

Comprehensive Portfolio

For Consistent Performance



Unrivaled ExpertiseBrought to You With Passion

METTLER TOLEDO is the world's leading manufacturer of balances and a significant supplier of weights, weight sets and related weight calibration services. The weight portfolio covers OIML weights from one milligram to five tons in all accuracy classes. Our customers all over the world use our weights for routine testing of balances and 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.

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Expertise



Overview of weight portfolio, technical specifications and weight calibration services

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Routine Testing



Basics of routine testing of balances and weight handling

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CarePacs® for Routine Testing



Benefits of routine testing with CarePacs®



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Weight Calibration Service



Description of calibration service for weights

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Traceability and Weight Classes

		E1	E2	- FI	I
		mg	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

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Order Numbers

$\triangle \triangle$				Ź
Δ	Δ	Δ	Δ	Z
Δ	Δ	Δ	Δ	Z
$\triangle \triangle$				Ź
Δ	Δ	Δ	\triangle	Ź
I 5		I	I	1
11		I 6	I 5	1
11		I	I	1
1 B		I	I	1
1 B		I 5	I 5	1
II		I	I	1

Order numbers of complete weight portfolio

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 highest quality — also 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.



State-of-the-art turning procedures

New developments in state-of-the-art inserts for stainless steel turning such as improved coatings, and stronger substrates, in combination with proven turning principles and techniques, result in best possible surface finishes.

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 1 mg to 5 tons, 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. All manufacturing processes are in accordance with METTLER TOLEDO's ISO 9001 registration, and the ISO 14001 environmental standard.

Weight Boxes



Traditional wooden boxes are still preferred in many mass labs while plastic boxes better serve the regulated and other industries. Impact resistant plastic 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 11 mass laboratories in Switzerland and other key markets guarantee fast and cost effective calibrations no matter where our customers are.

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.

Sustainable Product Quality through Routine Testing

METTLER TOLEDO's Good Weighing Practice™ approach to risk evaluation of weighing processes, supports you from the selection of your weighing system right through to professional design of routine testing of balances.





Polishing is an industrial art

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

Recommendations of Good Weighing Practice™

GWP® provides recommendations for frequency and time intervals of balance calibration and verification to ensure accurate weighing. GWP® indicates the relevant test weights, routine tests, warning and control limits and provides the necessary standard operation procedure (SOP).

Customer Benefits of Good Weighing Practice™

- More efficient testing
- Reduced measurement deviations
- Increased process safety

For more information

www.mt.com/GWP



GWP® Recommendations on Testing Frequency

Testing frequency for routine testing of balances depends on many factors such as process risk and balance technology. The following general recommendations apply:

- Balances without FACT technology require higher testing frequencies compared to balances with FACT.
- Stringent process tolerances and associated higher risks require more frequent testing.



- Routine Testing by customer, e.g., daily or weekly
- Calibration by service technician, e.g., yearly

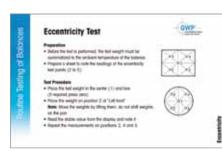
Weight Handling Tips

- Never touch weights with bare hands: always use synthetic gloves for weight handling. Refer to accessory section of this brochure for professional weight handling tools such as tweezers, synthetic gloves and cloths.
- Store weights in the original box after use.
- Allow weights sufficient time for acclimatization prior to balance testing, as temperature difference between test weight and balance may have impact on test results.
- Remove loose dust from weights with a soft brush or rubber bellows prior to testing.

Professional CarePacs® for Smooth Routine Testing

Perform routine testing of balances securely with only what you need – two test weights. Save time and cost with a METTLER TOLEDO CarePac®. This unique approach means you can rely on accurate measuring results. CarePacs® include tweezers, gloves and other accessories for professional weight handling.





SOPs to Ensure Accuracy

Routine testing is one of three aspects of professional monitoring of the accuracy of a balance. SOPs from METTLER TOLEDO give clear guidance as to how to perform this important task reliably.



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.



Save Time and Money

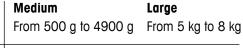
Routine testing is performed with two weights only at maximum and minimum load. Weights are specified to validate process tolerances up to 0.03%.

