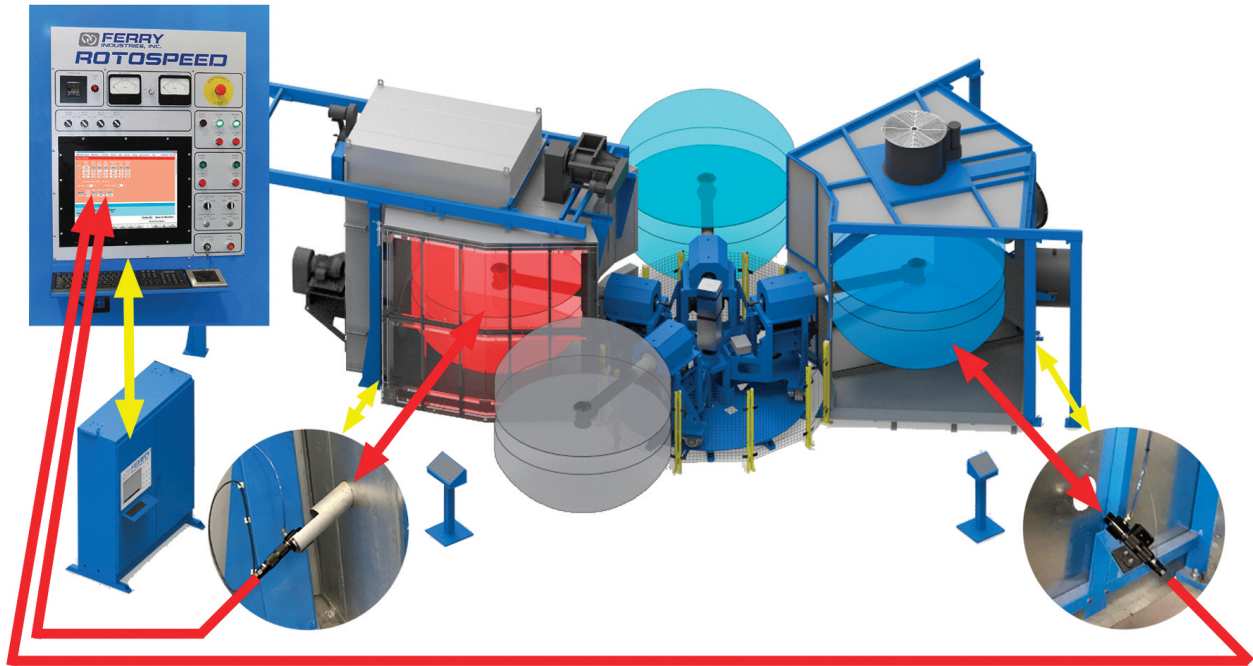


**WHEN PERFORMANCE COUNTS...**



## **INFRARED THERMOMETRY-IRT**

**THE ONLY NON-CONTACT CLOSED-LOOP CYCLE CONTROL FOR OPTIMUM PRODUCT CONSISTENCY**

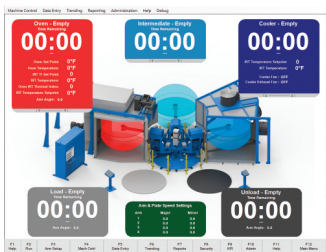
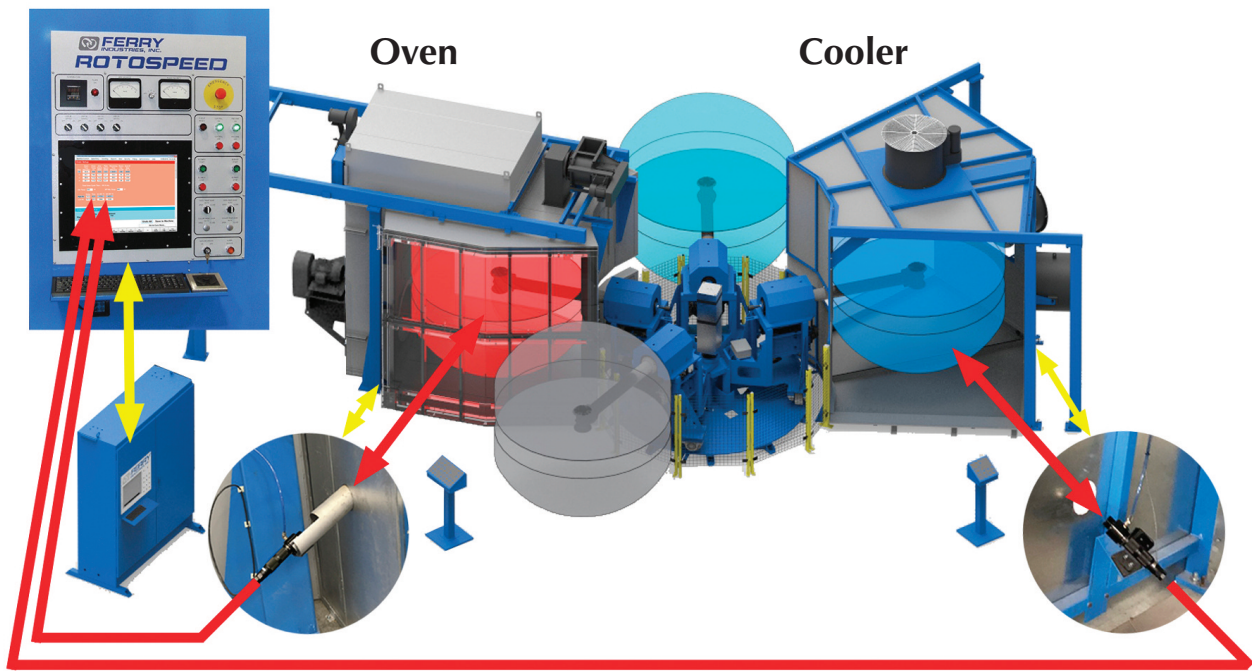
Ferry's InfraRed Thermometry™ (IRT) provides continuous process control for heating and cooling cycles on Ferry RotoSpeed rotational molding machines. IRT enhances the repeatability of cure, cycle to cycle.

