



Precision you can trust

High accuracy calibration weights & weight sets



HIGH
ACCURACY



PREMIUM
QUALITY



OIML
COMPLIANT



CUSTOMER
SUPPORT

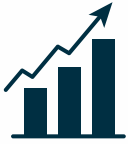


polyweights.in

WHY POLY WEIGHTS?

Precision you can trust

Poly Weights delivers high-accuracy metrological weights designed for laboratories, calibration centers, pharmaceutical industries, research institutions and quality control implications. Manufactured to international standards, our weights ensure reliable performance, superior stability and long-term accuracy.

- 

Outstanding Cost Performance Ratio
- 

Quick Handling & Delivery Time
- 

Modern Calibration Methods
Allowing precise calibration results and faster processing times.
- 

Calibrated by NPL/RSSL or NABL Accredited Laboratories
Internationally recognized and valid calibration certificates available.
- 

According to OIML - R111 -1 Standards
- 

Complete Servicing Ranging from 1 mg to 50 kg
- 

E1 to M2 Class Weights with or without Certification
- 

With or Without Calibration Certification
- 

Higher Accuracy Metrological Weights
- 

Premium Stainless Steel Construction
- 

Excellent Surface Finish & Corrosion Resistance



Why Choose Poly Weights?

Poly Weights are engineered to provide superior measurement accuracy, exceptional repeatability and dependable long-term stability. Every weight undergoes stringent quality control procedures to ensure compliance with international metrology requirements.

Whether for analytical balances, precision weighing systems, calibration laboratories, pharmaceutical manufacturing or industrial applications, Poly Weights offers a complete solution for all precision mass measurement needs.

“ Poly Weights are more accurate and correct than the test weights ”



WEIGHT RANGE
1 mg – 50 kg

ACCURACY CLASSES
E1 • E2 • F1 • F2 • M1



polyweights.in



Premium Stainless steel
cylindrical weights



ABOUT POLY WEIGHTS

Precision Engineered. Quality Assured. Trust Delivered.

Poly Weights is a leading manufacturer and exporter of high precision stainless steel weights that comply with OIML Recommendation R111-1 international standards. Our weights are trusted by calibration laboratories, industries, research institutions and businesses worldwide for their unmatched accuracy, reliability and durability.



OIML R111-1
COMPLIANT



PREMIUM
QUALITY



HIGH PRECISION
& ACCURACY



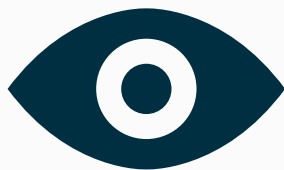
NABL/NPL
TRACEABLE

OUR COMPANY



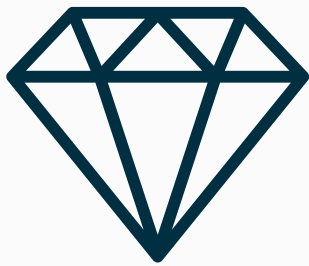
OUR MISSION

To deliver precision weights that ensure accuracy, reliability and confidence in every measurement



OUR VISION

To be a globally recognised brand known for precision, quality and innovation in weighing solutions.



OUR VALUES

Integrity, quality, customer satisfaction and continuous improvement are at the core of everything we do.



OUR PEOPLE

A team of skilled professionals dedicated to engineering precision and delivering excellence.



OUR QUALITY

Every weight is manufactured and inspected with strict quality control at every stage.



OUR REACH

Proudly supplying our premium quality weights to customers in more than 50+ countries.

WHO WE ARE

With years of experience and deep industry expertise, Poly Weights has established itself as a leading manufacturer and exporter of stainless steel weights.

Our commitment to innovation, precision engineering and customer satisfaction has earned the trust of calibration laboratories, industries and businesses worldwide.



STATE-OF-THE-ART FACILITY

Equipped with advanced CNC machines and precision instruments to ensure unmatched accuracy and consistency.



STRINGENT QUALITY CONTROL

From raw material inspection to final calibration, every step follows rigorous quality standards



CALIBRATION & TRACEABILITY

All weights are traceable to national/international standards with calibration certificates from NABL accredited laboratories.



