



**SPECIALIZING IN  
COMPLETE THERMAL SYSTEMS  
INCLUDING ELECTRIC HEATERS,  
CONTROLS, AND SENSORS**

**BUILT FOR  
PERFORMANCE**

**DESIGNED FOR  
RELIABILITY**

[WWW.KELVINTECH.COM](http://WWW.KELVINTECH.COM)



**AFFILIATED COMPANIES**

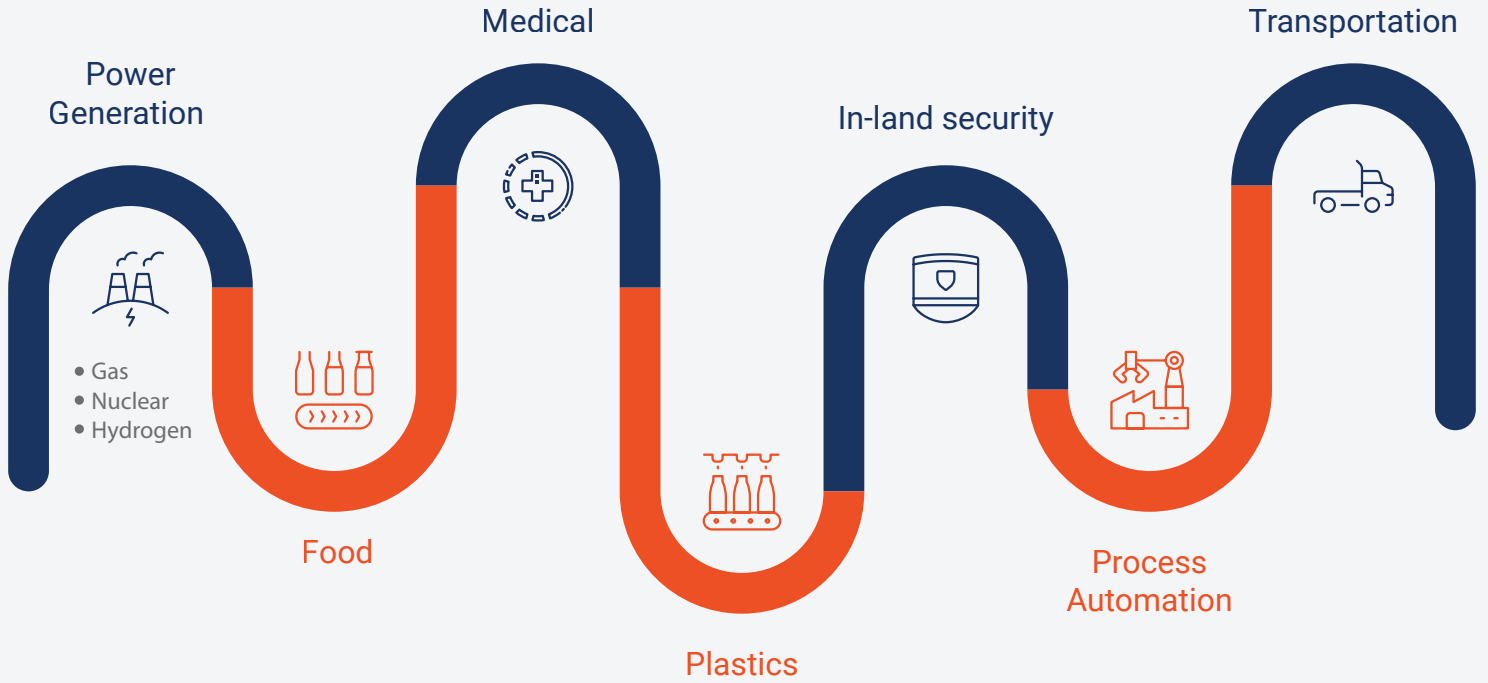




## COMPANY BACKGROUND

- ✔ Custom manufacturer of temperature sensors, electric heaters, and wiring harnesses, specializing in complete thermal solutions.
- ✔ Hot runner systems and components.
- ✔ 25+ years supporting industrial OEM's and large users.
- ✔ In-house engineering-driven design and manufacturing approach.
- ✔ Focused on efficiency, quality, and service.
- ✔ Concentrated sales and service in North America with additional operations in Europe, Asia, and South America
- ✔ Head office in Mississauga, Ontario with additional manufacturing facilities in USA, and France.

