

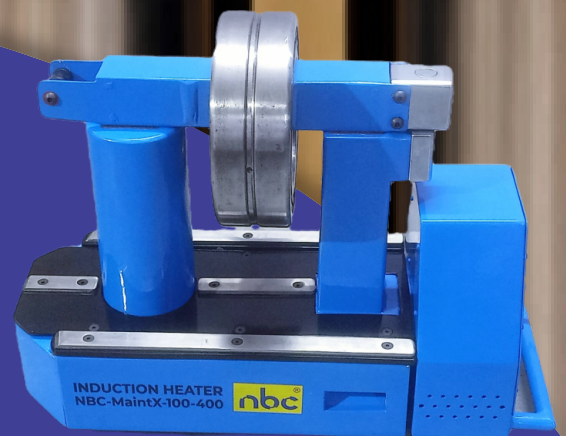


CKA Birla Group |



NBC-MaintX Induction Heaters

Advanced Solutions for Bearing
Mounting & Dismounting





At NBC Bearings, we understand that precision and reliability begin at installation. It's a fact, around 16% of premature bearing failures occur due to incorrect mounting practices.

To help our customers eliminate these challenges, NBC introduces the NBC-MaintX Induction Heater Series, engineered for efficient, safe, and controlled heating of bearings and machine components. Our heaters ensure consistent performance, reduced downtime, and extended bearing life across industries.

Key Features

- Automatic Demagnetization ensures bearings are magnet free after heating
- Microcontroller-Based Controls are designed for smart monitoring of time and temperature
- Compact & Portable Design is ideal for shop floor and field maintenance
- Four-Step Power Control (25%-100%) ensures efficient energy use with precise adjustment
- Thermal Overload Protection safeguards against overheating
- Compatible with Sealed & Pre-Greased Bearings maintains grease integrity
- Roll-Sliding & Swing Arm Options simplifies handling of heavy bearings
- Digital Thermometer with Magnetic Probe measures accurate temperature feedback up to 500°C

Models

- NBC-MaintX 50-300
- NBC-MaintX 100-400
- NBC-MaintX 150-500
- NBC-MaintX 300-650

Powered by

Intelligent Microcontroller-Based Controls

Product Overview

The NBC-MaintX Induction Heater Series is built for industrial reliability, portability, and user-friendly operation. Each model combines advanced electronics with robust construction, delivering controlled, uniform heating for bearings, gears, couplings, and other precision components.

Why Choose Induction Heating?

Traditional heating methods like open flames, oil baths, and ovens still find occasional use, but they carry significant risks and limitations:



Open Flames

Poor temperature control and inconsistent heating

High risk of overheating and bearing damage

Unsafe and inefficient for industrial applications

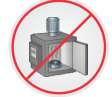


Oil Baths

Slow heating with poor temperature uniformity

Risk of contamination from dirty oil

High energy consumption & unsafe manual handling



Ovens/Hot Plates

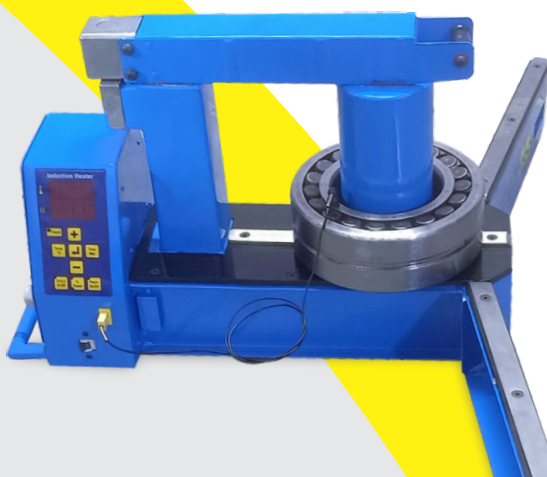
Suitable only for small components

Inefficient and time-consuming for large bearings

Difficult and unsafe handling of hot parts

Product Range & Technical Specifications

Parameter	NBC-MaintX 50-300	NBC-MaintX 100-400	NBC-MaintX 150-500	NBC-MaintX 300-650
Bearing Diameter Range (mm)	20-300	20-400	20-500	60-650
Max Bearing Weight (kg)	50	100	150	300
Power Rating (KVA)	2.0 / 2.6	3.6 / 4.6	4.6 / 6.0	10.5 / 11.0
Voltage	230 V	230 V / 440 V	230 V / 440 V	440V
Power Control	25%, 50%, 75%, 100%	25%, 50%, 75%, 100%	25%, 50%, 75%, 100%	25%, 50%, 75%, 100%
Temperature Range (°C)	0-250	0-250	0-250	0-250
Max Temperature (°C)	400	400	400	400
Temperature Accuracy (°C)	±3	±3	±3	±3
Time Control	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
Dimensions (WxDxH mm)	300x260x250	690x265x360	690x265x390	850x330x450
Space B/w Supports (mm)	100x130	160x215	200x245	255x255
Weight (Main Unit)	19 kg	42 kg	54 kg	75 kg
Weight with Yokes	22 kg	52 kg	68 kg	90 kg
Standard Yoke Sizes (mm)	14x14x220, 20x20x220, 45x45x220	28x28x300, 56x56x300, 14x14x300	28x28x350, 60x60x350, 14x14x350	40x40x450, 70x70x450
Optional Yoke Sizes (mm)	10-40 mm square, 220 mm long	20-50 mm square, 300 mm long	20-60 mm square, 350 mm long	30-60 mm square, 450 mm long
Can Heat Sealed Bearings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Thermal Over Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital TM (0-500°C)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Roll Sliding Arrangement	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Swing Arm Arrangement	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Riser Block (Pair)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Magnetic Temperature Probe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

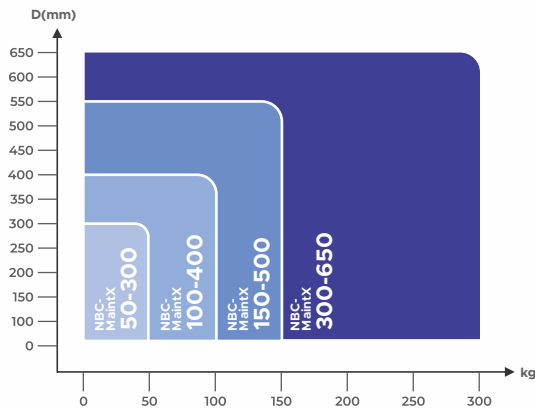


Experience Precision with NBC

NBC-MaintX Induction Heaters redefine efficiency in bearing installation, helping industries save time, reduce energy costs, and ensure the longevity of rotating equipment.

Precision Starts Here: NBC-MaintX for Safer, Smarter Installation

NBC-MaintX Model Fit Guide



Model	Bearing Range	Max Weight	Best Fit
50-300	20-300 D(mm)	50 kg	Retail / Field Maintenance - portable, compact
100-400	20-400 D(mm)	100 kg	General Industry - automotive, textile, mid-size machinery
150-500	20-500 D(mm)	150 kg	Heavy Maintenance - railway depots, industrial plants
300-650	60-650 D(mm)	300 kg	Heavy Industry - steel mills, large gears, heavy-duty overhauls

Customer Benefits

Energy Savings

Four-step power control reduces consumption

Grease Integrity

Safe heating for sealed/pre-greased bearings

Reduced Downtime

Faster, safer installation extends equipment life

Reliability Accurate

temperature monitoring prevents failures

Applications

- Bearing Mounting
- Railway & Automotive Assembly Lines
- Industrial Maintenance Workshops
- Gears, Couplings & Bushes
- Heavy Machinery Overhauling

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