

INDUCTION HEATING PROCEDURE

BEARING MOUNTING



LUDECA

Bearing Removal



Safety:

Follow procedures and use Personal Protective Equipment (PPE).



Clean-up: Remove grease, nicks and burrs from shaft.



Use proper tool for safe removal (preferably mechanical puller or press).



Remove bearing.



Root Cause Analysis: Determine cause of wear or failure.



Properly dispose of bearing.

1

Pre-Installation Checks



Safety:

Follow procedures and use PPE.



Clean-up: Remove grease, nicks and burrs from shaft.



Select and verify that bearing is the exact replacement through measurements or part number.



Measure twice for proper interference fit between bearing and shaft.

2

Bearing Preparation



Do not remove factory lubricant unless indicated by manufacturer.



Verify again that shaft and bearing are clean.

Cleanliness is a reliability imperative.



Choose the largest crossbar that will fit through bearing inner diameter.

3

Heating The Bearing



Select location for induction heater near the asset where bearing will be mounted.



Choose and set the heating method (temperature- or time-based).

Do not exceed 250°F.



Place bearing either on crossbar or vertical post.



Place 1st temperature probe on bearing inner ring. If available, place 2nd temperature probe on outer ring.



Start heating cycle.



Once target temperature or time is reached, ensure the bearing is demagnetized.

4

Bearing Mounting and Documentation



Use heat resistant gloves.

Use appropriate lifting equipment to quickly and safely remove bearing from the induction heater.



Transport bearing to the shaft.

Avoid spinning the bearing.



Slide heated bearing onto shaft by applying even force to bearing inner ring until desired installation position is reached.



Generate report of heating cycle, if your heater allows for it.