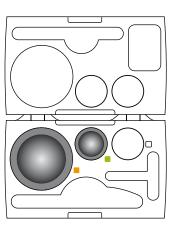


CarePac® Sizes Balance Max. Load	Small Up to 490 g	F

For more information:

www.mt.com/carepacs





Weight Calibration the Cornerstone for Secure Testing

Accurately calibrated weights are at the base 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 roughness which far exceed required specifications.



ffering*

- Calibration by ISO/IEC 17025 accredited laboratory ("as left" values)
- Traceable, accredited calibration certificate
- Statement of conformity for the accuracy class
- Certificates in German, English, French, Spanish and Italian
- 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	Insures your weights are within original state to		
	guarantee conditions for every balance check.		
Re-adjustment of weights	Out of specification weights are adjusted to save costs,		
	and weights can be used again for calibration purposes.		



Benefits of calibrating your weights at METTLER TOLEDO:

- The only company in the world with a global network of 11 mass 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.



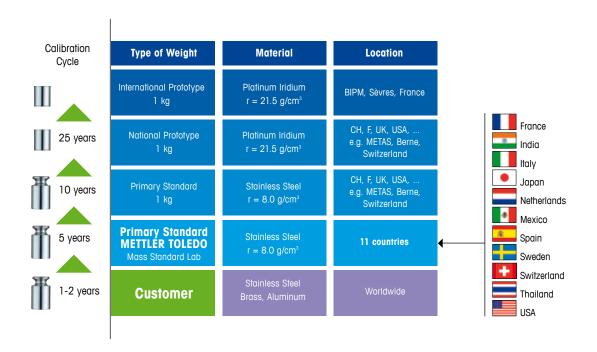
Calibration results, including measurement uncertainty statement, are reported in a certificate.

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.



International Organization of Legal Metrology Recommendation R111

	El	E2	F1	F2	M1	M2	М3
	mg	mg	mg	mg	mg	mg	mg
5000 kg			25000	80000	250000	800000	2500000
2000 kg			10000	30000	100000	300000	1000000
1000 kg		1600	5000	16000	50000	160000	500000
500 kg		800	2500	8000	25000	80000	250000
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
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
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
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
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
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	
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		
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		
2 mg	0.003	0.006	0.020	0.06	0.20		
1 mg	0.003	0.006	0.020	0.06	0.20		

OIML Tolerances

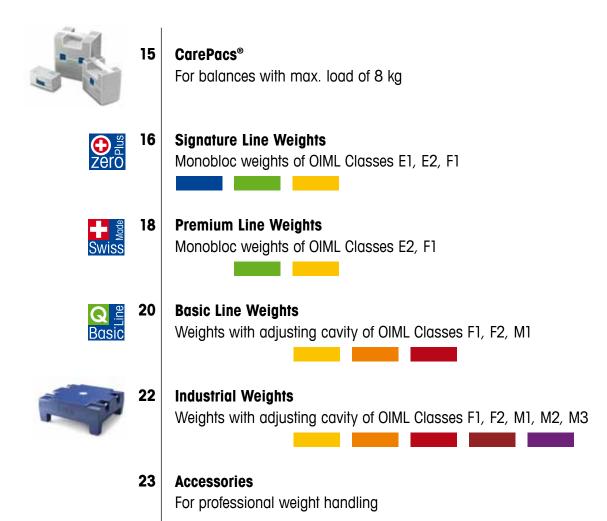
The nominal weight values in this table specify the smallest and largest weight permitted in any class of OIML R 111 and the maximum permissible errors and denominations shall not be extrapolated to higher or lower values. For example, the smallest nominal value for a weight in OIML class M2 is 100 mg 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.



- 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.



