Ceramic Band Heaters

FEATURES
- AL Steel / SS Sheathing
- Designed with Uniform heat profile for Higher Temperature up to 500°C.
- Improved Heating Efficiency upto 55 Watts / sq inch
- Efficient Heat Transfer even on irregular surfaces in comparison to Mica Band
- Robust Terminal Junction with Specially Designed Protection Cap.
- Non-Corrosive Sheathing withstanding high temperature upto 700°C.
- Choice of Terminations & Clamping
- Engineered for Longer life with Superior quality steatite insulators & Resistance wire for Max. Amp capacity.
- Serrated Edges for Easy installation and removal.

APPLICATIONS
- Injection Moulding
- Blow Moulding
- Film Extruders
- Pipe Extruders
- Laboratory Equipment

Energy Saver
- Conserves Energy up-to 30%*
- Built in Twin Thermal Insulation
- Reduces initial preheating time & Maintains uniform temperature for a longer duration
- Minimizes Heat Dissipation & Lowers external sheath temperature upto 70%
- Reduces energy consumption by delaying ON/OFF cycle time thereby reduces energy bills.
- Provides better working atmosphere.
- Faster Returns on Investments (ROI) in comparison to ordinary Band Heaters.

*Energy Conservation is subject to Heater model / applications / Process & local conditions at site.

Eco-Heat
- Built in Thermal Insulation
- Barrel Nut Clamping 180 Deg opp Terminal.
- Choice of Two Piece Construction
- Choice of SS Sheathing.

TECHNICAL DATA
- Surface Loading: 35-55W / Sqi
- Voltage Range: 110V - 440V
- Min Diameters: Eco Heat : 60mm, Energy saver : 75 mm
- Min Width: Eco Heat : 35mm, Energy saver : 75mm
Mica Heaters (Band | Nozzle)

**FEATURES**
- AL Steel / SS Sheathing
- Engineered for Uniform Temperature & Maximum Amperage carrying capacity
- Robust Terminal Junction with specially designed Chrome Nickel Steel protection cap to protect exposed terminals
- Special High Grade Mica insulation for Superior Thermal Conductivity
- Available in Various Lead Terminations & Clampings
- Conserves Energy with improved Heating Efficiency Up to 30 Watts per square inch
- Designed for Temperatures up to 300°C
- Glass Fibre insulated Metal Braided Terminal Cable
- Barrel Nut type clamping with Terminal Protection Box
- Expandable to fit around the Barral O.D. Easy installation & removal

**TECHNICAL DATA**
- Surface Loading: Upto 30W / in²
- Voltage Range: 110V - 440V Single Phase & Two Phase
- Min. Inside Diameter: 25 mm
- Min. Width: 25 mm without mounting / thermocouple holes
- 35mm with mounting / thermocouple holes

**APPLICATIONS**
- Injection Moulding
- Film Extruders
- Pipe Extruders
- Blow Moulding
- Plastic & Rubber Processing Machinery
- Laboratory Equipment

**Models To Choose From**

- **Eco-Heat**
  - Choice of Aluminized Steel Sheathing / SS
  - Choice of Screw Post terminal with Ceramic or Steel protection cap

- **Power Saver**
  - Option of SS / Brass Inner Sleeve
  - Energy saving insulated SS cover
  - Also available in Two Piece Construction

- **Mica Nozzle Heater with Steel Protection Cap**

- **Mica Nozzle Heater with Side Exit Terminal**
Formed Tubular Heaters for Manifolds

For manufacturing formed elements it is necessary to have an accurate dimensional sketch showing all the centre distances, radius and degrees.

**FEATURES**
- Available Dia: 8.00 & 8.50 mm
- Standard Length available: 400 mm upto 1550 mm (Tolerance ± 1.5%)
- Effortless forming for Easy installation
- Maximum sheath contact (upto 75%)
- Rapid heat transfer and distribution
- Minimal temp. variance between heater sheath & manifold
- Reduced energy costs
- Smaller bending radius
- Groove Dimensions -
  - For 8 mm: 7.80 (±0.05) mm x 8.00 (±0.10) mm, For 8.5 mm: 8.30 (±0.05) mm x 8.50 (±0.10) mm

**APPLICATIONS**
- Hot Runner Manifolds

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Flexible Tubular Heater for Hot Runner Manifolds

**FEATURES**
- Available Dia: 8.00 & 8.50 mm
- Standard Length available: 400 mm upto 1550 mm (Tolerance ± 1.5%)
- Effortless forming for Easy installation
- Maximum sheath contact (upto 75%)
- Rapid heat transfer and distribution
- Minimal temp. variance between heater sheath & manifold
- Reduced energy costs
- Smaller bending radius
- Groove Dimensions -
  - For 8 mm: 7.80 (±0.05) mm x 8.00 (±0.10) mm, For 8.5 mm: 8.30 (±0.05) mm x 8.50 (±0.10) mm

