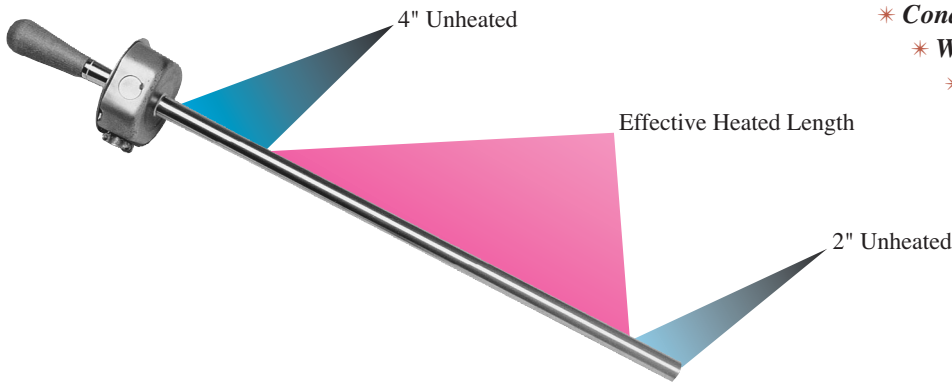


BOLT HEATERS



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*

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.

Bolt Heaters Standard Specifications and Tolerances

DIMENSIONAL SPECIFICATIONS

| | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|
| Actual Diameter (in) | .438 | .496 | .553 | .580 | .621 | .660 | .710 | .745 | .813 | .993 |
| Actual Diameter (mm) | 11.1 | 12.6 | 14.0 | 14.7 | 15.8 | 16.8 | 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)²)

ELECTRICAL SPECIFICATIONS

| | | | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|------|
| Diameter (in) | .438 | .496 | .553 | .580 | .621 | .660 | .710 | .745 | .813 | .993 |
| Maximum Voltage | 240 | 240 | 240 | 240 | 480 | 480 | 480 | 480 | 480 | 480 |
| Maximum Amperage | 6.7 | 10.5 | 10.5 | 23 | 25 | 25 | 25 | 25 | 25 | 25 |

If tighter tolerances are required, consult Tempco.

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