OverviewWeights and Weight Sets





CarePac® S

Weighing ranges up to 490 g

Balances	XP404S XS403S	XP205 XP204S MS205 XP203S MS304S XS205 MS204S XS204 MS303S XS203S ML204 XA204 ML203	XP105 XS105 XS104 XA105 MS104S	XP56 XS64 ML54 HR83 HG63	XP26		XP2U you
OIML	MS403S	XA303S ML303	ML104	HB43-S	MJ33	XP6	XS3
Set up	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
Order No.	11123000	11123001	11123002	11123003	11123006	11123005	11123004

			Pac® M g ranges 50		# X			
! !	Balances	XP504 XP603S XP802S XS603S XS802S XA503S	MS603S ML503 ML802	XP1203S XP1202S XS1003S XA1502S	MS1003S MS1602S ML1602 ML1502	XP2003S XP2002S XP2001S XS2002S XA3002S XA3001S	MS3002S ML3002 ML2001	XP4002S XP4001S XS4002S XS4001S MS4002S ML4002 ML4001
Set up			500 g F2		1000 g F2		2000 g F2	2000 g F2
			20 g F1		50 g F2		100 g F2	200 g F2
Order No.			11123007		11123008		11123009	11123010

	CarePo	IC® L					
	Weighing r	anges 5 kg-8 kg					
Ś	XP5003S	XS8001S					
Balances	XP8002S XP6002S	XS6001S XA5002S					
흝	XP8001S	MS6002S					
ă	XP6001S	MS8001S					
	XS5003S	MS6001S					
	XS6002S	ML6001					
OIML							
Set up	5000 g F2						
	200 g F2						
Order No.	11123011						

Only base models of balances are listed. DR, DU, X or E types need the same CarePac as the base models.

CarePacs® for non-current METTLER TOLEDO models or 3rd party balances

OIML										
Set up	200 g F2	100 g F2	50 g F2	200 g F2	100 g F2	500 g F2	1000 g F2	2000 g F2	5000 g F2	5000 g F2
	50 g F2	50 g F2	50 g F2	100 g F2	100 g F2	10 g F1	10 g F1	10 g F1	500 g F2	100 g F2
Order No.	11123026	11123027	11123028	11123029	11123030	11123036	11123037	11123038	11123012	11123042

Customized 3 rd Weight	Value	
		Order No.
	1 mg	11123044
3 rd weights are for customized testing.	2 mg	11123045
	5 mg	11123046
	10 mg	11123047
	20 mg	11123048
	50 mg	11123049
	100 mg	11123050
	200 mg	11123051
	500 mg	11123052

	OIML Class E2
Value	Order No.
1 g	11123053
2 g	11123054
5 g	11123055
10 g	11123056
20 g	11123057
50 g	11123058
100 g	11123059

