

Induction bearing heaters

Digital temperature control



Proper bearing installation is essential for maximum bearing life. Bearing failures can often be attributed to improper installation and mounting errors. A bearing only a few thousandths of an inch out of alignment can cut its lifespan in half. By heating the inner race to ~250°F prior to installation, the bearing can expand and slide easily onto the shaft. Magnetic induction is a safe and efficient method of generating heat to expand bearings for installation. No open flame or hot oil. Magnetic induction heats bearings evenly & quicker than hot plates.



1 Digital temperature and time control

All portable models feature a digital time/temperature display and magnetic probe.

2 Improve productivity

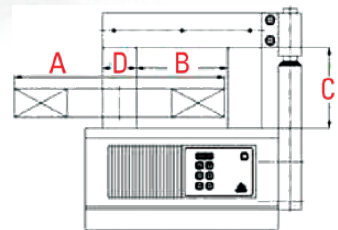
BESSEY® Induction bearing heaters extend the useful life of your bearings. Reducing the frequency of bearing maintenance means lower operating costs.

3 Vertical or Horizontal heating

PVH3813 and SVH5223 allow heating either vertically or horizontally. When in horizontal position, the heating time is 3 to 4 times faster! A 100 lb. unit would heat in under 7 minutes versus more than 25 minutes in the vertical position.

4 Fast and flexible manufacturing

Fast heating works on bearings, sprockets, gears, couplings, sleeves.



Portable digital temperature control, certified PV2412

Includes cross bars standard: 1/4", 3/8", 1/2", 3/4", 1 1/8". Approx. weight: 47 lbs. 120V (15 amp).

	Max. weight ± lb bearings	Min. ID Ø	Max. OD Ø	Max. width B	Max. horizontal heating width C	Cross section poles D	Pole height	Temperature control max reach	Time control max reach
PV2412	44 lbs	3/8"	9 1/2"	4 3/4"	—	1 5/8"	5"	302°F	0-30 min.



*Bearings not included

Portable digital temperature control, certified PVH3813

Vertical or horizontal heating. Includes cross bars standard: 1/4", 3/8", 1/2", 3/4", 1 1/8". Approx. weight: 51 lbs. 120V (15 amp).

	Max. weight ± lb bearings	Min. ID Ø	Max. OD Ø	Max. width B	Max. horizontal heating width C	Cross section poles D	Pole height	Temperature control max reach	Time control max reach
PVH3813	110 lbs	3/8" / Ø 3 7/8"	15"	5 1/4"	5 1/4"	1 5/8" / Ø 3 3/4"	6 1/2"	464°F	0-45 min.



WARNING: Do NOT operate an induction heater if you wear a heart pace-maker. The strong magnetic field emitted by the heater may affect operation of such devices.

*Bearings not included

Induction bearing heaters

Digital temperature control



Fast action, portable digital temperature control, certified SVH5223

Features swivel arm for faster change ups. Vertical or horizontal heating. Includes cross bars standard: 3/16", 1 3/16", 2 3/8". Approx. weight: 112 lbs. 120V (15 amp), and 230V (16 amp) available.

	Max. weight ± lb bearings	Min. ID Ø	Max. OD Ø	Max. width B	Max. horizontal heating width C	Cross section poles D	Pole height	Temperature control max reach	Time control max reach
SVH5223	330 lbs	5/8" / Ø4 3/4"	20 1/2"	7 7/8"	9"	2 3/8" / Ø4 1/2"	9"	464°F	0-45 min.
SVH5223 230	330 lbs	5/8" / Ø4 3/4"	20 1/2"	7 7/8"	9"	2 3/8" / Ø4 1/2"	9"	464°F	0-45 min.



*Bearings not included

Medium duty digital temperature control, certified, SV5020

Fast, vertical heating of bearings. Includes cross bars: 1 3/16" and 2 3/4". 500V (16 amp).

	Max. weight ± lb bearings	Min. ID Ø	Max. OD Ø	Max. width B	Max. horizontal heating width C	Cross section poles D	Pole height	Temperature control max reach	Time control max reach	Approx. weight without cross bars
SV5020	330 lbs	1 3/16" / Ø4 1/4"	1 31/32" / 27 61/64"	7 7/8"	7"	2 3/4"	8 1/4"	464°F	0-60 min.	117 lbs.