GLOBAL PRESENCE

Trusted by customers across the globe with reliable products, timely delivery and excellent support.

OUR COMMITMENT TO YOU



100% Inspection
Before Dispatch



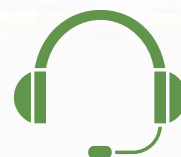
Strict Quality
Control



Traceable
Calibration



Ethical & Sustainable
Practices



Reliable Customer
Support



On-Time Delivery
Worldwide

PRODUCT RANGE

Poly Weights offers a comprehensive range of high precision stainless steel weights manufactured as per OIML R111-1 international standards. Engineered for accuracy, built for reliability.



01. WIRE WEIGHTS (mg ONLY)



- Available from 1 mg = 500 mg
- Made from high purity stainless steel
- Ideal for micro balance calibration
- Lightweight, precise and corrosion resistant
- Supplied in premium wooden or aluminium case with tweezers

02. CYLINDRICAL KNOB WEIGHTS (1g - 10kg) and RING TYPE WEIGHTS (20kg-50kg)



- Available from 1g - 50kg
- Mirror polished finish
- High accuracy and long term stability
- Available in individual or set form

03. ACCURACY CLASSES

CLASS	APPLICATION
E1	National Laboratories
E2	Calibration Laboratories
F1	Pharmaceutical & Research
F2	Industrial Calibration
M1	Commercial Use

05. MATERIAL INFORMATION



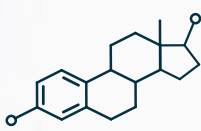
SS304
Austenitic stainless steel with excellent corrosion resistance and durability. Widely used for general purpose weights in standard environments



SS316
Austenitic stainless steel with enhanced corrosion resistance, especially against chlorides and marine environments. Ideal for harsh conditions and critical applications.



NON-MAGNETIC STAINLESS STEEL
Specially processed stainless steel with very low magnetic susceptibility to ensure accurate and consistent weighing results.



DENSITY
Standard density of stainless steel weights is 8.00g/cm³ (8000 kg/m³) at 20 degrees celcius



MAGNETIC SUSCEPTIBILITY
Typically <0.01 μ (micro) for non-magnetic stainless steel, ensuring minimal magnetic interference



SURFACE FINISH
Mirror polished finish with Ra <0.2 μm, ensuring excellent surface quality, easy cleaning and long-term stability.

04. INDIVIDUAL WEIGHTS



- Available from 1g - 50kg
- Supplied individually
- Ideal for replacement or custom requirements
- High precision and durable construction



HIGH PRECISION
& ACCURACY



PREMIUM STAINLESS
STEEL



MIRROR POLISHED
FINISH



OIML R111-1
COMPLIANT



NABL/NPL
TRACEABLE



BUILT FOR
GLOBAL QUALITY

ACCURACY CLASSES

Poly Weights are manufactured as per OIML R111-1 international recommendation, ensuring the highest level of accuracy and reliability for every application.



COMPARISON OF ACCURACY CLASSES

 CLASS	 APPLICATION	 ACCURACY LEVEL	 SUITABLE FOR	 CERTIFICATE	 TRACEABILITY
E1	National Laboratories	Highest (Very low tolerance)	Reference standards, national metrology institutes, high precision calibration	OIML Certificate (Optional) Calibration Certificate	NPL/NABL Traceable
E2	Calibration Laboratories	Very High (Low tolerance)	Calibration labs, quality control, precision measurement	OIML Certificate Calibration Certificate	NPL/NABL Traceable
F1	Pharmaceutical & Reasearch	High (Medium Low tolerance)	Pharma, research labs, analytical balances, R&D applications	OIML Certificate Calibration Certificate	NABL Traceable
F2	Industrial Calibration	Medium High (Medium tolerance)	Industrial calibration, routine testing, process control	OIML Certificate Calibration Certificate	NABL Traceable
M1	Commercial Use	Medium (Higher tolerance)	Commercial weighing, trade, retail, general purpose	OIML Certificate (Mandatory for trade use)	Legal Metrology Traceable