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

weights@mt.com

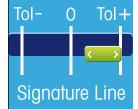
Signature Line OIML E1, E2 and F1





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



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

Wire weight
 Wire weigh
 Wire weight
 Wire weight
 Wire weight
 Wire

△ Marked wire weight

Cylindrical weight with knob

Marked cylindrical weight with knob

Individual Weights

Nominal value Shape Order number Wooden Box Order number Plastic Box 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 △ 00159060 00159051 − 30003713 100 mg △ 00159060 00159061 − 30003714 200 mg △ 00159070 00159071 − 30003715 500 mg △ 00159080 00159081 − 30003716 1 g 蓟 00159080 00159081 − 30003717 2 g 菿 00159100 00159101 − 30003718 5 g 菿 00159100 00159111 − 30003720 <th></th> <th>•</th> <th></th> <th></th> <th colspan="3"></th>		•					
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500 mg △ 00159080 00159081 − 30003716 1 g ■ 00159090 00159091 − 30003717 2 g ■ 00159100 00159101 − 30003718 5 g ■ 00159110 00159111 − 30003719 10 g ■ 00159120 00159121 − 30003720 20 g ■ 00159130 00159131 − 30003721 50 g ■ 00159140 00159141 − 30003722 100 g ■ 00159150 00159151 − 30003723 200 g ■ 00159160 00159161 − 30003724 500 g ■ 00159170 00159171 − 30003725 1 kg ■ 00159180 00159181 − 30003726 2 kg ■ 00159200 00159201 − 30003728 10 kg ■ 00159210 00159211 − 30003729	100 mg	\triangle	00159060	00159061	ı	30003714	
1 g ■ 00159090 00159091 - 30003717 2 g ■ 00159100 00159101 - 30003718 5 g ■ 00159110 00159111 - 30003719 10 g ■ 00159120 00159121 - 30003720 20 g ■ 00159130 00159131 - 30003721 50 g ■ 00159140 00159141 - 30003722 100 g ■ 00159150 00159151 - 30003723 200 g ■ 00159160 00159161 - 30003724 500 g ■ 00159170 00159171 - 30003725 1 kg ■ 00159180 00159181 - 30003726 2 kg ■ 00159200 00159201 - 30003727 5 kg ■ 00159200 00159211 - 30003729	200 mg	\triangle	00159070	00159071	-	30003715	
2 g 00159100 00159101 30003718 5 g 00159110 00159111 30003719 10 g 00159120 00159121 30003720 20 g 00159130 00159131 30003721 50 g 00159140 00159141 30003722 100 g 00159150 00159151 30003723 200 g 00159160 00159161 30003724 500 g 00159170 00159171 30003725 1 kg 00159180 00159181 30003726 2 kg 00159190 00159191 30003727 5 kg 00159200 00159201 30003728 10 kg 00159210 00159211 30003729	500 mg	\triangle	00159080	00159081	-	30003716	
5 g Image: Control of the property of the proper	1 g	I	00159090	00159091	-	30003717	
10 g 00159120 00159121 - 30003720 20 g 00159130 00159131 - 30003721 50 g 00159140 00159141 - 30003722 100 g 00159150 00159151 - 30003723 200 g 00159160 00159161 - 30003724 500 g 00159170 00159171 - 30003725 1 kg 00159180 00159181 - 30003726 2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	2 g	I	00159100	00159101	-	30003718	
20 g 00159130 00159131 - 30003721 50 g 00159140 00159141 - 30003722 100 g 00159150 00159151 - 30003723 200 g 00159160 00159161 - 30003724 500 g 00159170 00159171 - 30003725 1 kg 00159180 00159181 - 30003726 2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003729 10 kg 00159210 00159211 - 30003729	5 g	I	00159110	00159111	-	30003719	
50 g 00159140 00159141 - 30003722 100 g 00159150 00159151 - 30003723 200 g 00159160 00159161 - 30003724 500 g 00159170 00159171 - 30003725 1 kg 00159180 00159181 - 30003726 2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	10 g	I	00159120	00159121	_	30003720	
100 g 00159150 00159151 30003723 200 g 00159160 00159161 30003724 500 g 00159170 00159171 30003725 1 kg 00159180 00159181 30003726 2 kg 00159190 00159191 30003727 5 kg 00159200 00159201 30003728 10 kg 00159210 00159211 30003729	20 g	I	00159130	00159131	-	30003721	
200 g 00159160 00159161 - 30003724 500 g 00159170 00159171 - 30003725 1 kg 00159180 00159181 - 30003726 2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	50 g	I	00159140	00159141	-	30003722	
500 g 00159170 00159171 - 30003725 1 kg 00159180 00159181 - 30003726 2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	100 g	I	00159150	00159151	-	30003723	
1 kg 00159180 00159181 - 30003726 2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	200 g	I	00159160	00159161	-	30003724	
2 kg 00159190 00159191 - 30003727 5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	500 g	I	00159170	00159171	-	30003725	
5 kg 00159200 00159201 - 30003728 10 kg 00159210 00159211 - 30003729	1 kg	I	00159180	00159181	-	30003726	
10 kg 00159210 00159211 - 30003729	2 kg	I	00159190	00159191	-	30003727	
	5 kg	I	00159200	00159201	_	30003728	
20 kg T 00159220 00159221 - 30003730	10 kg	I	00159210	00159211	-	30003729	
	20 kg	I	00159220	00159221	_	30003730	
50 kg 00159230 00159231 - 30003731	50 kg	I	00159230	00159231	-	30003731	

