This unique weight identification system works with the balance firmware to cross-check the weight against its calibration certificate, making it impossible to test using the wrong weight. With weight parameters transferred electronically to the balance, the system guarantees full traceability. See page 10.



CarePac® Small

**Certificate Data
Always to Hand**

The WeightLink™ eData Card contains the information on the calibration certificate in the form of a 2D data matrix code. The code is linked to the machine readable ID on the base of the WeightLink™ weight.



Save Time and Money

Routine testing is performed with just two weights corresponding to the maximum and minimum loads. Weights are specified to validate process tolerances up to 0.03%.



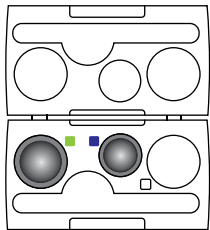
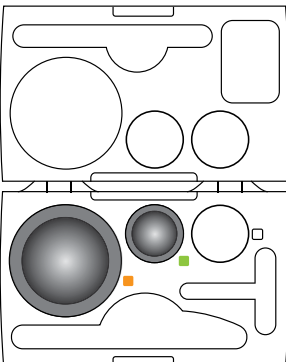
Customer-specific 3rd Weight

CarePacs® offer the option to add a third weight to accommodate individual testing requirements, e.g. minimum weight determination.



**Security through Superior
Accessories**

Ergonomic tweezers (or weight forks for larger weights) as well as clean-room approved gloves and cleaning cloths meet the highest industry requirements and assure professional testing.

CarePac® Sizes	Small	Medium	Large
Balance Max. Load	Up to 490 g	From 500 g to 4900 g	From 5 kg to 8 kg
			

For more information:
www.mt.com/carepacs

Weight Verification System for Traceable Balance Testing

In our innovative WeightLink™ system, every test weight has a unique identification number (JIN) on the base which <links> it to its calibration certificate. Calibration and certificate data are stored in a data matrix code (DMC). The dedicated DMC Scanner reads the two codes and sends the information to the balance. The balance firmware validates the certificate and weight data before allowing the balance test to begin.

With this highly efficient system, it is impossible to test using the wrong weight and the risk of errors from manual data entry is completely eliminated. Full traceability is assured in 4 easy steps:

- Scan certificate data
- Scan weight
- Perform balance test
- Print report

Proven Traceability



The built-in balance testing application records the weight-specific data and the test results. A detailed test report can be printed out with an external printer to provide full documentation of the performed balance test.

Enhanced Security

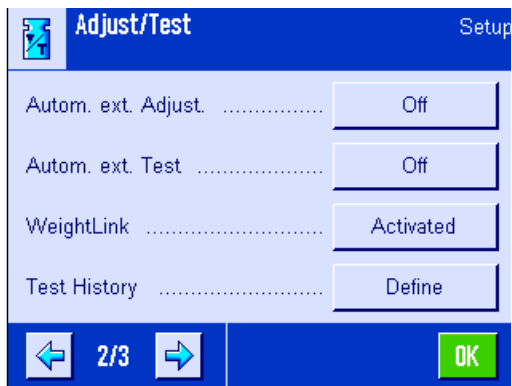


WeightLink™ will only allow the use of a valid test weight. Verification of the test weight prior to use means you can rest assured that your testing procedures are fully compliant.

Improved Productivity



Automatic data transfer of weight parameters into the balance firmware is much faster than manual data entry and removes the need to check and re-check handwritten entries. Printing out results is quick and easy.



Easy Setup

WeightLink™ weights are available from 1 g to 5 kg and the data matrix scanner simply plugs into the back of your balance. Your local METTLER TOLEDO representative can advise you on compatible balance firmware versions.

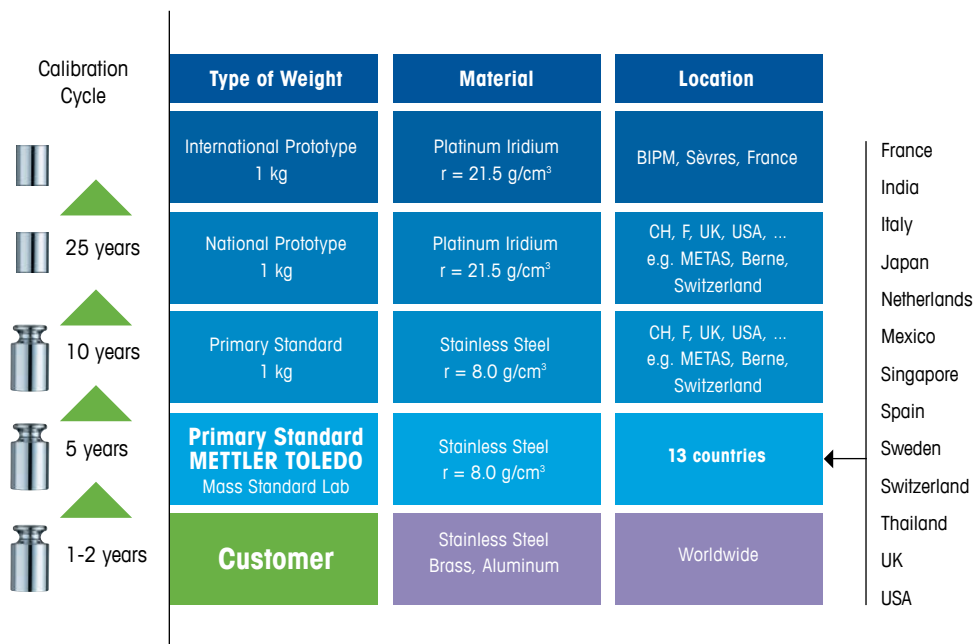
► www.mt.com/weights

Traceable Weights Translate into Trustworthy Results

Traceability is defined in the International Vocabulary of Basic and General Terms in Metrology (ISO, 2008) as the «property of a measurement whereby the result can be related to a reference, through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty.»

