

## **Comprehensive Portfolio**

For Consistent Performance



## **Unrivaled Expertise**Brought 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 ANSI/ASTM and 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

8

#### CarePacs® for Routine Testing



Benefits of routine testing with CarePacs®





#### **Weight Calibration Service**



Description of calibration service for weights

#### 12

### Traceability and Weight Classes

	E1	E2	F1
	mg	mg	mg
5000 kg	Class	- 5005	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**

$\triangle \triangle$	$\triangle \triangle$	$\triangle \triangle$	$\triangle \triangle$	Ľ
$\triangle$	$\triangle$	$\triangle$	$\triangle$	Ľ
Δ	Δ	Δ	Δ	Ľ
$\triangle \triangle$				Ľ
Δ	Δ	Δ	Δ	Ľ
10		I	I	E
10		10	I 5	E
10		I	I	E
1 2		I	I	E
1 2		1 5	1 5	E
3.3		I	I	F

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 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

# OIML

Weights are available in OIML classes E1, E2, F1, F2, M1, M2 and M3 matching all requirements of OIML R111-1:2004.

Nominal values range from 1 mg to 5 tons, satisfying all industry and customer specific needs.

#### **ANSI/ASTM Weights**



ASTM weights are available in classes 1–6 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**



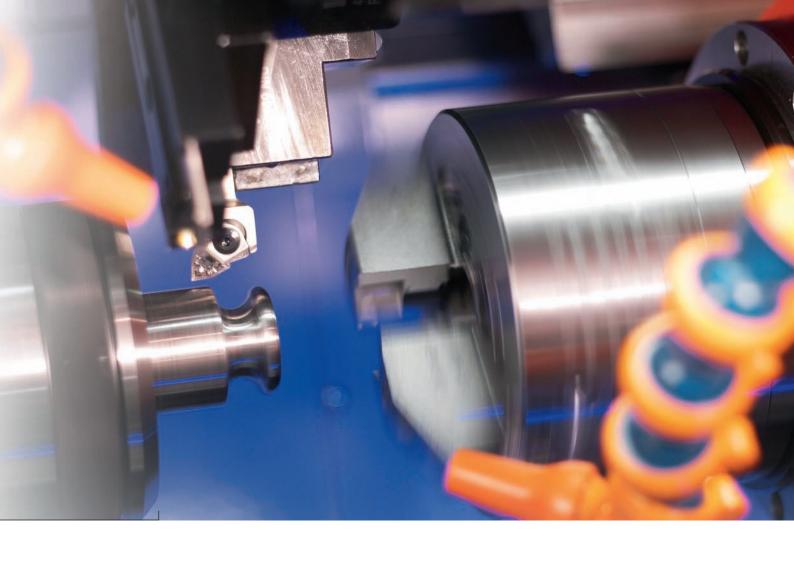
All weights are made of premium stainless steel to make them corrosion resistant.

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. 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

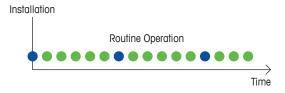
www.mt.com/GWP



#### **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

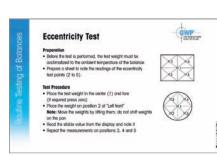
#### Weight Handling Tips

- 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%.



Balance Max. Load	Up to 490 g

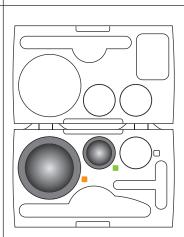
Small

For more information:

CarePac® Sizes

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 laboratory, we 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.



#### 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 adjustment)
- Reminder service from METTLER TOLEDO for weights due for calibration
- Priority service for quickest turn-around time
- Archiving of calibration history of weights

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.



Refer to page 26



#### 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.



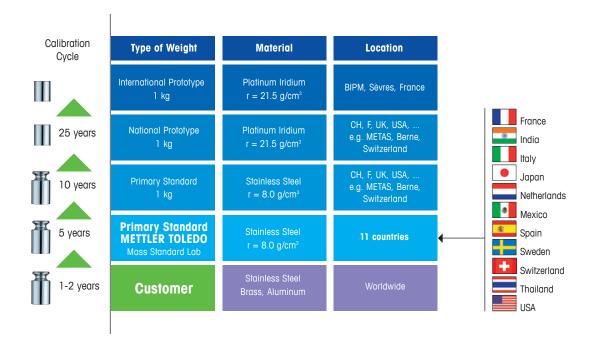
Calibration results, including measurement uncertainty statement, are reported in a certificate.