*Bearings not included

Medium duty digital temperature control, certified, SVH7931

Fast, horizontal heating of bearings. Includes one 3 1/8" cross bar. 500V (16 amp).

	Max. weight ± lb bearings	Min. ID Ø	Max. OD Ø	Max. width B	Max. horizontal heating width C	Cross section poles D	Pole height	Temperature control max reach	Time control max reach	Approx. weight without cross bars
SVH7931	770 lbs	1 3/16" / Ø6 1/4"	31 7/64"	12 1/2"	11"	6 1/4"	12 1/2"	404°F	0-60 min.	275 lbs
SVH7931M	770 lbs	1 3/16" / Ø6 1/4"	31 7/64"	12 1/2"	11"	6 1/4"	12 1/2"	404°F	0-60 min.	396 lbs



SVH7931M

*Bearings not included

Magnetic Temperature Probe

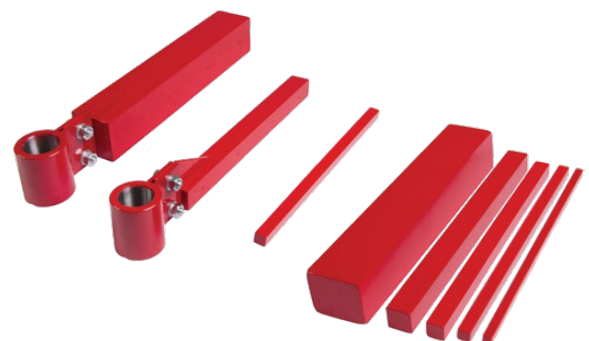
Connects to bearing heater. Attaches to inner race of bearing. Up to 350°F (240°C).

	Fits model	Approx. Weight
MP-PV/PVH/SVH	PV/PVH/SVH	0.13 lbs



Cross bars for bearing heater models SVH, PV and PVH

	Fits model	Size	Approx. Weight
SVH 9/16	SVH5223	9/16" x 3/16" x 14"	1.10 lbs.
SVH 1 3/16	SVH5223/SV5020	1 3/16" x 1 3/16" x 14"	7.28 lbs.
SVH 2 3/8	SVH5223	2 3/8" x 2 3/8" x 14"	22.93 lbs.
SVH 2 3/4	SV5020	2 3/4" x 2 3/4" x 14"	27.00 lbs.
SVH 3 1/8	SVH7931	3 1/8" x 3 1/8" x 20"	55.50 lbs.
PV 1/4	PV2412	1/4" x 1/4" x 7 7/8"	0.15 lbs.
PV 3/8	PV2412	3/8" x 3/8" x 7 7/8"	0.31 lbs.
PV 9/16	PV2412	9/16" x 9/16" x 7 7/8"	0.64 lbs.
PV 13/16	PV2412	13/16" x 13/16" x 7 7/8"	1.32 lbs.
PV 1 9/16	PV2412	1 9/16" x 1 9/16" x 7 7/8"	5.22 lbs.
PVH 1/4	PVH3813	1/4" x 1/4" x 9 1/2"	0.20 lbs.
PVH 3/8	PVH3813	3/8" x 3/8" x 9 1/2"	0.40 lbs.
PVH 9/16	PVH3813	9/16" x 9/16" x 9 1/2"	0.77 lbs.
PVH 13/16	PVH3813	13/16" x 13/16" x 9 1/2"	1.61 lbs.
PVH 1 9/16	PVH3813	1 9/16" x 1 9/16" x 9 1/2"	7.21 lbs.



Induction bearing heaters



SC, BC series heaters & accessories

Proper bearing installation is essential to safeguard maximum bearing life. Bearing failures can be attributed to improper installation and mounting errors. A bearing a few thousandths of an inch out of alignment can cut its lifespan in half. By heating the inner race to ~250°F prior to installation, the bearing expands and slides easily onto the shaft. Magnetic induction is a safe & efficient method of generating heat to expand bearings for installation. No open flame or hot oil. Magnetic induction heats bearings evenly and quicker than hot plates.

