

F'IS Newsletter

September 2006



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F'IS team of fitters: Bearing replacement in a friction welding machine

Careful and correct mounting of the heavy shaft bearings in a friction welding machine is an indispensable precondition for ensuring that these heavy-duty bearings work without problems. A friction welding machine is used to bond round stock, square stock or parts of aluminium wheel rims for cars, with a contact pressure of up to 1000 tons. This is effected by taking advantage of the principle that friction generates heat. Two parts that are to be welded to each other are mounted, pressed together and rotated in opposite directions. The friction causes the material to become white-hot. After the required temperature is reached, the rotating parts are stopped and once again pressed against each other until they have been welded together. The bearing replacement - a routine job for the F'IS team of fitters - took less than two days. The planned downtime period was thus reduced to a minimum to the customer's advantage.



[More info \(click here\)](#)

FAG Detector III: acid test passed

Armstrong DLW, one of the biggest linoleum manufacturers in Germany, is using the new FAG Detector III with great success. The customer's technical staff monitor various machines, e.g. ventilators and mills, and also perform balancing jobs with the device. Especially the balancing was very labour intensive before the introduction of the Detector III. Such balancing procedures were performed without any balancing system and took in average ca. 4.5 hours. Thanks to the Detector III, this time has been reduced to 0.5 hours. The acquisition therefore paid off very quickly and the customer was also enthusiastic about the other advantages offered by the Detector III. Mainly impressed by the versatile opportunities for carrying out measurements or analysis and an unbeatable cost/performance ratio offered by the Detector III, the customer decided to buy the product even before the end of the agreed test period.



[More info \(click here\)](#)

Online monitoring in a south German cement plant

F'IS has recently begun to monitor the electric motors and the reduction gears of two tube mills in a south German cement plant by means of two 8-channel FAG DTECT X1 systems. The monitoring focuses on the bearings and the gearing. The critical spot is the slowly revolving girth gear. A failure of this element must be avoided by all means since, as a rule, such a failure means an extended downtime and high follow-up costs. As F'IS had already provided a solution for this tricky monitoring task for another customer in the cement industry, which proved to be a great success, our new customer was able to benefit from the Know-How of the F'IS as well.

**Any further questions?
Get in touch with us...**

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