



PRODUCT BROCHURE
WEIGHING PRODUCTS



YANTAI JIAJIA INSTRUMENT CO.,LTD

Add: No.1 Jinhua Street, Zhifu District, Yantai, Shandong
P.R. of China
Tel: 0086-535-6658296
Email: info@jjweighing.com
Web: www.jjweighing.com www.jjweigh.com



T **CALIBRATION WEIGHT**
ECHNOLOGY

YANTAI JIAJIA
INSTRUMENT
CO.,LTD

- ZERO DEFECT IN PRODUCT QUALITY.
ZERO DISTANCE IN SERVICE.
ZERO CUSTOMER COMPLAINS.
- CREATE THE BEST PROFESSIONAL
TEAM AND ESTABLISH THE BEST
BRAND.
- DETAILS MAKE A DIFFERENCE.
ATTITUDE DECIDES EVERYTHING.
SAFE, ECO-FRIENDLY, PROFESSIONAL,
PRECISE.

Company profile

Yantai Jiajia Instrument Co., Ltd. is a weighing apparatus company jointly established by four brother companies. The main products are calibration weights, load cells, truck scales, balances and other weighing products. The company has more than 1,700 employees, including more than 230 professional and technical personnel, fixed-asset investment of 67.5 million US dollars, complete testing equipment are well-equipped, and won a total of more than 1,600 patents by 2022. The sales area covers more than 50 countries and regions Europe, including America, Japan, South Korea, Southeast Asia, etc.

The company adheres to the corporate culture that details determine success or failure, attitude determines everything, adheres to the concept of green and sustainable development, and always pursues the highest corporate goal of zero quality complain in products, zero distance in logistics, and zero customer worries in service.

We strictly implement the production process, meticulously craft and improve the craftsmanship to become a high-quality product. We actively serve customers, communicate sincerely, and serve faithfully.

Warmly welcome friends from all over the world to visit our company for on-the-spot investigation and negotiation, mutual benefit and win-win, and seek a better future together.

Jiajia is the leading supplier of precision weights and mass standards in China. Since 2005, Jiajia has enhanced its reputation as being the premier precision weight company by having industry recognized metrologists and highly trained calibrators on staff. Jiajia's production of precision weights involves using the finest materials and equipment available in a state-of-the-art facility.

We have been manufacturing weights and conducting mass measurements for over 18 years! We have worked with accredited lab in CNAS in China to track and control our measurement processes to assure superior quality. Like anything else, with repetition comes learning, refinement and constant improvement.

Our mass laboratories were specifically constructed to create an environment of stable temperature and humidity, low vibrations, and low air velocity, which is suitable for making precise mass measurements.

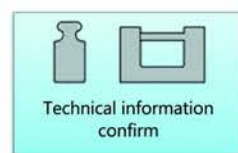
Jiajia has a series collection of mass comparators of Radwag and high accuracy mechanical balance, and we are constantly purchasing new comparators to keep our capabilities up-to-date to maintain the highest level of precision.

We select only the finest raw materials in order to manufacture high quality weights. We start with the best material so we can achieve excellent surface finishes on the final product.

The true test of how well we perform calibrations is in the reported uncertainty which provides a higher confidence to the user in the repeatability of our calibration process.



PROCESS



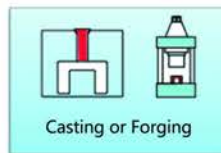
Technical information confirm

01



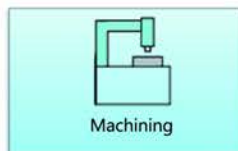
Prepare Raw Material

02



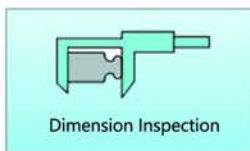
Casting or Forging

03



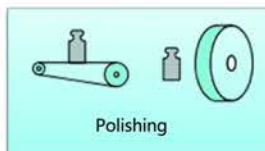
Machining

04



Dimension Inspection

05



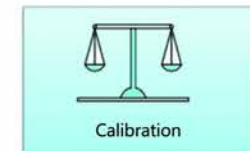
Polishing

06



Cleaning

07



Calibration

08



Marking

09



Package and Delivery

10

HOW TO CHOOSE NECESSARY WEIGHT YOU NEED

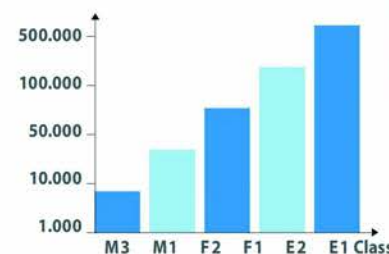
Maximum Susceptibility, χ

Weight class	E1	E2	F1	F2
m≤1g	0.25	0.9	10	—
2g≤m≤10g	0.06	0.18	0.7	4
20g≤m	0.02	0.07	0.2	0.8



