



Product

Custom Roller Bearings

Application

Aircraft Cargo System

Highlights

- Bearing consists of a precision-machined aluminum roller and two precision-machined race bearings that are press-fit into a cartridge
- Special aluminum rollers for reduced weight
- Bearings are swaged in place

A major manufacturer of aircraft cargo systems needed a roller bearing solution for a new medium-size transport aircraft. The flexible aircraft, the heaviest that the company has made, is able to perform aerial refueling and transport troops or up to 21 tonnes (23 tons) of cargo, including wheeled armored vehicles. In order to ease the careful packing of cargo pallets, the entire length of the cargo deck system is lined with as many as 1000 roller bearing assemblies.

To meet the aircraft's weight restrictions, Kilian developed a custom bearing design consisting of a precision-machined, profiled aluminum roller and two precision-machined sealed race bearings that are pressed into a cartridge. The bearings are swaged in place allowing the customer to install them into trays that make up the cargo system. Each bearing is mounted into a tray and supported by a titanium pin which keeps the bearing assembly firmly attached to the tray.

Altra Industrial Motion Australia

Sydney
1/11 Penny Place
Arndell Park, NSW 2148
Sydney, Australia
+61 (0) 2 9622 1333

Perth
271 Great Eastern Highway
Belmont, WA 6104
Perth, Australia
+61 (0) 8 9416 0300

www.altramotion.com.au