

HELIOS BOLT HEATERS



APPLICATION

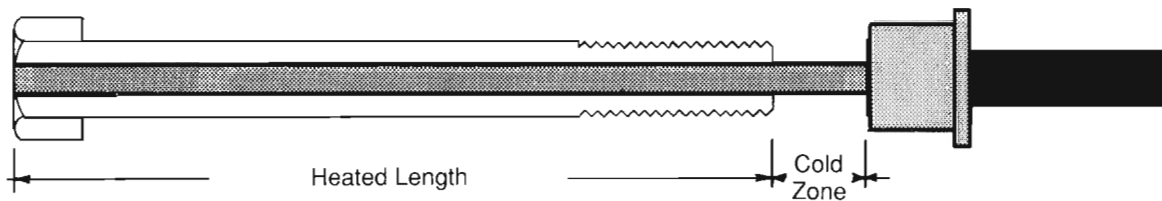
When inserted into a hollow bolt, the transferred heat causes the bolt to expand and increase in length, allowing the nut to be further wrench tightened.

When the heater is removed the bolt cools and contracts, drawing down further the previously tightened nut. The higher the wattage the faster the expansion.

Used widely on studs and holding bolts on large equipment such as steam generators, turbines and pressure vessels.

CONSTRUCTION

Sheathed in stainless steel the heater is constructed having a recommended minimum 100 mm cold zone separating the heated zone from the junction box and handle. The element is of the compacted variety, allowing high watts density and long service life.



In practice the heated length should be fully within the hollow bolt and not allowed to operate freely in open air.

HELIOS STANDARD WATT DENSITY BOLT HEATERS

DIA	HEATED LENGTH (MM)					
	250	500	750	1000	1250	1500
3/8"	500W	1000W	1500	2000	1500W	3000W
1/2"	650W	1300W	2000W	2600W	3250W	4000W
5/8"	800W	1600W	2400W	3200W	4000W	4800W
3/4"	1000W	2000W	3000W	4000W	5000W	5500W
8MM	400W	800W	1200W	1600W	2000W	2400W
10MM	500W	1000W	1500W	2000W	2500W	3000W
12MM	650W	1300W	2000W	2600W	3250W	4000W
14MM	700W	1400W	2100W	2800W	3500W	4200W
16MM	800W	1600W	2400W	3200W	4000W	4800W
20MM	1000W	2000W	3000W	4000W	5000W	5500W

NOTE

The above chart shows bolt heaters rated at 60 kw/m² (40 w/in²)

Helios bolt heaters are available with watt densities of 150 kw/m² (100 w/in²) (ie) over double the above shown Consult with Helios for further details and limitations.