## **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.



#### **OIML and ASTM Tolerances**

#### International Organization of Legal Metrology Recommendation R111

	El	<b>E2</b>	FI	F2	M1	M2	М3
	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	8.0	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	0.000		0.000				
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.



### **Overview**

### Weights and Weight Sets



15 CarePacs®

For balances with max. load of 8 kg





**Signature Line Weights** 

Monobloc weights of OIML Classes E1, E2, F1



**Standard Line Weights** 

Monobloc weights of OIML Classes E2, F1







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**Basic Line Weights** 

Weights with adjusting cavity of OIML Classes F1, F2, M1



**ASTM Weights** 

Weights with adjusting cavity of ASTM Classes 1, 2, 3, 4





**Industrial Weights** 

Weights with adjusting cavity of OIML Classes F1, F2, M1, M2, M3, NIST F

25 Accessories

For professional weight handling



**OIML** 

**ASTM** 



## CarePac® S Weighing ranges up to 490 g

Balances	XP404S	XP205 XP204S MS205 XP203S MS304S XS205 MS204S XS204 MS303S XS203S ML204	XP105 XS105 XS104 XA105 MS105	XP56 XS64 ML54 HR83	Refer to page		
	XS403S	XA204 ML203	MS104S	HG63	XP26		XP2U
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
ASTM							
Set up	200 g 1	200 g 1	100 g 1	50 g 1	20 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
Order No	11123100	11123101	11123102	11123103	11123106	11123105	11123104

	CarePac® M Weighing ranges 500 g – 4900 g							
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	5	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.	1	11123007		11123008		11123009	11123010	
ASTM								
Set up		500 g 1		1000 g 1		2000 g 1	2000 g 4	
		20 g 1		50 g 1		100 g 1	200 g 4	
Order No		11123107		11123108		11123109	11123110	

	CarePac® L					
	Weighing r	anges 5 kg-8 kg				
Balances	XP5003S XP8002S XP6002S XP8001S XP6001S XS5003S	XS6001S XA5002S MS6002S MS8001S				
OIML	XS6002S	ML6001				
Set up	50	000 g F2				
		200 g F2				
Order No.		11123011				
ASTM						
Set up	5000 g 4					
		200 g 4				
Order No	l	11123111				

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

	CarePacs® for non-current METTLER TOLEDO models or 3 <sup>rd</sup> 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
ASTM										
	200 g 1	100 g 1	50 g 1	200 g 1	100 g 1	500 g 1	1000 g 1	2000 g 1	5000 g 4	5000 g 1
	50 g 1	50 g 1	50 g 1	100 g 1	100 g 1	10 g 1	10 g 1	10 1	500 g 4	100 g 1
Order No	11123126	11123127	11123128	11123129	11123130	11123136	11123137	11123138	11123112	11123142

	OIML	ASTM
Value		Class 1 Order No
	11123044	11123144
2 mg	11123045	11123145
5 mg	11123046	11123146
10 mg	11123047	11123147
20 mg	11123048	11123148
50 mg	11123049	11123149
100 mg	11123050	11123150
200 mg	11123051	11123151
500 mg	11123052	11123152
	5 mg 10 mg 20 mg 50 mg 100 mg 200 mg	Value         Class E2           Value         Order No.           1 mg         11123044           2 mg         11123045           5 mg         11123046           10 mg         11123047           20 mg         11123048           50 mg         11123049           100 mg         11123050           200 mg         11123051

	OIML	ASTM
	Class E2	Class 1
Value	Order No.	Order No
1 g	11123053	11123153
2 g	11123054	11123154
5 g	11123055	11123155
10 g	11123056	11123156
20 g	11123057	11123157
50 g	11123058	11123158
100 g	11123059	11123159

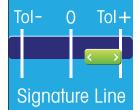
## **Signature Line** OIML E1, E2 and F1





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



Our unique adjustment process maximizes the life of your weight by ensuring the weight is in the upper range of the tolerance. This minimizes the effects of weight loss due to use.