**APPLICATIONS**
- Hot Runner Manifolds

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For 8 mm: Heater dia=8.0 mm, Heater Hot Length=830 mm, Total Heater Length=900 mm, Wattage=High Wattage, Voltage=230V
Coil Heaters

FEATURES
- Sheath material: SS
- Standard sizes available with various cross section
- Various Watt Density option available
- Designed for even heat profile
- Precision fit on Hot Runner Nozzles
- Highly Non-corrosive

TECHNICAL DATA
- Sheath Temperature: 750°C Max
- Voltage Range: 24 to 250 volts
- Connection Wires: Stranded Nickel wires with PTFE coating
- Available Diameters (in mm):
  - Round: 2.9, 3.3, 3.8
  - Square: 3 x 3, 3.3 x 3.3
  - Flat: 1.8 x 3.2, 2.5 x 4.3, 4 x 6.4
- Tolerance on all dimensions ± 0.1mm

READY STOCK COIL HEATERS WITH J TYPE THERMOCOUPLE
Available Ex Stock. Dispatched within 48 hours (for standard lengths only).
Caution: Once a heater is bent or coiled it is not advised to de-coil or re-bend the same.

APPLICATIONS
- Hot Runner Nozzles & Bushings
- Tube Extrusion
- Pipe Forming

Micro Tubular Coil Heaters

FEATURES
- Sheath material: SS
- Two standard tube diameters, 1.50 mm and 1.80 mm (0.059" & 0.07")
- Faster Heat Transfer with flat cross section tube (1.30mm x 2.30mm)
- Staggered cold leads
- Robust Construction

TECHNICAL DATA
- Sheath Temperature: 750°C Max
- Voltage Range: Maximum 250 volts, standard 230 volts
- Lead Wires: Teflon insulated

Micro Tubular Nozzle Heater
- Available Diameters:
  - 19.1 mm x 30 mm, 265 W
  - 19.1 mm x 30 mm, 149 W

APPLICATIONS
- PET Preform Moulds
- Hot Runner Nozzles & Bushings
- Thin Walled Container Moulds
**High Performance Heaters for Machine Nozzles**

**FEATURES**
- Standard sizes available with various cross section
- Robust Design
- Available in custom sizes
- Various Watt Density option available
- Designed for even heat profile
- Precision fit on Machine Nozzles
- Highly Non-corrosive
- Good for processing engineering plastics
- Highly Return on Investment

**APPLICATIONS**
- Extended Machine Nozzles | Injection & Blow Moulding

**TECHNICAL DATA**
- Sheath material: SS
- Voltage Range: 24V - 250V
- Sheath Temperature: upto 400°C
- Good for processing engineering plastics
- Available Diameters: 25 mm to 38 mm
- Available Width: 25 mm to 75 mm with & without in-built thermocouple ‘J’ type

**THE HEATLOK ADVANTAGE**
- Quick ramp up of temperature due to higher watt density
- Negligible effect of material spillage
- Efficient even heat transfer with inner Brass Collet
- Accurate Temperature Control at the nozzle tip
- Higher operating temperature (400°C max) compared to conventional Mica Band Heaters (250°C max)

**High Watt Cartridge Heaters**

**TECHNICAL DATA**
- Sheath material: SS
- Surface Loading: upto 150 watts / in²
- Voltage Range: 12 to 440 volts
- Leakage Current: < 0.5 mA
- Available Diameters:
  - Min Dia: 1/4" & 6 mm, Max Dia: 1" & 20 mm
- Available Lengths:
  - Min length: 1½" & 40 mm, Max length: 40" & 1000 mm

**APPLICATIONS**
- Packaging Industry | Hot Runner Bushings | Marking & Sealing Machinery | Medical & Laboratory Apparatus | Shoe Making Industry | Die and platents
Energy Saving Insulated Jackets

FEATURES
- Conserves Energy up to 30%* & Lowers Energy Bills.
- Reduces Heat Loss up to 80%* on Barrels & Extruders.
- Lowers Ambient Temperatures.
- Non-Flammable Reusable Covers.
- Multilayer Design to withstand High Temperatures.
- Low Thermal Conductivity.
- Corrosion Resistant & 100% Asbestos Free.
- Custom made for Easy Maintenance & Installation
- High Returns Low Investment.

DESIGN COMPONENTS
- High Temperature Coated Outer Layer
- Robust High Temperature Velcro Straps
- Heavy Duty Locking Clip
- (inside) High Temperature Fiberglass cloth
- (inside) High Density Insulation

HIGH RETURNS LOW INVESTMENT
ROI is 8 to 15 months for Injection Moulding (*Subject to Machine Tonnage & Insulation)
ROI 6 to 24 months for Blown Film Extruders (*Subject to Die Size & Insulation)
Also available with Aerogel Insulation