



烟台倍嘉仪器有限公司

YANTAI JIA JIA INSTRUMENT CO., LTD.



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专业砝码供应商



Yantai Jiajia Instrument Co., Ltd is one of professional manufacturers of calibration weights. The calibration weights are available in sizes from 1mg-5000kg in OIML-R111 standard and ASTM-E617 standard. Monthly production capacity are 50,000 pieces.

The company has qualified technical engineers and management staff to control the quality and production process. With good production and inspection process, and perfect sales and service system, Jiajia is trying to become one of the best manufacturer of calibration weights. Honesty as our basic, good quality as our essential, best service as our soul, all above are our business guidelines. Jiajia will continue to provide perfect products with superior quality.



## Company Culture

Increase social welfare.  
Realize the value of life.  
Healthy and sustainable development

## Service Target

Zero defect from goods

Zero distance from logistics

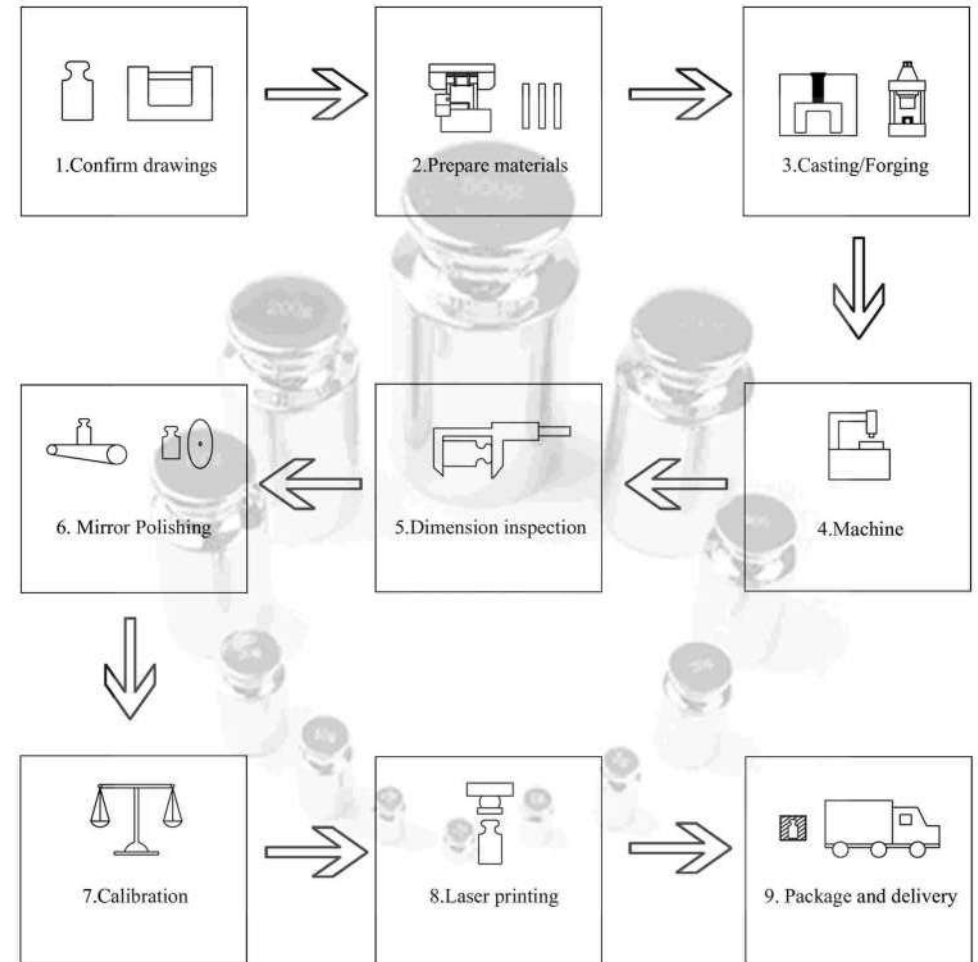
Zero worry from customers



# Certificates



# Production Flow Chart





# Standard Calibration Weights

—Knob Weight In One-piece Design

## Individual Calibration Weights



- Features:
- Shape: Cylindrical /Knob type.
  - Material: stainless steel.
  - Surface: Mirror Polishing
  - Class: E1/E2/F1/F2/ M1
  - Nominal Value: 1mg to 10kg.
  - Standard: Made in accordance with OIML R-111.
  - Application scope: Laboratory; Pharmaceutical factory,  
Electronic scale factory
  - Package: Aluminum cases for 10kg/20kg. Plastic box for 1g-5kg.
- Accessories:Tweezers ,gloves ,dust cloth

OIML TECHNICAL REQUIREMENT OF CALIBRATION WEIGHTS

Class	E1	E2	F1	F2	M1
Magnetization(μT)	2.5	8	25	80	250
Susceptibility	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
Surface roughness(μT)	0.5	1	2	5	-

## Display Of Products



## Standard Calibration Weight Sets



- Features:
- Shape: Cylindrical /Knob type.
  - Material: stainless steel.
  - Surface: Mirror Polishing
  - Class: E1/E2/F1/F2/ M1
  - Application scope: Laboratory; Pharmaceutical factory,  
Electronic scale factory
  - Package: Aluminum cases for sets.  
Plastic box for 1mg-5mg.