#### 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.



Weight and Box

Weight and Box, including Certificate

∠ Wire weight

Ŧ

△ | Marked wire weight

Cylindrical weight with knob

Marked cylindrical weight with knob

#### Individual Weights

		El		E2			
Nominal value	Shape	Order numb Weight in V	-	Order numb			
1 mg	Δ	00159000 00159001		-	30003706		
2 mg	$\triangle$	00159010	00159011	_	30003707		
5 mg	Δ	00159020	00159021	-	30003710		
10 mg	$\triangle$	00159030	00159031	_	30003711		
20 mg	Δ	00159040	00159041	-	30003712		
50 mg	$\triangle$	00159050	00159051	_	30003713		
100 mg	Δ	00159060	00159061	-	30003714		
200 mg	Δ	00159070	00159071	-	30003715		
500 mg	Δ	00159080	00159081	_	30003716		
1 g	I	00159090	00159091	-	30003717		
2 g	I	00159100	00159101	-	30003718		
5 g	I	00159110	00159111	-	30003719		
10 g	I	00159120	00159121	-	30003720		
20 g	I	00159130	00159131	-	30003721		
50 g	I	00159140	00159141	-	30003722		
100 g	I	00159150	00159151	-	30003723		
200 g	I	00159160	00159161	-	30003724		
500 g	I	00159170	00159171	_	30003725		
1 kg	I	00159180	00159181	-	30003726		
2 kg	I	00159190	00159191	-	30003727		
5 kg	I	00159200	00159201	_	30003728		
10 kg	I	00159210	00159211	-	30003729		
20 kg	I	00159220	00159221	_	30003730		
50 kg	T	00159230	00159231	-	30003731		

## Individual Weights

		FI	
Nomina value	-	Order numb	
1 m	g 🛆	-	30003743
2 m	g 🛆	-	30003744
5 m	g 🛆	_	30003745
10 m	g 🛆	-	30003746
20 m	g 🛆	_	30003747
50 m	g <u></u>	_	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	T	-	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									<b>E2</b>							
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	$\triangle$	Δ	Δ					Δ	$\triangle$	$\triangle$	$\triangle$	Δ			
2 mg																	
5 mg	Δ	Δ	$\triangle$	Δ	Δ					Δ	Δ	$\triangle$	$\triangle$	Δ			
10 mg	Δ	Δ	$\triangle$	Δ	Δ					Δ	$\triangle$	$\triangle$	$\triangle$	Δ			
20 mg																	
50 mg	Δ	Δ	$\triangle$	Δ	Δ					Δ	$\triangle$	$\triangle$	$\triangle$	Δ			
100 mg	Δ	Δ	$\triangle$	Δ	Δ					Δ	Δ	$\triangle$	$\triangle$	Δ			
200 mg																	
500 mg	Δ	Δ	$\triangle$	Δ	Δ					Δ	Δ	Δ	Δ	Δ			
1 g		I	I	I	I	I	I	2 2			I	I	I	I	I	I	
2 g		1 5	1 5	1 1	1 5	1 5	1 5	2 2			1 5	1 5	1 5	1 2	1 5	1 5	
5 g		I	I	I	I	I	I	2 2			I	I	I	I	I	I	
10 g		I	T	T	T	I	I	2 2			I	I	I	T		F	
20 g		1 5	1 E	1 B	11	1 5	1 5	1 5			1 5	10	1 5	10	1 5	1 5	
50 g		I	T	I	I	I	I	10			I	I	I	I	-		
100 g		T	T	T	I		I	4 5			I	I	I	T			
200 g		10	10	10	10		10	10			1 5	10	10	10		11	
500 g			T	T	T		I	T T					I				
1 kg			T	T	I			1 5	T			I	I	F			I
2 kg				10	11				10				10	1 5			10
5 kg					I				I								1
No. of Weights	12	23	25	27	28	8	12	38	4	12	23	25	27	28	8	12	4
Weights in	00159300	00159340	00159350	11117614	11117616	00159310	00159320	00159360	00159330								
Wooden Box	00159301	00159341	00159351	11117615	11117617	00159311	00159321	00159361	00159331								
		,					Weia	hts in Pla	stic Box	-	-	-	-	-	-	-	-
	Weights in Plastic Box 30003732 30003734 30003735 30003736 30003737 30003738 30003738 30003739 30003739												30003740				