Our Induction Bearing Heaters are single phase 60 hz units. 50 hz versions available as special request.

1 Proven Tools

Tried & true models are simple, durable and get the job done!

2 Easy to Use

SC, BC and BCS models include On/Off switch; SC110D features a digital time/temperature display and magnetic probe.

3 Relevant Accessories

120 V/15A, 60/60 Hz units have optional raising block, cross bars and a pyrometer/thermometer to make jobs easier.



*Cross bars not included

Induction bearing heater SC110V (120V or 220V)

Bearing capacity: 4" x 11" O.D. (14"OD with optional raising blocks).

	Voltage	Standard Cross Bars	Optional Cross Bars	Approx. Weight
SC 110V	120V (17 amp)	¾, 2	1 ¼	49.60 lbs
SC 220V	240V (11 amp)	¾, 2	1 ¼	52.00 lbs



SC 110V Bearings not included



Accessories not included

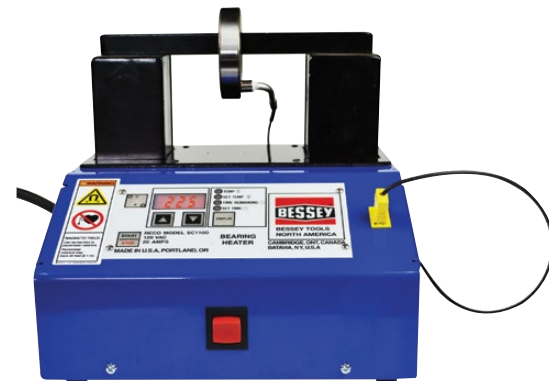
Digital Temperature Control, induction bearing heater SC 110D (120V or 220V)

Bearing capacity: 4" x 11" O.D. (14"OD with optional raising blocks). Computer chip monitors and stabilizes temperature. Display panel (pre-set times, temperatures) and auto shut off.

	Voltage	Standard Cross Bars	Optional Cross Bars	Approx. Weight
SC 110D	120V (20 amp)	¾, 2	1 ¼	53.50 lbs



SC 110D Bearings not included



Bearings not included

Induction bearing heaters

SC, BC series heaters & accessories



Induction bearing heater BC (240V, or 480V, or 600V)

Bearing capacity: 7 1/2" x 22" O.D. (32"OD with optional raising blocks).

	Voltage	Standard Cross Bars	Optional Cross Bars	Approx. Weight
BC 220V	240V (30 amp)	1 1/4, 3	1, 2	176.00 lbs
BC 440V	480V (20 amp)	1 1/4, 3	3/4, 1, 2	176.00 lbs
BC 550V	600V (15 amp)	1 1/4, 3	3/4, 1, 2	176.00 lbs



BC 220V Bearings not included

Model BC Special (240V, or 480V or 600V)

Bearing capacity: 11 1/2" x 22" O.D. (32"OD with optional raising blocks).

	Voltage	Standard Cross Bars	Optional Cross Bars	Approx. Weight
BCS 220	240V (30 amp)	1 1/4, 3	1, 2	199.00 lbs
BCS 440	480V (20 amp)	1 1/4, 3	1, 2	199.00 lbs
BCS 550	600V (15 amp)	1 1/4, 3	1, 2	199.00 lbs



BCS 550V Bearings not included

Raising blocks for SC, BC, BCS models

Increases the maximum size of bearing that can be heated.

	Fits model	Height	Width	Approx. Weight
SCRB	SC	2 3/8"	2 3/8"	7.50 lbs.
BCRB	BC, BCS	5"	3 3/8"	31.00 lbs.



Pyrometer/Thermometer

Multi-purpose measuring device for bearings, gears, etc. Digital readout from -200°C (-328°F) to +1372°C (+1999°F). Probe max rated for 650°C (1200°F).

