

# GEARBOX RE-FURBISHMENT



INDUSTRIAL GEAR REPAIR COST SAVING SOLUTION

## WHY RE-FURBISHMENT?

- ✓ Cost saving solutions by reducing total cost of gearbox ownership
- ✓ Increasing service factors to maximize availability of gearbox with highest reliability.
- ✓ Cheaper gear components compare to existing brand.
- ✓ Faster delivery of components.



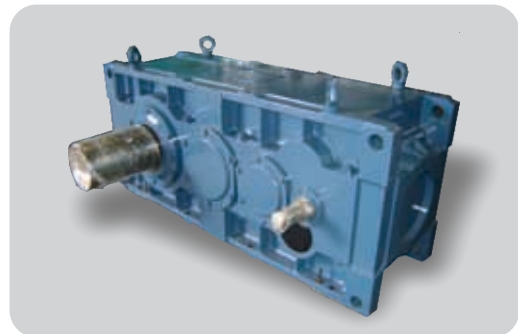
As received...



After Refurbishment



As received...



After Refurbishment



As received...



After Refurbishment



Onsite inspection



Geared coupling removal



Work in progress



## RE-FURBISHMENT FACILITY:

We are equipped with the following key machinery to keep your gearbox on track for a long and problem free future:

- |  |   |
|--|---|
| ✓ Strip, inspection and assembly areas   | ✓ Enclosed machine shop                   |
| ✓ State of the art spray booth           | ✓ 1T parts turbo washer / Indoor wash bay |
| ✓ 100T coupling puller                   | ✓ Bearing heaters                         |
| ✓ 20T & 5T overhead crane                | ✓ Hydraulic presses                       |
| ✓ Warehouse storage                      | ✓ Horizontal & Vertical borer             |
| ✓ CNC lathe machines                     | ✓ CNC hobbing machines                    |
| ✓ Case carburizing & Nitriding treatment | ✓ Full in-house manufacturing             |
| ✓ Fluorescent magnetic particle test     | ✓ Load testing and No load testing        |



Finish Gear Components



Workshop - Inside View





Assembly of Re-Furbished Gearbox



Test Bed



Gear Profile Measurement Machine



Co-ordinate Measurement Machine

## GEARBOX OVERHAUL CAPABILITY

- ✓ Onsite inspection, service, failure analysis and root cause.
- ✓ Strategic spares management.
- ✓ Prompt and efficient service during breakdown or planned maintenance.
- ✓ Repair existing gearbox with quality material for rebuild or reconditioned unit and supply.
- ✓ We have a solid reputation for designing and manufacturing innovative new gearboxes.

## GEARBOX OVERHAUL EXPERIENCE

- ✓ We use over 50 years of gear engineering innovation to understand and solve your gearing problems.
- ✓ We add value by reducing the total cost of gearbox ownership.
- ✓ We deliver global expertise to give you rapid gearing support and services.
- ✓ We work in partnership with you to deliver enhanced gearing products and service.
- ✓ We have experience of critical application gearbox refurbishment and we can repair almost anything as well as remanufacture broken or pitted gears and shafts.

## REVERSE ENGINEERING CAPABILITY

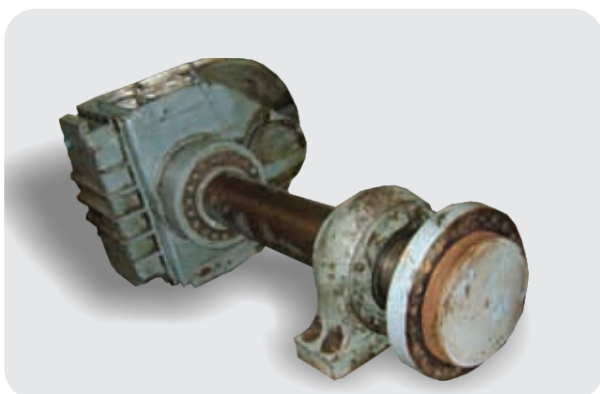
- ✓ On site gear measurement by dedicated trained service engineer.
- ✓ Chemical composition and hardness check of material.
- ✓ Profile measuring machine to check gear geometry parameters.
- ✓ Co-ordinate measuring machine to check gear case dimension.



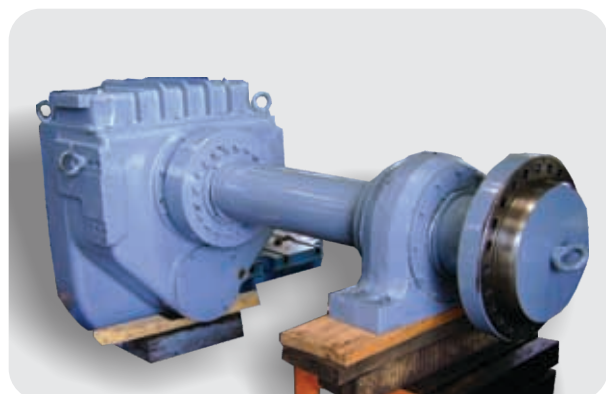
Servicing of gear box



Dismantling of output shaft



Before



After Refurbishment



## Already present, and adding...

UK, Indonesia, Malaysia, Philippines, Vietnam, Sri Lanka, Bangladesh, India, Thailand, China, Mongolia, Japan, Korea, Myanmar, Taiwan, Singapore, Australia. etc.... Year by year we are adding new countries in our business list.



If your gearbox is experiencing excess noise and vibration, or isn't performing as per your expectations, or you need an upgrade following a change in your process – Contact us anytime at [salesap@elecon.com](mailto:salesap@elecon.com) / [salesap@radicon.com](mailto:salesap@radicon.com)



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