Details for calibration weight sets

Nominal Value	Pieces	Length		Width		Height		Net weight of box (g)		Material
		Blue box	Black box	Blue box	Black box	Blue box	Black box	Blue box	Black box	
100g-1mg	21	165	165	140	140	78	68	329	343	Aluminum
200g-1mg	23	180	180	140	140	82	82	351	402	Aluminum
500g-1mg	24	202	200	140	140	98	90	403	462	Aluminum
1kg-1mg	25	230	228	145	148	113	112	496	650	Aluminum
2kg-1mg	27	264	262	203	203	136	135	1281	1456	Aluminum
5kg-1kg	28	253	253	183	183	182	173	1341	1560	Aluminum
5kg	1	122	122	122	122	180	180	717	760	Plastic
10kg	1	143	143	143	143	220	218	904	1001	Aluminum
20kg	1	173	173	173	173	257	257	1223	1383	Aluminum
25kg	1	178		178		306		1371		Aluminum

## Display Of Products



# Standard Weight—Rectangular Type

## Rectangular Calibration Weights



Features:  
 Material: Stainless Steel  
 Standard: OIML  
 Application Scope: Laboratory; Pharmaceutical factory,  
 Electronic scale factory

### A - Casting Type



### B - Forging Type



## Cast Iron Weights



Features:  
 Material: Cast Iron  
 Class: M1  
 Standard: According to OIML  
 Application Scope: Laboratory; Pharmaceutical factory,  
 Electronic scale factory



Class Nominal Process Value	M1						
Sand casting	500g	1kg	2kg	5kg	10kg	20kg	50kg



Class Nominal Process Value	M1			
Precision casting	5kg	10kg	20kg	50kg



Class Nominal Process Value	M1					
Precision casting	500g	1kg	2kg	5kg	10kg	20kg

Remark : Customize available for special sizes and shapes.

## Customized Weights

### Single/Double Hook Weights

Single/Double Hook Weights

Material: Stainless steel and chrome plated



### Special Weights

Special Weights

Material: Stainless steel



Remark: Various weights can be customized according to customers' drawing.  
Product design is also available.

### Slotted Weights And Hanger Calibration Weights

Slotted Weights and hanger calibration weights

Material: Stainless steel

Type: N/KG/LBS



### Calibration Chain For Belt Scale

Calibration Chain for belt scale

Material: Stainless steel or Chrome plated



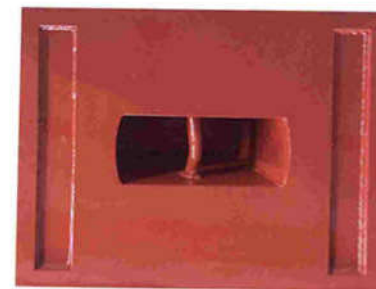
### Special Shapes Weights





# Industrial Weights

## Heavy Capacity Series—Cast Iron/Pure Steel



## Heavy Capacity Series —Stainless Steel/Chrome Plated



Heavy Capacity Series

Shape: Flat

Material: stainless steel, steel, cast iron

Nominal Value: 5kg-2000kg



## Precision Weights

### Flake



Flake class : E1, E2, F1, F2, M1



Pentagon  
5mg/50mg/500mg/5g

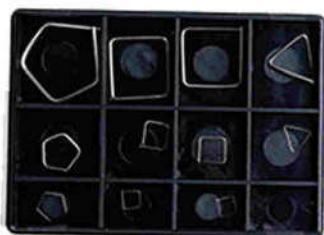


Quadrilateral  
2mg/20mg/200mg/2g



Triangle  
1mg/10mg/100mg/1g

### Wire Weights



Wire weights : E1, E2



Nominal value of mg weights		
Size	Quantity	Shapes
1mg	1	Triangle
2mg	2	Quadrilateral
5mg	1	Pentagon
10mg	1	Triangle
20mg	2	Quadrilateral
50mg	1	Pentagon
100mg	1	Triangle
200mg	2	Quadrilateral
500mg	1	Pentagon

