



INNOVATIVE INDUSTRIES

Box 41205 Cleveland, Ohio 44141

E-MAIL: info@innovativeindustries.com

WEB: www.innovativeindustries.com

Tel: 330-468-2601 • 800-THERM-IR • Fax: 330-468-2602

Subject: **Tubular Electric Infrared Heaters.**

Reference: Data Sheet PB-102.

Included is Engineering Information on our Electric Infrared Tubular Heaters and Systems.

1. **Unique Benefits** are:
 - A. **Dynamic Heating and Cooling Responses** (one second to full power/two seconds to cool down).
 - B. **No Physical Heater Sections Retraction Required** from the Work Piece due to Line Stoppage.
 - C. **Efficiently Designed** offering Minimal Process Cost.
 - D. **Longevity** of the Heaters results Extended Operational Life (We have Customers who claim to have used our Heaters since 1977 in Continuous Operation).
 - E. **Extended Heating Lamp Life** due to our Proprietary Methods of Air Cooling the Unit.
 - F. **Clam Shell or Solid Tube** Construction Types available.
 - G. **Power and Temperature Control Units** and Systems Available for Consistent Thermal Processing.

2. **Process Materials:**
 - A. **Plastics:**
 - (a) Soften, Surface Dressing and Stressing, Annealing, Forming and Melt Graphics Bonding.

 - B. **Rubber:**
 - (a) Curing, Pre-Heating, Adhesive Curing, and Graphic Ink Curing.



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C. **Metal Processing:**

- (a) Pre-Heating, Annealing and Coat Curing.

3. **Manufacturing Processes:**

A. **Hose Fabrication:**

- (a) Plastic/Rubber.

B. **Extrusions** (Aluminum/Plastic/Rubber):

- (a) Coat or Adhesive Curing.
(b) Thermal Processing.

GENERAL:

1. We offer Free **Testing Services** with:
 - (a) Return of Processed Parts with Appropriate Performance Data.
2. We are very Interested in Your Requirement and will offer Process Engineering Information Relating to Your Applications.
3. We Manufacture Specialized and Standard Infrared Heating Systems for many types of Industrial Thermal Processes including, Powder Coat and Wet Coat Curing Systems, as well as Economically Priced Electrostatic Spraying Systems.
4. We shall look forward to serving your Company in the near future.

Thank you,

INNOVATIVE INDUSTRIES

Thomas Shiveley, Pres.

ELECTRIC INFRARED TUBULAR HEATING SYSTEMS

- Rapid Heating Rates
- Rapid Cool Down Rate
- Line Stoppage Damage Protection
- Clamshell Construction
- Diameter/Length - Various
- Precise Temperature Control



PRODUCTS TO BE PROCESSED:

Hose Tubing Pipe
Extrusions Pultrusions Rod/Rebar
Cabling Wire Shrinkables

TYPES OF PROCESSES:

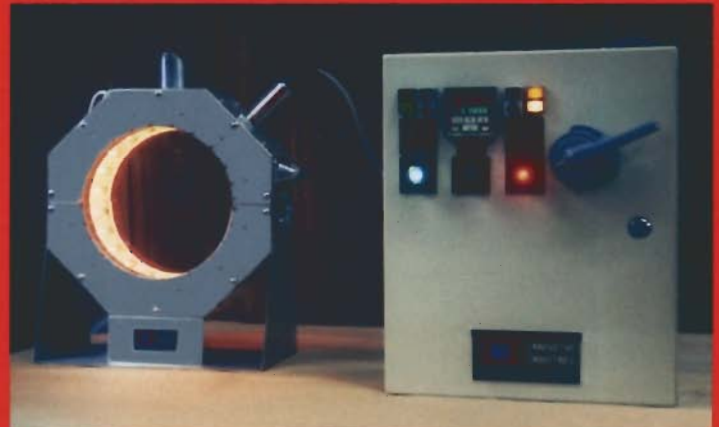
Drying Curing Bonding
Forming Laminating Dressing
Pre-Heating Annealing Soldering

MATERIALS TO BE PROCESSED:

Plastic Rubber Paper Metal

Application Consultation at NO CHARGE.

Sample Testing at NO CHARGE.



