



**SATAREM Group** in cooperation with **NOVEXA France** made a complete diagnosis of the pinion-crown drive system of a 2-chamber cement mill owned by one of the main cement groups in Latin America.



### Timely Response

The Satarem team provided a timely response to the plant, the inspection was completed in 2 days and the full report was delivered a week later.



### Objective of the Inspection

The technical inspection was recommended due to the abnormal vibration level in the bearings, up to 19 mm / s.

### Findings and Recommendations

Problems were identified such as profile deformation, excessive wear rate, high root elimination value, pinion / gear alignment distortion.

We also face a considerable problem because the pitch diameter in the pinion and the gear are different.

The SATAREM NOVEXA team recommended immediate actions to avoid unexpected problems such as broken teeth, bearing failures or cracks. A series of recommendations were presented and will allow extending equipment life without incurring excessive cost while minimizing the shutdown of the mill.

### Upgrades and Greenfield Projects

SATAREM executes up-upgrades and supplies equipment and spare parts for maintenance of complete cement plants or for individual systems.

Based on our practical experience in operation and the use of well-developed technologies, we supply equipment and services adapted to the specific needs of the client, improving the efficiency of their plant.

***Contact our SATAREM specialists for any of your needs  
in mechanical drive systems.***

**SATAREM S.A.**

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