

Custom Bearing Assemblies

UTILITY TRUCK
STORAGE DRAWERS

PROBLEM

A large U.S. utility truck manufacturer needed a bearing solution for traverse storage drawers installed on many of its truck models. The drawers slide out from the truck body so users can easily access stowed tools and equipment.

The goal was to acquire a more robust bearing so that fewer bearings need to be installed on each drawer. Fewer bearings meant that the new bearings needed to handle loads up to 500 lbs. while functioning smoothly on imperfect rails, in all weather conditions.

SOLUTION

To meet the challenging application requirements, Kilian™ developed a precision mechanical bearing design with an integral stud to replace the previously used bearing.

The new Kilian unitized one-piece, corrosion-resistant bearing assembly accommodates very high loads. A beveled outer diameter profile design allows for some misalignment in the telescoping drawer track system. A hex head socket was incorporated for easy installation.

Kilian provided prototype bearing assembly samples to the customer for rigorous testing. Orders were eventually placed based on positive in-application test results.



HIGHLIGHTS

- Custom one-piece unitized bearing assembly
- Integral stud
- Corrosion-resistant
- Teflon seals
- High load capacity
- Hex head socket for easy installation
- Accommodates some track misalignment

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