OIML R111-1
Compliant



High Accuracy
& Reliability



Quality Assured
Products



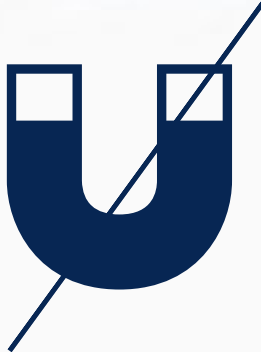
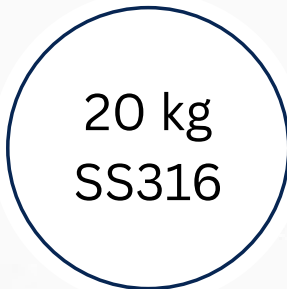
Calibration
Certificate



Global
Acceptance



Trusted by
Professionals

TECHNICAL SPECIFICATIONS		
PARAMETER	SPECIFICATION	
	Material	- Standard: SS304/SS316 - Non-magnetic stainless steel (specially processed)
	Density	8.00 g/cm3 (8000 kg/m3) at 20 degrees celsius (for stainless steel)
	Magnetic Susceptibility	< 0.01 μ (micro) ((Non-Magnetic stainless steel)
	Surface Finish	Mirror polished
	Roughness	Ra < 0.2 μm
	Construction	One-piece construction with rounded edges for safety and easy handling
	Identification	Laser engraved marking with nominal value, material grade and serial number on the top or side.
	Cleaning Method	Ultrasonic cleaning followed by deionized water rinse and dry with lint-free cloth.

• **Note:** Specifications are in accordance with OIML R111-1 international standard.

QUALITY ASSURANCE

At Poly Weights, quality is at the core of everything we do. Our quality management system and rigorous processes ensure that every weight delivers unmatched accuracy and reliability



ISO 9001

We are an ISO 9001:2015 certified company, demonstrating our commitment to consistent quality management and customer satisfaction.



OIML R111-1

Our weights are manufactured as per OIML R111-1 international standard ensuring global acceptance and metrological reliability.



NABL
TRACEABILITY



NPL
TRACEABILITY

NABL & NPL TRACEABILITY

- All our weights are traceable to NABL accredited laboratories.
- Traceability is also linked to National Physical Laboratory (NPL) ensuring highest measurement accuracy and international equivalence.



100% INSPECTION

Every single weight undergoes 100% inspection for dimensional accuracy, mass tolerance and surface finish before dispatch.



CALIBRATION CERTIFICATE

Each set/individual weight is supplied with a Calibration Certificate stating nominal value, actual value, deviation, expanded uncertainty and traceability details.



OUR COMMITMENT TO QUALITY



Through stringent quality control, international compliance and traceable calibration, Poly Weights ensures precision you can trust, every time.



ACCURATE
MEASUREMENT



INTERNATIONAL
STANDARDS



TRACEABLE &
RELIABLE



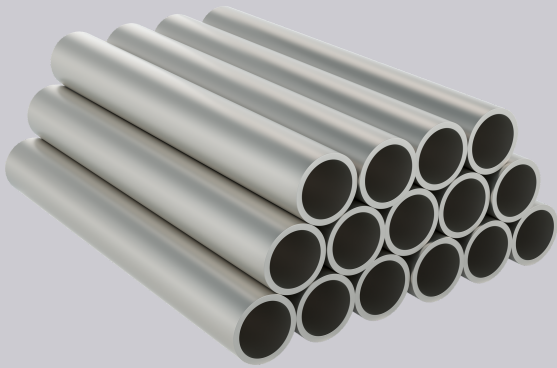
CONSISTENT
QUALITY



CUSTOMER
TRUST

MANUFACTURING PROCESS

Each Poly Weight is manufactured with precision, care and compliance at every stage to ensure unmatched accuracy and quality



01.

RAW MATERIAL

High quality stainless steel bars and billets are selected



02.

