



CUSTOMERISED SOLUTION

THERMOCOUPLES FOR FORGING INDUSTRIES

Temperature Sensors
To Meet Your Industry Needs



www.eurekaengg.com



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ABOUT US

Eureka Engineering Enterprises (Quality temperature sensors since 2000), is an ISO 9001-2015 certified, leading manufacturer of Temperature sensing and control systems founded by technocrats with their factory located at MIDC Bhosari, Pune. The company handles global, as well as national clientele. The factory is equipped with dynamic and autonomous machinery like Deep Hole Drilling Machine, CNC Turning Machine, Lathe Machines, TIG Welding for accurate machining. Their manufacturing program in a state-of-the-art manufacturing facility includes Thermocouples (K, N, J, N, R, S, T, E, and B types), Resistance Temperature Detectors (RTDs), Thermowells (Bar stock, Fabricated and Customized), Temperature Indicators, Controllers, and PID Controllers, etc. Eureka stands on three central pillars of – Quality, Value, and Delivery.

Leading manufacturer of Temperature sensing and control systems founded by technocrats



2000



State-of the art manufacturing factory located at MIDC Bhosari, Pune

THREE PILLARS FOR EUREKA MOMENT

Quality - Value - Delivery



We are an ISO 9001:2008 certified company specializing in manufacturing and supplying temperature measurement and control systems. We help improve productivity and provide growth opportunities to employees and suppliers while adhering to business philosophy of Total Quality Management. We have appropriate infrastructure & technical expertise supported by qualified and experienced engineers.



At Eureka, we believe in providing quality at optimum cost. Our manufacturing program includes Resistance Temperature Detectors (RTDs), Thermocouples (J, K, N, R, S, T, E, and B types), Thermowells (Bar stock, Fabricated and Customized), Temperature Indicators, Controllers, and PID Controllers etc. Our instruments have been successfully employed in various Process control Industries.



In today's world, speed is the most sought after parameters of reliability. We strive to deliver within proposed time frame and ensure that the delivery of the products are within reasonable duration so that our customers can trust us in long term. Today, we take pride in announcing us as one of the most trusted manufacturers and suppliers of Temperature measurement and control systems.

SINCE 1982

ISO 9001-2015
certified by
TUV Nord



CE Marking certification
by Ente Certificazione
Macchine Srl, Italy



2020



50 + number of
employees working
to give standard quality
products



Annual turnover
crosses Rs.83 million

PROPELLING INNOVATIONS

Besides standard products, we have capabilities to fulfill almost any custom design requirement in temperature sensing

Eureka strives to find better solutions to customer need

Provide reliable solutions to end user

Continuously working towards offering the best in terms of innovation, quality, delivery and value

Solutions to suit most critical application



At Eureka we thrive to deliver quality products at competitive price and prompt delivery lead by dedicated workforce in a state of the art manufacturing facility where 'Therma' stands as a leading brand manufacturer of Temperature Sensing Instruments



MANOJ KHATAN

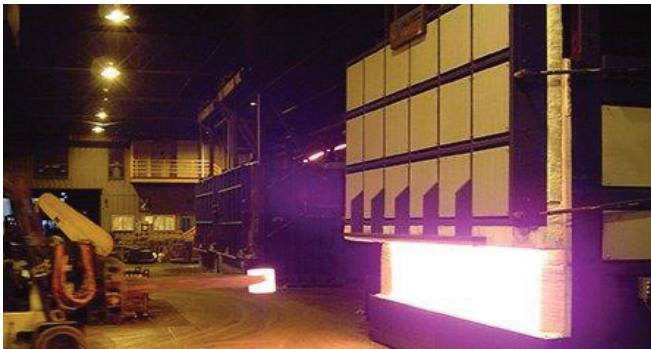
Managing Director

Forging is the process of shaping metals by the use of hammering, pressing or rolling. Hot forging involves heating of a workpiece to about 75% of its melting temperature. Steel, Aluminum, copper and titanium are the most common metals used in the forging process.



Steel Billet PreHeating Furnace

Furnaces are used to pre heat the metal. The types of Furnaces are Box Furnace, Car Furnace, Continuous conveyor Furnace, Induction Heating & Infrared Heating.



Box Furnace

Accurate temperature Measurement & control of Pre heating furnaces are essential for optimum quality, and to reduce wastage . This depends on the proper choice of Thermocouples



Car Bottom Furnace

THERMOCOUPLES

Monitoring of the Wall & roof Temperature is essential & critical factor

Thermocouples ,Type R /S /B with very thick wall Re- Crystallised Alumina Sheath up to 1800 Deg C.