Individual Weights

		FI	
Nomina value		Order numb	er
1 m	g 🛆	-	30003743
2 m	g 🛆	-	30003744
5 m	g 🛆	-	30003745
10 m	g 🛆	-	30003746
20 m	g 🛆	-	30003747
50 m	g 🛆	-	30003748
100 m	g 🛆	-	30003749
200 m	g 🛆	-	30003750
500 m	g 🛆	-	30003751
1 g	I	-	30003752
2 g	I	-	30003753
5 g	I	-	30003754
10 g	I	-	30003755
20 g	I	-	30003756
50 g	I	-	30003757
100 g	I	-	30003758
200 g	I	-	30003759
500 g	I	-	30003760
1 kg	I	-	30003761
2 kg	I	_	30003762
5 kg	I	-	30003763
10 kg	I	-	30003764
20 kg	I	-	30003765
50 kg	I	-	30003766

Weight	El									E2							
Sets	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	Δ	Δ	Δ	Δ	Δ					Δ	Δ	Δ	Δ	Δ			
2 mg					ΔΔ												
5 mg	Δ	Δ	\triangle	Δ	Δ					Δ	Δ	Δ	Δ	Δ			
10 mg	Δ	Δ	Δ	Δ	Δ					Δ	Δ	Δ	Δ	Δ			
20 mg																	
50 mg	Δ	Δ	Δ	Δ	Δ					Δ	Δ	Δ	Δ	Δ			
100 mg	Δ	Δ	Δ	Δ	Δ					Δ	Δ	Δ	Δ	Δ			
200 mg																	
500 mg	Δ	Δ	\triangle	Δ	Δ					Δ	\triangle	Δ	Δ	Δ			
1 g		I	I	I	I	I	I	1 D			I	I	I	I	I	I	
2 g		1 5	1 5	1 5	1 5	1 5	I 5	1 5			1 5	1 5	1 5	1 5	1 2	10	
5 g		I	I	I	I	I	I	1 5			I	I	I	I	I	I	
10 g		I	I	I	I	I	I	1 B			I	I	I	I	I	I	
20 g		1 D	1 B	1 5	1 B	1 B	1 5	1 5			1 5	1 5	1 5	1 5	1 5	1 5	
50 g		I	I	I	I	I	I	1 B			I	I	I	I	I	I	
100 g		I	I	I	I		I	1 B			I	I	I	I		I	
200 g		1 5	1 B	1 B	1 B		1 B	1 5			1 5	1 5	1 5	1 5		1 B	_
500 g			I	I	I		I	1 5				I	I	I		I	
1 kg			I	I	I			1 5	I			I	I	I			I
2 kg				15	10				1 5				1 5	1 5			1 5
5 kg					I				ī					ī			Ī
No. of Weights	12	23	25	27	28	8	12	38	4	12	23	25	27	28	8	12	4
Wooden Day	00159300	00159340	00159350	11117614	11117616	00159310	00159320	00159360	00159330								
Wooden Box	00159301	00159341	00159351	11117615	11117617	00159311	00159321	00159361	00159331								
								Plas	stic Box	30003732	30003734	30003735	30003736	30003737	30003738	30003739	30003740





High quality boxes are available in both wooden and plastic construction.



Marked single weights are available on request.



The second weight is marked for identification purposes.

Weight	F1							
Sets								
	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	\triangle	\triangle	\triangle	\triangle	\triangle			
2 mg			$\triangle \triangle$		$\triangle \triangle$			
5 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
10 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
20 mg			$\triangle \triangle$		$\triangle \triangle$			
50 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
100 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
200 mg			$\triangle \triangle$		$\triangle \triangle$			
500 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
1 g						I		
2 g		1 B	I	1 B	1	I 5	T 5	
5 g		I	I	I	I	I	I	
10 g		I	I	I	I	I	I	
20 g		I 5	I 5	I 5	I 6	I 5	I 5	
50 g		I	I	I	I	I	I	
100 g		I	I	I	I		I	
200 g		1 D	I 5	I 5	I 6		1 D	
500 g			I	I	I		I	
1 kg			I	I	I			I
2 kg				1 5	1 5			1 4
5 kg					I			I
No. of Weights	12	23	25	27	28	8	12	4
Plastic Box	-	-	-	-	-	-	-	_
FIUSIIC DOX	30003767	30003768	30003769	30003770	30003771	30003772	30003773	30003774

Premium LineOIML E2 and F1





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

Premium Stainless Steel



Premium, vacuum melted stainless steel ensures an anti-corrosive surface with low magnetization and susceptibility values.