CNC MACHINING

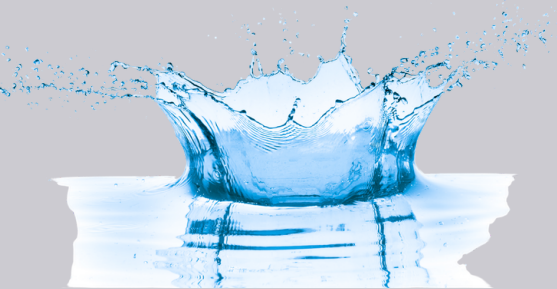
Precision CNC machines shape the weights to exact dimensions



03.

MIRROR POLISHING

Surface is mirror polished for perfect finish and accuracy



04.

CLEANING

Ultrasonic cleaning removes oil, dust and impurities



05.

INSPECTION

Each weight is inspected for dimensional accuracy and finish



06.

CALIBRATION

Weights are calibrated as per OIML R111-1 standards



07.

PACKING

Weights are packed in premium cases for safe protection



08.

DISPATCH

Securely packed and dispatched for safe and timely delivery

PACKAGING

We use premium quality packaging materials and proven methods to ensure safe handling, maximum protection and secure delivery of every product.

01. WOODEN BOXES

Sturdy and durable wooden boxes provide excellent protection for precision weights during storage and transportation.



02. ALUMINIUM BOXES

Lightweight yet strong aluminium boxes offer corrosion resistance and added durability for safe and reliable use.



03. FOAM INSERTS

Custom-cut high-density foam inserts keep each weight securely in place, preventing movement, scratches and damage.

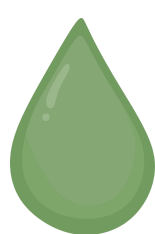


04. VACUUM PACKING

Each weight is vacuum packed in high-quality protective bags to prevent moisture, oxidation and surface damage during transit and storage.



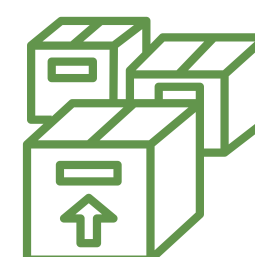
MAXIMUM PROTECTION



MOISTURE & DIRT
RESISTANT



SHOCK & VIBRATION
RESISTANT



SAFE HANDLING &
SECURE DELIVERY



Single

E2 - Stainless Steel Weights

OIML Recommendation R111-1 Tolerance Limits

Model No.	Mass Weight	Tolerance ($\pm$ mg)	Certificate
116-01	1 mg	0.006	100-001
116-02	2 mg	0.006	100-002
116-03	5 mg	0.006	100-003
116-04	10 mg	0.008	100-004
116-05	20 mg	0.010	100-005
116-06	50 mg	0.012	100-006
116-07	100 mg	0.016	100-007
116-08	200 mg	0.020	100-008
116-09	500 mg	0.025	100-009
117-01	1 g	0.030	100-010
117-02	2 g	0.040	100-011
117-03	5 g	0.050	100-012
117-04	10 g	0.060	100-013
117-05	20 g	0.080	100-014
117-06	50 g	0.100	100-015
117-07	100 g	0.16	100-016
117-08	200 g	0.30	100-017
117-09	500 g	0.80	100-018
117-10	1 kg	1.6	100-019
117-11	2 kg	3	100-020
117-12	5 kg	8	100-021
117-13	10 kg	16	100-022
117-14	20 kg	30	100-023
117-15	50 kg	80	100-024



HIGH
ACCURACY



PREMIUM
QUALITY



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CUSTOMER
SUPPORT



GLOBAL
STANDARDS



Sets

E2 - Stainless Steel Weights

OIML Recommendation R111-1 Tolerance Limits

Model No.	Mass Weight	Certificate
113-01	1 mg - 500 mg	100-501
113-02	1 mg - 50 gm	100-502
113-03	1 mg - 100 gm	100-503
113-04	1 mg - 200 gm	100-504
113-05	1 mg - 500 gm	100-505
113-06	1 mg - 1 kg	100-506
113-07	1 mg - 2 kg	100-507
113-08	1 mg - 5 kg	100-508
113-09	1 mg - 10 kg	100-509
114-02	1 g - 50 g	100-510
114-03	1 g - 100 g	100-511
114-04	1 g - 200 g	100-512
114-05	1 g - 500 g	100-513
114-06	1 g - 1 kg	100-514
114-07	1 g - 2 kg	100-515
114-08	1 g - 5 kg	100-516
114-09	1 g - 10 kg	100-517



