



## Product

## Custom Bearing Assembly

## Application

## Excavator Tensioner Pulley

## Highlights

- Custom engineered solution
- Single unitized bearing design replaced several components
- Eliminated scrap due to brinelling
- Reduced assembly costs

Kilian was working with a global manufacturer of excavating equipment who was having quality and delivery problems with their existing supplier.

During installation, the tensioner pulley bearing was being damaged because the current design made it difficult to properly fixture the bearing to avoid a bearing's biggest nightmare – brinelling. This occurs when a load is applied to an improperly supported bearing. The rolling elements, (balls) create "dents" into the raceways. These dents result in noise when the bearing is rotated – imagine your car driving down a road full of potholes.

To make matters even more difficult, the customer also had to assemble some spacers and a stud in order to install the bearing into the system.

After carefully reviewing the application, Kilian engineers created a unitized bearing design that eliminated the need to buy and assemble other components and made installation a "no brainer," eliminating scrap due to brinelling. For nearly 100 years, Kilian has specialized in creating innovative solutions to these types of problems; solutions that improve quality and save money by increasing the value in the design.

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