Type K, N , Mineral Insulated Thermocouple with heat resistance, Stainless Grade Thermowell., suitable up to 1200 Deg C



DIE HEATING – TEMPERATURE MEASUREMENT

Measurement of the die temperature is Critical & complicated due to many intermittent operations. which causes thermal gradients



Die Pre Heating Furnace

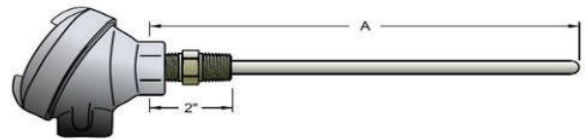
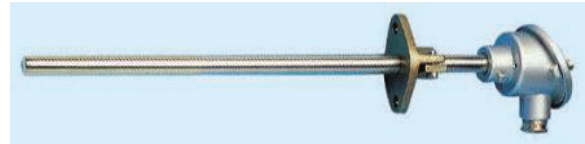


Oven

The dies are heated to 300 -600 deg C based on the type of metal forged.

Thermocouples: Type K, Mineral Insulated , with SS310 Protection Sheath. IP 65 Head.

RTD: Pt-100, 3 & 4 wire RTD , with High Temperature S S 304, 316, Hastelloy Protection sheaths



THERMOCOUPLE EXTENSION / COMPENSATING & RTD CABLES



Thermocouple Extension / Compensating Cables :
Type K, N, J, E, T, R & S, IEC, B S, ANSI colour codes.



Insulation : FRPVC, PTFET/FET – Teflon, Fibre Glass, SS Braided & Armoured. Fire Retardant.



RTD / Instrumentation Cables :
Triad Shielded, Multi Pair Shielded, Copper Conductors, Fire Retardant & Armoured cable.

TEMPERATURE GAUGES

Bi-Metal Gauges: SS Body, Dial 3' , 5" & above... 0 to 600 deg c All Angle Type.

Capillary Gages: Gas Filled 3 meter Capillary length with Bulbs of different lengths. Surface & Panel Mount. With Thermowells & Adaptors.



CABLES

THE TYPE OF CABLES

- ▶ Thermocouple Extension Cables &
- ▶ Compensating Cables
- ▶ RTD Cables
- ▶ Control Cables
- ▶ Instrumentation Cables
- ▶ Multi Pair, Multi Core, Twisted, Shielded, Braided & Armored

INSULATION TYPES

- ▶ **PVC:** Flame Retardant PVC insulation Provides good chemical resistance and suitable up to 105 deg c
- ▶ **FEP / PFA / TFE :** Teflon insulation has excellent resistance to Abrasion, solvent, Chemical and Moisture, Suitable up to 260 deg c
- ▶ **Fiber Glass:** Individual conductors and overall insulated with glass fiber, used in very high temperature, up to 700 deg C.
- ▶ **Ceramic Fiber:** Extreme high Temperature applications up to 1000 deg C.



ACCESSORIES



Flanges & Mounting Brackets:

Flanges: SS 304, 316, 310, 446.. Inconel 600, Incoly 800, Monel 400
Carbon Steel A 105, A 350

Standards:

ASME B 16.5, DN

Pressure Rating:

150#, 300#, 600#, 1500#, 2500#

Material:

Cast Iron, black powder coated finish.
Carbon Steel, black powder coated finish.
Clamping Pipe Sizes: 12mm, 15mm, 22mm, 32mm...and any other non standard size

Union, Nipples & Reducers:

Unions:

Material: SS 304 / 316, Galvanized Steel.

End Connections: Threaded, Socket Weld.

Sizes: 1/2", 3/4", 1" up to 2-1/2"...

Nipples:

Material: SS 304, 316, Galvanized Steel.

Sizes: Any required Length, 1/2", 3/4", 1" and above

Threads: BSP, NPT & metric.

Adaptors/Reducers:

Material: SS 304, 316, Brass.
Various Male/Female Thred Options.



Ceramic Tubes & other Non Metallic Tubes:

Ceramic Tubes : Aluminium Porcelain - C610 & Recrystallised Alumina-C799

Sizes: from 6mm OD to 30mm OD

Silicon Nitrate Tube: Equivalent to Syalon

Silicon Carbide Tube:

Graphite Tube:

Compression Fittings & Cable Glands:

Compression Fittings: SS 316 & Brass, BSP & metric threads. To suit MI 1.5 mm to 12.5 mm OD.with Ferrules

Cable Glands: Brass cables glands-Nickel-plated & SS 316 Plastic Cable Glands. with strain relief, meeting IP & NEMA degree of protection,

Threading: BSP, NPT & Metric Also Available for hazardous Area, Ex Glands.



TEMPERATURE INDICATORS

PANEL MOUNT

FLAME PROOF

BIG DISPLAY

MULTI CHANNEL

PORTABLE



NON CONTACT PYROMETER



TEMPERATURE CONTROLLER

TEMPERATURE PID CONTROLLER

TEMPERATURE TRANSMITTER

TEMPERATURE SCANNER

CABLES & ACCESSORIES





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