

Consistently Reduce Barrel Heating Cost by an Average of 40%

Reduced Operating Costs

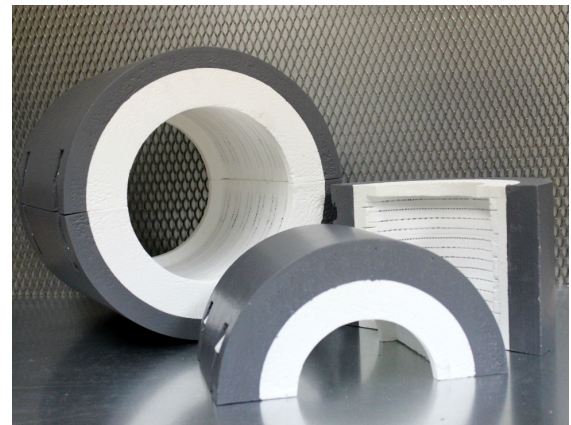
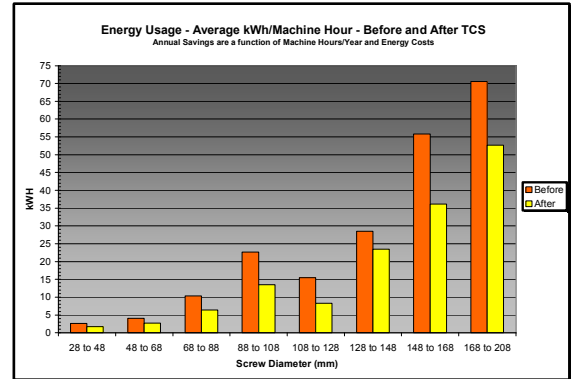
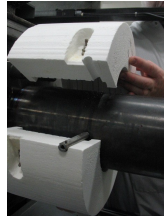
- Reduces both Barrel Heater Energy Consumption and Air Conditioning Load in Climate Controlled Spaces
- Additional Cost Savings:
 - ⇒ TCS Heater Life estimated at more than 2x Band Heaters
 - ⇒ Lower Maintenance
 - ⇒ No Band Tightening Required
 - ⇒ Traditional Band Heaters are Particularly Inefficient when they Lose Contact with Barrel, and this is Rarely Detected

Improved Operator Safety & Comfort

- Insulated Encapsulation Directs Heat to the Barrel, Resulting in an Exterior which is Cool to the Touch improving both Worker Safety and Comfort

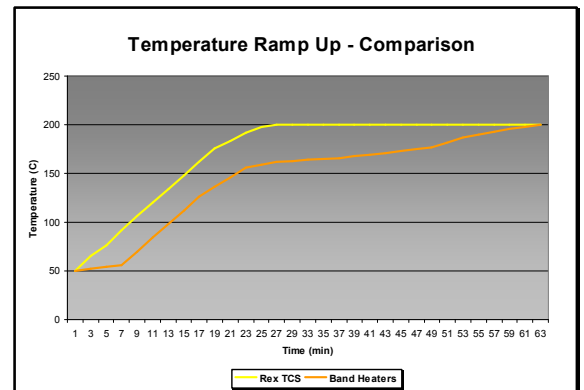
Low Risk

- Low Investment with an ROI Typically < 2 Years
- Easy Installation
- TCS Employs Existing Controls
 - ⇒ No Controller Change; TCS Employs Existing Wiring, SSRs, Fuses, and Contacts
- TCS is Specified as OEM Equipment by Companies such as Toshiba and Milacron
- Proven Manufacturing Process from a Reputable Company with over 50 years of Experience



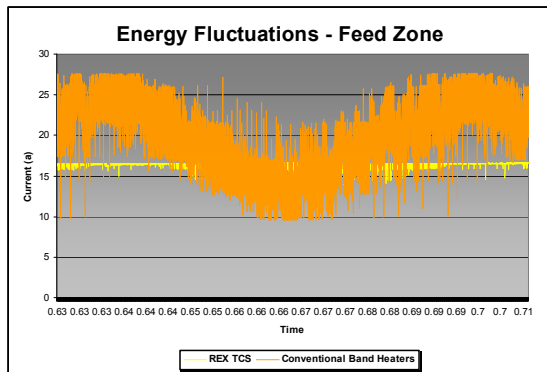
Improved Machine Utilization

- Barrel Reaches Operating Temperature >50% Faster with TCS



Quality—Improved Process Consistency

- Quicker Response Time & More Efficient Energy Transfer to the Melt to Substantially Reduce Temperature Fluctuations



