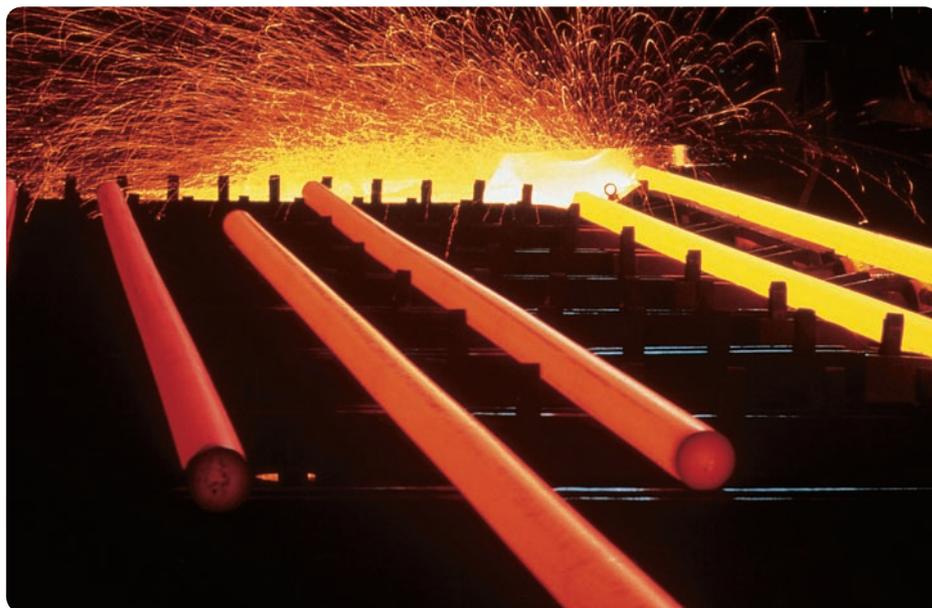


Customer reference case

High-temperature bearings

Steel mills

Cooling beds



Cooling beds using the graphite technology

SMS Demag AG replaced an expensive cooling bed lubrication system with unique graphite technology from SKF.

SMS Demag AG is a world-class manufacturer of metallurgical plants and rolling mill equipment. The company was founded almost 200 years ago and has developed, designed and built machinery and plants for the world's steel, aluminium and copper industries.

At the end of the rolling process in a steel mill, steel is stored in long rows and slowly cooled on cooling beds. This cooling area is often several hundred meters long and the steel is slowly moved forward on the roller bed. This roller bed consists of thousands of rollers, all equipped with bearings, and it is important for the quality of the steel that the bed rotates continuously.

Until recently, SMS Demag used a very expensive and complicated oil-air lubrication system on standard deep groove ball bearings. However, to make the company more price competitive, SKF advised that the bearing system should be changed to utilise SKF high-temperature bearings with graphite

Operating conditions

Bearings: 6211-2Z/VA208
6220-2Z/VA208
6218-2Z/VA208

Operating temperature: 200–250 °C
Speed: Low

Value added

- ✓ Maintenance free
- ✓ An expensive lubrication system is no longer needed
- ✓ Increased uptime at the end user

technology. The need for the expensive oil-air lubrication system was eliminated, as the high-temperature bearings use graphite as a “dry” lubricant to provide a maintenance free solution.

Two plants have now been equipped with the SKF high-temperature bearings solution from SMS Demag, with excellent results reported from the customer.

For more information please contact your local SKF office.

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