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	Δ	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
10 mg	Δ	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
20 mg	$\triangle \triangle$		$\triangle \triangle$		$\triangle \triangle$			
50 mg	Δ	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
100 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
200 mg	$\triangle \triangle$				$\triangle \triangle$			
500 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
1 g		I	I	I	I	T		
2 g		1 2	I 5	1 2	1 5	1 2	1 2	
5 g		I	I	I	I	I	I	
10 g		I	I	I	I	I	I	
20 g		10	1 5	1 5	1 5	1 5	1 5	
50 g		I	I	I	I	I	I	
100 g		I	I	I	I		I	
200 g		10	1 5	1 5	1 5		1 5	
500 g			I	I	I		I	
1 kg			I	I	I			I
2 kg				1 5	10			<b>T G</b>
5 kg					I			I
No. of Weights	12	23	25	27	28	8	12	4
Weights in	-	-	-	-	-	-	-	-
Plastic Box	30003767	30003768	30003769	30003770	30003771	30003772	30003773	30003774

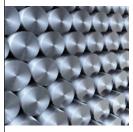
## **Standard Line**OIML E2 and F1





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 anticorrosive 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

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Marked sheet weight

Cylindrical weight with knob

Marked cylindrical weight with knob

Indiv	/idual		
We	eights	E2	
Nominal	Ü	Order number	
value	Shape	Weight in Plastic Box	
1 mg		30014210	00158307
2 mg		30014211	00158317
5 mg		30014212	00158327
10 mg		30014213	00158337
20 mg		30014214	00158347
50 mg		30014215	00158357
100 mg		30014216	00158367
200 mg		30014217	00158377
500 mg		30014218	00158387
1 g	I	30014219	00158397
2 g	I	30014220	00158407
5 g	I	30014221	00158417
10 g	I	30014222	00158427
20 g	I	30014223	00158437
50 g	I	30014224	00158447
100 g	I	30014225	00158457
200 g	I	30014226	00158467
500 g	I	30014227	00158477
1 kg	I	30014228	00158487
2 kg	I	30014229	00158497
5 kg	I	30014230	00158507
10 kg	I	30014231	00158517
20 kg	I	30014232	00158527

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

Weight	<b>E2</b>							
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	Δ	Δ	Δ	Δ	Δ			
2 mg								
5 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
10 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
20 mg			$\triangle \triangle$					
50 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
100 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
200 mg			$\triangle \triangle$					
500 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
1 g				I	I	H	I	
2 g		1 5	1 2	1 T	1 2	1 2	1 2	
5 g		I		I	I	I	I	
10 g		I		I				
20 g		I 5	I 5	1 2	1 2	I 5	I 5	
50 g		I	I	I	I	I	I	
100 g		I	I	I	T		I	
200 g		1 2	1 2	10	1 2		1 2	
500 g			I	I	I		I	
1 kg			I	I	I			I
2 kg				1 2	1 5			1 5
5 kg					I			I
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	FI							
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	Δ	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
2 mg								
5 mg	$\triangle$	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
10 mg	Δ	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
20 mg				$\triangle \triangle$				
50 mg	Δ	$\triangle$	$\triangle$	$\triangle$	$\triangle$			
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 2	1 1	1 4	1 2	1 1	1 2	
5 g		I	I	I	I	I	I	
10 g		I	I	I	I	I	I	
20 g		1 2	1 2	1 2	1 2	1 5	1 2	
50 g		I	I	I	I	I	I	
100 g		I	I	I	I		I	
200 g		1 2	1 1	1 4	1 5		1 5	
500 g			I	I	I		I	
1 kg			I	I	I			I
2 kg				11	11			1 4
5 kg					T			I
No. of Weights	12	23	25	27	28	8	12	4
Weights in	30014264	30014265	30014266	30014267	30014268	30014269	30014270	30014271
Plastic Box	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 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

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Marked sheet weight

Cylindrical weight with knob

Marked cylindrical weight with knob

### Individual Weights

		FI		F2		M1		
Nominal value	Shape	Order number Plastic Box		Order nun Plastic Be		Order number Plastic Box		
1 mg		111119491	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	Ŧ	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							
00.0	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		1 5	1 5	1 5	1 5	1 5	1 2
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 2	1 2	1 2	1 5		1 2
500 g			I	I	I		I
1 kg			I	I	I		
2 kg				11	11		
5 kg					I		
No. of Weights	12	23	25	27	28	8	12
Weights in	11119511	11119512	11119513	111119514	11119515	11119516	11119517
Plastic Box	11119581	11119582	11119583	11119584	11119585	11119586	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	I 5	1 5	1 2	I 5
	I	I	I	I	I	I
	I	I	I	I	I	I
	1 5	1 5	1 5	1 5	1 5	1 5
	I	I	I	I	I	I
	I	I	I	I		I
	1 2	1 5	1 5	1 5		10
		I	I	I		I
		I	I	I		
			1 5	1 5		
				I		
12	23	25	27	28	8	12
11118456	11118457	11118458	11118459	11118460	111118461	11118462
11118339	11118340	11118341	11118342	11118343	11118344	11118345