Made in Switzerland



The one-piece construction and electrolytically polished surface offer best long term stability. Unmatched Swiss quality! 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

△ Wire weight

△ Marked wire weight

Cylindrical weight with knob

Marked cylindrical weight with knob

Individual Weights

		E2					
Nominal value	Shape	Order numb Wooden Bo		Order number Plastic Box			
1 mg	Δ	00158300	00158301	00158306	00158307		
2 mg	Δ	00158310	00158311	00158316	00158317		
5 mg	Δ	00158320	00158321	00158326	00158327		
10 mg	\triangle	00158330	00158331	00158336	00158337		
20 mg	\triangle	00158340	00158341	00158346	00158347		
50 mg	\triangle	00158350	00158351	00158356	00158357		
100 mg	\triangle	00158360	00158361	00158366	00158367		
200 mg	\triangle	00158370	00158371	00158376	00158377		
500 mg	\triangle	00158380	00158381	00158386	00158387		
1 g	I	00158390	00158391	00158396	00158397		
2 g	I	00158400	00158401	00158406	00158407		
5 g	I	00158410	00158411	00158416	00158417		
10 g	I	00158420	00158421	00158426	00158427		
20 g	I	00158430	00158431	00158436	00158437		
50 g	I	00158440	00158441	00158446	00158447		
100 g	I	00158450	00158451	00158456	00158457		
200 g	I	00158460	00158461	00158466	00158467		
500 g	I	00158470	00158471	00158476	00158477		
1 kg	I	00158480	00158481	00158486	00158487		
2 kg	I	00158490	00158491	00158496	00158497		
5 kg	I	00158500	00158501	00158506	00158507		
10 kg	I	00158510	00158511	00158516	00158517		
20 kg	I	00158520	00158521	00158526	00158527		
50 kg	I	00158530	00158531				

Individual Weights

		F1				
Nominal value	Shape	Order numb Wooden Bo		Order number Plastic Box		
1 mg	Δ	00159410	00159411	00159416	00159417	
2 mg	Δ	00159420	00159421	00159426	00159427	
5 mg	Δ	00159430	00159431	00159436	00159437	
10 mg	Δ	00159440	00159441	00159446	00159447	
20 mg	Δ	00159450	00159451	00159456	00159457	
50 mg	\triangle	00159460	00159461	00159466	00159467	
100 mg	Δ	00159470	00159471	00159476	00159477	
200 mg	Δ	00159480	00159481	00159486	00159487	
500 mg	Δ	00159490	00159491	00159496	00159497	
1 g	I	00158600	00158601	00158606	00158607	
2 g	I	00158610	00158611	00158616	00158617	
5 g	I	00158620	00158621	00158626	00158627	
10 g	I	00158630	00158631	00158636	00158637	
20 g	I	00158640	00158641	00158646	00158647	
50 g	I	00158650	00158651	00158656	00158657	
100 g	I	00158660	00158661	00158666	00158667	
200 g	I	00158670	00158671	00158676	00158677	
500 g	I	00158680	00158681	00158686	00158687	
1 kg	I	00158690	00158691	00158696	00158697	
2 kg	I	00158700	00158701	00158706	00158707	
5 kg	I	00158710	00158711	00158716	00158717	
10 kg	I	00158720	00158721	00158726	00158727	
20 kg	I	00158730	00158731	00158736	00158737	
50 kg	I	00158740	00158741			

