

Koyo®

BEARING MOUNTING & REMOVAL TOOLS

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JTEKT
GROUP

Induction Heaters

Induction heating is a fast and controlled heating method to help facilitate shrink-fit mounting of bearings and other shaft-fitted components. It is a safe and environmentally friendly alternative to traditional heating methods such as ovens, oil baths, or blow torches. Koyo induction heaters ensure optimum control during the heating process, automatically regulating the most efficient use of power to provide balanced and fast heating.

- Correct mounting can lengthen the life span of bearings
- Automatic time or temperature control
- Components are automatically demagnetized at the end of the heating cycle
- Environmentally friendly: no smoke, fumes or oil waste
- ▶ Xtreme Series SXT models BH350 & BH520 provide faster heating and allows the component to be oriented horizontally or vertically



BH350SXT

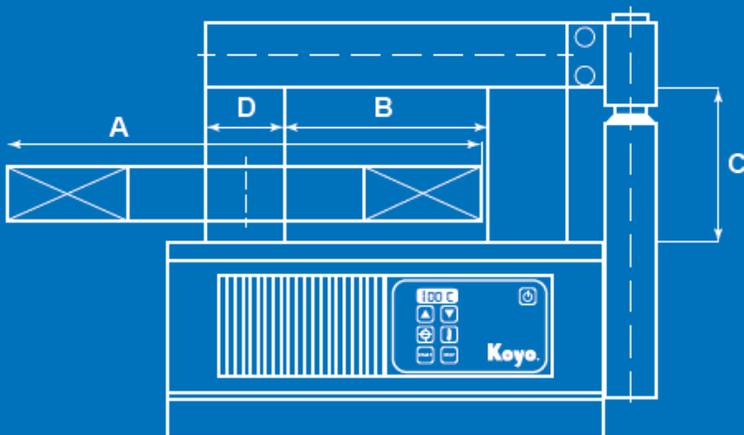
Type	BH240P	BH350SXT	BH520SXT
Capacity (Maximum)	1.8 kVA	1.8 kVA	1.8 kVA
Characteristics	Portable	Xtreme Series Portable	Xtreme Series Stationary
Voltage	120V 50/60 Hz	120V 50/60 Hz	120V 50/60 Hz
Pole Section (mm)	40	100	115
Maximum Bearing Diameter OD (mm)	240	380	520
Maximum Weight (+/-)			
Bearing	15 kg	50 kg	65 kg
Other Parts	10 kg	30 kg	50 kg
Temperature Control			
Max Reach	150° C	240° C	240° C
Magnetic Probe	Yes	Yes	Yes
Digital Display	Yes	Yes	Yes
Time Control			
Max Reach	0-30 min	0-45 min	0-45 min
Digital Display	Yes	Yes	Yes
Sound Signal	Yes	Yes	Yes
Error Report	Yes	Yes	Yes
Temperature Hold	Yes	Yes	Yes
Auto Demagnetizing	Yes	Yes	Yes
Automatic Power Reduction	Yes	Yes	Yes
Thermal Safety Guard	Yes	Yes	Yes
Dimensions (mm)	460x240x280	600x220x275	440x370x420
Mass Heater Body	21 kg (incl. yokes)	23 kg (incl. yokes)	37 kg
Available Yokes (mm)	7, 10, 14, 20, 40	7, 10, 14, 20, 40	10, 14, 20, 30, 60



BH240P



BH520SXT



Type	BH240P	BH350SXT	BH520SXT	
Max OD (mm)	A	240	380	520
Max width (mm)	B	120	135	200
Max width - horizontal heating (mm)	C	-	135	230
Cross section poles (mm)	D	40	100	120

Heating times are subject to the relationship between:

- Minimum bore & maximum outside diameter, width & weight
- Required temperature and material type
- Available power