Maximum Polarization, $\mu_0 M, (\mu T)$

Weight class	E1	E2	F1	F2	M1	M1-2	M2	M2-3	M3
Maximum polarization	2.5	8	25	80	250	500	800	1600	2500
A/m	2	6.4	20	64	200	400	640	1280	2000



Weight intervals n	n =	Max. load capacity Scale interval d
Accuracy of the balance (scale)		Resolution of the balance: quotient of max. rang/readability
IV Ordinary accuracy scale		≤1.000d
III Medium accuracy scale		≤10.000d
II Precision balance		≤30.000d
		≤100.000d
I Analytical balance		ab 100.000d
		Class E2

Density of Weights Material

	Density	Density uncertainty
	kg/m ³	kg/m ³
		U(k=2)
High Quality Stainless Steel	8000	±80
Non-magnetic stainless steel	7950	±100
Stainless Steel	7900	±140
Steel	7850	±200
Cast Iron	7200	±400
Aluminium	2700	±120
Brass	8500	±100

Minimum and Maximum limits for Density (ρ_{min}, ρ_{max})

	$\rho_{min}, \rho_{max} (10^3 \text{ kg/m}^3)$							
	Class of weight (for class M3, no value is specified)							
	E1	E2	F1	F2	M1	M12	M2	M23
≥100g	7.934-8.067	7.81-8.21	7.39-8.73	6.4-10.7	≥4.4	>3.0	≥2.3	≥1.5
50g	7.92-8.08	7.74-8.28	7.27-8.89	6.0-12.0	≥4.0			
20g	7.84-8.17	7.50-8.57	6.6-10.1	4.8-24.0	≥2.6			
10g	7.74-8.28	7.27-8.89	6.0-12.0	≥4.0	≥2.0			
5g	7.62-8.42	6.9-9.6	5.3-16.0	≥3.0				
2g	7.27-8.89	6.0-12.0	≥4.0	≥2.0				
1g	6.9-9.6	5.3-16.0	≥3.0					
500mg	6.3-10.9	≥4.4	≥2.2					
200mg	5.3-16.0	≥3.0						
100mg	≥4.4							
50mg	≥3.4							
20mg	≥2.3							

Index



E1 CLASS
Stainless Steel

06-08



E2 CLASS
Stainless Steel

09-11



F1 CLASS
Stainless Steel

12-14



F2 CLASS
Stainless Steel

15-17



M1 CLASS
Stainless Steel
Chrome plated
Brass
Cast Iron

18-22



ACCESSORIES

23-25



CLASS



Solid Weight



1mg-500mg

■ Flat Polygonal Sheets

1g-20kg

■ Knob Weight



Individual:
Aluminum Case

Weight Set:
Aluminum Case

■ Individual Weight

■ 1mg-500mg Aluminum Box

■ Weight Set



OIML Class E1 - Used as a primary reference for calibrating other reference standards and weights where the stability of the environment and careful handling are assured. Class E1 weights have no method of adjustment and are not suitable for general laboratory use. The uncertainty is guaranteed to be 1/3 the tolerance.

WEIGHT SET

NOMINAL VALUE	MATERIAL	SERIAL No.	PCS	RANGE (g)	PACKING SIZE(mm)	WEIGHT (kg)	ACCESS ORIES	PACK
1mg-500mg	SS316L	11211513	12	1.11	70*50*9	0.53	Tweezer Wipes	
1mg-100g	SS316L	11211523	21	211.11	165*140*68	0.83	Tweezer Wipes	
1mg-200g	SS316L	11211533	23	611.11	180*140*82	1.62	Tweezer Wipes	
1mg-500g	SS316L	11211543	24	1111.11	200*148*112	2.12	Tweezer Wipes	
1mg-1kg	SS316L	11211553	25	2111.11	228*148*112	3.54	Tweezer Wipes	
1mg-2kg	SS316L	11211563	27	6111.11	262*203*135	7.97	Tweezer Wipes	
1kg-5kg	SS316L	11211573	4	10000.00	253*183*173	11.35	Tweezer Wipes	
1mg-5kg	SS316L	11211583	28	11111.11			Tweezer Wipes	
1mg-10kg	SS316L	11211593	29	21111.11			Tweezer Wipes	
1mg-20kg	SS316L	11211603	30	41111.11			Tweezer Wipes	



INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	PACK
1 mg	0.003	SS316L	11211112	33*14	0.2		
2 mg	0.003	SS316L	11211122	33*14	0.2		
5 mg	0.003	SS316L	11211132	33*14	0.2		
10 mg	0.003	SS316L	11211142	33*14	0.2		
20 mg	0.003	SS316L	11211152	33*14	0.2		
50 mg	0.004	SS316L	11211162	33*14	0.2		
100 mg	0.005	SS316L	11211172	33*14	0.2		
200 mg	0.006	SS316L	11211182	33*14	0.2		
500 mg	0.008	SS316L	11211192	33*14	0.2		
1g	0.01	SS316L	11311202	27*42	0.21		
2g	0.12	SS316L	11311212	27*42	0.21		
5g	0.016	SS316L	11311222	27*42	0.21		
10g	0.02	SS316L	11311232	27*42	0.21		
20g	0.025	SS316L	11312242	27*42	0.22		
50g	0.03	SS316L	11312252	27*42	0.25		
100g	0.05	SS316L	11312262	34.1*54.7	0.3		
200g	0.1	SS316L	11312272	42.6*58.6	0.4		
500g	0.25	SS316L	11312282	52.4*77.9	0.7		
1kg	0.5	SS316L	11312292	63.8*97.5	1.2		
2kg	1	SS316L	11312302	76.2*117.4	2.3		
5kg	2.5	SS316L	11312312	97*162.7	5.8		
10kg	5	SS316L	11312322				
20kg	10	SS316L	11312332				

E2

CLASS



Weight

Solid Weight



Shape

1mg-500mg
Flat Polygonal Sheets



1g-20kg
Knob Weight



Packing

Individual:
ABS Box / Aluminum Case

Weight Set:
Aluminum Case



Individual Weight



1MG-500MG ABS Box



Weight Set



OIML Class E2 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg



JIAJIA-the specialized in the R & D production and marketing of weighing products

INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	PACK
1 mg	0.006	SS316L	12211112	33*14	0.02	▲	—
2 mg	0.006	SS316L	12211122	33*14	0.02	■	—
5 mg	0.006	SS316L	12211132	33*14	0.02	◆	—
10 mg	0.008	SS316L	12211142	33*14	0.02	▲	—
20 mg	0.010	SS316L	12211152	33*14	0.02	■	—
50 mg	0.012	SS316L	12211162	33*14	0.02	◆	—
100 mg	0.016	SS316L	12211172	33*14	0.02	▲	—
200 mg	0.020	SS316L	12211182	33*14	0.02	■	—
500 mg	0.025	SS316L	12211192	33*14	0.02	◆	—
1g	0.03	SS316L	12311202	27*42	0.021	■	■
2g	0.04	SS316L	12311212	27*42	0.022	■	■
5g	0.05	SS316L	12311222	27*42	0.025	■	■
10g	0.06	SS316L	12311232	27*42	0.03	■	■
20g	0.08	SS316L	12311242	27*42	0.04	■	■
50g	0.10	SS316L	12311252	27*42	0.07	■	■
100g	0.16	SS316L	12311262	34.1*54.7	0.12	■	■
200g	0.3	SS316L	12311272	42.6*58.6	0.23	■	■
500g	0.08	SS316L	12311282	52.4*77.9	0.56	■	■
1kg	1.6	SS316L	12311292	63.8*97.5	1.1	■	■
2kg	3.0	SS316L	12311302	76.2*117.4	2.2	■	■
5kg	8.0	SS316L	12311312	97*162.7	5.4	■	■
10kg	16	SS316L	12311322			■	■
20kg	30	SS316L	12311332			■	■

