

BEARING INDUCTION HEATER

The best way to **avoid unwanted stresses** when assembling interference-fit parts is to heat the outer part just enough to produce a temporary clearance. Induction heaters allow this to be done precisely, quickly and efficiently.

Bearings having an **ID > 50 mm** must be hot mounted as the interference between the shaft and the bearings is more. Cold mounting or use of methods such as open flame, oil bath or hot oven must be avoided as they are inefficient, less controlled and do more harm than good to the bearings.

Induction Heater is an excellent method for heating and **installing rolling bearings** and ring-shaped metal parts such as **gearwheels, sprockets, sleeves**, etc with both speed and care.



Features:

- ▶ Automatic Demagnetisation
- ▶ Compact & Light Weight
- ▶ Thermal Overheating Protection
- ▶ Can Be Operated in Time Mode or Temperature Mode
- ▶ Intelligent Micro-Controller Based Electronics
- ▶ Four Step Power Setting

Technical Data Sheet:

PRODUCT DATA	NIH-2001	NIH-2002	NIH-2003	NIH-2004
Bearing Range (mm)	20 ID to 400 OD	20 ID to 750 OD	30 ID to 900 OD	60 ID to 1000 OD
Max. Workpiece Weight	105 kg	200 kg	350 kg	700 kg
Power	4 KVA	8 KVA	12 KVA	25 KVA
Voltage	230V	440V	440V	440V
Power Control	25%, 50%,	25%, 50%,	25%, 50%,	25%, 50%,
	75%, 100%	75%, 100%	75%, 100%	75%, 100%
Temperature Control Range	0 -250°C	0 -250°C	0 -250°C	0 -250°C
Maximum Temperature	450°C	450°C	450°C	450°C
Temperature Accuracy	± 3°C	± 3°C	±3°C	±3°C
Time Control Range	0-99 Minutes	0-99 Minutes	0-99 Minutes	0-99 Minutes
Residual Magnetism	<2 A/cm	<2 A/cm	<2 A/cm	<2 A/cm
Overall dimensions (WxDxH) (mm)	300x260x250	690x265x360	750x400x570	850x450x600
Space between supports (WxH) (mm)	140x165	250x240	350x450	410x500
Weight (Main Unit)	25 kg	45 kg	85 kg	150 Kg
Weight (Incl. Yokes)	30 kg	55 kg	100 kg	195 kg
Horizontal Yoke Sizes (mm)	14x14x250	14x14x450	20x20x490	50x50x590
	30x30x250	46x46x450	60x60x490	75x75x590
	45x45x250	68x68x450	80x80x490	105x105x590
Magnetic Temperature Probe	✓	✓	✓	✓
Thermal Over Protection	✓	✓	✓	✓
Can Heat Sealed & Pre-Greased Bearings	✓	✓	✓	✓
Roll Sliding Arrangement	✓	✓	✓	✓
Swing Arm Arrangement	✓	✓	✓	✓
Riser Block (Pair)	✓	✓	✓	✓
Optional Accessories				
Horizontal Yoke Sizes (mm)	10x10x250	20x20x450	30x30x490	60x60x590
	20x20x250	30x30x450	40x40x490	70x70x590
	40x40x250	40x40x450	50x50x490	80x80x590
	55x55x250	50x50x450	70x70x490	90x90x590

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