



SOLUTION FOR BEARING  
MOUNTING & DISMOUNTING

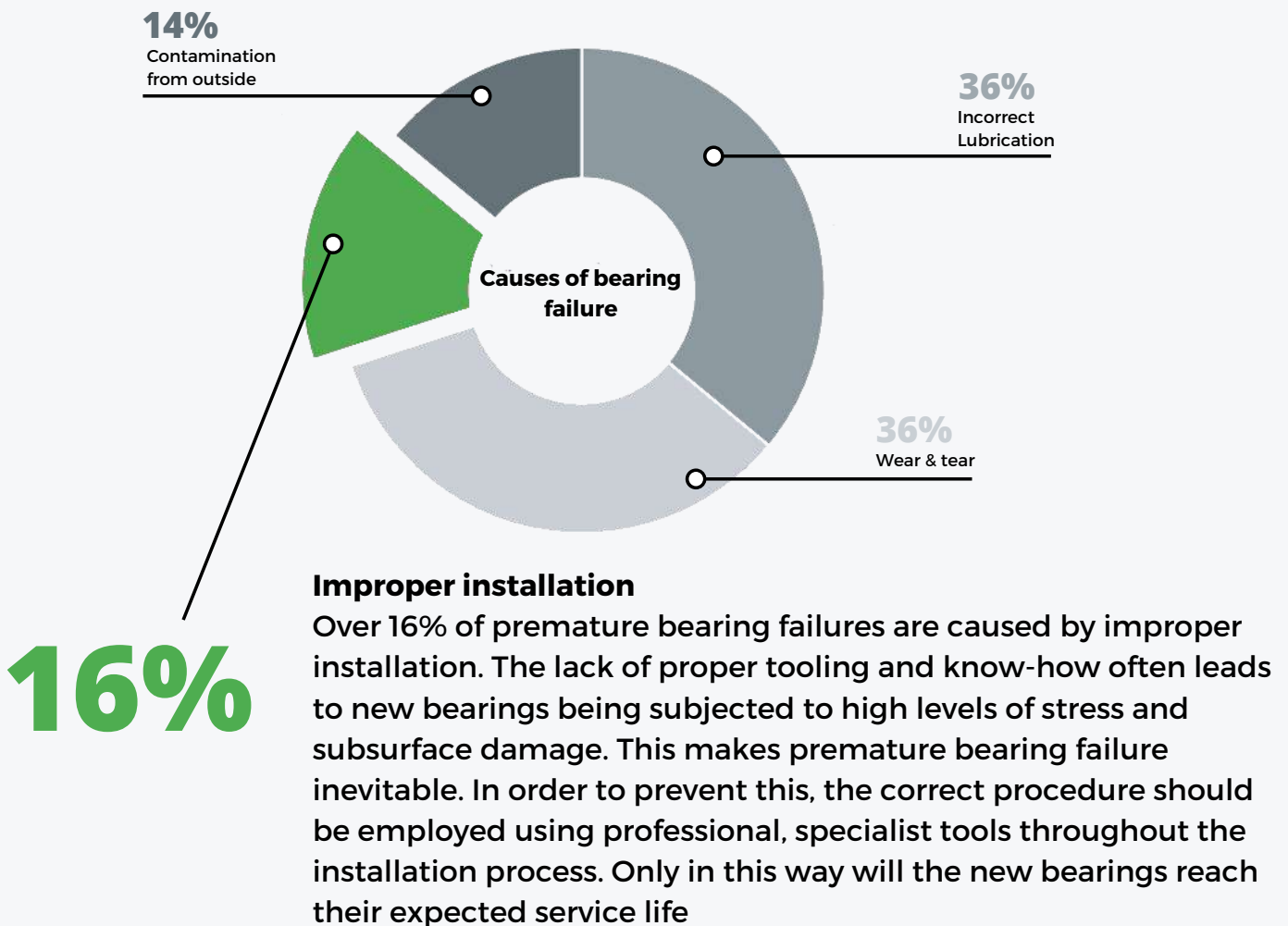
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# INDUCTION HEATER

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# PREVENT PREMATURE BEARING FAILURE

Over 60% of premature bearing failures are preventable. ROKADE Group supplies unique hardware solutions for the careful installation/removal, automatic lubrication, and contamination protection of rolling bearings.