All of METTLER TOLEDO’s calibration laboratories for weights are accredited to ISO/IEC 17025 and arrange for the following to ensure traceability of calibrated weights:

- An **unbroken chain of comparisons** is achieved by using primary standards which are traceable to national and international standards, and finally to the prototype kilogram at the International Bureau of Weights and Measures (BIPM) in Sèvres, near Paris.
- **Measurement uncertainty**, assigned to each calibration, and clearly stated on the calibration certificates for weights.
- **Documentation**, normally a calibration certificate, showing all results including uncertainties and other information required by the standard ISO/IEC 17025.
- **Competence**, demonstrated by actively participating in proficiency testing in cooperation with industry and government partners.
- All weight referencies are metrologically traceable to **SI unit of mass**.
- **Recalibrations** of primary, working and check standards at appropriate intervals, which insures their accuracy and traceability.



OIML and ASTM Tolerances

International Organization of
Legal Metrology Recommendation R111

	E1	E2	F1	F2	M1	M2	M3
	mg	mg	mg	mg	mg	mg	mg
5000 kg			25000	80000	250000	800000	2500000
3000 kg							
2000 kg			10000	30000	100000	300000	1000000
1000 kg		1600	5000	16000	50000	160000	500000
500 kg		800	2500	8000	25000	80000	250000
300 kg							
200 kg		300	1000	3000	10000	30000	100000
100 kg		160	500	1600	5000	16000	50000
50 kg	25	80	250	800	2500	8000	25000
30 kg							
25 kg							
20 kg	10	30	100	300	1000	3000	10000
10 kg	5	16	50	160	500	1600	5000
5 kg	2.5	8.0	25	80	250	800	2500
3 kg							
2 kg	1	3	10	30	100	300	1000
1 kg	0.5	1.6	5	16	50	160	500
500 g	0.25	0.8	2.5	8.0	25	80	250
300 g							
200 g	0.1	0.3	1.0	3	10	30	100
100 g	0.05	0.16	0.5	1.6	5.0	16	50
50 g	0.03	0.10	0.3	1.0	3.0	10	30
30 g							
20 g	0.025	0.08	0.25	0.8	2.5	8.0	25
10 g	0.020	0.06	0.20	0.6	2.0	6.0	20
5 g	0.016	0.05	0.16	0.5	1.6	5.0	16
3 g							
2 g	0.012	0.04	0.12	0.4	1.2	4.0	12
1 g	0.010	0.03	0.10	0.3	1.0	3.0	10
500 mg	0.008	0.025	0.08	0.25	0.8	2.5	
300 mg							
200 mg	0.006	0.020	0.06	0.20	0.6	2.0	
100 mg	0.005	0.016	0.05	0.16	0.5	1.6	
50 mg	0.004	0.012	0.04	0.12	0.4		
30 mg							
20 mg	0.003	0.010	0.030	0.10	0.30		
10 mg	0.003	0.008	0.025	0.08	0.25		
5 mg	0.003	0.006	0.020	0.06	0.20		
3 mg							
2 mg	0.003	0.006	0.020	0.06	0.20		
1 mg	0.003	0.006	0.020	0.06	0.20		

ANSI/ASTM
E617

0	1	2	3	4	5	6	7
mg	mg	mg	mg	g/mg	g/mg	g/mg	g/mg
				100 g	250 g	500 g	750 g
				60 g	150 g	300 g	450 g
				40 g	100 g	200 g	300 g
				20 g	50 g	100 g	150 g
				10 g	25 g	50 g	75 g
				6 g	15 g	30 g	45 g
				4 g	10 g	20 g	30 g
				2 g	5 g	10 g	15 g
63	125	250	500	1 g	2.5 g	5 g	7.5 g
38	75	150	300	600 mg	1.5 g	3 g	4.5 g
31	62	125	250	500	1.2 g	2.5 g	4.5 g
25	50	100	200	400	1.0 g	2 g	3.8 g
13	25	50	100	200	500 mg	1 g	2.2 g
6	12	25	50	100	250	500 mg	1.4 g
3.8	7.5	15	30	60	150	300	1.0 g
2.5	5	10	20	40	100	200	750 mg
1.3	2.5	5	10	20	50	100	470
0.6	1.2	2.5	5	10	30	50	300
0.38	0.75	1.5	3	6	20	30	210
0.25	0.5	1	2	4	15	20	160
0.13	0.25	0.5	1	2	9	10	100
0.06	0.12	0.25	0.6	1.2	5.6	7	...
0.037	0.074	0.15	0.45	0.9	4	5	44
0.037	0.074	0.1	0.35	0.7	3	3	33
0.025	0.05	0.074	0.25	0.5	2	2	21
0.017	0.034	0.054	0.18	0.36	1.3	2	13
0.017	0.034	0.054	0.15	0.3	0.95	2.0	9.4
0.017	0.034	0.054	0.13	0.26	0.75	2.0	7
0.017	0.034	0.054	0.1	0.2	0.5	2.0	4.5
0.005	0.01	0.025	0.08	0.16	0.38	1	3
0.005	0.01	0.025	0.07	0.14	0.3	1	2.2
0.005	0.01	0.025	0.06	0.12	0.26	1	1.8
0.005	0.01	0.025	0.05	0.1	0.2	1	1.2
0.005	0.01	0.014	0.042	0.085	0.16	0.5	0.88
0.005	0.01	0.014	0.038	0.075	0.14	0.5	0.68
0.005	0.01	0.014	0.035	0.07	0.12	0.5	0.56
0.005	0.01	0.014	0.03	0.06	0.1	0.5	0.4
0.005	0.01	0.014	0.028	0.055	0.08	0.2	...
0.005	0.01	0.014	0.026	0.052	0.07	0.2	...
0.005	0.01	0.014	0.025	0.05	0.06	0.2	...
0.005	0.01	0.014	0.025	0.05	0.05	0.1	...

