

# Transportation Components



**Specialists in precision molding of high-performance bearing-grade plastics in high volumes**

When friction, sealing, dimensional stability and wear are crucial, rely on us. We'll deliver the high-performance seals, thrust washers, and other critical-to-function components your system needs to run smoothly and efficiently.

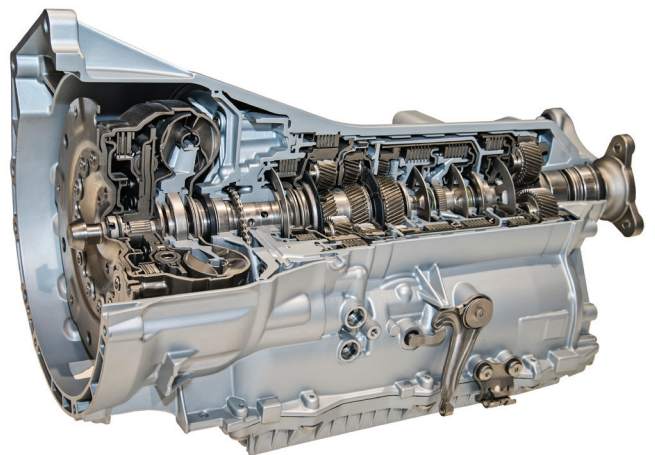
## Precision Plastic Seals



## Thrust/Wear Components



## Complex Geometries

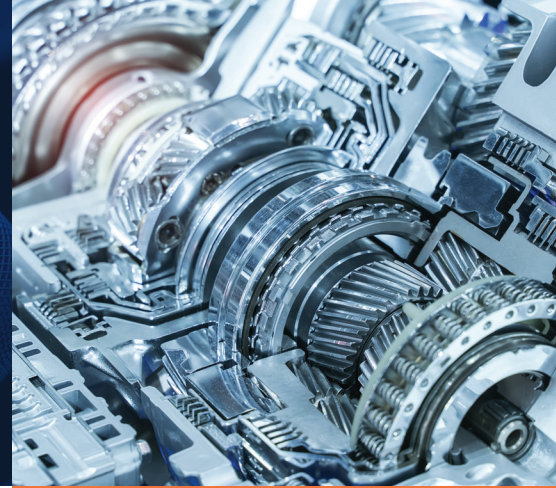


Our experienced team of engineers and technicians will work closely with you to design, test and manufacture the tight-tolerance parts for your transmission, clutch and powertrain applications. And we'll do it with exceptional consistency – zero PPM – in high volumes at our state-of-the-art facilities.

We already produce more than 80 million precision plastic seals alone for the world's top transportation companies and original equipment manufacturers.



# Depend on us to meet demanding requirements in high volumes



## Comprehensive facilities and integrated capabilities:

- Injection molding of engineered and high-performance plastics
- Custom designed seal geometries
- Metal to plastic conversions
- High-performance bonding – metal to plastic, metal to rubber, plastic to plastics and plastic to rubber
- Custom material formulation
- Insert molding

## Superior engineering and technical expertise:

- Preliminary engineering assistance and mechanical design review
- Mold design and development with complete prototype services
- Design for Manufacturability (DFM)
- Process engineering, including mold flow analysis, functional testing and leak testing
- Non-linear FEA
- Materials engineering, including specialty compounds

## Robust quality and processes:

- Global IATF Certification
- Environmental Management System registered to the International Standards Organization series ISO-14001
- Mature Lean Six Sigma program
- Class 10,000 (ISO 7) and Class 100,000 (ISO 8) clean rooms

## Contact us to learn more today!

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**For more than 70 years, Minnesota Rubber & Plastics has helped world-class organizations solve the most difficult sealing and component challenges.**

We develop highly engineered, critical-to-function custom molded solutions for the Medical, Transportation, Water, and Food & Beverage markets.

We can support our customers wherever they do business – and our global footprint spans North America, Europe and Asia.