## Advantages

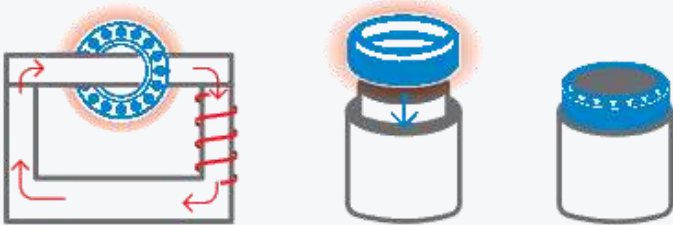
- Precise, even, quick heating
- There is no risk of damage (from excessive mechanical stress, open flames, dirty oil baths, excessively hot ovens and plates)
- Automatic demagnetisation
- User friendly
- Increased operational safety
- Selectable power reduction for heating up smaller parts

# PERFECT SOLUTION FOR CLEAN, EFFICIENT INSTALLATION OF ROLLING BEARINGS

With ROKADE induction Heaters, rolling bearings and other ring-shaped metal parts can be heated in a highly efficient manner. They allow quick, clean installation and replace conventional heating methods such as heating plates, hot oil baths, open flames and ovens. During the heating process, only the workpiece is heated while the device itself remains cool. simatherm induction heaters can be used for workpieces weighing up to 1200kg.

## Heating with induction

The heating of rolling bearings and ring-shaped metal parts by induction has proved to be an excellent method for installing these parts with both speed and care. An alternating electro-magnetic field induces a high current directly in the workpiece and raises this precisely to the prescribed installation temperature in a controlled manner



Induction Heater



Open flames



Oil baths



Ovens

# THE PROPER INSTALLATION AND REMOVAL OF ROLLING BEARINGS

## Where induction heaters are used

- Vehicle industry, cars and trucks
- Gear box manufacture
- Manufacture of electric motors
- Manufacturer of pumps
- General engineering
- Maintenance and repair workshops

## Typical applications

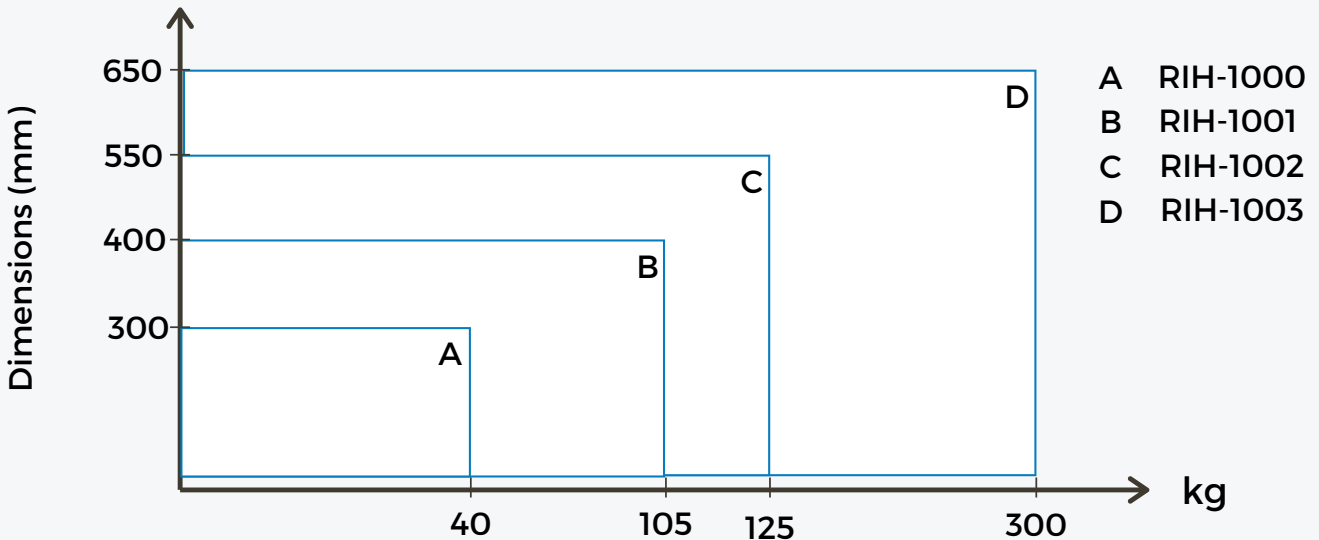
- Bearings
- Gearwheels
- Sprockets
- Compression rings
- Labyrinth rings
- Sleeves
- Joints

