

# **HCR Wear**

# **Resistance Bearings**

Wear resistance coating on rolling element helps to avoid metal to metal contact in dry and low lambda lubricated condition.

#### Features

- Optimized coating with metal-containing amorphous carbon coating with a multilamellar structure
- No columnar structure provides high adhesion strength
- Provides wear protection even in dry contact condition
- High dimensional accuracies

#### Benefits

- Higher operational reliability
- Low COF even in dry condition with steel
- Resistant to adhesive wear and micro pitting
- 🗹 Enhanced low lambda fatigue life
- Debris Tolerance removes dents created in the contaminated application

### Application

- High speed roller bearings for automotive application
- Industrial bearings (contaminated lubrication condition)

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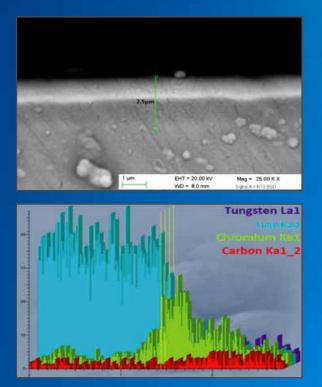




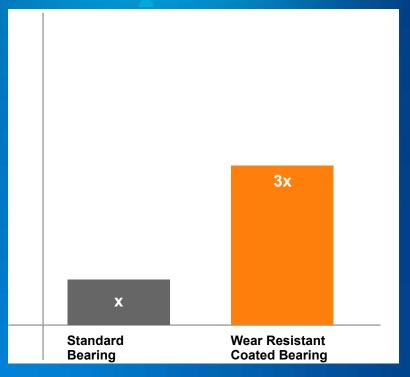
### Specifications

- Coating thickness of 1-2 μm
- ✓ Low coating temperature (<200 °C)
- $\checkmark$  High dimensional accuracy after coating
- High adhesion strength (HF1 to HF2 grade)
- Low COF and high wear resistance
- ✓ >3x improved in bearing endurance life test
- Can be applied to any kind of roller bearing

#### Technical Data



**SEM Coating Thickness** 



**Roller Bearing Endurance Test Comparison** 





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