



## Summary

<b>Industry:</b>	Food - Bakery & Cereals
<b>Application:</b>	Guide roller for cooker ovens
<b>Actual Saving:</b>	Superior Performance
<b>Payback Period:</b>	Ongoing



## NSK Molded Oil Bearings Reduce Maintenance

## ISSUE

ERIKS and NSK were asked to visit a food factory to discuss bearing replacement and recommendations to be used for a guide roller in a cooker oven on their ham manufacturing line.

The company currently use 6004 sealed bearings inserted into self-manufactured nylon rollers, these rollers are used to locate the oven doors. In addition to the 6004 bearings, they also use SUC208 and SUC210. All bearings are subject to fluid contamination by chilled brine water at -2c - 20C. The company are currently using a total of 96 bearings which are being replaced every 14 days, along with 16 inserts which are being replaced every 6 months.

## SOLUTION

Initial discussions suggested the company had already trialled NSK DDU bearings without success.

NSK offered a stainless steel molded oil variant as this would impede the ingress of the chilled brine into the bearing internals. In addition it was discussed moving to a 6204 size bearing which would give a higher load capacity - the modifications of the nylon rollers from 42mm to 47mm to suit the 6204 could be done quickly and easily onsite in their own machine shop.

The SSUC208 inserts in use can be replaced with molded oil types to prevent further ingress off the brine, in addition to the SSUC210 inserts should be replaced with the molded oil variant.

## OTHER BENEFITS

- Molded Oil bearings offer excellent performance in water and dust contaminated environments
- Grease free properties with no oil refilling keeps operating environments clean
- Achieve extended maintenance-free performance as Molded Oil bearings provide a continuous supply of lubricant

## FURTHER COMMENTS...

The bearings have proved to be a success, and have significantly reduced maintenance schedules.

## MORE INFORMATION

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