The nominal weight values in this table specify the smallest and largest weight permitted in any class of R 111 (for OIML weights), and E617 (for ASTM weights), and the maximum permissible errors and denominations shall not be extrapolated to higher or lower values. For example, the smallest nominal value for a weight in OIML class M2 is 100 mg while the largest is 5000 kg. A 50 mg weight would not be accepted as an R 111 class M2 weight and instead should meet class M1 maximum permissible errors and other requirements (e.g., shape or markings) for that class of weight. Otherwise the weight cannot be described as complying with R 111-1:2004.



International Prototype Kilogram (IPK) at BIPM, a cylinder made of 90% platinum and 10% iridium.



Order Numbers



15 CarePacs® and WeightLink™ CarePacs®

For balances with max. load of 8 kg



16 Signature Line Weights and WeightLink™ Calibration Weights

Monobloc weights of OIML Classes:



18 Standard Line Weights

Monobloc weights of OIML Classes:



20 Basic Line Weights

Weights with adjusting cavity of OIML Classes:



22 ASTM Weights

Weights with adjusting cavity of ASTM Classes:



24 Industrial Weights

Weights with adjusting cavity of OIML Classes:



25 Accessories

For professional weight handling

Color Code

ASTM



For tolerances refer to page 13

For quotes or technical information regarding weights please use the email address below.

[▶ weights@mt.com](mailto:weights@mt.com)

CarePac® S

Weighing ranges
up to 490 g

	Balances									
			XPE205DR		XPE105					
			XPE204		XP105					
			XP205		XSE105DU					
			XP205S	ML304T	XSE104					
			XP204S	MS205T	XS105					
			XP203S	MS304TS	XS104					
			XSE204	MS204TS	XA105					
			XS205	MS303TS	MS105T	XP56				
	XP404S		XS204	ML204T	MS104TS	XS64				
	XS403S		XS203S	ML203T	HS153	ML54T				
	MS403TS		HX204	ML303T	HC103	HE73				
						HE53	XP26	XPR6	XPR2	XS3
OIML										
Nominal weight and class	200 g F2	200 g F2			100 g F2	50 g F2	20 g F1	5 g E2	2 g E2	
	20 g F1	10 g F1			5 g E2	2 g E2	1 g E2	0.2 g E2	0.1 g E2	
CarePac® S	11123000	11123001			11123002	11123003	11123006	11123005	11123004	
WeightLink™ CarePac® S	30293475	30293476			30293477	30293478	30293481	30293480	30293479	



ASTM

Nominal weight and class	200 g 1	200 g 1	100 g 1	50 g 1	50 g 1	5 g 1	2 g 1
	20 g 1	10 g 1	5 g 1	2 g 1	1 g 1	0.2 g 1	0.1 g 1
CarePac® S	11123100	11123101	11123102	11123103	11123106	11123105	11123104
WeightLink™ CarePac® S	30293463	30293464	30293465	30293466	30293469	30293468	30293467

CarePac® M

Weighing ranges
500 g – 4900 g

	Balances									
			XPE504							
			XP504							
			XP603S		MS1003TS	XP2003S		MS4002TS		XP5003S
			XP802S	MS603TS	XP1203S	MS1602TS	XP2002S	MS3002TS		XP8002S
			XS603S	ML503T	XP1202S	ML1602T	XP2001S	ML3002T		XP6002S
			XS802S	ML802T	XS1003S	ML1502T	XS2002S	ML2001T		XS8001S
										XS6001S
										XP6001S
										MS6002TS
										XS5003S
										MS8001TS
										XS6002S
										ML6001T
OIML										
Nominal weight and class	500 g F2	1000 g F2	2000 g F2	2000 g F2						5000 g F2
	20 g F1	50 g F2	100 g F2	200 g F2						200 g F2
CarePac® M / L	11123007	11123008	11123009	11123010						11123011
WeightLink™ CarePac® M / L	30293482	30293483	30293484	30293485						30293486
ASTM										
Nominal weight and class	500 g 1	1000 g 1	2000 g 1	2000 g 4						5000 g 4
	20 g 1	50 g 1	100 g 1	200 g 4						200 g 4
CarePac® M / L	11123107	11123108	11123109	11123110						11123111
WeightLink™ CarePac® M / L	30293470	30293471	30293472	30293473						30293474



CarePac® L

Weighing ranges
5 kg – 8 kg

3rd Weight for customized testing

Value	OIML Class E2	Value	OIML Class E2	WeightLink™ OIML Class E2	ASTM Class 1	WeightLink™ ASTM Class 1
1 mg	11123044	1 g	11123053	30293554	11123153	30293487
2 mg	11123045	2 g	11123054	30293555	11123154	30293488
5 mg	11123046	5 g	11123055	30293556	11123155	30293489
10 mg	11123047	10 g	11123056	30293557	11123156	30293490
20 mg	11123048	20 g	11123057	30293558	11123156	30293491
50 mg	11123049	50 g	11123058	30293559	11123158	30293492
100 mg	11123050	100 g	11123059	30293560	11123159	30293493
200 mg	11123051					
500 mg	11123052					

Data Matrix Code Scanner

WeightLink™ DMC Scanner	30268560
WeightLink™ DMC Scanner + RS232 option	30304696



* Please visit our website to see the full range of CarePacs® available.

www.mt.com/carepacs

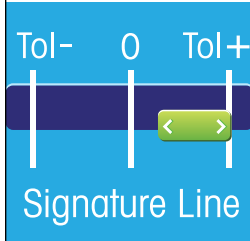
Signature Line

OIML E1, E2 and F1



The Signature Line offers more than perfection. Hand selected weights with guaranteed positive tolerances and a lifetime guarantee make these weights the first choice for ambitious testing purposes.