Weight	E2								
Sets									
	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	\triangle	\triangle	\triangle	\triangle	\triangle				
2 mg				$\triangle \triangle$	$\triangle \triangle$				
5 mg	\triangle	\triangle	\triangle	\triangle	\triangle				
10 mg	\triangle	\triangle	\triangle	\triangle	\triangle				
20 mg				$\triangle \triangle$	$\triangle \triangle$				
50 mg	\triangle	\triangle	\triangle	\triangle	\triangle				
100 mg	Δ	\triangle	\triangle	\triangle	\triangle				
200 mg				$\triangle \triangle$	$\triangle \triangle$				
500 mg	\triangle	\triangle	\triangle	\triangle	\triangle				
1 g								3 5	
2 g		1 5	1 5	T 5	1 B	T 5	T 5	1 B	
5 g		I	I	I	I	I	I	1 D	
10 g		I	I	I	I	I	I	I 5	
20 g		1 5	1 5	1 5	1 5	I 5	I 5	1 B	
50 g		I	I	I	I	I	I	1 B	
100 g		I	I	I	I		I	1 5	
200 g		1 5	1 5	1 2	1 5		1 5	1 5	
500 g			I	I	I		I	1 B	
1 kg			I	I	I			1 B	I
2 kg				1 5	1 5				10
5 kg					I				I
No. of Weights	12	23	25	27	28	8	12	38	4
Wooden Day	00158800	00158840	00158850	11117624	11117626	00158810	00158820	00158860	00158830
Wooden Box	00158801	00158841	00158851	11117625	11117627	00158811	00158821	00158861	00158831
Plastic Box	00158806	00158846	00158856	11117321	11117323	00158816	00158826	-	11125900
FIUSIIC BUX	00158807	00158847	00158857	11117322	11117324	00158817	00158827	-	11125901

Weight	F1							
Sets								
	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	\triangle	\triangle	\triangle	\triangle	\triangle			
2 mg								
5 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
10 mg	Δ	Δ	Δ	\triangle	\triangle			
20 mg								
50 mg	Δ	\triangle	Δ	\triangle	\triangle			
100 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
200 mg								
500 mg	\triangle	\triangle	\triangle	\triangle	\triangle			
1 g		I	I	I	I	I	I	
2 g		1 B	1 5	1 B	1 B	1 B	1 B	
5 g				I				
10 g		I						
20 g		3 5	1 B	2 2	T 5	1 5	T B	
50 g		I			I	I	I	
100 g		I		I	I		I	
200 g		1 B	I D	I 6	1 D		1 B	
500 g			I	I	I		I	
1 kg			I	I	I			I
2 kg				1 D	1 D			1 D
5 kg					I			I
No. of Weights	12	23	25	27	28	8	12	4
Wooden Box	00161700	00158900	00158910	11117802	11117804	00158870	00158880	00158890
TTOOUGH DUX	00161701	00158901	00158911	11117803	11117805	00158871	00158881	00158891
Plastic Box	00161706	00158906	00158916	11119979	11119981	00158876	00158886	11125907
FIUSIIC DUX	00161707	00158907	00158917	11119980	111119982	00158877	00158887	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 ISO 9001 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

☐ Sheet weight

■ Marked sheet weight

Cylindrical weight with knob

Marked cylindrical weight with knob

Marked single weights are available on request

Individual Weights

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

Weight	F1						
Sets							
	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							
2 mg							
5 mg							
10 mg							
20 mg							
50 mg							
100 mg							
200 mg							
500 mg							
1 g		I	I	I	I	I	I
2 g		I 5	I 5	I 6	I 5	I 5	I 5
5 g		I	I	I	I	I	I
10 g		I	I	I	I	I	I
20 g		1 5	1 5	1 5	1 5	1 5	1 2
50 g		I	I	I	I	I	I
100 g		I	I	I	I		I
200 g		1 B	1 B	1 5	1 B		1 B
500 g			I	I	I		I
1 kg			I	I	I		
2 kg				1 5	1 5		
5 kg					I		
No. of Weights	12	23	25	27	28	8	12
Directio Davi	11119511	11119512	11119513	11119514	11119515	11119516	11119517
Plastic Box	11119581	11119582	11119583	11119584	11119585	111119586	11119587

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
	I	I	I	I	I	I
	1 5	1 5	1 5	1 5	1 2	I 5
	I	I	I	I		ī
	I	I		I	I	ī
	1 B	T 5	1 B	1 B	I 5	1
	I	I	I	I	I	I
	I	I	I	I		I
	I 5	I 5	I 5	I 5		I 5
		I	I	I		I
		I	I	I		
			I 5	1 D		
				I		
12	23	25	27	28	8	12
11118456	11118457	11118458	11118459	11118460	11118461	11118462
11118339	11118340	11118341	11118342	11118343	11118344	11118345

