PROBLEM SOLVER

PROTECT PRODUCTION FROM PREMATURE FAILURES

Paper and Packaging

Problem: A leading international manufacturer of heavy-duty carton-board was experiencing problems with the drive motor on its large flue gas recirculation fan. The bearings were failing after only six months, leading to unplanned downtime, and high maintenance and repair costs. It was found that the bearings were failing prematurely due to stray electrical currents introduced into the bearings from the variable frequency converter.

Solution: The maintenance department decided to install **INSOCOAT electrically insulated bearings** in the motor. These bearings come with a sealed coating of aluminium oxide that provides a high degree of electrical insulation. Applied using a sophisticated plasma spray process to either the outer or inner ring, this coating means that bearing failures caused by stray electric currents are virtually eliminated.

After installing INSOCOAT bearings, the producer didn't suffer further bearing failures in the hot gas fan for over five years. In addition, the frequency drive can now be used to its full capacity and they've realised total savings of £250,000.

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