WEIGHT SET

NOMINAL VALUE	MATERIAL	SERIAL No.	PCS	RANGE (g)	PACKING SIZE(mm)	WEIGHT (kg)	ACCESS ORIES	PACK
1mg-500mg	SS316L	11211513	12	1.11	70*50*9	0.53	Tweezer Wipes	—
1mg-100g	SS316L	11211523	21	211.11	165*140*68	0.83	Tweezer Wipes	—
1mg-200g	SS316L	11211533	23	611.11	180*140*82	1.62	Tweezer Wipes	—
1mg-500g	SS316L	11211543	24	1111.11	200*148*112	2.12	Tweezer Wipes	—
1mg-1kg	SS316L	11211553	25	2111.11	228*148*112	3.54	Tweezer Wipes	—
1mg-2kg	SS316L	11211563	27	6111.11	262*203*135	7.97	Tweezer Wipes	—
1kg-5kg	SS316L	11211573	4	10000.00	253*183*173	11.35	Tweezer Wipes	—
1mg-5kg	SS316L	11211583	28	11111.11			Tweezer Wipes	—
1mg-10kg	SS316L	11211593	29	21111.11			Tweezer Wipes	—
1mg-20kg	SS316L	11211603	30	41111.11			Tweezer Wipes	—



CLASS



Weight

1mg-20g
Solid

50g-20kg
Solid/ Adjustment Cavity

Solid Weight

Bottom Adjustment

Top Adjustment

Neck Adjustment

Shape

1mg-500mg
Flat Polygonal Sheets
■

1g-20kg
Knob Weight

1kg-20kg
Rectanular shape

Packing

Individual:
ABS Box /Aluminum Case

Weight Set:
Aluminum Case

Individual Weight

1mg-500mg
ABS BOX

Weight Set



OIML Class F1 - Appropriate for calibrating high-precision toploading balances with a readability as low as 0.01 g to 0.001 g.

WEIGHT SET

NOMINAL VALUE	MATERIAL	SERIAL No.	PCS	RANGE (g)	PACKING SIZE(mm)	WEIGHT (kg)	ACCESSORIES	Adjustment cavity	PACK
1mg-500mg	SS316L/SS304	13211513	12	1.11	70*50*9	0.2	Tweezer Wipes		
1mg-100g	SS316L/SS304	13311523	21	211.11	165*140*78	0.5	Tweezer Wipes		
1mg-200g	SS316L/SS304	13311533	23	611.11	180*140*82	1.6	Tweezer Wipes		
1mg-500g	SS316L/SS304	13311543	24	1111.11	202*140*98	2.2	Tweezer Wipes		
1mg-1kg	SS316L/SS304	13311553	25	2111.11	230*145*113	4.1	Tweezer Wipes		
1mg-2kg	SS316L/SS304	13311563	27	6111.11	264*203*136	8.4	Tweezer Wipes		
1kg-5kg	SS316L/SS304	13311573	4	10000.00	253*183*182	12.0	Tweezer Wipes		
1mg-5kg	SS316L/SS304	13311583	28	11111.11	430*210*180	14.2	Tweezer Wipes		
1mg-10kg	SS316L/SS304	13311593	29	21111.11			Tweezer Wipes		
1mg-20kg	SS316L/SS304	13311603	30	41111.11			Tweezer Wipes		

INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	Adjustment cavity	PACK
1 mg	0.020	SS316L/SS304	11211112	33*14	0.02		—	
2 mg	0.020	SS316L/SS304	11211122	33*14	0.02		—	
5 mg	0.020	SS316L/SS304	11211132	33*14	0.02		—	
10 mg	0.025	SS316L/SS304	11211142	33*14	0.02		—	
20 mg	0.03	SS316L/SS304	11211152	33*14	0.02		—	
50 mg	0.04	SS316L/SS304	11211162	33*14	0.02		—	
100 mg	0.05	SS316L/SS304	11211172	33*14	0.02		—	
200 mg	0.06	SS316L/SS304	11211182	33*14	0.02		—	
500 mg	0.08	SS316L/SS304	11211192	33*14	0.02		—	

INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	Adjustment cavity	PACK
1g	0.10	SS316L/SS304	13311202	27*42	0.021		—	
2g	0.12	SS316L/SS304	13311212	27*42	0.022		—	
5g	0.16	SS316L/SS304	13311222	27*42	0.025		—	
10g	0.20	SS316L/SS304	13311232	27*42	0.03		—	
20g	0.25	SS316L/SS304	13311242	27*42	0.04		—	
50g	0.3	SS316L/SS304	13311252	27*42	0.07			
100g	0.5	SS316L/SS304	13311262	34.1*54.7	0.12			
200g	1.0	SS316L/SS304	13311272	42.6*58.6	0.23			
500g	2.5	SS316L/SS304	13311282	52.4*77.9	0.56			
1kg	5.0	SS316L/SS304	13311292	63.8*97.5	1.1			
2kg	10	SS316L/SS304	13311302	76.2*117.4	2.2			
5kg	25	SS316L/SS304	13311312	97*162.7	5.4			
10kg	50	SS316L/SS304	13311322					
20kg	100	SS316L/SS304	13311332					



