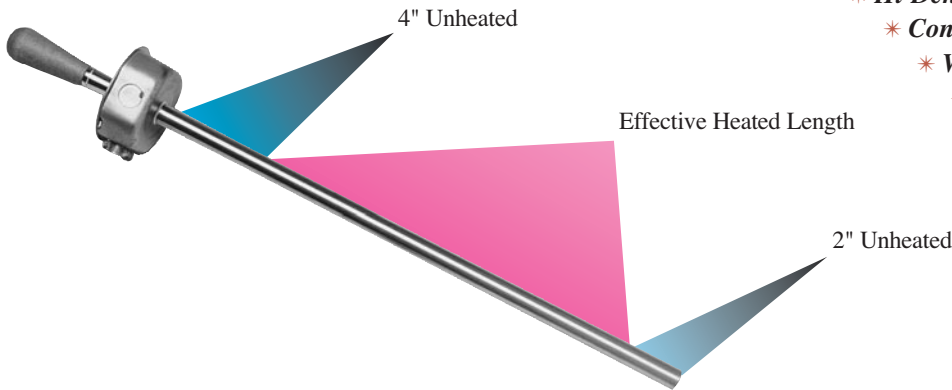


# BOLT HEATERS



**TEMPCO Bolt Heaters** are used as an aid to tighten large bolts in heavy machinery and equipment. Heaters are sized for easy insertion into a hollow bolt. The rapid heating of the bolt expands it, allowing further tightening of the nut. The heater is then de-energized and removed. As the bolt cools, its contraction back to original size provides a tight fit.

Tempco Bolt Heaters are constructed with one of the industry's most efficient and highest quality heating elements—Tempco Hi-Density (swaged) Cartridge Heaters; with close tolerance fits, watt densities of 100 watts per square inch are obtainable—65% higher than standard cartridge or tubular heating elements can deliver. The higher wattage on Hi-Density Bolt Heaters means quicker heat-up time and minimum heat loss to the area surrounding the bolt.

### Design Features

- \* **Hi-Density Construction**
- \* **Conduit Box with Knockouts**
- \* **Wooden Handle**
- \* **High Temperature Lead Wires—250°C (482°F)**
- \* **Optional SJO Cord or Post Terminals**
- \* **Optional Quick Disconnect Plugs**

### Typical Industries

- **Power Plants**
- **Shipyards**
- **Large Machine and Die Manufacturers**
- **Construction**
- **Boiler Manufacturers**

### Typical Applications

- **Large Compressors**
- **Turbines**
- **Die Blocks**
- **Large Cylinders**
- **Engine Heads**
- **Pressure Vessels**

## Bolt Heaters Standard Specifications and Tolerances

### DIMENSIONAL SPECIFICATIONS

Actual Diameter (in)	.438	.496	.553	.580	.621	.710	.745	.813	.993
Actual Diameter (mm)	11.1	12.6	14.0	14.7	15.8	18.0	18.9	20.7	25.2

Diameter Tolerance:  $\pm .005$  (.127 mm)

Length Tolerance:  $\pm 2\%$  of sheath length

Camber Tolerance: 0.020" (0.508 mm) per foot of length (0.020 x (length in feet)<sup>2</sup>)

### ELECTRICAL SPECIFICATIONS

Diameter (in)	.438	.496	.553	.580	.621	.710	.745	.813	.993
Maximum Voltage	240	240	240	240	480	480	480	480	480
Maximum Amperage	6.7	10.5	10.5	23	25	25	25	25	25

If tighter tolerances are required, consult Tempco.