



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

**BUILT FOR
PERFORMANCE
DESIGNED FOR
RELIABILITY**

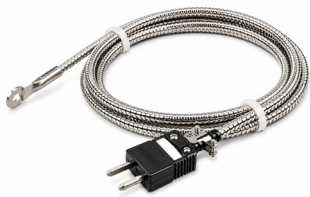
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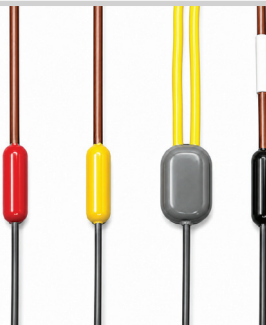
COMPANY BACKGROUND

- ✔ 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.

SENSORS AND CONTROLS



**GENERAL PURPOSE
THERMOCOUPLE**



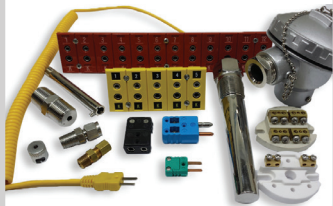
**MOLDED TRANSITION
THERMOCOUPLE**



**THERMOCOUPLE WITH
POSITIVE INDICATING CAP**



**THERMOCOUPLE AND
POWER WIRE**



**THERMOCOUPLE
ACCESSORIES**



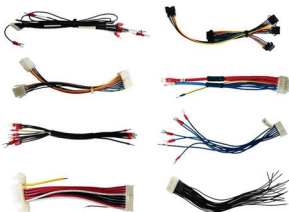
**STAINLESS STEEL ARMOR
WITH TEFLON COATING**