## Accessories

### Tweezers/ Handles



### Aluminum Boxes



### Dust Wipes, Gloves





# Chrome Plated Weights/Brass Weights

## Chrome Plated Weights



Shape: Cylindrical/Knob type  
 Material: Chrome plated  
 Class: M1  
 Standard: OIML R111

## Brass Weights



Shape: Cylindrical/Knob type  
 Material: Chrome plated  
 Class: M1  
 Standard: OIML R111



Brand : Jiajia  
 Material : Class M1 stainless steel 2CR13  
 Class F2 F1 stainless steel 304  
 Package : Aluminum Box  
 Nominal Value : Quantity

## Force Weights



Features:

- Shape: concave and convex disc type.
- Material: stainless steel.
- Class: F1/F2/ M1
- Standard: Made in accordance with OIML R-111.
- Application scope: Laboratory; Pharmaceutical factory, Electronic scale factory



### Nominal Value and Quantity Information:

Nominal Value	1mg - 100g	1mg, 2mg, 2mg, 5mg, 10mg, 20mg, 20mg, 50mg, 100mg, 200mg, 200mg, 500mg, 1g, 2g, 2g, 5g, 10g, 20g, 20g, 50g, 100g	21 pcs
	1mg - 200g	1mg, 2mg, 2mg, 5mg, 10mg, 20mg, 20mg, 50mg, 100mg, 200mg, 200mg, 500mg, 1g, 2g, 2g, 5g, 10g, 20g, 20g, 50g, 100g, 200g, 200g	23 pcs
	1mg - 500g	1mg, 2mg, 2mg, 5mg, 10mg, 20mg, 20mg, 50mg, 100mg, 200mg, 200mg, 500mg, 1g, 2g, 2g, 5g, 10g, 20g, 20g, 50g, 100g, 200g, 200g, 500g,	24 pcs
	1kg - 1mg	1mg, 2mg, 2mg, 5mg, 10mg, 20mg, 20mg, 50mg, 100mg, 200mg, 200mg, 500mg, 1g, 2g, 2g, 5g, 10g, 20g, 20g, 50g, 100g, 200g, 200g, 500g, 1kg	25 pcs
	2kg - 1mg	1mg, 2mg, 2mg, 5mg, 10mg, 20mg, 20mg, 50mg, 100mg, 200mg, 200mg, 500mg, 1g, 2g, 2g, 5g, 10g, 20g, 20g, 50g, 100g, 200g, 200g, 500g, 1kg, 2kg, 2kg	27 pcs
	5kg - 1mg	1mg, 2mg, 2mg, 5mg, 10mg, 20mg, 20mg, 50mg, 100mg, 200mg, 200mg, 500mg, 1g, 2g, 2g, 5g, 10g, 20g, 20g, 50g, 100g, 200g, 200g, 500g, 1kg, 2kg, 2kg, 5kg	28 pcs
	5kg - 1kg	1kg, 2kg, 2kg, 5kg	4 pcs

OIML R111 Tolerance

ASTM-E617 Tolerance

Nominal Value	E <sub>1</sub>	E <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>	M <sub>1</sub>	M <sub>12</sub>	M <sub>2</sub>	M <sub>23</sub>	M <sub>3</sub>
5000kg			25000	80000	250000	500000	800000	1600000	2500000
2000kg			10000	30000	100000	200000	300000	600000	1000000
1000kg		1600	5000	16000	50000	100000	160000	300000	500000
500kg		800	2500	8000	25000	50000	80000	160000	250000
200kg		300	1000	3000	10000	20000	30000	60000	100000
100kg		160	500	1600	5000	10000	16000	30000	50000
50kg	25	80	250	800	2500	5000	8000	16000	25000
20kg	10	30	100	300	1000		3000		10000
10kg	5.0	16	50	160	500		1600		5000
5kg	2.5	8.0	25	80	250		800		2500
2kg	1.0	3.0	10	30	100		300		1000
1kg	0.5	1.6	5.0	16	50		160		500
500g	0.25	0.8	2.5	8.0	25		80		250
200g	0.10	0.3	1.0	3.0	10		30		100
100g	0.05	0.16	0.5	1.6	5.0		16		50
50g	0.03	0.10	0.3	1.0	3.0		10		30
20g	0.025	0.08	0.25	0.8	2.5		8.0		25
10g	0.020	0.06	0.20	0.6	2.0		6.0		20
5g	0.016	0.05	0.16	0.5	1.6		5.0		16
2g	0.012	0.04	0.12	0.4	1.2		4.0		12
1g	0.010	0.03	0.10	0.3	1.0		3.0		10
500mg	0.008	0.025	0.08	0.25	0.8		2.5		
200mg	0.006	0.020	0.06	0.20	0.6		2.0		
100mg	0.005	0.016	0.05	0.16	0.5		1.6		
50mg	0.004	0.012	0.04	0.12	0.4				
20mg	0.003	0.010	0.03	0.10	0.3				
10mg	0.003	0.008	0.025	0.08	0.25				
5mg	0.003	0.006	0.020	0.06	0.20				
2mg	0.003	0.006	0.020	0.06	0.20				
1mg	0.003	0.006	0.020	0.06	0.20				