Weight	M1						
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			П	Z Ng □		00 g	000 g
2 mg							
5 mg							
10 mg							
20 mg							
50 mg							
100 mg							
200 mg							
500 mg							
1 g		I	H	H	I	I	H
2 g		<b>3</b> 5	10	1	2 2	<b>3</b> 5	ă
5 g		I			I	I	I
10 g		I		I	I	I	I
20 g		1 5	1 5	1 2	1 2	1 2	10
50 g		I	I	I	I	I	I
100 g		I	I	I	I		I
200 g		1 5	1 5	1 2	1 2		1 5
500 g			I	I	I		I
1 kg				I	I		
2 kg				1 2	1 5		
5 kg					I		
No. of Weights	12	23	25	27	28	8	12
Weights in	11117862	11117863	11117864	11117865	11117866	11117867	11117868
Plastic Box	11117771	11117772	11117773	11117774	11117775	11117776	11117777

### **ASTM Weights**

### Classes 1-4

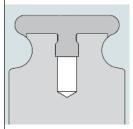






Low magnetic permeability and high corrosion resistance ensure reliable values. All weights are made of stainless steel, even for mg weights no aluminum is used. Weights are manufactured under METTLER TOLEDO's stringent ISO9001 quality management system.

#### **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

Cylindrical weight with knob

Marked cylindrical weight with knob

## Individual Weights

110.90									
		Class 1		Class 2		Class 3		Class	4
Nominal value	Shape	Order num Weight in I							
1 mg		11123446	11123469	11123492	11123515	11123538	11123561	11123584	11123607
2 mg		11123447	11123470	11123493	11123516	11123539	11123562	11123585	11123608
5 mg		11123448	11123471	11123494	11123517	11123540	11123563	11123586	11123609
10 mg		11123449	11123472	11123495	11123518	11123541	11123564	11123587	11123610
20 mg		11123450	11123473	11123496	11123519	11123542	11123565	11123588	11123611
50 mg		11123451	11123474	11123497	11123520	11123543	11123566	11123589	11123612
100 mg		11123452	11123475	11123498	11123521	11123544	11123567	11123590	11123613
200 mg		11123453	11123476	11123499	11123522	11123545	11123568	11123591	11123614
500 mg		11123454	11123477	11123500	11123523	11123546	11123569	11123592	11123615
1 g	I	11123455	11123478	11123501	11123524	11123547	11123570	11123593	11123616
2 g	I	11123456	11123479	11123502	11123525	11123548	11123571	11123594	11123617
5 g	I	11123457	11123480	11123503	11123526	11123549	11123572	11123595	11123618
10 g	I	11123458	11123481	11123504	11123527	11123550	11123573	11123596	11123619
20 g	I	11123459	11123482	11123505	11123528	11123551	11123574	11123597	11123620
50 g	I	11123460	11123483	11123506	11123529	11123552	11123575	11123598	11123621
100 g	I	11123461	11123484	11123507	11123530	11123553	11123576	11123599	11123622
200 g	I	11123462	11123485	11123508	11123531	11123554	11123577	11123600	11123623
500 g	I	11123463	11123486	11123509	11123532	11123555	11123578	11123601	11123624
1 kg	I	11123464	11123487	11123510	11123533	11123556	11123579	11123602	11123625
2 kg	I	11123465	11123488	11123511	11123534	11123557	11123580	11123603	11123626
5 kg	T	11123466	11123489	11123512	11123535	11123558	11123581	11123604	11123627
10 kg	I	11123467	11123490	11123513	11123536	11123559	11123582	11123605	11123628
20 kg	I	11123468	11123491	11123514	11123537	11123560	11123583	11123606	11123629

