

Features

- ✓ Introduced compressive residual stresses to enhance fatigue life
- ✓ Resistance to bending and higher radial load
- ✓ Improved surface texturing, helps lubricant retention

Benefits

- ✓ Higher operational reliability
- ✓ Higher performance and higher power density
- ✓ Improved lubricant effectiveness
- ✓ Low maintenance requirements

Application

- ✓ Transmission & differential
- ✓ Bearings used in coal crushers & industrial applications

CRS

(Controlled Compressive Residual Stress) Bearings

The proprietary special process enhances the fatigue life of the bearing in multiple times. The cold working process generates a beneficial compressive residual stress which prevents the crack generation and propagation. Our unique surface treatment induces high residual compressive stress compare to the conventional methods.

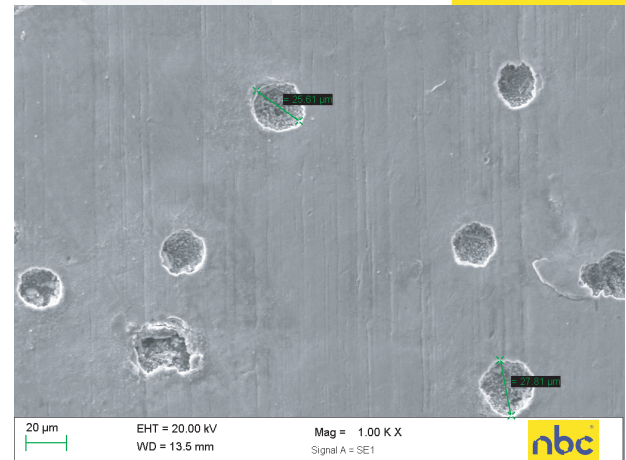
PINION BEARING

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Specifications

- ✓ Lower processing time
- ✓ Residual stress can be controlled as per requirement
- ✓ Depth of residual stress layer is more than 300 μm

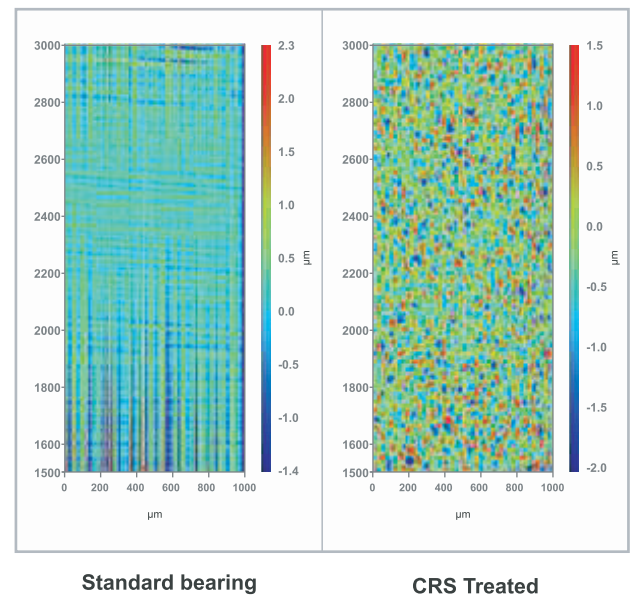


SEM images of raceway (CRS treated)

Technical Data



Increment (%) in residual compressive stress on the raceway



3D-Profile image of raceway (contains small cavity)



National Engineering Industries Ltd.

Khatipura Road, Jaipur, Rajasthan, INDIA - 302006 | Ph.: +91 141 2223221

Fax: 91 141 2222259 | Toll Free: 180030006222 | Email: neisales@nbcbearings.in

Website: www.nbcbearings.com © NEI 12.2020