Mounting Tool Kits



BMT39

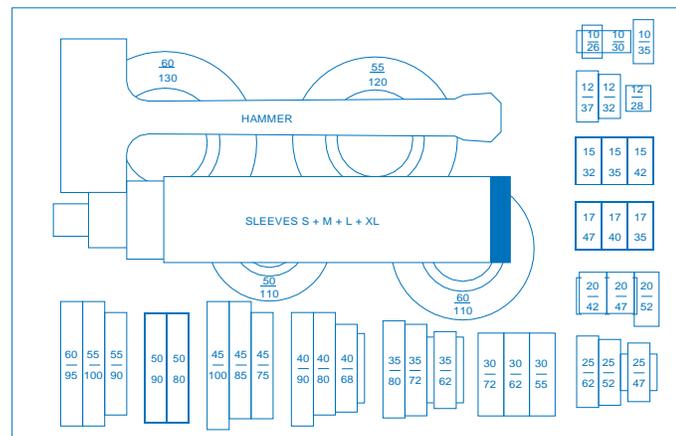
Practical mechanical mounting set for safe, precise and quick mounting of bearings, bushings, sealing rings, cam wheels and pulleys. The set consists of a dead-blow hammer, 3 aluminum sleeves and a set of 39 plastic collets (rings).

The impact resistant plastic collets support the inner and outer rings when mounting, preventing metal to metal contact and possible damage to the bearing rings and shaft.

- Safe, precise, and fast mounting
- Prevents metal to metal contact
- For bearings with bore diameters of 10 - 60mm

Koyo® 39

IMPACT FITTING TOOL SET



All ISO bearing codes ending with	Example	Impact Sleeve				Impact Ring
		Small	Medium	Large	Extra Large	
000	6000	S				10-26
200	2200	S				10-30
300	7300	S				10-35
001	6001	S				12-28
201	3201	S				12-32
301	7301	S				12-37
002	6002	S				15-32
202	2202	S				15-35
302	3302	S				15-42
003	16003	S				17-35
203	7203	S				17-40
303	2303	S				17-47
403	6403		M			20-52
004	7004		M			20-42
204	3204		M			20-47
304	2304		M			20-52
404	6404		M			25-62
005	7005		M			25-47
205	22205		M			25-52
305	3305		M			25-62
405	6405		M			30-72
006	6006		M			30-55
206	NU 206		M			30-62
306	7306		M			30-72
406	6406			L		35-80
007	7007			L		35-62
207	22207			L		35-72
307	1307			L		35-80
407	NJ 407			L		40-90
008	6008			L		40-68
208	2208			L		40-80
308	7308			L		40-90
408	6408			L		45-100
009	7009			L		45-75
209	6209			L		45-85
309	N 309			L		45-100
409	6409			L		50-110
010	6010			L		50-80
210	2210			L		50-90
310	21310			L		50-110
011	6011				XL	55-90
211	20211				XL	55-100
311	3211				XL	55-120
012	6012				XL	60-95
212	20212				XL	60-110
312	3215				XL	60-130



Select the correct collet size and sleeve using the chart above. The bearing must be at a right angle to the shaft. In addition, the shaft should be slightly lubricated.

Apply mounting force to the bearing by placing the fitting tool impact ring and sleeve against the bearing or component and use the hammer (or a press) to advance the bearing to its proper location on the shaft or in the housing.

Do not apply a sleeve to the outer raceway when mounting on a shaft, or to the inner raceway when mounting into a housing.

NEVER mount a bearing by striking it directly with a hammer

Bearing Pullers

Koyo's self centering bearing pullers provide a safe and easy way to remove a wide variety of parts including bearings, bushings, wheels, gears, and pulleys.

These tools are recommended for all motor repair shops, service companies, maintenance shops, mining, paper mills, chemical plants, etc.

- ▶ The self centering design helps prevent damage to the shaft and work piece being pulled.
- ▶ The arms adjust themselves simultaneously, either inwards or outwards.
- ▶ The self-locking system guarantees the arms neither bend nor deflect.



Koyo Hydraulic Bearing Pullers				
Part Number	Capacity (tons)	Maximum Shaft Length (mm)	Maximum Spread (mm)	Unit Weight (kg)
KHP4	4	190	325	8.0
KHP8	8	280	450	12.0



Koyo Mechanical Bearing Pullers				
Part Number	Capacity (tons)	Maximum Shaft Length (mm)	Maximum Spread (mm)	Unit Weight (kg)
KMP2	2	80	120	1.6
KMP3	3	120	180	2.3
KMP5	5	160	270	4.3

Koyo®

Koyo Middle East FZCO

Tel: +9714 2993600

Fax: +9714 2993700

www.koyo.ae