

Customer reference case

High-temperature bearing

Gypsum boards industry

Drying section



More gypsum boards with SKF high-temperature bearings

Rigips, a German manufacturer of gypsum boards, had been experiencing production losses due to problems in the dryer section. High temperatures caused the bearings to fail. SKF high-temperature bearings with graphite separators serving as cage solved the problem, and the dryer section is now running without difficulty.

Rigips is a part of British Plaster Board, one of the world's largest gypsum groups, offering a broad range of gypsum boards for ceiling and wall linings.

In one of their plants in Germany where they produce gypsum boards the company experienced frequent stoppages in the dryer section of the line due to problems with the bearing application. The rollers were equipped with plain bearings containing graphite, but these wore out quickly and failed to rotate. This caused both quality problems and high maintenance costs.

Previously, SKF service engineers had performed a successful rebuild of a mill together with Trans-Innova, a service engineering company. The design was changed from plain bearings to spherical roller bearings with excellent results. Against this background, it was natural for Rigips to turn to Trans-Innova and SKF when looking for help in redesigning the dryer section.

The speed and load are low and temperatures can be high, up to 250 °C. At 4 metres, the rollers are quite long, so misalignments have to be handled by the bearings.

Operating conditions

Y-bearing:	YAR 206-2FW/VA228
Operating temperature:	250 °C max.
Speed:	20 r/min
More conditions:	Low load, misalignment.

Value added:

- ✓ Maintenance free, savings in maintenance costs.
- ✓ A reliable solution with increased output.
- ✓ Savings in energy consumption.

To cope with the high temperature, SKF proposed high-temperature bearings with graphite separators, serving as cage. After a test phase, the Rigips Berlin-Brieselang plant decided to change to high-temperature ball bearings. The first test was made with 6206-2Z/VA208, but the final design incorporates YAR 206-2FW/VA228 bearings as they allow misalignment. Running time is now 4 200 h, a huge increase from the past.

Rigips now has reliable production with increased output.

For more information please contact your local SKF office.

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