## Features

- Automatic Demagnetization
- Compact Design
- Light Weight
- Intelligent Micro-Controller Based Electronic Controls

## Selection table for ROKADE induction heaters

When choosing the ROKADE heater to suit your needs, everything essentially depends on the dimensions and weight of the workpieces:



# TECHNICAL DATA

PRODUCT DATA	RIH-1000	RIH-1001	RIH-1002	RIH-1003
<b>HEATED PART</b>				
Min inner diameter, mm	20	20	20	60
Max outer diameter, mm	300	400	550	650
Width, mm	220	300	350	450
Bearing Weight	40 kg	105 kg	125 kg	300 kg
<b>YOKE PART</b>				
Horizontal yoke sizes (mm)	14 x 14 x 220	56 x 56 x 300	60 x 60 x 350	70 x 70 x 450
	20 x 20 x 220	28 x 28 x 300	28 x 28 x 350	40 x 40 x 450
	45 x 45 x 220	14 x 14 x 300	14 x 14 x 350	-----
<b>ELECTRICAL SYSTEM</b>				
Power	2.0 / 2.6 KVA	3.6 / 4.6 KVA	4.6 / 6.0 KVA	10.5 / 11 KVA
Voltage	230V	230 / 440V	230 / 440V	440V
Power control	25%, 50%, 75% & 100%	25%, 50%, 75% & 100%	25%, 50%, 75% & 100%	25%, 50%, 75% & 100%
<b>CONTROL PANEL</b>				
Temperature control	0 - 250°C	0 - 250°C	0 - 250°C	0 - 250°C
Maximum temperature	400C	400C	400C	400C
Accuracy temperaure	±3° C	±3° C	±3° C	±3° C
Time - control	0 - 99 Minutes	0 - 99 Minutes	0 - 99 Minutes	0 - 99 Minutes
<b>DIMENSIONS</b>				
Overall dimensions (WxDxH (mm))	300 x 260 x 250	690 x 265 x 360	690 x 265 x 390	850 x 330 x 450
Space between supports (WxH (mm))	100 x 130	160 x 215	200 x 245	255 x 255
Weight (Main Unit)	19 kg	42 kg	54 kg	75 kg
Weight with standard yokes	22 kg	52 kg	68 kg	90 kg
Can heat sealed & Pre-greased bearings	✓	✓	✓	✓
Thermal over protection	✓	✓	✓	✓
<b>OPTIONAL ACCESSORIES</b>				
Horizontal yoke sizes (mm)	10 x 10 x 220	20 x 20 x 300	20 x 20 x 350	30 x 30 x 450
	18 x 18 x 220	30 x 30 x 300	30 x30x 350	40 x 40 x 450
	30 x 30 x 220	40 x 40 x 300	40 x 40 x 350	50 x 50 x 450
	40 x 40 x 220	50 x 50 x 300	50 x 50 x 350	60 x 60 x 450
Digital thermometer (0 - 5000C)	✓	✓	✓	✓
Roll - Sliding mode	-----	✓	✓	✓
Swing arm model	-----	✓	✓	✓
Riser block (Pair) (mm)	-----	✓	✓	✓
Magnetic temperature probe	✓	✓	✓	✓



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