HIGH
ACCURACY



PREMIUM
QUALITY



OIML
COMPLIANT



CUSTOMER
SUPPORT



GLOBAL
STANDARDS



Single

F1 - Stainless Steel Weights

OIML Recommendation R111-1 Tolerance Limits

Model No.	Mass Weight	Tolerance ($\pm$ mg)	Certificate
126-01	1 mg	0.020	100-023
126-02	2 mg	0.020	100-024
126-03	5 mg	0.020	100-025
126-04	10 mg	0.025	100-026
126-05	20 mg	0.03	100-027
126-06	50 mg	0.04	100-028
126-07	100 mg	0.05	100-029
126-08	200 mg	0.06	100-030
126-09	500 mg	0.08	100-031
127-01	1 g	0.10	100-032
127-02	2 g	0.12	100-033
127-03	5 g	0.16	100-034
127-04	10 g	0.20	100-035
127-05	20 g	0.25	100-036
127-06	50 g	0.30	100-037
127-07	100 g	0.5	100-038
127-08	200 g	1.0	100-039
127-09	500 g	2.5	100-040
127-10	1 kg	5	100-041
127-11	2 kg	10	100-042
127-12	5 kg	25	100-043
127-13	10 kg	50	100-044
127-14	20 kg	100	100-045
127-15	50 kg	250	100-046



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STANDARDS



Sets

F1 - Stainless Steel Weights

OIML Recommendation R111-1 Tolerance Limits

Model No.	Mass Weight	Certificate
123-01	1 mg - 500 mg	100-518
123-02	1 mg - 50 gm	100-519
123-03	1 mg - 100 gm	100-520
123-04	1 mg - 200 gm	100-521
123-05	1 mg - 500 gm	100-522
123-06	1 mg - 1 kg	100-523
123-07	1 mg - 2 kg	100-524
123-08	1 mg - 5 kg	100-525
123-09	1 mg - 10 kg	100-526
124-02	1 g - 50 g	100-527
124-03	1 g - 100 g	100-528
124-04	1 g - 200 g	100-529
124-05	1 g - 500 g	100-530
124-06	1 g - 1 kg	100-531
124-07	1 g - 2 kg	100-532
124-08	1 g - 5 kg	100-533
124-09	1 g - 10 kg	100-534



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STANDARDS



Single

F2 - Stainless Steel Weights

OIML Recommendation R111-1 Tolerance Limits

Model No.	Mass Weight	Tolerance ($\pm$ mg)	Certificate
136-01	1 mg	0.06	100-046
136-02	2 mg	0.06	100-047
136-03	5 mg	0.06	100-048
136-04	10 mg	0.08	100-049
136-05	20 mg	0.10	100-050
136-06	50 mg	0.12	100-051
136-07	100 mg	0.16	100-052
136-08	200 mg	0.20	100-053
136-09	500 mg	0.25	100-054
137-01	1 g	0.3	100-055
137-02	2 g	0.4	100-056
137-03	5 g	0.5	100-057
137-04	10 g	0.6	100-058
137-05	20 g	0.8	100-059
137-06	50 g	1.0	100-060
137-07	100 g	1.6	100-061
137-08	200 g	3	100-062
137-09	500 g	8	100-063
137-10	1 kg	16	100-064
137-11	2 kg	30	100-065
137-12	5 kg	80	100-066
137-13	10 kg	160	100-067
137-14	20 kg	300	100-068
137-15	50 kg	800	100-069



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Sets

F2 - Stainless Steel Weights

OIML Recommendation R111-1

Model No.	Mass Weight	Certificate
133-01	1 mg - 500 mg	100-535
133-02	1 mg - 50 gm	100-536
133-03	1 mg - 100 gm	100-537
133-04	1 mg - 200 gm	100-538
133-05	1 mg - 500 gm	100-539
133-06	1 mg - 1 kg	100-540
133-07	1 mg - 2 kg	100-541
133-08	1 mg - 5 kg	100-542
133-09	1 mg - 10 kg	100-543
134-02	1 g - 50 g	100-544
134-03	1 g - 100 g	100-545
134-04	1 g - 200 g	100-546
134-05	1 g - 500 g	100-547
134-06	1 g - 1 kg	100-548
134-07	1 g - 2 kg	100-549
134-08	1 g - 5 kg	100-550
134-09	1 g - 10 kg	100-551