Guaranteed Positive Tolerances



The unique electrolytic adjustment procedure combined with robotic calibrations allows selective production of weights in the positive tolerance range.

Full Lifetime Guarantee

- Quality
- Accuracy
- Service
- Guarantee

The "Stay-in-tolerance" lifetime guarantee means that if ever a weight should be found out of tolerance it will be replaced free of charge.



High-grade stainless steel, vacuum melted
Density: 8.0 kg/dm³
Magnetic susceptibility < 0.01
One-piece design (Monobloc)

- Weight and Box
- Weight and Box, **including Certificate**
- WeightLink™ weight, **including Certificate and eData**
- Wire weight
- Marked wire weight
- Cylindrical weight with knob
- Marked cylindrical weight with knob

Individual Weights

Nominal value	Shape	E1		E2	
		Order number Wooden Box	Order number Plastic Box	Order number Plastic Box	Order number WeightLink™
1 mg	△	00159000	00159001	30003706	-
2 mg	△	00159010	00159011	30003707	-
5 mg	△	00159020	00159021	30003710	-
10 mg	△	00159030	00159031	30003711	-
20 mg	△	00159040	00159041	30003712	-
50 mg	△	00159050	00159051	30003713	-
100 mg	△	00159060	00159061	30003714	-
200 mg	△	00159070	00159071	30003715	-
500 mg	△	00159080	00159081	30003716	-
1 g	■	00159090	00159091	30003717	30293502
2 g	■	00159100	00159101	30003718	30293503
5 g	■	00159110	00159111	30003719	30293504
10 g	■	00159120	00159121	30003720	30293505
20 g	■	00159130	00159131	30003721	30293506
50 g	■	00159140	00159141	30003722	30293507
100 g	■	00159150	00159151	30003723	30293508
200 g	■	00159160	00159161	30003724	30293509
500 g	■	00159170	00159171	30003725	30293550
1 kg	■	00159180	00159181	30003726	30293551
2 kg	■	00159190	00159191	30003727	30293552
5 kg	■	00159200	00159201	30003728	30293553
10 kg	■	00159210	00159211	30003729	-
20 kg	■	00159220	00159221	30003730	-
50 kg	■	00159230	00159231	30003731	-

Individual Weights

Nominal value	Shape	F1	
		Order number Plastic Box	Order number WeightLink™
1 mg	△	30003743	-
2 mg	△	30003744	-
5 mg	△	30003745	-
10 mg	△	30003746	-
20 mg	△	30003747	-
50 mg	△	30003748	-
100 mg	△	30003749	-
200 mg	△	30003750	-
500 mg	△	30003751	-
1 g	■	30003752	30293561
2 g	■	30003753	30293562
5 g	■	30003754	30293563
10 g	■	30003755	30293564
20 g	■	30003756	30293565
50 g	■	30003757	30293566
100 g	■	30003758	30293567
200 g	■	30003759	30293568
500 g	■	30003760	30293569
1 kg	■	30003761	30293570
2 kg	■	30003762	30293571
5 kg	■	30003763	30293572
10 kg	■	30003764	-
20 kg	■	30003765	-
50 kg	■	30003766	-

Weight Sets

	E1									E2								
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g	1 mg 1 kg	1 kg 5 kg	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g	1 kg 5 kg	
1 mg	△	△	△	△	△			△△		△	△	△	△	△				
2 mg	△△	△△	△△	△△	△△			△△		△△	△△	△△	△△	△△				
5 mg	△	△	△	△	△			△△		△	△	△	△	△				
10 mg	△	△	△	△	△			△△		△	△	△	△	△				
20 mg	△△	△△	△△	△△	△△			△△		△△	△△	△△	△△	△△				
50 mg	△	△	△	△	△			△△		△	△	△	△	△				
100 mg	△	△	△	△	△			△△		△	△	△	△	△				
200 mg	△△	△△	△△	△△	△△			△△		△△	△△	△△	△△	△△				
500 mg	△	△	△	△	△			△△		△	△	△	△	△				
1 g		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
2 g		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
5 g		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
10 g		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
20 g		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
50 g		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
100 g		■	■	■	■		■	■	■		■	■	■	■		■	■	
200 g		■	■	■	■		■	■	■		■	■	■	■		■	■	
500 g			■	■	■		■	■	■			■	■	■		■	■	
1 kg			■	■	■			■	■		■	■	■				■	
2 kg				■	■				■			■	■				■	
5 kg					■				■				■				■	
No. of Weights	12	23	25	27	28	8	12	38	4	12	23	25	27	28	8	12	4	
Wooden Box	00159300	00159340	00159350	11117614	11117616	00159310	00159320	00159360	00159330									
	00159301	00159341	00159351	11117615	11117617	00159311	00159321	00159361	00159331									
Aluminum Box	-	-	-	-	-	-	-	-	-	30003732	30003734	30003735	30003736	30003737	30003738	30003739	30003740	



Weight Sets

	F1							
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g	1 kg 5 kg
1 mg	△	△	△	△	△			
2 mg	△△	△△	△△	△△	△△			
5 mg	△	△	△	△	△			
10 mg	△	△	△	△	△			
20 mg	△△	△△	△△	△△	△△			
50 mg	△	△	△	△	△			
100 mg	△	△	△	△	△			
200 mg	△△	△△	△△	△△	△△			
500 mg	△	△	△	△	△			
1 g		■	■	■	■	■	■	
2 g		■	■	■	■	■	■	
5 g		■	■	■	■	■	■	
10 g		■	■	■	■	■	■	
20 g		■	■	■	■	■	■	
50 g		■	■	■	■	■	■	
100 g		■	■	■	■		■	
200 g		■	■	■	■		■	
500 g			■	■	■		■	
1 kg			■	■	■			■
2 kg				■	■			■
5 kg					■			■
No. of Weights	12	23	25	27	28	8	12	4
Aluminum Box	-	-	-	-	-	-	-	-
Box	30003767	30003768	30003769	30003770	30003771	30003772	30003773	30003774

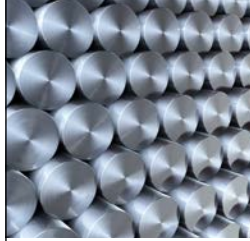
Standard Line

OIML E2 and F1



Uncompromising selection of steel and rigorous control of manufacturing processes make these weights the excellent choice for balance calibration and testing. The proven one-piece design (monobloc) guarantees best long term stability and accurate testing results.