#### Weight Sets



1 mg 1 kg

10 mg 50 g

1 g 100 g

50 mg

1 g 500 g

1 mg

5 kg

2 kg



		•	_	_		_	_					i 1	
ROISMIDNOS		100 mg											
Manual		200 mg											
· oW ting		500 mg											
		1 g		T	I	I	T	I	I	T		I	I
Refer to page 26		2 g		1 5	1 5	1 5	1 5	1 2	1 5	1 5		1 1	I 5
		5 g		T	I	I	T	I	I	T		I	I
		10 g		T	I	I	T	I	I	T		I	I
		20 g		1 5	1 4	10	1 5	1 2	1 D	1 5		1 1	I 5
		50 g		I	I	I	I	I	I	I		I	I
		100 g		I	I	I	I	I	I			I	I
		200 g			1 2	1 5	1 5	1 5	1 5				I 5
		500 g				I	I	I	I				I
		1 kg					I	I	I				
		2 kg						1 5	1 5				
		5 kg							I				
	Number	of Weights	12	21	23	24	25	27	28	16	8	9	12
class 1	Weights in	Plastic Box									11124016		
iuss i	Worgino in	I Idollo Box	11124001	11124003	11124005	11124007	11124009	11124011	11124013	11124015	11124017	11124019	11124021
			11124022	11124024	11124026	11124020	11124020	11124022	11124024	11124026	11124038	11124040	11124042
lass 2	Weights in	Plastic Box	-	-							11124039		
Weights in Plastic B		Plastic Rox	11124044	11124046	11124048	11124050	11124052	11124054	11124056	11124058	11124060	11124062	11124064
		I Idollo Box	11124045	11124047	11124049	11124051	11124053	11124055	11124057	11124059	11124061	11124063	11124065
			11104000	11104000	11104070	11104070	11104074	11104070	11104070	11104000	11124082	11104004	11104000
lass 4	Weights in	Plastic Box					-				11124082		
			11124007	11124003	11124071	11124073	11124073	11124077	11124073	11124001	11124000	11124000	11124007

1 mg 500 mg

1 mg

2 mg

5 mg

10 mg

20 mg

50 mg

1 mg 100 g

1 mg

200 g

500 g

#### 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 Metric

Stainless steel
Density: 7.9 kg/dm³



	OIML F2		OIML M1		
Nominal value	Order numb	er	Order numb	er	
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	

#### Heavy Capacity Weights Avoirdupois

Cast iron Painted

Density: 7.2 kg/dm<sup>3</sup>

NIST F				
Order numb	per			
11125620	11125653			
11125621	11125654			
11125622	11125655			
11125626	11125659			
11125627	11125660			
	Order numb 11125620 11125621 11125622 11125626			



#### **Grip Handle Weights**

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



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



	OIML F1		OIML 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 Metric

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 Metric

Cast iron

Two-component coating Density: 7.2 kg/dm<sup>3</sup>



Nominal value	Order number
50 kg	11125498
100 kg	11125500
200 kg	11125501
500 kg	11125502
1000 kg	11125503
2000 kg	11125504
5000 kg	11125505



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



	Order number
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 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
	•

#### Miscellaneous Accessories



Nylon gloves

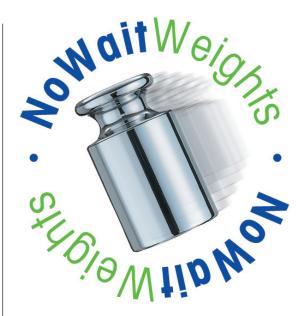


C	order number
Leather gloves, pair, not suitable for regulated environments	00072001
Nylon gloves, pair, suitable for all environments	11123098
Micro fibre cloth, suitable for all environments	00158798
Brush, suitable for all environments	00158799
Weight marking, up to 5 digits, alphanumeric, on 1 g $-$ 50 kg weights	11116500
Air bellow, for weight cleaning	11116548

## **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! Go to **www.mt.com/estore** to start shopping now!

www.mt.com/na-nowait

<sup>\*</sup> Re-calibration applies to 1mg — 1kg 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.



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.

#### 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 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 vs. entire set
- Time savings easy and quick to use testing approach supported by manufacturer SOPs
- Testing against process tolerances as low as 0.03%

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For more information



#### **Quality certificates**

Development, production and testing under ISO 9001.



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#### "Communauté Européenne"

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