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THERMO-RAD

INDUSTRIAL HIGH DENSITY TUBULAR ELECTRIC INFRARED HEATER



SPECIFICATIONS									
HEATER MODEL	HEATED ZONE	HEATER SIZE	PRODUCT MAX DIA	BLOWER MODEL	BLOWER QUANTITY	LAMP TYPE	LAMP QUANTITY	OPERATOR VOLTAGE	TOTAL KW
TEIH-1.5-5-6	1.5'0" x 5'L	10'L x 8"W x 8"H	1.5"	100	2	500T3	6	115	3.0
						1200T3	6	144	7.2
TEIH-1.5-10-6	1.5'0" x 10'L	15'L x 8"W x 8"H	1.5"	100	2	1000T3	6	240	6.0
						2000T3	6	240	12.0
TEIH-1.5-16-6	1.5'0" x 16'L	21'L x 8"W x 8"H	1.5"	148	2	1600T3	6	240	9.6
						2500T3	6	480	15.0
TEIH-1.5-25-6	1.5'0" x 25'L	30'L x 8"W x 8"H	1.5"	148	4	2500T3/VB	6	480	15.0
						5000T3	6	480	30.0
TEIH-1.5-38-6	1.5'0" x 38'L	43'L x 8"W x 8"H	1.5"	148	4	3650T3/5	6	480	21.9
						3800T3	6	575	22.8
TEIH-2.5-5-6	2.5'0" x 5'L	10'L x 8"W x 8"H	2.5"	100	2	500T3	6	115	3.0
						1200T3	6	144	7.2
TEIH-2.5-10-6	2.5'0" x 10'L	15'L x 8"W x 8"H	2.5"	100	2	1000T3	6	240	6.0
						2000T3	6	240	12.0
TEIH-2.5-16-6	2.5'0" x 16'L	21'L x 8"W x 8"H	2.5"	148	2	1600T3	6	240	9.6
						2500T3	6	480	15.0
TEIH-2.5-25-6	2.5'0" x 25'L	30'L x 8"W x 8"H	2.5"	148	4	2500T3/VB	6	480	15.0
						5000T3	6	480	30.0
TEIH-2.5-38-6	2.5'0" x 38'L	43'L x 8"W x 8"H	2.5"	148	4	3650T3/5	6	480	21.9
						3800T3	6	575	22.8
TEIH-4-5-6	4.0'0" x 5'L	10'L x 10"W x 10"H	4.0"	100	2	500T3	8	115	4.0
						1200T3	8	144	9.6
TEIH-4-10-8	4.0'0" x 10'L	15'L x 10"W x 10"H	4.0"	148	2	1000T3	8	240	8.0
						2000T3	8	240	16.0
TEIH-4-16-8	4.0'0" x 16'L	21'L x 10"W x 10"H	4.0"	265	2	1600T3	8	240	12.8
						2500T3	8	480	20.0
TEIH-4-25-8	4.0'0" x 25'L	30'L x 10"W x 10"H	4.0"	148	4	2500T3/VB	8	480	20.0
						5000T3	8	480	40.0
TEIH-4-38-8	4.0'0" x 38'L	43'L x 10"W x 10"H	4.0"	148	4	3650T3/5	8	480	29.2
						3800T3	8	575	30.4
TEIH-6-5-12	6.0'0" x 5'L	10'L x 12"W x 12"H	6.0"	100	2	500T3	12	115	6.0
						1200T3	12	144	14.4
TEIH-6-10-12	6.0'0" x 10'L	15'L x 12"W x 12"H	6.0"	148	2	1000T3	12	240	12.0
						2000T3	12	240	24.0
TEIH-6-16-12	6.0'0" x 16'L	21'L x 12"W x 12"H	6.0"	265	2	1600T3	12	240	19.2
						2500T3	12	480	30.0
TEIH-6-25-12	6.0'0" x 25'L	30'L x 12"W x 12"H	6.0"	265	4	2500T3/VB	12	480	30.0
						5000T3	12	480	60.0
TEIH-6-38-12	6.0'0" x 38'L	43'L x 12"W x 12"H	6.0"	265	4	3650T3/5	12	480	43.8
						3800T3	12	575	45.6
TEIH-10-5-18	10.0'0" x 5'L	10'L x 16"W x 16"H	10.0"	148	2	500T3	18	115	9.0
						1200T3	18	144	21.6
TEIH-10-10-18	10.0'0" x 10'L	15'L x 16"W x 16"H	10.0"	265	2	1000T3	18	240	18.0
						2000T3	18	240	36.0
TEIH-10-16-18	10.0'0" x 16'L	21'L x 16"W x 16"H	10.0"	350	2	1600T3	18	240	28.8
						2500T3	18	480	45.0
TEIH-10-25-18	10.0'0" x 25'L	30'L x 16"W x 18"H	10.0"	265	4	2500T3/VB	18	480	45.0
						5000T3	18	480	90.0
TEIH-10-38-18	10.0'0" x 38'L	43'L x 16"W x 18"H	10.0"	350	4	3650T3/5	18	480	65.7
						3800T3	18	575	68.4
						3800T3/VB	18	575	68.4