Austenitic Stainless Steel



Specially used, stainless steel ensures an anti-corrosive surface with low magnetization and susceptibility values.

Solid, one-piece Construction



The one-piece construction and high-gloss polished surface offer best long term stability.

Stainless steel
Density: 7.9 kg/dm³

- Weight and Box
- Weight and Box, **including Certificate**



Calibration at ISO 17025:2005
A2LA accredited lab
Worthington, OH

- Sheet weight
- Marked sheet weight
- Cylindrical weight with knob
- Marked cylindrical weight with knob

Individual Weights

E2

Nominal value	Shape	Order number Weight in Plastic Box	
1 mg	<input type="checkbox"/>	30014210	00158307
2 mg	<input type="checkbox"/>	30014211	00158317
5 mg	<input type="checkbox"/>	30014212	00158327
10 mg	<input type="checkbox"/>	30014213	00158337
20 mg	<input type="checkbox"/>	30014214	00158347
50 mg	<input type="checkbox"/>	30014215	00158357
100 mg	<input type="checkbox"/>	30014216	00158367
200 mg	<input type="checkbox"/>	30014217	00158377
500 mg	<input type="checkbox"/>	30014218	00158387
1 g	<input checked="" type="checkbox"/>	30014219	00158397
2 g	<input checked="" type="checkbox"/>	30014220	00158407
5 g	<input checked="" type="checkbox"/>	30014221	00158417
10 g	<input checked="" type="checkbox"/>	30014222	00158427
20 g	<input checked="" type="checkbox"/>	30014223	00158437
50 g	<input checked="" type="checkbox"/>	30014224	00158447
100 g	<input checked="" type="checkbox"/>	30014225	00158457
200 g	<input checked="" type="checkbox"/>	30014226	00158467
500 g	<input checked="" type="checkbox"/>	30014227	00158477
1 kg	<input checked="" type="checkbox"/>	30014228	00158487
2 kg	<input checked="" type="checkbox"/>	30014229	00158497
5 kg	<input checked="" type="checkbox"/>	30014230	00158507
10 kg	<input checked="" type="checkbox"/>	30014231	00158517
20 kg	<input checked="" type="checkbox"/>	30014232	00158527

Individual Weights

F1

Nominal value	Shape	Order number Weight in Plastic Box	
1 mg	<input type="checkbox"/>	30014241	00159417
2 mg	<input type="checkbox"/>	30014242	00159427
5 mg	<input type="checkbox"/>	30014243	00159437
10 mg	<input type="checkbox"/>	30014244	00159447
20 mg	<input type="checkbox"/>	30014245	00159457
50 mg	<input type="checkbox"/>	30014246	00159467
100 mg	<input type="checkbox"/>	30014247	00159477
200 mg	<input type="checkbox"/>	30014248	00159487
500 mg	<input type="checkbox"/>	30014249	00159497
1 g	<input checked="" type="checkbox"/>	30014250	00158607
2 g	<input checked="" type="checkbox"/>	30014251	00158617
5 g	<input checked="" type="checkbox"/>	30014252	00158627
10 g	<input checked="" type="checkbox"/>	30014253	00158637
20 g	<input checked="" type="checkbox"/>	30014254	00158647
50 g	<input checked="" type="checkbox"/>	30014255	00158657
100 g	<input checked="" type="checkbox"/>	30014256	00158667
200 g	<input checked="" type="checkbox"/>	30014257	00158677
500 g	<input checked="" type="checkbox"/>	30014258	00158687
1 kg	<input checked="" type="checkbox"/>	30014259	00158697
2 kg	<input checked="" type="checkbox"/>	30014260	00158707
5 kg	<input checked="" type="checkbox"/>	30014261	00158717
10 kg	<input checked="" type="checkbox"/>	30014262	00158727
20 kg	<input checked="" type="checkbox"/>	30014263	00158737

Weight Sets	E2							
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g	1 kg 5 kg
1 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
5 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
10 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
20 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
50 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
100 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
200 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
500 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
1 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
100 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
200 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
500 g			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
1 kg			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
2 kg				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
5 kg					<input type="checkbox"/>			<input type="checkbox"/>
No. of Weights	12	23	25	27	28	8	12	4
Weights in Plastic Box	30014233 00158807	30014234 00158847	30014235 00158857	30014236 11117322	30014237 11117324	30014238 00158817	30014239 00158827	30014240 11125901

Weight Sets	F1							
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g	1 kg 5 kg
1 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
5 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
10 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
20 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
50 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
100 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
200 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
500 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
1 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
100 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
200 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
500 g			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
1 kg			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
2 kg				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
5 kg					<input type="checkbox"/>			<input type="checkbox"/>
No. of Weights	12	23	25	27	28	8	12	4
Weights in Plastic Box	30014264 00161707	30014265 00158907	30014266 00158917	30014267 11119980	30014268 11119982	30014269 00158877	30014270 00158887	30014271 11125908



Basic Line

OIML F1, F2 and M1



Proven technology and competitive prices make Basic Line weights a cost effective solution for general testing purposes. All weights are made of stainless steel, even for mg weights no aluminum is used. Weights are manufactured under METTLER TOLEDO's stringent ISO9001 quality management system.

