

Custom Bearing Assembly

PALLET RACK SYSTEMS

PROBLEM

A high volume pallet rack manufacturer was having serious delivery problems with their existing bearing supplier. The manufacturer was using a high cost, fully-ground precision bearing. In addition, to make the bearing function properly in the application, seven different components needed to be assembled around the bearing, which added cost and time for the customer.

SOLUTION

A Kilian sales engineer met with the manufacturer and analyzed exactly how the bearing was being applied in the field. Kilian quickly determined that the precision bearing the manufacturer was using was “overkill” and a customized Kilian bearing would be more appropriate for the material handling application.

The Kilian engineering team designed a custom, unitized bearing that incorporated all the previous bearing components into one piece, eliminating the need to buy and inventory several different items, as well as the assembly time that was required.

Since the new bearing design featured one component instead of seven, the company reduced bearing costs by more than 50% using a unitized bearing that was perfectly suited to the application.



HIGHLIGHTS

- Custom engineered solution
- Single unitized bearing replaced seven parts
- Reduced costs by 50%

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MCCSS-P-7268-KM-EN-US 08/25

