

Fighting corrosion in the desert: SKF Cooper stainless steel housings



The problem

At an important Middle Eastern GTL (gas to liquid) plant, belt and scroll conveyor bearing housings made of cast iron needed replacing every few years because of severe corrosion. This was due to the highly corrosive nature of the wet salt cake carried by the conveyors, accelerated by the desert climate.

The solution

The original conveyor bearings were SKF Cooper split roller units which the plant operator strongly preferred to solid double-row spherical bearings because of significant maintenance cost savings. The operator asked SKF Cooper to find a solution to the unique corrosion

problem. SKF Cooper experts looked at several possible solutions and recommended bearing housings in stainless steel grade 304. Both the outer housings and the inner cartridges were then manufactured in this material, along with blanking plates and other exposed parts. The units supplied were as follows:

Pedestals

- 01 EBCP 50 mm EX/GR SRS BP
- 01 BCP 40 mm EX/GR SRS BP
- 01 EBCP 60 mm EX/GR SRS

Flanges

- 01 EBCDF 45 mm EX/GR SRS

Take-up units

- 01 EBCTP 50 GR SRS

Benefits

- Preservation of all split-bearing benefits (easier access and maintenance)
- Superior corrosion resistance, with structural strength maintained
- Increased housing lifetimes, leading to further dramatic maintenance cost reductions



SKF Cooper: unmatched stainless steel range and expertise

SKF Cooper has the widest range of stainless steel housings of any split-to-the-shaft roller bearings manufacturer. It includes all configurations (pillow-block, flange, hanger and take-up) and sizes. SKF Cooper also has the in-house expertise and resources to innovate customized solutions. Industries that benefit include energy, chemicals, mining, marine and food and beverages.

For more information, visit our website www.cooperbearings.com

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