Economical Production



The adjustable cavity (AC) design can be manufactured more economically, making these weights affordable even for smaller budgets.

Clean-room Suitability



All Basic Line weights are protected in robust and easy to clean plastic boxes. FDA approved materials, including foam inserts, make them a perfect solution for regulated industries.



Stainless steel
Density: 7.9 kg/dm³

- Weight and Box
- Weight and Box, including Certificate



Calibration at ISO 17025:2005
A2LA accredited lab
Worthington, OH

- Sheet weight
- Marked sheet weight
- Cylindrical weight with knob
- Marked cylindrical weight with knob

Individual Weights

Nominal value	Shape	F1		F2		M1	
		Order number Plastic Box	Order number Plastic Box	Order number Plastic Box	Order number Plastic Box		
1 mg	<input type="checkbox"/>	11119491	11119561	11119079	11118271	11117935	11117751
2 mg	<input type="checkbox"/>	11119492	11119562	11119080	11118272	11117936	11117752
5 mg	<input type="checkbox"/>	11119493	11119563	11119081	11118273	11117937	11117753
10 mg	<input type="checkbox"/>	11119494	11119564	11119082	11118274	11117938	11117754
20 mg	<input type="checkbox"/>	11119495	11119565	11119083	11118275	11117939	11117755
50 mg	<input type="checkbox"/>	11119496	11119566	11119084	11118276	11117940	11117756
100 mg	<input type="checkbox"/>	11119497	11119567	11119085	11118285	11117941	11117757
200 mg	<input type="checkbox"/>	11119498	11119568	11119086	11118286	11117942	11117758
500 mg	<input type="checkbox"/>	11119499	11119569	11119087	11118287	11117943	11117759
1 g	<input checked="" type="checkbox"/>	11119455	11119525	11119042	11118191	11118055	11117711
2 g	<input checked="" type="checkbox"/>	11119456	11119526	11119043	11118192	11118056	11117712
5 g	<input checked="" type="checkbox"/>	11119457	11119527	11119044	11118193	11118057	11117713
10 g	<input checked="" type="checkbox"/>	11119458	11119528	11119045	11118194	11118058	11117714
20 g	<input checked="" type="checkbox"/>	11119459	11119529	11119046	11118195	11118059	11117715
50 g	<input checked="" type="checkbox"/>	11119460	11119530	11119047	11118196	11118060	11117716
100 g	<input checked="" type="checkbox"/>	11119461	11119531	11119048	11118201	11118061	11117717
200 g	<input checked="" type="checkbox"/>	11119462	11119532	11119049	11118202	11118062	11117718
500 g	<input checked="" type="checkbox"/>	11119463	11119533	11119050	11118203	11118063	11117719
1 kg	<input checked="" type="checkbox"/>	11119464	11119534	11119051	11118204	11118064	11117721
2 kg	<input checked="" type="checkbox"/>	11119465	11119535	11119052	11118205	11118065	11117722
5 kg	<input checked="" type="checkbox"/>	11119466	11119536	11119053	11118206	11118066	11117723
10 kg	<input checked="" type="checkbox"/>	11119467	11119537	11119054	11118211	11118067	11117724
20 kg	<input checked="" type="checkbox"/>	11119468	11119538	11119055	11118212	11118068	11117725

Weight Sets

	F1						
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g
1 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
50 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
100 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
200 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
500 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
200 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
500 g			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
1 kg			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2 kg				<input type="checkbox"/>	<input type="checkbox"/>		
5 kg				<input type="checkbox"/>	<input type="checkbox"/>		
No. of Weights	12	23	25	27	28	8	12
Plastic Box	11119511	11119512	11119513	11119514	11119515	11119516	11119517
	11119581	11119582	11119583	11119584	11119585	11119586	11119587

F2

	F2						
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g
1 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
50 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
100 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
200 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
500 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
200 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
500 g			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
1 kg			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2 kg				<input type="checkbox"/>	<input type="checkbox"/>		
5 kg				<input type="checkbox"/>	<input type="checkbox"/>		
No. of Weights	12	23	25	27	28	8	12
Plastic Box	11118456	11118457	11118458	11118459	11118460	11118461	11118462
	11118339	11118340	11118341	11118342	11118343	11118344	11118345

Weight Sets

	M1						
	1 mg 500 mg	1 mg 200 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	1 g 50 g	1 g 500 g
1 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
50 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
100 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
200 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
500 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
200 g		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
500 g			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
1 kg			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2 kg				<input type="checkbox"/>	<input type="checkbox"/>		
5 kg				<input type="checkbox"/>	<input type="checkbox"/>		
No. of Weights	12	23	25	27	28	8	12
Plastic Box	11117862	11117863	11117864	11117865	11117866	11117867	11117868
	11117771	11117772	11117773	11117774	11117775	11117776	11117777

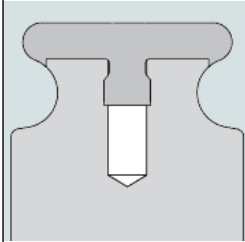
ASTM Weights

Classes 1–4



Low magnetic permeability and high corrosion resistance ensure reliable values. All weights are made of stainless steel, even for mg weights no aluminum is used. Weights are manufactured under METTLER TOLEDO's stringent ISO9001 quality management system.

Unique Design



METTLER TOLEDO ASTM knob weights are designed to resist dust and moisture intrusion offering long term stability.

High Gloss Polish



Experience combined with special skill acquired through years of weight polishing guarantee the consistent high quality our customers demand.