Weight	M1						
Sets							
00.0	1 mg	1 mg		1 mg		1 g	1 g
-	500 mg	200 g	1 kg	2 kg	5 kg	50 g	500 g
1 mg							
2 mg							
5 mg							
10 mg							
20 mg							
50 mg							
100 mg							
200 mg							
500 mg							
1 g		I	I	I	I	I	I
2 g		10	1 5	1 5	1 5	1 5	10
5 g		I	I	I	I	I	I
10 g				I			I
20 g		1 D	1 2	1 D	1 D	1 D	1 D
50 g		I	I	I	I	I	I
100 g		I	I	I	I		I
200 g		1 2	1 5	10	1 5		10
500 g			I	I	I		I
1 kg			I	I	I		
2 kg				1 5	1 B		
5 kg					I		
No. of Weights	12	23	25	27	28	8	12
	11117862	11117863	11117864	11117865	11117866	11117867	11117868
Plastic Box	11117771	11117772	11117773	11117774	11117775	11117776	11117777

Industrial Weights

Weight
Weight including Certificate

Grip Handle Weights

Stainless steel High gloss finish Density: 7.9 kg/dm³

	F1	
Nominal value	Order numb	er
1 kg	11125424	11125429
2 kg	11125425	11125430
5 kg	11125426	11125431
10 kg	11125427	11125432
20 kg	11125428	11125433



Grip Handle Weights

Stainless steel Density: 7.9 kg/dm³



	F2		M1	
Nominal value	Order number		Order numb	er
5 kg	11116650	11116656	11116600	11116601
10 kg	11116651	11116657	11116610	11116611
20 kg	11116652	11116658	11116620	11116621
50 kg	11116653	11116659	11116630	11116631
40 kg weight carrier	11116654	11116660	11116640	11116641





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

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



	M1		M2		М3	
Nominal value	Order num	Order number		Order number		ber
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

Nominal value	Order numl	ber
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



Other weights on request

Tweezers Accessories



	Order number
Straight tips, for weights 1 mg - 20 g, length 115 mm	00015900
Straight tips, for weights 1 mg - 20 g, length 220 mm	11116544
Straight tips, for weights 20 mg - 200 g, length 140 mm	11116543
Bent tips, for weights 20 g - 200 g, length 200 mm	00015901
Bent tips, for weights 1 mg - 200 g, length 130 mm	11116540

Weight Handles



	11100000
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

Weight Forks



	Order number
Aluminum/Polyamide, for weights $500 \text{ g} - 1 \text{ kg}$, 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
-	

Miscellaneous Accessories



Nylon gloves



	Order number
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

Online Weight Selector

Enter this website address for access: **www.mt.com/weights** and click on the banner shown below.



Weight selector for laboratory balances

Nominal value and class of weights recommended by this weight selector are calculated to test balances with assigned process tolerances of up to 0.03%.

▶ Start Search

Routine testing of your balance's accuracy is at the heart of most quality systems. The METTLER TOLEDO weight selector will recommend two appropriate weights for performing routine testing. Simply enter the model of your METTLER TOLEDO balance, or, for older METTLER TOLEDO models or other brands enter the maximum capacity of the balance. The weight selector will recommend the CarePac® or single weights tailored to the characteristics of your balance with the following benefits

- Cost savings purchase only what you need for routine testing, two weights rather than entire weight set
- Low cost of ownership recalibration costs lower for two weights than.
 entire set
- Time savings easy and quick to use testing approach supported by manufacturer SOPs
- Testing against process tolerances as low as 0.03%

For quotes or technical information regarding weights please contact your local METTLER TOLEDO organization or use the email address: weights@mt.com

www.mt.com

For more information



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Good Weighing Practice™

The global weighing guideline GWP® reduces risks associated with your weighing processes and helps to

- choose the appropriate balance
- reduce costs by optimizing testing procedures
- comply with the most common regulatory requirements