NOMINAL VALUE	MATERIAL	SERIAL No.	PACKING SIZE(mm)	SHAPE	Adjustment cavity	PACK
1 kg	SS304	13412111				
2 kg	SS304	13412121				
5 kg	SS304	13412131	192*118*134			
10 kg	SS304	13412141	263*133*135			
20 kg	SS304	13412151	283*143*181			
25 kg	SS304	13412161				
50 kg	SS304	13412171				

F2 CLASS



JIAJIA-the specialized in the R & D production and marketing of weighing products

WEIGHT SET

NOMINAL VALUE	MATERIAL	SERIAL No.	PCS	RANGE (g)	PACKING SIZE(mm)	WEIGHT (kg)	ACCESSORIES	Adjustment cavity	PACK
1mg-500mg	SS304	14212513	12	1.11	70*50*9	0.2	Tweezer Wipes	—	—
1mg-100g	SS304	14332523	21	211.11	165*140*78	0.5	Tweezer Wipes	🔧🔧🔧	📦
1mg-200g	SS304	14332533	23	611.11	180*140*82	1.6	Tweezer Wipes	🔧🔧🔧	📦
1mg-500g	SS304	14332543	24	1111.11	202*140*98	2.2	Tweezer Wipes	🔧🔧🔧	📦
1mg-1kg	SS304	14332553	25	2111.11	230*145*113	4.1	Tweezer Wipes	🔧🔧🔧	📦
1mg-2kg	SS304	14332563	27	6111.11	264*203*136	8.4	Tweezer Wipes	🔧🔧🔧	📦
1kg-5kg	SS304	14332573	4	10000.00	253*183*182	12.0	Tweezer Wipes	🔧🔧🔧	📦
1mg-5kg	SS304	14332583	28	11111.11	430*210*180	14.2	Tweezer Wipes	🔧🔧🔧	📦
1mg-10kg	SS304	14332593	29	21111.11			Tweezer Wipes	🔧🔧🔧	📦
1mg-20kg	SS304	14332603	30	41111.11			Tweezer Wipes	🔧🔧🔧	📦

INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	PACK
1 mg	0.06	SS304	14212112	33*14	0.02	▲	—
2 mg	0.06	SS304	14212122	33*14	0.02	■	—
5 mg	0.06	SS304	14212132	33*14	0.02	⬠	—
10 mg	0.08	SS304	14212142	33*14	0.02	▲	—
20 mg	0.10	SS304	14212152	33*14	0.02	■	—
50 mg	0.12	SS304	14212162	33*14	0.02	⬠	—
100 mg	0.16	SS304	14212172	33*14	0.02	▲	—
200 mg	0.20	SS304	14212182	33*14	0.02	■	—
500 mg	0.25	SS304	14212192	33*14	0.02	⬠	—
1g	0.3	SS304	14332202	27*42	0.021	🔧	📦
2g	0.4	SS304	14332212	27*42	0.022	🔧	📦

Weight

1mg-20g Solid
50g-20kg Adjustment Cavity

🔧 Solid Weight 🔧 Bottom Adjustment 🔧 Top Adjustment 🔧 Neck Adjustment

Shape

1mg-500mg Flat Polygonal Sheets
1g-20kg Knob Weight
1kg-20kg Rectangular shape

Packing

Individual: ABS Box / Aluminum Case
Weight Set: Aluminum Case

📦 Individual Weight 📦 1mg-500mg 📦 Weight Set



OIML Class F2 - For calibration of semi-analytical balances and for student use.



JIAJIA-the specialized in the R & D production and marketing of weighing products

INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	Adjustment cavity	PACK
5g	0.5	SS304	14332222	27*42	0.025		—	
10g	0.6	SS304	14332232	27*42	0.03		—	
20g	0.8	SS304	14332242	27*42	0.04		—	
50g	1.0	SS304	14332252	27*42	0.07			
100g	1.6	SS304	14332262	34.1*54.7	0.12			
200g	3	SS304	14332272	42.6*58.6	0.23			
500g	8	SS304	14332282	52.4*77.9	0.56			
1kg	16	SS304	14332292	63.8*97.5	1.1			
2kg	30	SS304	14332302	76.2*117.4	2.2			
5kg	80	SS304	14332312	97*162.7	5.4			
10kg	160	SS304	14332322					
20kg	300	SS304	14332332					