Denomination Metric	± mg except as noted										
	Class 000	Class 00	Class 0	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	
5000kg					25g	50g	100g	250g	500g	750g	
3000kg					15g	30g	60g	150g	300g	450g	
2000kg					10g	20g	40g	100g	200g	300g	
1000kg					5g	10	20g	50g	100g	150g	
500kg					2.5g	5g	10g	25g	50g	75g	
300kg					1.5g	3g	6.0g	15g	30g	45g	
200kg					1g	2g	4.0g	10g	20g	30g	
100kg					500mg	1g	2.0g	5g	10g	15g	
50kg	13 mg	25mg	63mg	125mg	250	500mg	1.0g	2.5g	5g	7.5g	
30kg	7.5	15	38	75	150	300	600mg	1.5g	3g	4.5g	
25kg	6.25	12.5	31	62	125	250	500	1.2g	2.5g	4.5g	
20kg	5.0	10	25	50	100	200	400	1.0g	2g	3.8g	
10kg	2.5	5.0	13	25	50	100	200	500mg	1g	2.2g	
5kg	1.3	2.5	6.0	12	25	50	100	250	500mg	1.4g	
3kg	0.75	1.5	3.8	7.5	15	30	60	150	300	1.0g	
2kg	0.5	1.0	2.5	5.0	10	20	40	100	200	750mg	
1kg	0.25	0.5	1.3	2.5	5.0	10	20	50	100	470	
500g	0.13	0.25	0.60	1.2	2.5	5.0	10	30	50	300	
300g	0.075	0.15	0.38	0.75	1.5	3.0	6.0	20	30	210	
200g	0.05	0.10	0.25	0.50	1.0	2.0	4.0	15	20	160	
100g	0.025	0.05	0.13	0.25	0.50	1.0	2.0	9	10	100	
50g	0.015	0.030	0.060	0.12	0.25	0.60	1.2	5.6	7	62	
30g	0.014	0.026	0.037	0.074	0.15	0.45	0.90	4.0	5	44	
20g	0.013	0.025	0.037	0.074	0.10	0.35	0.70	3.0	3	33	
10g	0.010	0.020	0.025	0.050	0.074	0.25	0.50	2.0	2	21	
5g	0.005	0.010	0.017	0.034	0.054	0.18	0.36	1.3	2	13	
3g	0.005	0.010	0.017	0.034	0.054	0.15	0.30	0.95	2.0	9.4	
2g	0.005	0.010	0.017	0.034	0.054	0.13	0.26	0.75	2.0	7.0	
1g	0.005	0.010	0.017	0.034	0.054	0.10	0.20	0.50	2.0	4.5	
500mg	0.002	0.003	0.005	0.010	0.025	0.080	0.16	0.38	1.0	3.0	
300mg	0.002	0.003	0.005	0.010	0.025	0.070	0.14	0.30	1.0	2.2	
200mg	0.002	0.003	0.005	0.010	0.025	0.060	0.12	0.26	1.0	1.8	
100mg	0.002	0.003	0.005	0.010	0.025	0.050	0.10	0.20	1.0	1.2	
50mg	0.002	0.003	0.005	0.010	0.014	0.042	0.085	0.16	0.50	0.88	
30mg	0.002	0.003	0.005	0.010	0.014	0.038	0.075	0.14	0.50	0.68	
20mg	0.002	0.003	0.005	0.010	0.014	0.035	0.070	0.12	0.50	0.56	
10mg	0.002	0.003	0.005	0.010	0.014	0.030	0.060	0.10	0.50	0.40	
5mg	0.002	0.003	0.005	0.010	0.014	0.028	0.055	0.080	0.20		
3mg	0.002	0.003	0.005	0.010	0.014	0.026	0.052	0.070	0.20		
2mg	0.002	0.003	0.005	0.010	0.014	0.025	0.050	0.060	0.20		
1mg	0.002	0.003	0.005	0.010	0.014	0.025	0.050	0.050	0.10		
0.5mg	0.002	0.003	0.005	0.010	0.014	0.025	0.050	0.050	0.10		
0.3mg	0.002	0.003	0.005	0.010	0.014	0.025					
0.2mg	0.002	0.003	0.005	0.010	0.014						
0.1mg	0.002	0.003	0.005	0.010							
0.05mg	0.002	0.003	0.005								