

Higher Productivity for Grain

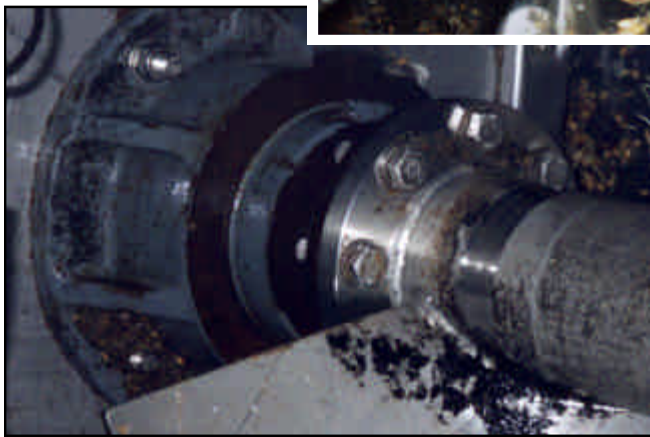


The Application Problem

Maltings process the various types of grain used in the brewing industry. One of the most critical pieces of equipment on site is the loading and unloading screw conveyors. Should a conveyor fail, grain handling cannot proceed.

Prior to this conversion to Cooper split roller bearings, spherical bearings in a special housings on the main horizontal and vertical screw support position were used.

Changing these bearings usually took up to one to two days and involved the costly exercise of emptying the germination tank by hand and a complete drive dis-assembly involving the use of cranes and incurred expensive labour cost.



The Cooper Split Solution

The solution was to replace the the solid bearing with standard Cooper split the shaft bearings in Flange Housings (BCF) and Pedestals (BCP) with slight modifications the housing seating area to meet with the customer's specification.

Bearing change time was down from 1 to 2 days to 2 to 3 hours. High humidity in the germination tank which caused lubrication problems was an additional concern for the customer. This situation was addressed by the combination of the Cooper external misalignment feature combined with the SRS seals which remain in complete concentricity with the shaft at all times. This not only keeps out foreign matter but lubrication retention is greatly improved thereby increasing the life of the bearing and greater productivity for the customer.



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