NOMINAL VALUE	MATERIAL	SERIAL No.	PACKING SIZE(mm)	SHAPE	Adjustment cavity	PACK
1 kg	SS304	14412111				
2 kg	SS304	14412121				
5 kg	SS304	14412131	192*118*134			
10 kg	SS304	14412141	263*133*135			
20 kg	SS304	14412151	283*143*181			
25 kg	SS304	14412161				
50 kg	SS304	14412171				

M1

CLASS



Weight

1mg-20g
Solid

50g-20kg
Adjustment Cavity



Shape

1mg-500mg
Flat Polygonal Sheets

1g-20kg
Knob Weight

1kg-20kg
Rectangular shape



Packing

Individual:
ABS Box / Aluminum Case

Weight Set:
Aluminum Case



OIML Class M1, M2, M3 - Economical weights for general laboratory, industrial, commercial, technical and educational use. Typically fabricated from cast iron or stainless steel.



M1 WEIGHT SET- STAINLESS STEEL

NOMINAL VALUE	MATERIAL	SERIAL No.	PCS	RANGE (g)	PACKING SIZE(mm)	WEIGHT (kg)	ACCESSORIES	Adjustment cavity	PACK
1mg-500mg	SS304/SS213	15213513	12	1.11	70*50*9	0.2	Tweezer Wipes	—	—
1mg-100g	SS304/SS213	15333523	21	211.11	165*140*78	0.5	Tweezer Wipes	☞☞☞	☞☞☞
1mg-200g	SS304/SS213	15333533	23	611.11	180*140*82	1.6	Tweezer Wipes	☞☞☞	☞☞☞
1mg-500g	SS304/SS213	15333543	24	1111.11	202*140*98	2.2	Tweezer Wipes	☞☞☞	☞☞☞
1mg-1kg	SS304/SS213	15333553	25	2111.11	230*145*113	4.1	Tweezer Wipes	☞☞☞	☞☞☞
1mg-2kg	SS304/SS213	15333563	27	6111.11	264*203*136	8.4	Tweezer Wipes	☞☞☞	☞☞☞
1kg-5kg	SS304/SS213	15333573	4	10000.00	253*183*182	12.0	Tweezer Wipes	☞☞☞	☞☞☞
1mg-5kg	SS304/SS213	15333583	28	11111.11	430*210*180	14.2	Tweezer Wipes	☞☞☞	☞☞☞
1mg-10kg	SS304/SS213	15333593	29	21111.11			Tweezer Wipes	☞☞☞	☞☞☞
1mg-20kg	SS304/SS213	15333603	30	41111.11			Tweezer Wipes	☞☞☞	☞☞☞

M1 WEIGHT SET- CHROME PLATED

NOMINAL VALUE	MATERIAL	SERIAL No.	PCS	RANGE (g)	PACKING SIZE(mm)	WEIGHT (kg)	ACCESSORIES	Adjustment cavity	PACK
1mg-100g	Chrome plated	15333523	21	211.11	165*140*78	0.5	Tweezer Wipes	☞☞☞	—
1mg-200g	Chrome plated	15333533	23	611.11	180*140*82	1.6	Tweezer Wipes	☞☞☞	☞☞☞
1mg-500g	Chrome plated	15333543	24	1111.11	202*140*98	2.2	Tweezer Wipes	☞☞☞	☞☞☞
1mg-1kg	Chrome plated	15333553	25	2111.11	230*145*113	4.1	Tweezer Wipes	☞☞☞	☞☞☞
1mg-2kg	Chrome plated	15333563	27	6111.11	264*203*136	8.4	Tweezer Wipes	☞☞☞	☞☞☞
1kg-5kg	Chrome plated	15333573	4	10000.00	253*183*182	12.0	Tweezer Wipes	☞☞☞	☞☞☞
1mg-5kg	Chrome plated	15333583	28	11111.11	430*210*180	14.2	Tweezer Wipes	☞☞☞	☞☞☞
1mg-10kg	Chrome plated	15333593	29	21111.11		25.4	Tweezer Wipes	☞☞☞	☞☞☞
1mg-20kg	Chrome plated	15333603	30	41111.11		47	Tweezer Wipes	☞☞☞	☞☞☞