		Approx. Weight
HH11C	Pyrometer/Thermometer with probe & flex cord	2.00



Cross bars for SC, BC, BCS bearing heater models

	Fits model #		Fits model #
SC 3/4	SC	BCS 1⁽¹⁾	BC Special
SC 1 1/4⁽¹⁾	SC	BCS 1 1/4	BC Special
SC 2	SC	BCS 2⁽¹⁾	BC Special
BC 3/4⁽¹⁾⁽²⁾	BC	BCS 3	BC Special
BC 1⁽¹⁾	BC	SC on/off	On/Off switch for SC
BC 1 1/4	BC	BC on/off	On/Off switch for BC
BC 2⁽¹⁾	BC		
BC 3	BC		

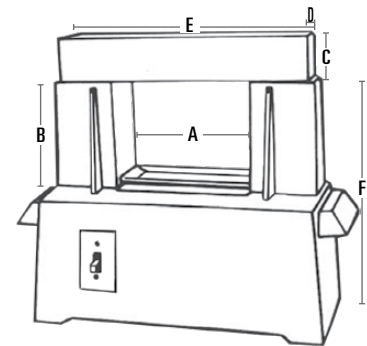


⁽¹⁾ Special order only. ⁽²⁾ WARNING: Do NOT use with model BC 220V



Model BCS

*Accessories not included



	A	B	C	D	E	F
SC	4 3/4"	3 3/8"	3/4" - 2"	3/4"	9 1/4"	9"
BC	8"	7"	1 1/4" - 3"	1 1/4"	14 3/4"	16"
BCS	12 1/4"	7"	1 1/4" - 3"	1 1/4"	18 3/4"	16"

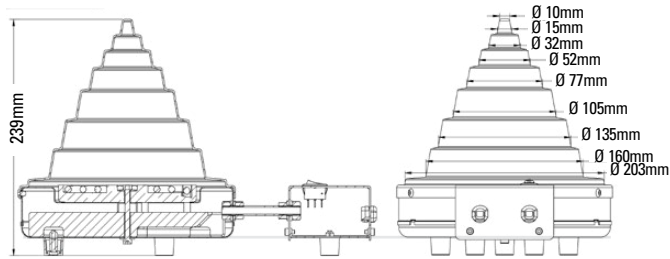
Cone bearing heaters & accessories



GCS-CB and GCS-NCB (non induction)

Heating a bearing expands it for precise placement and alignment on the shaft without damage. Pressing (driving) a cold bearing onto a shaft can cause it to misalign – as little as a 0.001" difference can reduce a bearing's lifespan by 50%.

Bearing heaters generate clean, even heat for precision placement, resulting in extended bearing life. Heating alternatives such as hot oil baths and torches are messy and dangerous. Torches and element tops create uneven heat and expansion and cause hot spots that can change the metallurgical properties of the bearing steel.



Cone style bearing heaters (non-induction)

Flexible manufacturing repairs for press-fit applications. Lower cost than larger induction heaters. Lightweight and portable, easy to move around a shop or factory floor. No special wiring or set up, uses standard wall plugs 120 V / 15 A. Start and stop with a switch. One cone bearing heater fulfills a range of bearing sizes. Temperature preset on -CB versions, 250° F.

	Bearing I.D. Range	Voltage	Width	Height	Approx. Weight
GCS-NCB	3/8" - 8 1/4"	120V (15 amp)	8 5/8"	9 1/2"	6.00 lbs.
GCS-CB*	3/8" - 8 1/4"	120V (15 amp)	8 5/8"	9 1/2"	6.00 lbs.

*Comes with control box with probe attached.



Bearing Mounting Unit, BRG33

Safe, precise and quick mounting of bearings, bushings, sealing rings, etc. The bearing is supported on its inner and outer ring during installation. The clear size markings, and impact resistant collets (made of durable sheet material) minimize damage to, and extend the life of, expensive bearings. This mounting unit is specially designed for quick, accurate, damage free and safe mounting of bearings with bore dimensions of 10 to 50mm and O.D. 26 - 110mm.

	Set Includes	Approx. Weight
BRG33	33 rings; 3 impact sleeves (alu); dead-blow hammer & carrying case	10.60 lbs.