FEATURES:

- High Density Radiant Heat Energy.
- Sturdy Stainless Steel Construction.
- Clamshell Design.
- Self Cleaning, High Temp, Ceramic Reflectors.
- Provisions for Cooling the Heating Lamps' End Seals, and the Unit's Electrical Terminals.
- Fast Response: to Full Output within Two Seconds.

OPTIONAL EQUIPMENT:

- Special Heaters Built to Customer's Specs.
- Infrared Heating Lamps.
- Air Blowers.
- SCR Power Controllers and Systems.
- Non-Contact Temperature Monitors.

APPLICATIONS:

- Thermal Processing of Metal/Plastic/Rubber - Pipe, Tube, Hose, Extrusions and Cable.
- Drying/Curing of Coatings.
- Laboratory Specimen Heating.

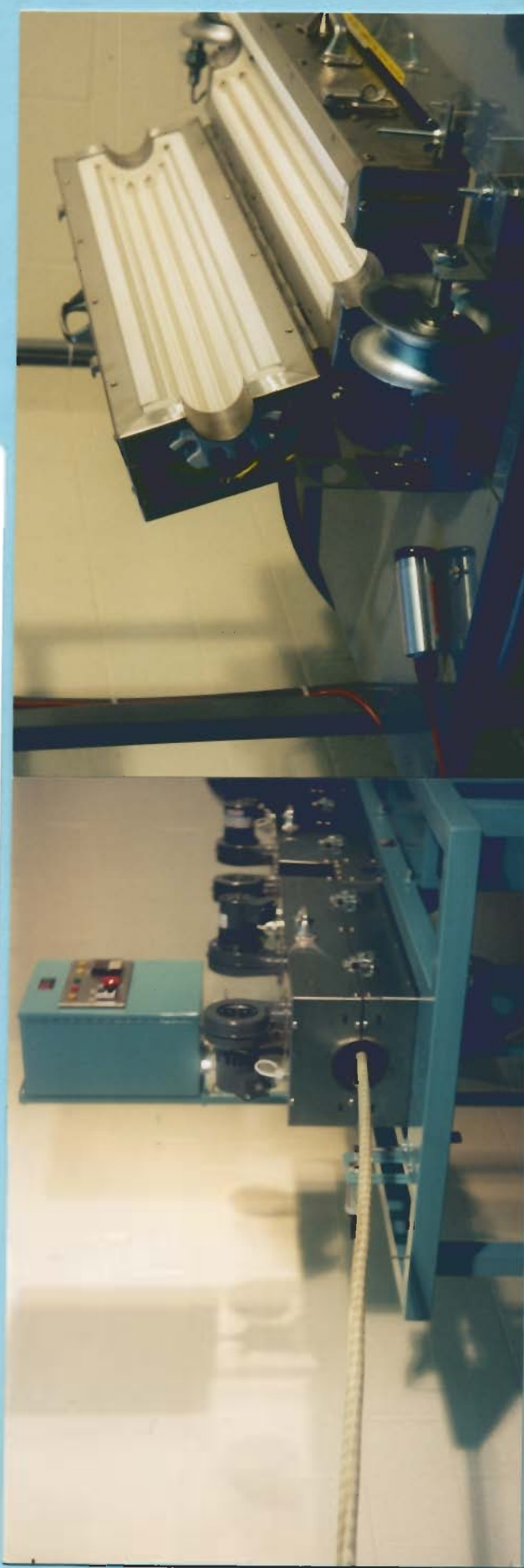
Smaller and Larger Diameters Available.