M1 WEIGHT SET- CHROME PLATED

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	Adjustment cavity	PACK
1 mg	0.20	SS304/SS213	15213112	33*14	0.02	▲	—	—
2 mg	0.20	SS304/SS213	15213122	33*14	0.02	■	—	—
5 mg	0.20	SS304/SS213	15213132	33*14	0.02	◆	—	—
10 mg	0.25	SS304/SS213	15213142	33*14	0.02	▲	—	—
20 mg	0.3	SS304/SS213	15213152	33*14	0.02	■	—	—
50 mg	0.4	SS304/SS213	15213162	33*14	0.02	◆	—	—
100 mg	0.5	SS304/SS213	15213172	33*14	0.02	▲	—	—
200 mg	0.6	SS304/SS213	15213182	33*14	0.02	■	—	—
500 mg	0.8	SS304/SS213	15213192	33*14	0.02	◆	—	—
1g	1.0	SS304/SS213	15333202	27*42	0.021	☞	—	☞
2g	1.2	SS304/SS213	15333212	27*42	0.022	☞	—	☞
5g	1.6	SS304/SS213	15333222	27*42	0.025	☞	—	☞
10g	2.0	SS304/SS213	15333232	27*42	0.03	☞	—	☞
20g	2.5	SS304/SS213	15333242	27*42	0.04	☞	—	☞
50g	3.0	SS304/SS213	15333252	27*42	0.07	☞	☞☞☞	☞
100g	5.0	SS304/SS213	15333262	34.1*54.7	0.12	☞	☞☞☞	☞
200g	10	SS304/SS213	15333272	42.6*58.6	0.23	☞	☞☞☞	☞
500g	25	SS304/SS213	15333282	52.4*77.9	0.56	☞	☞☞☞	☞
1kg	50	SS304/SS213	15333292	63.8*97.5	1.1	☞	☞☞☞	☞
2kg	100	SS304/SS213	15333302	76.2*117.4	2.2	☞	☞☞☞	☞
5kg	250	SS304/SS213	15333312	97*162.7	5.4	☞	☞☞☞	☞
10kg	500	SS304/SS213	15333322			☞	☞☞☞	☞-0
20kg	1000	SS304/SS213	15333332			☞	☞☞☞	☞-0

INDIVIDUAL WEIGHT

NOMINAL VALUE	TOLERANCE (mg)	MATERIAL	SERIAL No.	PACKING SIZE (mm)	WEIGHT (kg)	SHAPE	Adjustment cavity	PACK
5g	1.6	Chrome plated	15335112	27*42	0.025		—	
10g	2.0	Chrome plated	15335122	27*42	0.03		—	
20g	2.5	Chrome plated	15335132	27*42	0.04		—	
50g	3.0	Chrome plated	15335142	27*42	0.07			
100g	5.0	Chrome plated	15335152	34.1*54.7	0.12			
200g	10	Chrome plated	15335162	42.6*58.6	0.23			
500g	25	Chrome plated	15335172	52.4*77.9	0.56			
1kg	50	Chrome plated	15335182	63.8*97.5	1.1			
2kg	100	Chrome plated	15335192	76.2*117.4	2.2			
5kg	250	Chrome plated	15335202	97*162.7	5.4			
10kg	500	Chrome plated	15335212					
20kg	1000	Chrome plated	15335222					



NOMINAL VALUE	MATERIAL	SERIAL No.	PACKING SIZE(mm)	SHAPE	Adjustment cavity	PACK
1 kg	SS304/SS213	15423111				
2 kg	SS304/SS213	15423121				
5 kg	SS304/SS213	15423131	192*118*134			
10 kg	SS304/SS213	15423141	263*133*135			
20 kg	SS304/SS213	15423151	283*143*181			
25 kg	SS304/SS213	15423161				
50 kg	SS304/SS213	15423171				



CLASS



NOMINAL VALUE	MATERIAL	SERIAL No.	PACKING SIZE(mm)	SHAPE	Adjustment cavity	PACK
5kg	CAST IRON	16423131	157*157*80			
10kg	CAST IRON	16423141	192*192*100			
20kg	CAST IRON	16423151	232*232*117			

Rectangular Weight

Nominal Value	M1 Tol ±g	M2 Tol ±g	M3 Tol ±g
1kg	0.05	0.16	0.5
2kg	0.1	0.3	1
5kg	0.25	0.8	2.5
10kg	0.5	1.6	5
20kg	1	3	10
50kg	2.5	8	25





