

## Schaeffler Global Technology Solutions

### Raw material extraction and processing

#### Portland Valderrivas, Spain

### Professional Bearing Mounting in a Polycom Press saves Money

Grupo Cementos Portland Valderrivas is the largest Spain-based group of cement manufacturers and one of the world leaders in the industry. In Spain currently in 12 of a total of 17 regions, the plants' strategic concept permits a product diversification that is gaining the group a large market share in Spain. The yearly production capacity of the plant in El Alto amounts to 2,25 million tons of grey clinker, 230 000 tons of white clinker, 2,8 million tons of grey cement and 280 000 tons of white cement.

#### Challenge for Schaeffler

Portland Valderrivas had contracted one of the leading engineering services providers to the cement and mineral industry. Four bearings in the company's roller press had to be replaced as they had reached their maximum service lives. The press is of vital importance for the cement production process. The grinding process must produce a very fine clinker to guarantee a good quality of the final product. If the press does not operate properly, the clinker produced is not as fine as required. So Portland Valderrivas contracted Schaeffler to carry out the mounting job and show the engineering company fitters how to do it.

#### Schaeffler Solution

Due to the size of the bearings and the importance of the press for the production process, correct bearing mounting is of vital importance for the quality of the finished product and the level of plant availability. Schaeffler Iberia supported the engineering company in planning and coordinating the mounting operation. During the mounting, service experts from Schaeffler Iberia trained the fitters on site. The four new bearings were mounted with the help of the hydraulic mounting method. Adjacent components and bearing seats were handled with care and checked for reusability.



GRUPO  
CEMENTOS  
PORTLAND  
VALDERRIVAS

#### Technical Information about the Plant

##### Lines

Grey cement:	2
White cement:	1





Dismounting of bearings from roller press



Cleaning and inspection of supports and shafts



Mounting of new bearings

## Customer Benefit

Correct bearing mounting is essential for ensuring a high level of machine availability and maximum bearing service lives. Thanks to the joint efforts of Schaeffler Iberia and the engineering company, the risk of a failure causing an unplanned two-day downtime was reduced significantly. Moreover, the transfer of knowledge enables the engineering company to perform mounting jobs of this kind correctly and without assistance in future.

### Saving potential

#### Costs of a professional standard bearing mounting:

Labour (10 fitters x 5 days)	€ 16 000
Crane hire	€ 5 000
4 spherical roller bearings with tapered bores	€ 114 000
Mounting assistance	€ 3 000

Total costs: approx. € 138 000

Production loss due to unplanned downtime (48 hour): € 240 000

**Cost savings for every avoided unplanned downtime: € 240 000**

### Technical Information about the Solution

#### Bearings used:

4 spherical roller bearings with tapered bore

#### Type:

241/670-B-K-30.MB.C3

#### Dimensions:

630 x 1 090 x 336 mm

#### Mass:

1 650 kg

## What's special

This service is also applicable to other plants in this industry. Schaeffler mounting expertise is well known in the market. Both end customers and engineering service companies rely on Schaeffler mounting experience to improve their bearing mounting know-how.