



KARUNA TEMP SYSTEM PRIVATE LIMITED

Thermocouple tips & more



Manufacturer of
**Liquid Metal
Temperature
Measuring
Instruments &
Thermocouple
Tips**



www.karunatempsystem.com

Company Profile

We started our operations in the year 1995. For over 25 years we have been serving the Steel Melting Industry as a vital link in the metal melting process, particularly in South India. We are now a leading supplier of Liquid Metal Temperature Measuring Instruments and Expandable Thermocouple Tips. Our quality of products, professional approach, competitive pricing and large network have helped us built a name for ourselves.

As a strategic move we have renamed to **KARUNA TEMP SYSTEM PVT LTD** from August 2019.

Quality Policy

We are committed to deliver, safe and dependable products and services to our customers.

Our goal to meet the vision of the organization are through -

- Regular Inspections and Control
- Prompt response
- High team Performance
- On time delivery of Goods
- Cater to customer requests
- Focus on continuous improvement

Mission

Customers have the power to choose in a competitive and open market. Our aim is to provide high-quality products and service, along with fair and competitive pricing.

Our Products

We are manufactures of Expandable Thermocouple Tips and Liquid Metal Samplers. The Expandable Tips are used for temperature measurement whereas the Liquid Metal Sampler enables the spectrographic analysis of the metal's chemistry providing quick and representative samples of the molten metal in the required forms. Accuracy, reproducibility, and reliability of molten metal temperature measurements directly influence the quality of the product as well as the productivity of the plant.

The Expandable thermocouple tip is first inserted onto a long lance fitted with a receptacle. The moment the thermocouple tip with a paper body is properly connected to the lance, an automatic signal is generated on the temperature measurement control panel to confirm a proper connection. This assembly is immersed into the molten metal, where the thermocouple tip meets the liquid metal. This assembly is kept immersed for about 4-5 seconds for the tip to translate the temperature into millivolts. These millivolts are instantly sent to the calibrated measuring system for recording the temperature and display the corresponding value on the system screen with the help of led bulbs.

For spectrographic analysis of metal, a sample of liquid metal bath is necessary. The immersion samplers are used for this specific purpose of taking these samples fast. The sampler fitted into the paper body is immersed into molten metal and kept immersed for about 4 seconds. Due to the pressure differentials, the molten metal gets filled into the cavity of the sampler. The sampler is now taken out and solidified metal sample that is trapped inside is easily removed for analysis.

Karuna Mini

- Available in S/R/B Type (10%/13%)
- Connector Type: Male
- Can be used in foundry and steel plants
- Available in Paper Tubes Sizes from 300mm to 1800mm
- Paper Tube ID 18mm OD 30mm



Karuna BMD

- Available in S/R/B/K Type
- Connector Type: Male
- Can be used in foundry and steel plants up to 3-ton furnace
- Available in Ceramic Tube sizes 21mm x 30mm x 75mm BMD
- Can detect temperature 6-8 times in slag free conditions

Karuna Steel Mark III

- Available in S/R/B Type 910%/13%)
- Connector Type Mark III: Female
- Available in Paper Tube sizes from 300mm to 1800mm
- Paper tube ID 28mm OD 40mm



Karuna MTR

- Available in S/R/B Type
- Connector Type Male
- Can be used in foundry and steel plants up to 5-ton furnace
- Available in Paper tube sizes from 300mm to 400mm
- Can detect temperature 4 to 5 times in slag free condition only
- Paper tube ID 18mm OD 30mm



Karuna Steel Mark VII

- Available in S/R/B type
- Connector Type: Male
- Can be used especially in steel plants
- Available in Paper tube sizes from 300mm to 1800mm
- Paper tube ID 18mm OD 30mm

Karuna Multi-Use Tip - Anti Splash

- Available in S/R/B Type (10% /13%)
- Connector Type: Mini/ Mark VII
- Available in Paper Tube sizes from 300mm to 400mm
- Can detect the temperature in slag free condition
- Reading 8-10 times per tip



Karuna Lollypop (Sampler)

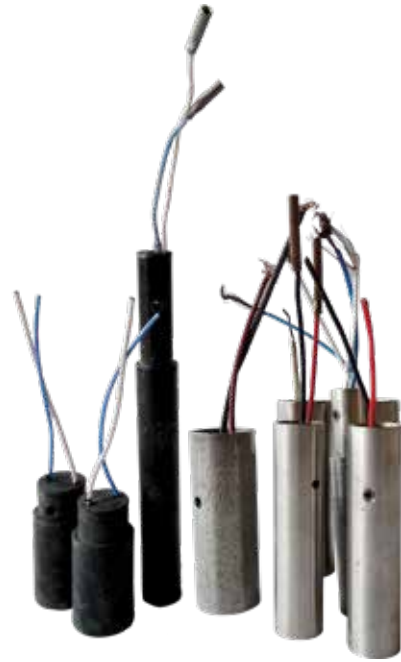
- Available in Round/Oval/Twin
- ID 39mm OD 49mm
- Length: 300mm/600mm/900mm up to 1500mm as per customer Requirement
- De-oxidants: Aluminium/Titanium/Zirconium/Plain

Karuna Lance Assembly

- We manufacture Lance Assembly for all the Models of Thermocouple tips, as per customer's requirement.



Karuna Connectors Contact Block & Receptacle Housing



We manufacture the following accessories :

Receptacles with Moulded Housing

For **MK III Tips**

Connector for Mini Tips & BMD

For **MK IV Tips**

Connector & Housing

For **MK V Tips**

Receptacles with Moulded Housing

For **MK VI Tips**

Contact Blocks (Long & Short Type)

For **MK VII Tips**



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ISO 9001 : 2015 Certified Company

Certificate No: 1202Q103120



Registered Office

8-8-11, JPR Enclave, Dilkushnagar, Behind IDPL Township Balanagar, Hyderabad, Telangana, India.
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Factory

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Our Associated Company :



SRUTI CORPORATION

Since 2005