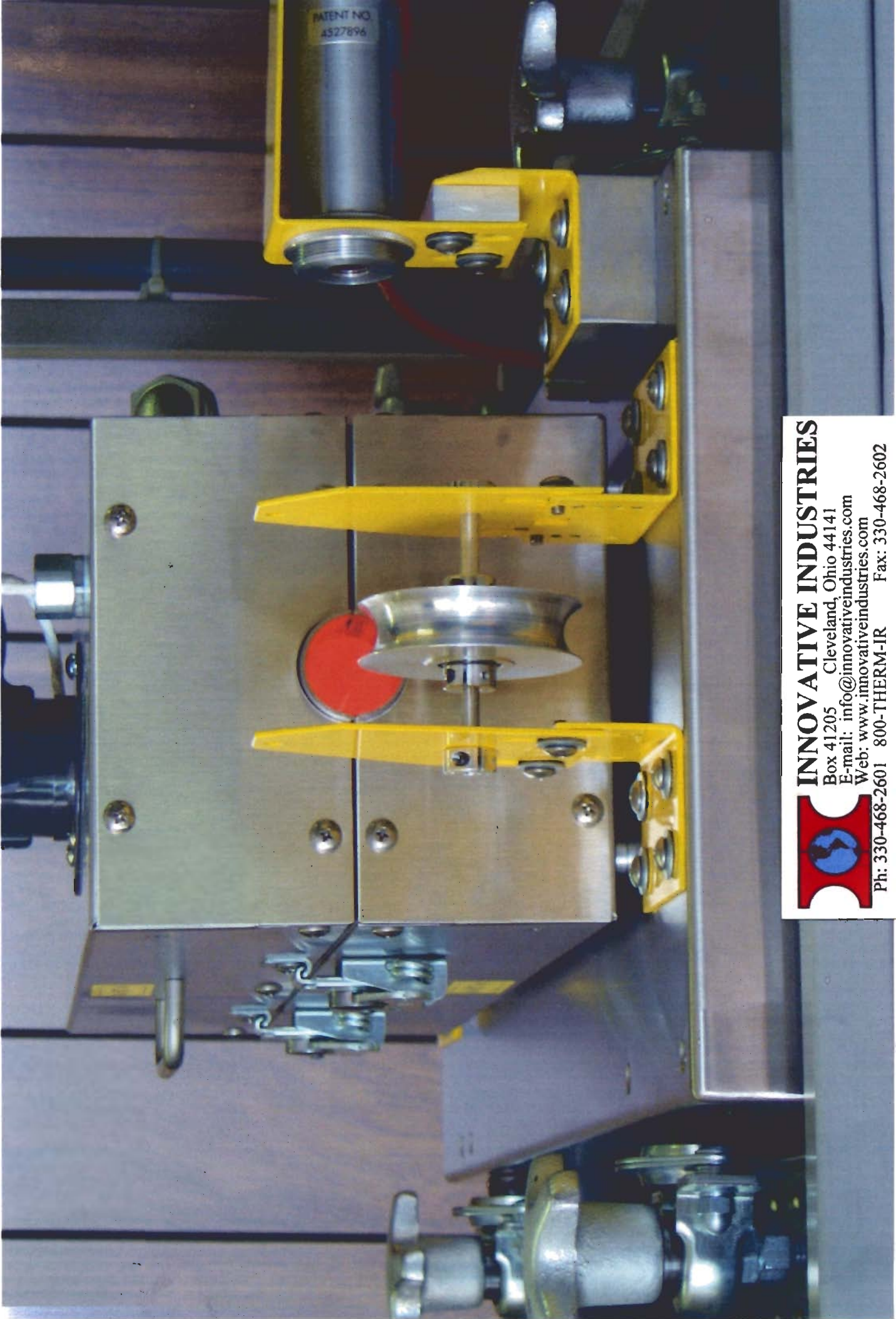
CONTROLS	INTEGRATED	ENSEMBLE	VERTICAL



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PATENT NO.
4527896

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ULTRA-SHORT WAVELENGTH HEATING SYSTEM



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