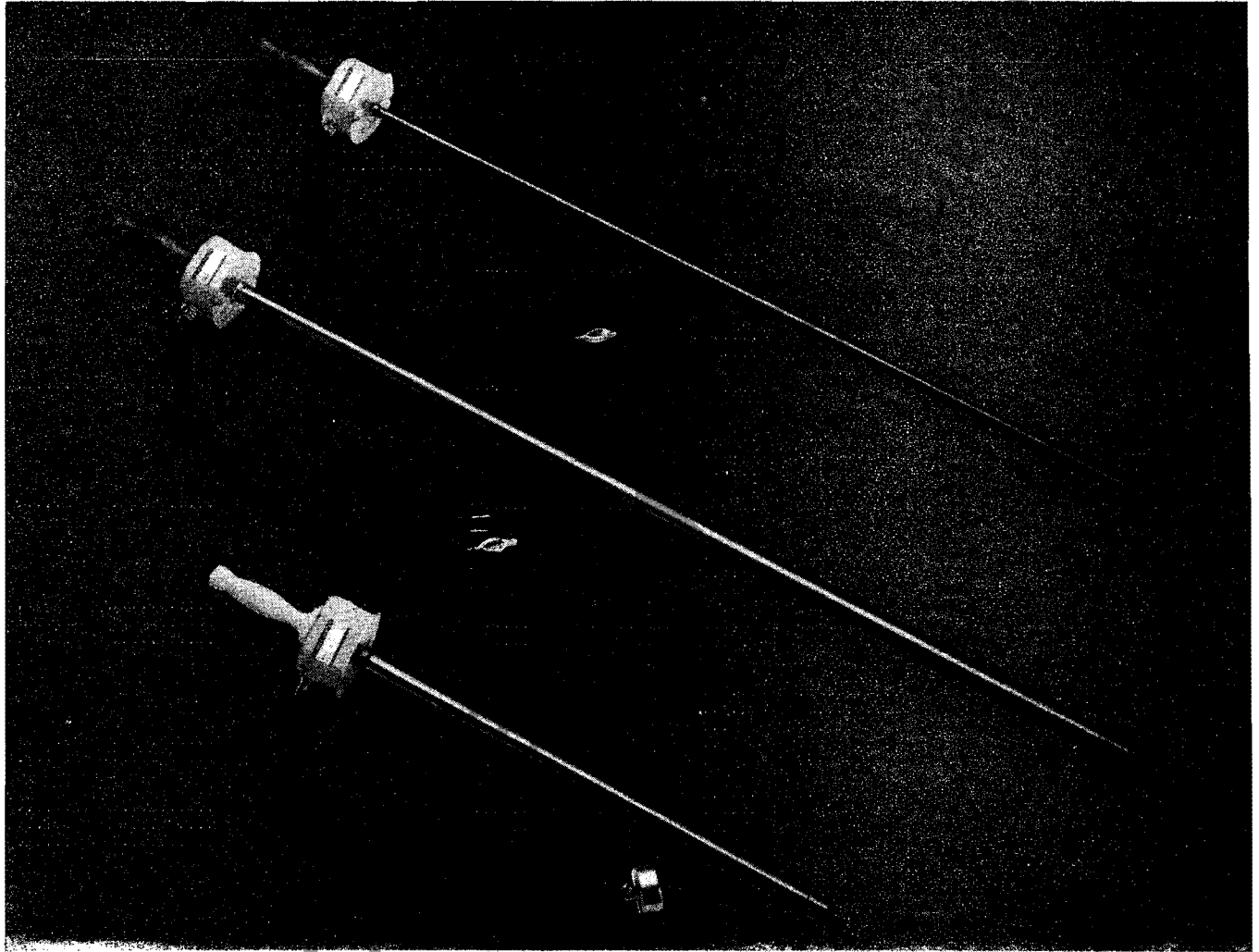


Westinghouse



## Bolt Heaters

Shrink Fitting of Large  
Hollow Bolts and Studs



### Application

The new Westinghouse Bolt Heaters are designed especially to facilitate the shrink fitting of large, hollow bolts and studs on compressors, turbines, and motors where a high concentration of heat is necessary to expand the bolts for ease of tightening or loosening nuts.

Bolt heating eliminates the possibility of scoring flanges or galling threads that may occur with long wrench extensions or sledging.

Large bolts can be heated evenly and quickly to full expansion permitting the nut to be readily positioned. As the bolt cools, the resulting contraction draws it up tight to the proper predetermined stress. Also, on large mechanical press equipment, it is

often necessary to expand adjusting bolts to release a press which has stopped on dead center.

Available in a wide variety of lengths, diameters and heating outputs, these bolt heaters find many applications in the manufacturing and servicing of heavy-duty steam or other pressure equipment, or to heat large die blocks and heavy metal platens.

### Advantages

**High Heat Concentration:** Precision engineered element designed for high density wattage to assure rapid and uniform heat output to the critical working surface.

**Mechanical Strength:** Designed for maximum mechanical strength to withstand rough handling.

**Stainless Steel Sheath:** Provides very high temperature withstand capability for long life at repeated heating.

**Color Coded Handles:** Indicate voltage ratings at a glance (120 Volts - Red, 240 Volts - Yellow).

**Cord Sets With External Ground:** Three types of electrical connections to meet customer requirements with maximum safety during operation.

**Availability:** Standard models from stock cover a wide range of applications. Non-standard sizes and ratings available on a negotiated basis.