Stainless steel
Density: 7.9 kg/dm³

- Weight and Box
- Weight and Box, **including Certificate**



Calibration at ISO 17025:2005
A2LA accredited lab
Worthington, OH

- Sheet weight
- Marked sheet weight
- Cylindrical weight with knob
- Marked cylindrical weight with knob

Individual Weights

Nominal value	Shape	Class 1		Class 2		Class 3		Class 4	
		Order number	Weight in Plastic box	Order number	Weight in Plastic box	Order number	Weight in Plastic box	Order number	Weight in Plastic box
1 mg	<input type="checkbox"/>	11123446	11123469	11123492	11123515	11123538	11123561	11123584	11123607
2 mg	<input type="checkbox"/>	11123447	11123470	11123493	11123516	11123539	11123562	11123585	11123608
5 mg	<input type="checkbox"/>	11123448	11123471	11123494	11123517	11123540	11123563	11123586	11123609
10 mg	<input type="checkbox"/>	11123449	11123472	11123495	11123518	11123541	11123564	11123587	11123610
20 mg	<input type="checkbox"/>	11123450	11123473	11123496	11123519	11123542	11123565	11123588	11123611
50 mg	<input type="checkbox"/>	11123451	11123474	11123497	11123520	11123543	11123566	11123589	11123612
100 mg	<input type="checkbox"/>	11123452	11123475	11123498	11123521	11123544	11123567	11123590	11123613
200 mg	<input type="checkbox"/>	11123453	11123476	11123499	11123522	11123545	11123568	11123591	11123614
500 mg	<input type="checkbox"/>	11123454	11123477	11123500	11123523	11123546	11123569	11123592	11123615
1 g	<input checked="" type="checkbox"/>	11123455	11123478	11123501	11123524	11123547	11123570	11123593	11123616
2 g	<input checked="" type="checkbox"/>	11123456	11123479	11123502	11123525	11123548	11123571	11123594	11123617
5 g	<input checked="" type="checkbox"/>	11123457	11123480	11123503	11123526	11123549	11123572	11123595	11123618
10 g	<input checked="" type="checkbox"/>	11123458	11123481	11123504	11123527	11123550	11123573	11123596	11123619
20 g	<input checked="" type="checkbox"/>	11123459	11123482	11123505	11123528	11123551	11123574	11123597	11123620
50 g	<input checked="" type="checkbox"/>	11123460	11123483	11123506	11123529	11123552	11123575	11123598	11123621
100 g	<input checked="" type="checkbox"/>	11123461	11123484	11123507	11123530	11123553	11123576	11123599	11123622
200 g	<input checked="" type="checkbox"/>	11123462	11123485	11123508	11123531	11123554	11123577	11123600	11123623
500 g	<input checked="" type="checkbox"/>	11123463	11123486	11123509	11123532	11123555	11123578	11123601	11123624
1 kg	<input checked="" type="checkbox"/>	11123464	11123487	11123510	11123533	11123556	11123579	11123602	11123625
2 kg	<input checked="" type="checkbox"/>	11123465	11123488	11123511	11123534	11123557	11123580	11123603	11123626
5 kg	<input checked="" type="checkbox"/>	11123466	11123489	11123512	11123535	11123558	11123581	11123604	11123627
10 kg	<input checked="" type="checkbox"/>	11123467	11123490	11123513	11123536	11123559	11123582	11123605	11123628
20 kg	<input checked="" type="checkbox"/>	11123468	11123491	11123514	11123537	11123560	11123583	11123606	11123629

Weight Sets



Refer to page 26


	1 mg 500 mg	1 mg 100 g	1 mg 200 g	1 mg 500 g	1 mg 1 kg	1 mg 2 kg	1 mg 5 kg	10 mg 50 g	1 mg 50 mg	1 g 100 g	1 g 500 g
1 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
500 mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
500 g	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 kg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 kg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 kg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Weights	12	21	23	24	25	27	28	16	8	9	12

Class	Weights in Plastic Box	11124000	11124002	11124004	11124006	11124008	11124010	11124012	11124014	11124016	11124018	11124020
Class 1	Weights in Plastic Box	11124000	11124002	11124004	11124006	11124008	11124010	11124012	11124014	11124016	11124018	11124020
		11124001	11124003	11124005	11124007	11124009	11124011	11124013	11124015	11124017	11124019	11124021
Class 2	Weights in Plastic Box	11124022	11124024	11124026	11124028	11124030	11124032	11124034	11124036	11124038	11124040	11124042
		11124023	11124025	11124027	11124029	11124031	11124033	11124035	11124037	11124039	11124041	11124043
Class 3	Weights in Plastic Box	11124044	11124046	11124048	11124050	11124052	11124054	11124056	11124058	11124060	11124062	11124064
		11124045	11124047	11124049	11124051	11124053	11124055	11124057	11124059	11124061	11124063	11124065
Class 4	Weights in Plastic Box	11124066	11124068	11124070	11124072	11124074	11124076	11124078	11124080	11124082	11124084	11124086
		11124067	11124069	11124071	11124073	11124075	11124077	11124079	11124081	11124083	11124085	11124087

Tips on calibration and re-calibration of weights

- Calibration laboratories can be accredited in one or more fields of calibration, e.g., dimensional, thermodynamic or mechanical. Ensure that your calibration laboratory is accredited in accordance to ISO/IEC 17025 for mass calibration.
- Customers often trust their weights to legal verification officers. As this service falls under laws of legal metrology, no actual calibration is performed but only verification of weights. Legal verification is not performed in accordance with ISO/IEC 17025, and therefore such weights are not suitable for routine testing of balances.
- Legally verified weights are explicitly applied to test scales used for commercial trade between seller and customer, e.g., butchery.