IRT uses remote sensors to monitor the temperature of the surface of the rotating molds and interprets this data for analysis. This map of temperature is used to provide key data values during the heating and cooling cycles; then this data is used to determine the end of the oven and the cooling cycles for repeatable cycles.

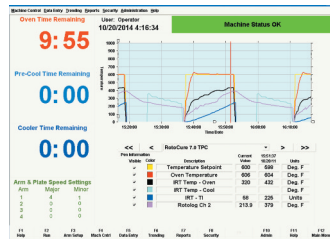
### **Features of IRT include:**

- Improves part consistency
- Cycles are adaptive to ambient temperature changes -- decreases scrap
- Recovers from operator- or machine- induced faults
- No thermocouple wires to connect
- Saves valuable machine time--no need to pre-heat the oven
- Provides for optimum cure and part properties
- Saves time by preventing cycle redundancy
- Assists dimensional stability of parts
- Ability to integrate into Ferry RotoCure 7.0 System Manager

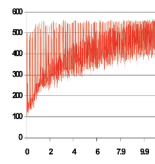
# FERRY'S INFRARED THERMOMETRY - SYSTEM OVERVIEW



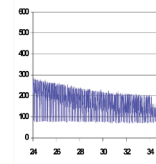
RotoCure Run Screen including IRT Set Points



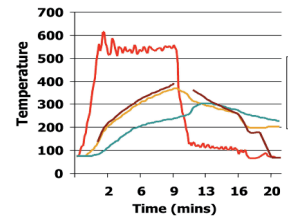
RotoCure with IRT & RotoLog Intergration



Oven



Cooler



Mold Temperature Relationship Chart

InfraRed Thermometry™ (IRT) for rotational molding machines is available exclusively from Ferry Industries, Inc.

IRT is the first self-adjusting control system for rotational molding machines. By continuously monitoring the surface temperature of the mold, IRT can sense anomalies in the molding cycles that can cause scrap parts and automatically adjust oven or cool times to assure optimum product – removing your dependence on the operator. **For the first time, a rotational molding machine that is controlled by temperature, not time.**

Consistency is an important key to rotational molding. Without consistency, scrap and borderline product dramatically decrease profits. One of the major causes of scrap and borderline product in rotational molding is change in the ambient condition around the machine. Compensating for these changes in the ambient conditions (mainly temperature fluctuation) is critical. Currently, machine operators are charged with the responsibility to

recognize when adjustments to the oven are required to prevent scrap. The operator normally does not adjust the cooling parameters.

IRT relieves this responsibility from the operator by having the machine automatically adjust the timing in the oven and cooler to assure the required process parameters to produce optimum product each and every cycle.

Changes in ambient conditions, mold changes, delays at the servicing station, oven or cooling malfunctions can require modifications to the programmed cycle. IRT automatically adapts the oven or cooling times to compensate for any of these and assures that the molds exit the oven and cooler at the specified temperature.

Optimum cure cycle, consistent cooling results, reduced part damage due to problems at the service station and high-integrity of part properties every cycle, are all possible with the automatic, adaptive rotational molding machine control – InfraRed Thermometry™ from Ferry Industries.

