



NIDHI SDD | NIDHI Si-Pin | E350



About Us

Karatgauge is a technology driven company manufacturing and supplying analytical equipment to the precious metal industry. While executing a deal, we offer tailor made solutions to our customers taking their needs into consideration, which is the coming together of our experience in the business over the years and innovative approach to every customer requirement. Our company has a wide network of well trained sales and service engineers spread across the length and breadth of the country which helps us to bring to our customers a unique combination of state of the art technology driven products and timely post delivery support.

Our product range includes Precious Metal Analysers for jewellery and bullion, PMA Hallmarking, RoHS analysers, Alloy Analysers etc...

Team KARATGAUGE ensures the ROI and timely after sales support through out India vide its service network.



Application Field

Advantages And Characteristics



Easy to Use

The analysis results of the carat grades and components can be obtained by one-click operation

Products Design

The fuselage structure is small and strong, beautiful in appearance, suitable for placement in the showroom



Software Function

Use PC and software to facilitate the production of sample test results certificate

Data Download

Test data can be uploaded to the download network, and the detection results are easy to view and share



Innovation Function

Contribute to identify the innovative features of gold-plated samples

Fast Detection

Precise results on the chemical composition and carat grades of the sample can be detected within seconds



Lighting System

Through the camera and the in-cabin lighting system. The inspection location of the sample can be seen, Enhance test confidence

Safe Protection

X-ray protective lock. The X-rays are emitted only in the closed state, Ensure customer use safely and reliably



Application Software

The screenshot displays the 'Application - Au' software interface. At the top, it shows 'SampleName: Test' and 'KARAT: 0.00K'. Below this, there's a 'BatchNo' field with the value 'Group 29/03/2024 10:22:33'. A table lists various elements: Gold, Silver, Copper, Zinc, Nickel, Cadmium, Palladium, Ruthenium, Tin, Iridium, Lead, Cobalt, Chromium, Rhodium, Tungsten, Iron, and Indium. The 'Mean Value' for all elements is 0.00. The 'Standard deviations' are also 0.00. The 'Minimum' and 'Maximum' values are 0.00. The 'No. of readings' is 0. On the right side, there's a 'NEW BATCH' button and a 'START' button. The bottom status bar indicates 'Initialization succeeded!' and '0s / 10s'.

Group 29/03/2024 10:22:33	Gold	Silver	Copper	Zinc	Nickel	Cadmium	Palladium	Ruthenium	Tin	Iridium	Lead	Cobalt	Chromium
Mean Value	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Standard deviations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No. of readings	0	0	0	0	0	0	0	0	0	0	0	0	0