Industrial Weights

 Weight
 Weight **including Certificate**
 Calibration at ISO 17025:2005
 A2LA accredited lab, Worthington, OH

Grip Handle Weights

Stainless steel
 Density: 7.9 kg/dm³



	OIML F2		OIML M1	
Nominal value	Order number		Order number	
5 kg	30013657	11116656	30013652	11116601
10 kg	30013658	11116657	30013653	11116611
20 kg	30013659	11116658	30013654	11116621
50 kg	30013660	11116659	30013655	11116631
40 kg weight carrier	30013661	11116660	30013656	11116641



Weight carrier

720 x 275 x 330 mm (LxWxH)
 Weight carriers are available for easy and fast calibration up to 200 kg.
 Weight carriers can accommodate 8 pieces 20 kg, 10 kg or 5 kg.
 The weights can be easily stacked for the calibration of high-load balances.



Grip Handle Weights

Stainless steel,
 High gloss finish
 Density: 7.9 kg/dm³



Stainless steel, Glass
 bead blasted, passivated
 Density: 7.9 kg/dm³



	F1		M1	
Nominal value	Order number		Order number	
1 kg	11125424	11125429	30013625	30024245
2 kg	11125425	11125430	30013626	30024246
5 kg	11125426	11125431	30006805	30024247
10 kg	11125427	11125432	30006806	30024248
20 kg	11125428	11125433	30006807	30024249

Grip Handle Weights

Cast iron
 Two-component coating
 Density: 7.2 kg/dm³



	OIML M1		OIML M2		OIML M3	
Nominal value	Order number		Order number		Order number	
5 kg	11125400	11125404	11125408	11125412	11125416	11125420
10 kg	11125401	11125405	11125409	11125413	11125417	11125421
20 kg	11125402	11125406	11125410	11125414	11125418	11125422
50 kg	11125403	11125407	11125411	11125415	11125419	11125423

Heavy Capacity Weights

Cast iron
 Two-component coating
 Density: 7.2 kg/dm³

	M1	
Nominal value	Order number	
50 kg	11125498	11125499*
100 kg	11125500	11125506*
200 kg	11125501	11125507*
500 kg	11125502	11125508*
1000 kg	11125503	11125509*
2000 kg	11125504	11125510*
5000 kg	11125505	11125511*



*COFRAC certificate, LNE approval no J060982-01-1/1

For quotes, technical information or other weights

weights@mt.com

Accessories



Tweezers

	Order No.
Straight tips, for weights 1 mg – 50 g, length 130 mm	00015900
Straight tips, for weights 1 g - 1 kg, length 220 mm	11116544
Straight tips, for weights 1 mg – 50 g, length 140 mm	11116543
Bent tips, for weights 1 g – 1 kg, length 210 mm	00015901
Bent tips, for weights 1 g – 200 g, length 130 mm	11116540
Straight tips, for weights 1 mg – 500 mg, length 130 mm	30040321



Weight Forks

	Order No.
Aluminum/Polyamide, for weights 500 g – 1 kg, length 300 mm	00222175
Aluminum/Polyamide, for 2 kg weights, length 320 mm	00015902
Aluminum/Polyamide, for 5 kg weights, length 470 mm	00015903
ABS, for 500 g weights, length 150 mm	11123094
ABS, for 1 kg weights, length 150 mm	11123095



Weight Handles

	Order No.
Steel, with rubber coating, for 2 kg weights	11123096
Steel, with rubber coating, for 5 kg weights	11123097
Aluminum, for 10 kg and 20 kg weights	00015904
Aluminum, for 10 kg and 20 kg weights, with ear for crane	11116517
Aluminum, for 50 kg weights, with ear for crane	11116515

Miscellaneous Accessories



DMC Scanner



Brush



Weight marking

	Order No.
Leather gloves, pair, not suitable for regulated environments	00072001
Nylon gloves, pair, suitable for all environments	11123098
Micro fibre cloth, suitable for all environments	00158798
Brush, suitable for all environments	00158799
Weight marking, up to 5 digits, alphanumeric, on 1 g – 50 kg weights	11116500
Air bellow, for weight cleaning	11116548
WeightLink™ DMC Scanner	30268560
WeightLink™ DMC Scanner + RS232 option	30304696

NoWait Weights

Waiting can be frustrating! Let METTLER TOLEDO eliminate the frustration with our NoWaitWeights and Weight Calibration*.

Our most common Carepacs and weights are guaranteed to be in stock or the next calibration is free! Plus, your existing weights can be re-calibrated in as little as ten business days or the next calibration is free!



Look For the NoWaitWeights Logo!

The NoWaitWeights logo can be found on our eStore to help you select weights that are guaranteed to be in stock.

The METTLER TOLEDO eStore makes it easy to order online!
To start shopping now – go to:

► www.mt.com/estore

* Re-calibration applies to 1 mg – 1 kg weights. Our 10-day calibration offer begins upon receipt of your weight(s) and must include a copy of the most recent calibration certificate and a correct, signed weight re-calibration request form (available on-line at www.mt.com/na-nowait). Program is subject to change without notice. Quantities are limited.



METTLER TOLEDO weights are setting new standards

From sourcing steel of finest quality to calibration of final weights using our own mass comparators, each manufacturing step is as innovative as innovation can be. Melting of steel under vacuum, electrolytic polishing, or calibrations performed by latest generation robots – each production step impacts the quality of the final weight.

► www.mt.com/na-nowait

Our Weights Competence Ensures Your Quality

Routine testing of your balances sets the foundation for the accurate weighing results upon which your product quality depends. With years of metrology know-how and manufacturing expertise, you can rely on METTLER TOLEDO's weights and weight calibration services to support your daily weighing activities.



Test with just two weights

The unique CarePacs® approach to balance testing uses just two test weights corresponding to 5% and 100% of the capacity of your balance. You save time and costs.



Guaranteed traceability

The WeightLink™ system will only allow the use of a valid test weight. Verification of the test weight prior to use means you can rest assured that your testing procedures are fully compliant.



Trusted calibration

Our global network of accredited mass calibration laboratories meet or exceed ISO/IEC 17025, FDA and GMP standards. Weight calibration is the only way to obtain accurate and reliable data.

U.S.A.

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For more information



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