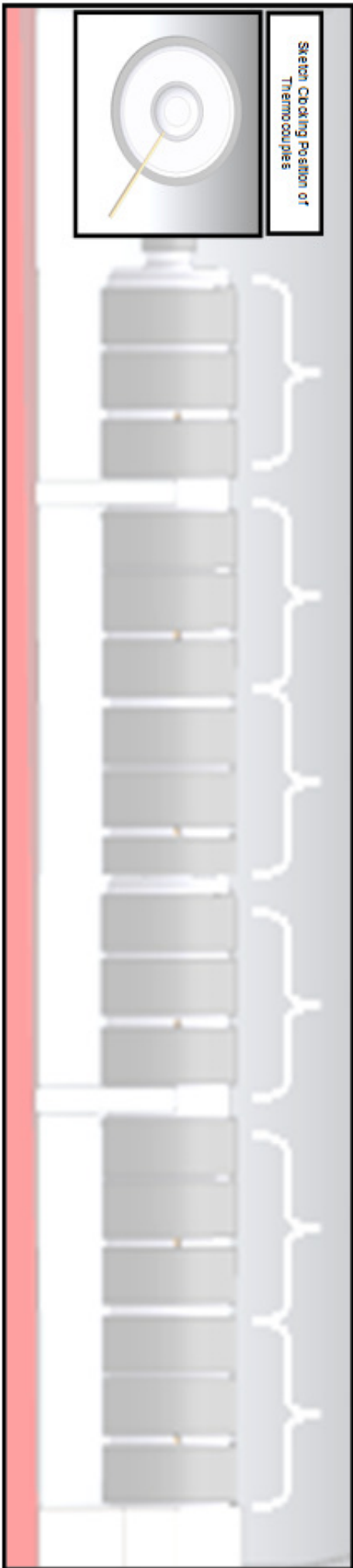
Technical, Sales, and Distribution Inquiries Contact

TCS_Technical_Service@rexmaterials.com



Sketch Desired TCS System, using Standardized Lengths, accounting for Interference and Thermocouples – 83mm (3.25") Clearance Required

Sketch Choking Position of Thermocouples



Zone #									
Power Rating of all Heaters in Zone (kW)									
% On-Time of Heaters in this Zone (%)									
Required Zone Power (Power Rating x % On-Time) (kW)									
Zone Length (mm)									
Barrel Outside Diameter (mm)									
Supply Voltage to Heaters (V)									
Maximum Allowed Amperage (a)									

If Zone is Split by Interference, list each portion as separate Zones, such as Zone 1a and Zone 1b

Design for Future Cooling	<input type="checkbox"/>	Design for Cooling by Zone	<input type="checkbox"/>	Populate Light Blue Cells below to Define TCS Parts
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Required Standardized TCS Length (m)					
Required Standardized TCS Inside Diameter (mm)					
Required TCS Half Voltage (V) (if Series, 50% of Supply Voltage)					
TCS Half Part Number From Price List					
TCS Power (kW) - 2 Halves From Price List					
TCS Amp Draw - One Half From Price List					
TCS Price 2 Halves From Price List					

Barrel OD - Range (mm)	TCS Inside Diameter (mm)
101-125	125
126-150	150
151-175	175
176-200	200
201-225	225
226-250	250
251-275	275
276-300	300
301-330	330
331-355	355

TCS Length (mm)	TCS Length (ft)
150	5.9
165	7.3
225	8.9
260	10.2
300	11.8
340	13.4
360	15

NOTE: Cable Trays, Gasket Kit and TCS Straps must be Ordered Separately if Ordering Individual Standard TCS Parts - Thermocouple Extensions must be Sourced From Machine OEM