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Single

M1 - Stainless Steel Weights

OIML Recommendation R111-1 Tolerance Limits

Model No.	Mass Weight	Tolerance ($\pm$ mg)	Certificate
146-01	1 mg	0.2	100-070
146-02	2 mg	0.2	100-071
146-03	5 mg	0.2	100-072
146-04	10 mg	0.25	100-073
146-05	20 mg	0.3	100-074
146-06	50 mg	0.4	100-075
146-07	100 mg	0.5	100-076
146-08	200 mg	0.6	100-077
146-09	500 mg	0.8	100-078
147-01	1 g	1.0	100-079
147-02	2 g	1.2	100-080
147-03	5 g	1.6	100-081
147-04	10 g	2.0	100-082
147-05	20 g	2.5	100-083
147-06	50 g	3.0	100-084
147-07	100 g	5	100-085
147-08	200 g	10	100-086
147-09	500 g	25	100-087
147-10	1 kg	50	100-088
147-11	2 kg	100	100-089
147-12	5 kg	250	100-090
147-13	10 kg	500	100-091
147-14	20 kg	1000	100-092
147-15	50 kg	2500	100-093



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GLOBAL
STANDARDS



Sets

M1 - Stainless Steel Weights

OIML Recommendation R111-1

Model No.	Mass Weight	Certificate
143-01	1 mg - 500 mg	100-552
143-02	1 mg - 50 gm	100-553
143-03	1 mg - 100 gm	100-554
143-04	1 mg - 200 gm	100-555
143-05	1 mg - 500 gm	100-556
143-06	1 mg - 1 kg	100-557
143-07	1 mg - 2 kg	100-558
143-08	1 mg - 5 kg	100-559
143-09	1 mg - 10 kg	100-560
144-02	1 g - 50 g	100-561
144-03	1 g - 100 g	100-562
144-04	1 g - 200 g	100-563
144-05	1 g - 500 g	100-564
144-06	1 g - 1 kg	100-565
144-07	1 g - 2 kg	100-566
144-08	1 g - 5 kg	100-567
144-09	1 g - 10 kg	100-568



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STANDARDS

CONTACT US

Get in touch

We are committed to providing precision calibration solutions, technical assistance and prompt customer support. For product inquiries, quotations, calibration services or customized requirements, feel free to contact us.



REGISTERED OFFICE & MANUFACTURING UNIT

Poly Weights
Sharad Industrial Estate
H Wing,
Gala No-211,
2nd Floor,
Lake Rd,
Bhandup- West,
Mumbai - 400078
Maharashtra,
India



MANUFACTURER

Poly Weights
Mfg - S.S.Standard Weights



GSTIN
27AWGPS3863B1ZF



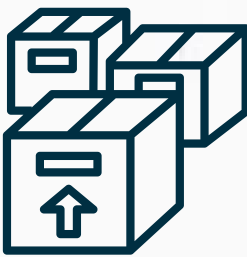
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PAN INDIA
DELIVERY



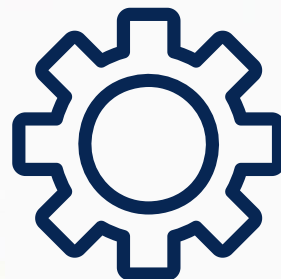
EXPORT ORDERS
ACCEPTED



CALIBRATION
SUPPORT



NABL/NPL
TRACEABLE CERTIFICATES
AVAILABLE



OEM & CUSTOM
WEIGHT
MANUFACTURING



TECHNICAL
CONSULTATION



Precision you can trust

Manufacturers of precision stainless steel calibration weights & weight sets

OIML
R111-1
COMPLIANT

NABL/NPL
TRACEABLE

QUALITY
YOU CAN
WEIGH
ON