# ACTIVE MARKETS SEQUENCE



## TRUSTED BY

smiths  
detection

Mold  
Masters



FuelCell  
Energy

TP SOLUTIONS

StackTeck  
Going Beyond

Progress Rail  
A Caterpillar Company

SciCan

P.D. MCLAREN LTD.  
ENERGY SOLUTIONS & VEHICLE WASH SYSTEMS



# GENERAL PRODUCTS



**CAST HEATER**



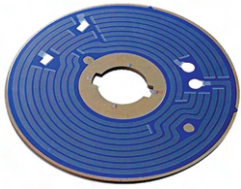
**CERAMIC BAND HEATER**



**CERAMIC STRIP HEATER**



**COIL HEATER**



**THICK FILM HEATER**



**TUBULAR HEATER**



**BOX HEATER**



**CARTRIDGE HEATER**



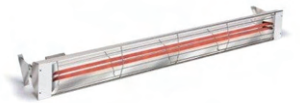
**SILICONE RUBBER HEATER**



**AIR HEATER**



**MICA STRIP HEATER**



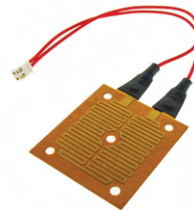
**RADIANT HEATER**



**MICA BAND HEATER**



**HEAT COOL STARFLEX HEATER**



**KAPTON POLYIMIDE HEATER**



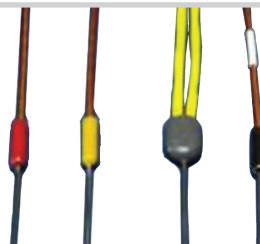
**GENERAL PURPOSE THERMOCOUPLE**



**IMMERSION HEATER**



**MINERAL INSULATED STRIP HEATER**



**MOLDED TRANSITION THERMOCOUPLE**

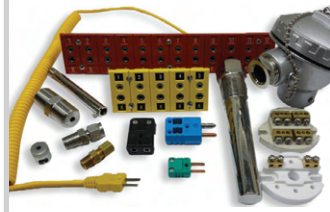
# GENERAL PRODUCTS CONTINUED



**MANUFACTURED ASSEMBLIES**



**MERCURY RELAYS**



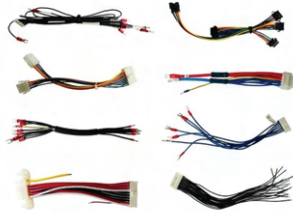
**THERMOCOUPLE ACCESSORIES**



**THERMOCOUPLE AND POWER WIRE**



**THERMISTORS**



**WIRING HARNESS**



**SOLID STATE RELAYS**



**TEMPERATURE CONTROLLERS**



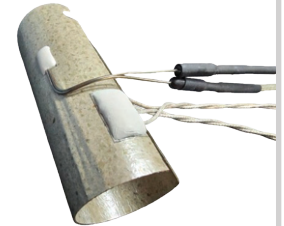
**PRESSURE TRANSDUCERS**



**RTD SENSORS**

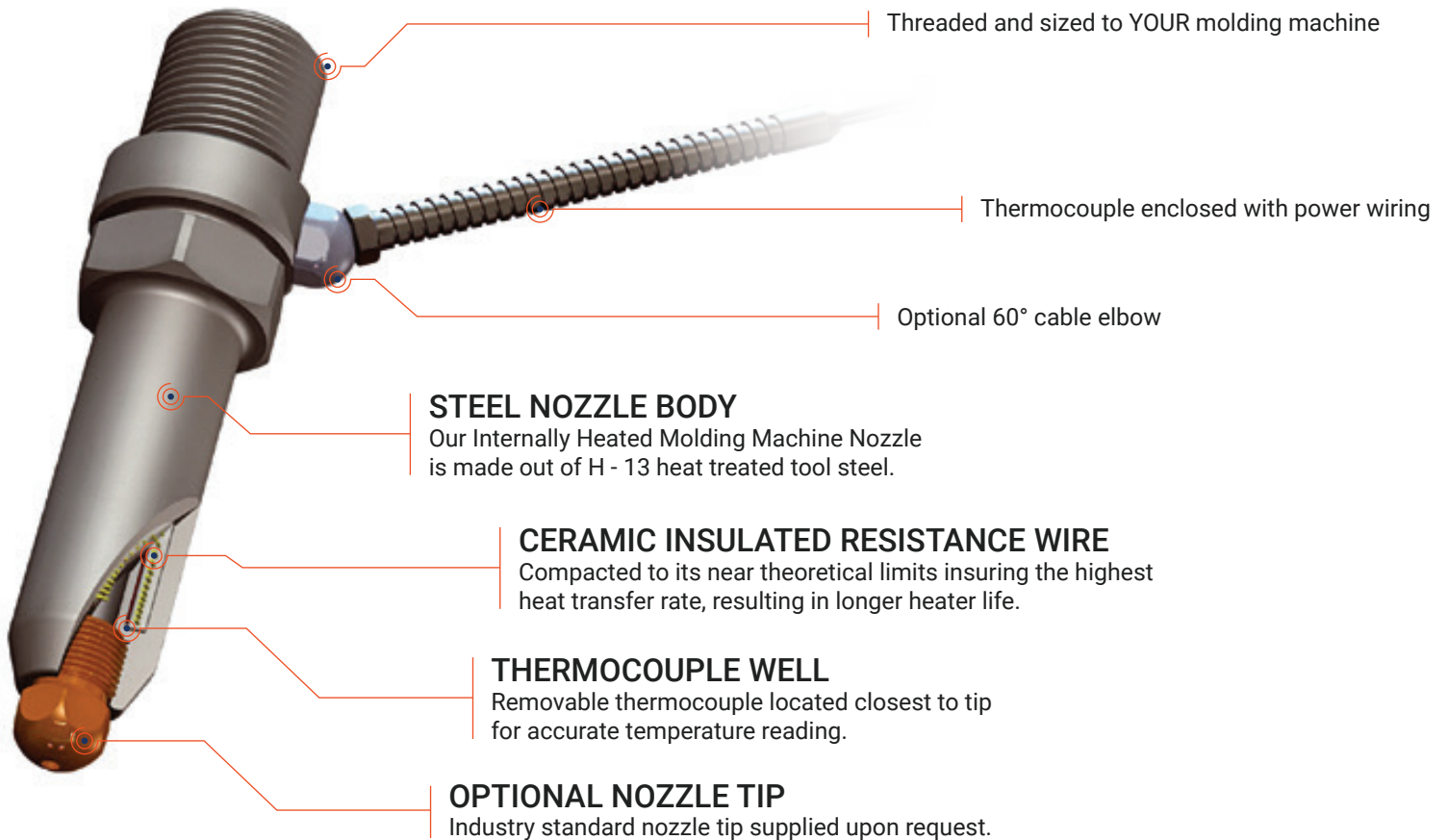


**MINERAL INSULATED BAND HEATER**



**NON-SHEATHED HI-TEMP FORMED MICA**

# INTEGRALLY HEATED MACHINE NOZZLES



## ✔ **New-To-Market Fully Sealed, One-Piece Heater Design**

Heating element is built inside the nozzle and fully sealed from the outside

- ✔ Our nozzles prevent damage from plastic blowback and eliminate heater failures

## ✔ **Direct Heat at the Flow Channel**

Heater is positioned directly over the flow channel

- ✔ Our nozzles deliver more precise process control

## ✔ **Tip-Based Temperature Sensing**

Thermocouple located at the tip for more accurate temperature readings

- ✔ Our nozzles respond faster

## ✔ **Consistent Temperature Profile ( $\pm 5^{\circ}\text{F}$ End-to-End)**

Uniform heat maintained across the entire nozzle