Prices effective November 3, 1969; subject to change without notice.  
Discount Symbol H-8  
Selling Policy 100

December, 1969  
New Information  
E, D, C/1668/PL

### Bolt Heaters

Shrink Fitting of Large Hollow Bolts and Studs

#### Dimensions and List Prices

Specifications Dimensions					120 Volt Style Number	240 Volt Style Number							
A	B	C	D	E	Watts	Figure 1	List Price	Figure 2	List Price	Figure 2	List Price	Figure 3	List Price
19½	.438	12	6	1½	990	911D463G01	\$ 56.00	911D463G02	\$ 52.00	.....	.....	.....	.....
25½	.438	18	6	1½	1490	911D463G03	59.00	911D463G04	56.00	.....	.....	.....	.....
31½	.438	24	6	1½	1980	911D463G05	63.00	911D463G06	59.00	.....	.....	.....	.....
43½	.438	36	6	1½	2970	.....	.....	911D463G08	63.00	.....	.....	.....	.....
19½	.553	12	6	1½	1250	911D463G13	59.00	911D463G14	56.00	911D480G13	\$ 63.00	911D480G14	\$ 67.00
25½	.553	18	6	1½	1880	911D463G15	63.00	911D463G16	59.00	911D480G15	67.00	911D480G16	70.00
31½	.553	24	6	1½	2500	911D463G17	67.00	911D463G18	63.00	911D480G17	70.00	911D480G18	74.00
43½	.553	36	6	1½	3750	.....	.....	911D463G20	67.00	911D480G19	74.00	911D480G20	78.00
55½	.553	48	6	1½	5000	.....	.....	.....	.....	911D480G21	82.00	911D480G22	85.00
19½	.688	12	6	1½	1560	911D463G25	63.00	911D463G26	59.00	911D480G25	67.00	911D480G26	70.00
25½	.688	18	6	1½	2330	911D463G27	67.00	911D463G28	70.00	911D480G27	70.00	911D480G28	74.00
31½	.688	24	6	1½	3110	.....	.....	911D463G30	67.00	911D480G29	74.00	911D480G30	78.00
43½	.688	36	6	1½	4670	.....	.....	911D463G32	70.00	911D480G31	78.00	911D480G32	82.00
55½	.688	48	6	1½	6220	.....	.....	911D463G34	85.00	911D480G33	85.00	911D480G34	89.00
67½	.688	60	6	1½	7780	.....	.....	.....	.....	911D480G35	100.00	.....	.....
19½	.813	12	6	1½	1840	911D463G37	67.00	911D463G38	63.00	911D480G37	70.00	911D480G38	74.00
25½	.813	18	6	1½	2760	.....	.....	911D463G40	67.00	911D480G39	74.00	911D480G40	78.00
31½	.813	24	6	1½	3680	.....	.....	911D463G42	74.00	911D480G41	82.00	911D480G42	85.00
43½	.813	36	6	1½	5520	.....	.....	911D463G44	85.00	911D480G43	93.00	911D480G44	96.00
55½	.813	48	6	1½	7360	.....	.....	911D463G46	96.00	911D480G45	104.00	911D480G46	108.00
67½	.813	60	6	1½	9180	.....	.....	.....	.....	911D480G47	119.00	.....	.....
22½	.938	12	9	1½	2120	911D463G49	74.00	911D463G50	70.00	911D480G49	78.00	911D480G50	82.00
28½	.938	18	9	1½	3180	.....	.....	911D463G52	78.00	911D480G51	85.00	911D480G52	89.00
34½	.938	24	9	1½	4240	.....	.....	911D463G54	85.00	911D480G53	93.00	911D480G54	96.00
46½	.938	36	9	1½	6360	.....	.....	911D463G56	96.00	911D480G55	104.00	911D480G56	108.00
58½	.938	48	9	1½	8490	.....	.....	911D463G58	111.00	911D480G57	119.00	.....	.....
73½	.938	63	9	1½	11140	.....	.....	.....	.....	911D480G58	137.00	.....	.....
82½	.938	72	9	1½	12730	.....	.....	.....	.....	911D480G59	156.00	.....	.....
22½	1.047	12	9	1½	2370	911D463G61	82.00	911D463G62	78.00	911D480G61	85.00	911D480G62	89.00
28½	1.047	18	9	1½	3550	.....	.....	911D463G64	89.00	911D480G63	96.00	911D480G64	100.00
34½	1.047	24	9	1½	4740	.....	.....	911D463G66	100.00	911D480G65	108.00	911D480G66	111.00
46½	1.047	36	9	1½	7100	.....	.....	911D463G68	111.00	911D480G67	119.00	911D480G68	122.00
58½	1.047	48	9	1½	9470	.....	.....	911D463G70	137.00	911D480G69	145.00	.....	.....
70½	1.047	60	9	1½	11840	.....	.....	911D463G72	156.00	911D480G71	182.00	.....	.....
37½	1.324	24	12	1½	5990	.....	.....	911D463G78	134.00	911D480G77	141.00	911D480G78	145.00
49½	1.324	36	12	1½	8980	.....	.....	.....	.....	911D480G79	163.00	.....	.....
61½	1.324	48	12	1½	11980	.....	.....	.....	.....	911D480G81	174.00	.....	.....
73½	1.324	60	12	1½	14980	.....	.....	.....	.....	911D480G83	186.00	.....	.....

Refer to PEG 120 or 121 for availability of stock.

#### Dimensions in Inches