HEAVY CAPACITY WEIGHT



Designed to be lifted with with forklift trucks or crane,customized available

NOMINAL VALUE	TOLERANCE(mg)	MATERIAL	SHAPE
50kg	250/800/2500	SS/Chrome Plated/Cast Iron	customize
100kg	500/1600/5000	SS/Chrome Plated/Cast Iron	customize
200kg	1000/3000/10000	SS/Chrome Plated/Cast Iron	customize
500kg	2500/8000/25000	SS/Chrome Plated/Cast Iron	customize
1000kg	5000/16000/50000	SS/Chrome Plated/Cast Iron	customize
2000kg	10000/30000/100000	SS/Chrome Plated/Cast Iron	customize



OTHER WEIGHT PRODUCTS

NOMINAL VALUE	CLASS	PACK	PIC
5kg-50kg	F1/F2/M1	WITHOUT BOX OR WITH ALUMINUM BOX	
5kg-50kg	F1/F2/M1	WITHOUT BOX OR WITH ALUMINUM BOX	
1g-50kg	F1/F2/M1	WITHOUT BOX OR WITH ALUMINUM BOX	
1g-50kg	F1/F2/M1	WITHOUT BOX OR WITH ALUMINUM BOX	
1g-50kg	M1/M2	WITHOUT BOX OR WITH ALUMINUM BOX	
1g-50kg	F1/F2/M1	WITHOUT BOX OR WITH ALUMINUM BOX	
1mg-50kg	0/1/2/3/4/5/6/7	WITHOUT BOX OR WITH ALUMINUM BOX	

ACCESSORIES

NOMINAL VALUE	SIZE(mm)	NOMINAL VALUE	SIZE(mm)	NOMINAL VALUE	SIZE(mm)
5kg	192*118*134	1 mg	90*90*92	1 mg	33*14
10kg	263*133*135	2 mg	90*90*92	2 mg	33*14
20kg	283*143*181	5 mg	90*90*92	5 mg	33*14
1mg-500mg	70*50*9	10 mg	90*90*92	10 mg	33*14
1mg-100g	165*140*78	20 mg	90*90*92	20 mg	33*14
1mg-200g	180*140*82	50 mg	90*90*92	50 mg	33*14
1mg-500g	202*140*98	100 mg	90*90*92	100 mg	33*14
1mg-1kg	230*145*113	200 mg	90*90*92	200 mg	33*14
1mg-2kg	264*203*136	500 mg	90*90*92	500 mg	33*14
1kg-5kg	253*183*182	1g	90*90*92	1g	27*42
		2g	90*90*92	2g	27*42
		5g	90*90*92	5g	27*42
		20g	90*90*92	20g	27*42
		100g	90*90*92	100g	34.1*54.7
		200g	90*90*92	200g	42.6*58.6
		500g	90*90*92	500g	52.4*77.9
		1kg	90*90*106	1kg	63.8*97.5
		2kg	90*90*141	2kg	76.2*117.4
		5kg	192*118*134	5kg	97*162.7
		10kg	263*133*135	10kg	
		20kg	283*143*181	20kg	
				1mg-500mg	
				1mg-5g	



Table 1 Maximum permissible errors for weights ($\pm \delta m$ in mg)

Nominal value*	Class E ₁	Class E ₂	Class F ₁	Class F ₂	Class M ₁	Class M ₁₋₂	Class M ₂	Class M ₂₋₃	Class M ₃
5 000 kg			25 000	80 000	250 000	500 000	800 000	1600 000	2 500 000
2 000 kg			10 000	30 000	100 000	200 000	300 000	600 000	1 000 000
1 000 kg		1 600	5 000	16 000	50 000	100 000	160 000	300 000	500 000
500 kg		800	2 500	8 000	25 000	50 000	80 000	160 000	250 000
200 kg		300	1 000	3 000	10 000	20 000	30 000	60 000	100 000
100 kg		160	500	1 600	5 000	10 000	16 000	30 000	50 000
50 kg	25	80	250	800	2 500	5 000	8 000	16 000	25 000
20 kg	10	30	100	300	1 000		3 000		10 000
10 kg	5.0	16	50	160	500		1 600		5 000
5 kg	2.5	8.0	25	80	250		800		2 500
2 kg	1.0	3.0	10	30	100		300		1 000
1 kg	0.5	1.6	5.0	16	50		160		500
500 g	0.25	0.8	2.5	8.0	25		80		250
200 g	0.10	0.3	1.0	3.0	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	0.03	0.10	0.3				
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				

* The nominal weight values in Table 1 specify the smallest and largest weight permitted in any class of R 111 and the maximum per-missible errors and denominations shall not be extrapolated to higher or lower values. For example, the smallest nominal value for a weight in class M₂ is 100 mg while the largest is 5 000 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.