

# SKF Reliability Systems



## SKF bearings can stand the heat

At Alloy Wheels International (AWI), some 5,000 wheels pass through a heat treatment during each shift, keeping automotive production lines running at clients such as Jaguar, Land Rover and Volkswagen.

The six bearings at the front of the input conveyor proved to be a weak link in the process and had to be changed at the rate of two a week. Now, with SKF's latest high temperature Y-bearing unit installed, bearing failure is a thing of the past.

Previously, downtime caused by bearing failure amounted to more than half a shift a month. Furthermore, if the failure caused a conveyor roller to be damaged, another £1,000 could be added to the replacement bill.

Dave Strong, AWI's maintenance superintendent commented on the problem, *"The input conveyor bearings of the hardening oven had been breaking down for years and neither our original bearing supplier nor lubrication specialists could find a solution."*

SKF Technical consultancy staff were called in and advised that a new range of special high temperature Y-bearing

units had just been developed and arranged for some to be sent to AWI for evaluation trials.

The performance of the Y-bearings surpassed expectations, with Dave Strong delighted with the results. He said, *"Whilst the original bearings continued to fail, the SKF units just kept going. Now, all the conveyor rollers in that working zone are fitted with the new Y-bearing units and, nine months on, the first units we installed are still running."*

The housings of these high temperature units are manufactured from grey cast iron and are available in plummer block, oval and square flanged designs. They incorporate a spherical bearing seating to enable any initial alignment errors between shaft and housing to be accommodated. High efficiency seals protect the bearing even under the most extreme operating conditions, and each bearing is lubricated for life.

### Engineering solutions

Proactive Reliability  
Maintenance (PRM)

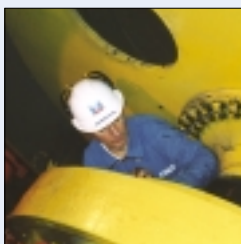
Integrated Maintenance  
Solutions (IMS)

Condition monitoring  
services

Maintenance services

Refurbishment services

Training courses



### ■ Proactive Reliability Maintenance (PRM)

- Proactive Reliability Maintenance™
- Fan reliability programme

### ■ Integrated Maintenance Solutions (IMS)

- Integrated Maintenance Solution™
- Integrated Maintenance Solutions for the paper industry

### ■ Condition monitoring services

- On-site condition monitoring services
- CoMo-Link remote diagnostics
- Lubrication analysis service
- Keeping the power flowing

### ■ Maintenance services

- Precision mechanical services
- Bearing installation
- Bearing failure analysis

### ■ Refurbishment services

- Bearing refurbishment service
- Bearing refurbishment for railway taper bearing units
- The vital link in clip chain refurbishment

### ■ Engineering solutions

- Getting bearings on the London Eye
- SKF on board the world's largest pipeline laying ship
- Where there's a wheel there's a way
- An open and shut case for SKF
- Customised housings solution
- SKF bearings can stand the heat
- SKF bearing solution gets many fans
- Where there is muck, there is brass
- Design and project engineering
- Technical consultancy

### ■ Training courses

- Industrial bearing maintenance and service
- Balancing with Microlog™
- Machinery Analysis I
- Machinery Analysis II
- Fundamentals of machine condition
- Intro to PRISM<sup>4</sup> for Windows™
- Intro to Microlog™ system
- Intro to PRISM<sup>4</sup> on-line systems
- Intro to Machine Analyst™
- Intro to the MARLIN® system

## Engineering solutions

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