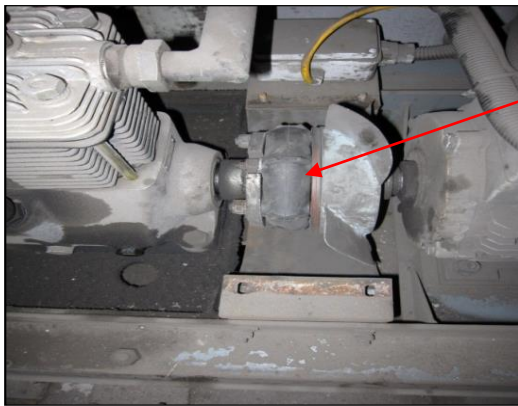


Trolley Bus Hardy Clutch

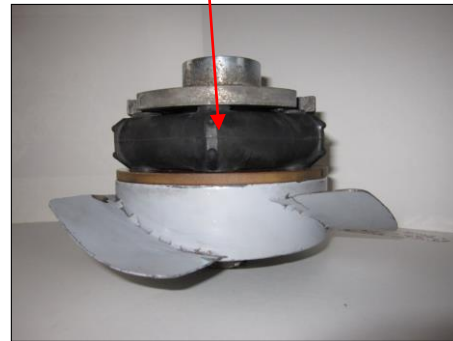
Industry:	Transportation
End User:	Mass Urban Transit Company
Application:	Trolley Bus Hardy Clutch
Thordon Grade:	ThorPlas-Blue and XL
Date of Original Installation:	2011

Challenge

The Czech Republic is a nation that contains 13 trolleybus systems. The Mass Urban Transit Company (MUTC) runs Skoda Tr14M and Tr15m trolleybuses for daily public transportation. They were spending far too much time and money on replacing parts of their hardy clutches, which consists of a carrier plate and three damper elements. They were using Pertinax (FR-2) and Tecamid bearings, which required grease for lubrication and was providing a short wear life. The customer was looking for a grease free bearing solution with a longer wear life to help save on maintenance costs.



**Trolley Bus
Hardy Clutch**



Solution

After reviewing the operating conditions and environment, Thordon recommended ThorPlas-Blue bearings to replace Tecamid, and XL bearings to replace Pertinax (FR-2) on the hardy clutch. These bearings offer:

- Long bearing wear life with no maintenance
- Do not require grease or any lubrication to ensure smooth operation
- Low coefficient of friction and good abrasion resistance



Outcome

After careful consideration, MUTC decided to test Thordon's ThorPlas-Blue and XL bearings on the hardy clutch of the trolleybus. The old parts were being replaced every 3 to 4 weeks. After 20 weeks of operation, the ThorPlas-Blue and XL bearings were still running with no issues, an increase in service life of greater than 5 times.