E350

Precious Metal Analyzer



Humanized Interface



Convenient Operation



Ultra Clear Camera



Rapid Detection



Technical Specification

Analysis Range: 1PPM-99.99%

RSD $\leq 0.03\%$ Au $\geq 99.9\%$



Test Samples For
A Physical State :
solid/powder/liquid

Elements :
Au/Ag/Cu/Zn/Cd/Fe/
In/Pb/Ni/Pd

Hallmarking Centre



Bank / Finance



Jewellery Shops



Environmental Requirements

Ambient Temperature
10-35° C

Relative Humidity
35-70%

Power Requirement
AC220V $\pm 5V$ 50/60HZ

Precious Metals Special
Analysis Software

External Dimension
420*400*390 mm

Weight
32kg

Technical Parameter

High voltage source: 0-50KV

Light tube voltage: 5-50KV

Light tube flow: 0-1000 μA

Filter: Choose a variety of custom switches

Detector: Si - Pin

Multi Collimator Option

DPP:4096-DPP

Sample cavity size: 330*260*60 mm

NIDHI SDD

Precious Metal Analyzer



Humanized Interface



Convenient Operation



Ultra Clear Camera



Rapid Detection



Technical Specification

Analysis Range: 1PPM-99.99%

RSD $\leq 0.03\%$ Au $\geq 99.9\%$

Test Samples For
A Physical State:
solid/powder/liquid



Elements Of Interest
And Precious Metals:
Au/Ag/Pt/Pd/Ru/Rh/Ir/Os

Primary Constituent:
Cr/Mn/Fe/Co/Ni/Cu/
Zn/Cd/Sn/Pb

Hallmarking Centre



Jewellery Shops



Bank / Finance



Refineries



Bullion



Old Gold exchange



Environmental Requirements

Ambient Temperature
10-35° C

Relative Humidity
35-70%

Power Requirement
AC220V $\pm 5V$ 50/60HZ

Precious Metals Special
Analysis Software

External Dimension
460*460*390mm

Weight
39kg

Technical Parameter

High voltage source: 0-50KV

Light tube voltage: 5-50KV

Light tube flow: 0-1000 u A

Filter: Choose a variety of custom switches

Detector: Amptek SDD

Multi Collimator Option

DPP:4096-DPP

Sample cavity size: 350*300*97mm

NIDHI Si-Pin

Precious Metal Analyzer



Humanized Interface



Convenient Operation



Ultra Clear Camera



Rapid Detection



Technical Specification



Hallmarking Centre



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Bank / Finance



Refineries



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Environmental Requirements

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10-35° C

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AC220V $\pm 5V$ 50/60HZ

Precious Metals Special
Analysis Software

External Dimension
460*460*390mm

Weight
38kg

Technical Parameter

High voltage source: 0-50KV

Light tube voltage: 5-50KV

Light tube flow: 0-1000 u A

Filter: Choose a variety of custom switches

Detector: Amptek Si-PIN

Multi Collimator Option

DPP:4096-DPP

Sample cavity size: 350*300*97 mm

Where Precision Meets Purity



Jewelry
Manufacturing

Bureau Of Quality And
Technical Supervision

Cash Gold Exchange

Recycling Industry

Retail Industry

Pawnshop/
Refining Industry

Purity Verification
Centers

Empowering Confidence in Every Karat





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Introducing the Future of Precision Melting

KARATGAUGE Mini Melt

Compact Precision Induction Melting Furnace

The KG Mini Melt is a next-generation medium-frequency induction melting furnace engineered for fast, precise, and energy-efficient melting of precious and non-ferrous metals. Powered by advanced eddy current induction heating and DSP digital temperature control technology, it delivers reliable melting temperatures of up to 1600°C, ensuring consistent performance for professional metal processing.

Designed with patented magnetic induction heating technology, The KARATGAUGE Mini Melt Provides rapid melting while minimizing energy consumption and heat loss. Its compact tabletop design offers exceptional portability without compromising performance, making it the ideal solution for modern workspaces.

Capable of melting gold, silver, copper and other precious metals, the KG Mini Melt is perfectly suited for jewellery manufacturing, refining, hallmarking centres and small-scale production facilities.

Unlike conventional medium-frequency induction furnaces that require larger installation spaces, the KG Mini Melt features a completely redesigned internal structure and optimized electronic control system. The result is a lightweight, space-saving melting solution that delivers industrial-grade performance in a compact footprint.

Advantages :-

- Innovative patented magnetic heating technology.
- Advanced DSP digital control for accurate temperature management
- Max Temp: 1600°C
- Fast melting with high thermal efficiency
- Low power consumption and reduced operating costs
- Minimal heat transfer to surrounding components for enhanced safety.
- Compact, Portable tabletop design
- Suitable for Gold, Silver, Copper and other metals
- Ideal for Retail jewellers, Cash For Gold, Pawn Shops, Wholesale and Manufacturing Industries and Hallmarking Centres.



Model	Mini Melt	Mini Melt +
Voltage	1 Phase	1 Phase
Power	3.5 Kw	5 KW
Frequency	50-60Hz	50-60Hz
Maximum Temp.	1200°C	1200°C
Gold capacity	Up to 1Kg	1-2Kg
Melting speed	3-5 Mins (Gold/Silver/Copper)	3-5 Mins (Gold/Silver/Copper)
Dimension (LxWxH)	315×295×350 mm	315×295×350 mm
Net weight	9 kg	9 kg



Melting in 30 sec



After 1 mins



After 2 mins



After 3 mins



4L Water Chiller

Water capacity	4L
Power	130W
Voltage	110V/220V
Inlet Temp.	≤70°C
Outlet Temp.	35-40°C
Max inlet Temp.	80°C
Outlet Temp.	45°C
Cooling water flow	0.7L/MIN
Machine size(mm)	295*345*490
N.W	18kg

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Our Network

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 Hyderabad | Mumbai | Jaipur | Delhi | Kolkata
 Ahmedabad | Lucknow | Bhubaneswar



KARATGAUGE®