- ✔ Our nozzles deliver stable production and more consistent part quality

## ✔ **Designed to Maximize Uptime**

Sealed design prevents failures from plastic leakage that stop production

- ✔ Our nozzles eliminate the need to stop the press

## ✔ **Reduced Maintenance and Operating Costs**

Eliminates heater band replacements

- ✔ Our nozzles pay for themselves very quickly

## ✔ **Longer Service Life**

Superior durability built to last significantly longer than traditional band heater nozzles

- ✔ Our nozzles provide an increased return on investment and better long-term reliability

## ✔ **Improved Safety & Reliability**

Fully sealed design prevents plastic contamination from reaching electrical components

- ✔ Our nozzles eliminate the risk of electrical shorts, and heater failures caused by blowback



## RELIABLE PARTNER

- ✔ Custom turnkey thermal solutions,
- ✔ Proven performance in harsh, safety-critical environments.
- ✔ Over 80% of raw materials sourced from North America.
- ✔ 24-hour service.
- ✔ Fast turn-around with expedite options (typically within 24 to 48 hours).
- ✔ Multiple sales and manufacturing facilities across North America.
- ✔ Robust designs for vibration, moisture, and corrosive environments.
- ✔ Stocking options and blanket agreements available.
- ✔ Cost effective engineered solutions with a strong emphasis on quality, service and on-time delivery.

## CUSTOM PROJECTS

- ⚙️ Cryogenic Temperature Assembly used in the transportation and logistical control of extremely low temperature, highly sensitive and high value cargo.
- ⚙️ Complete thermal solution for outdoor asphalt holding tanks at temperatures as low as  $-40$  degrees Celsius.
- ⚙️ Specialized miniature heaters and sensors used in equipment designed for advanced threat detection and security screening.
- ⚙️ Heaters and sensors used in thermal solutions for commercial hatchery equipment worldwide.
- ⚙️ Dental sterilizers used in the medical field.
- ⚙️ A variety of tier one suppliers in the automotive and plastics markets.



**CONTACT US**

**MARK CLOUTIER**



[mcloutier@kelvintech.com](mailto:mcloutier@kelvintech.com)



[www.KelvinTech.com](http://www.KelvinTech.com)