RTD SENSORS



THERMISTORS



WIRING HARNESS



**PRESSURE
TRANSDUCERS**



MERCURY RELAYS



**SOLID STATE
CONTACTOR**



SOLID STATE RELAYS



EURO PLUGS



**TEMPERATURE
CONTROLLERS**



CONTROL PANELS

HEATERS



CAST HEATER



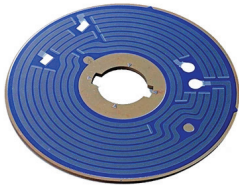
CERAMIC BAND HEATER



MINERAL INSULATED & CERAMIC STRIP HEATER



COIL HEATER



THICK FILM HEATER



TUBULAR HEATER



BOX HEATER



CARTRIDGE HEATER



SILICONE RUBBER HEATER



AIR HEATER



MICA STRIP HEATER



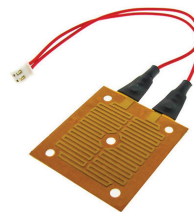
RADIANT HEATER



MICA BAND HEATER



HEAT COOL STARFLEX HEATER



KAPTON POLYIMIDE HEATER



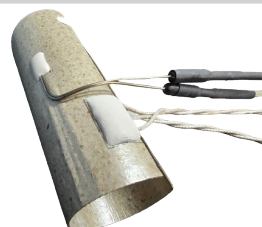
IMMERSION HEATER



MOLDED TRANSITION MI HEATER



MINERAL INSULATED BAND HEATER

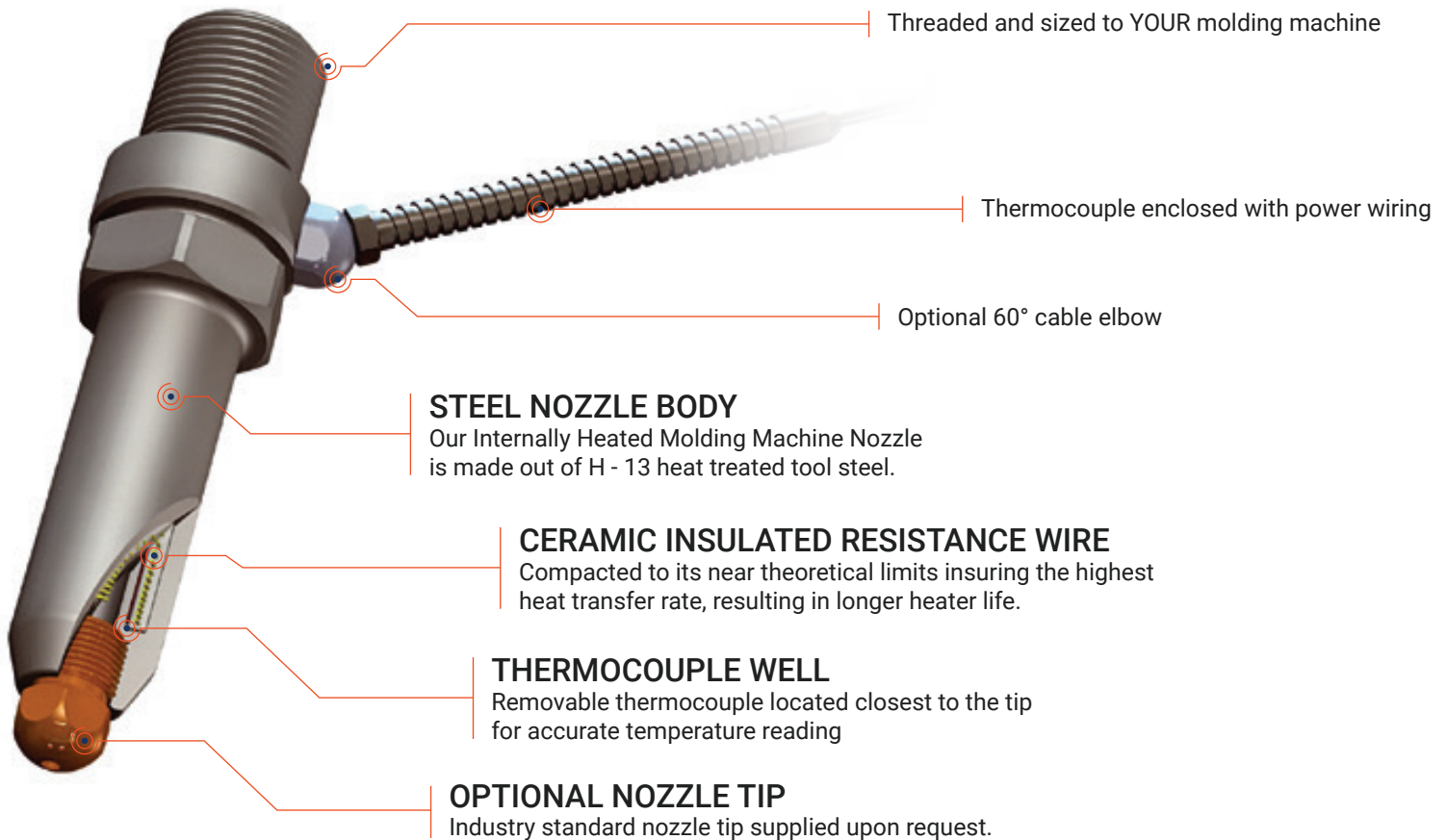


NON-SHEATHED HI-TEMP FORMED MICA



RUBBERIZED MOLDED TRANSITION OPTION

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, fires and heater failures caused by blowback



HOT RUNNER SYSTEMS ENGINEERED TO PERFORM

- ✔ **Innovative Dual Sealing System**
Keeps molten plastic away from internal wiring
 - ⬢ Our systems save you thousands in repair costs and heater replacements
- ✔ **Unique Manifold Design**
More balanced flow across all cavities (within $\pm 2\%$ vs standard $\pm 5\%$)
 - ⬢ Our systems create more uniform parts with an improved cosmetic finish
- ✔ **Color Changes 3x Faster in as Little As 5 Shots**
Minimal plastic retained in flow path
 - ⬢ Our systems provide faster transitions
- ✔ **High-Quality Nozzles Built for Demanding Environments**
Superior design and built to last against wear, contamination and thermal stress
 - ⬢ Our systems reduce replacement parts
- ✔ **Optimized for High-Cavitation Molds**
Plastic flows smoother, faster and more evenly
 - ⬢ Our systems create more sellable parts per cycle
- ✔ **Low Maintenance Valve Gate Design**
Maintenance can be performed without re-wiring the system
 - ⬢ Our systems reduce service time and minimize production downtime

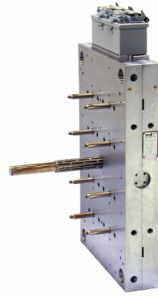
HOT RUNNER SYSTEMS AND COMPONENTS



2 SHOT HOT RUNNER SYSTEMS



SINGLE FACE HOT RUNNER SYSTEMS



STACK HOT RUNNER SYSTEMS



VALVE GATE HOT RUNNER SYSTEMS



HOT SPRUE BUSHING



SPRUE BAR SHUTOFF DEVICE



DUAL STAGE FILTER



SINGLE CAVITY VALVE GATE SYSTEMS



EDGE GATE NOZZLES



SHUTOFF AND MACHINE NOZZLE DEVICE



DIRECT GATE NOZZLES



VALVE GATE NOZZLES



CLUSTER/MULTI-GATE NOZZLES



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