

NeverWear™ Bearings

NeverWear™ Bearings Accuracy, Precision and Repeatability

Engraving speed, image quality and robust, long lasting construction are important to our customers. This is why we incorporate high-quality, industrial-grade, NeverWear™ stainless steel bearings in every Epilog laser system.

What are NeverWear Bearings?

Epilog's NeverWear bearings are a two part stainless steel rail/bearing structure.

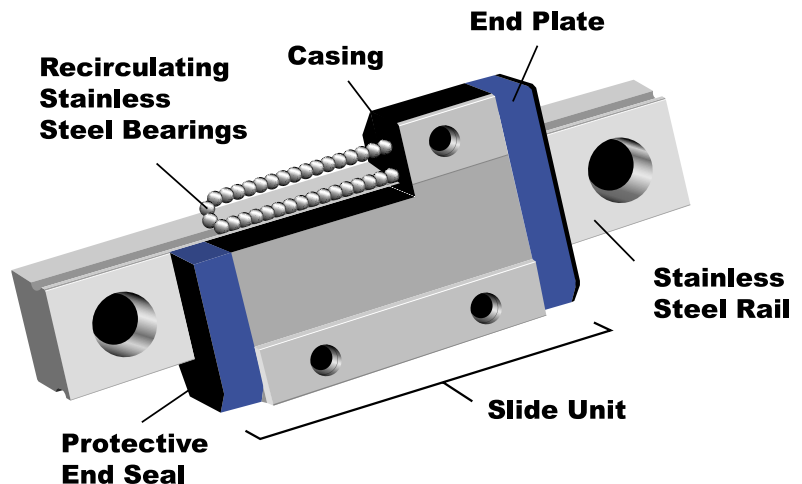
The structure incorporates a stainless steel rail that is fixed in place on the X-beam, with a slide unit that moves back and forth along the rail. The slide unit contains a total of 64 stainless steel ball bearings that recirculate through the slide unit as it moves along the rail.

Why are they called NeverWear?

The design of the NeverWear bearings is so robust that with periodic cleaning and lubrication, they should last for the life of your machine without replacement.

To provide an idea about how robust our NeverWear bearings are, consider the punishing life testing the bearings have endured without failure under the following test conditions:

- Test duration – 4560 hours.
- Travel speed – Test rated at 155 Inches per Second (IPS) (Not the speed of the laser system.)
- Distance traveled – 103,345,000 cumulative feet (over one hundred million feet, or almost 20,000 miles!)
- Number of Start/Stops – 1,000,000.



Epilog NeverWear™ bearings vs. roller type bearings:

NeverWear™ Bearings by Epilog Laser – Accuracy, Repeatability & Precision

- Stainless steel bearings on stainless steel rails provide industrial strength and long life (hence, the NeverWear name!). Because the bearings are supported in all three axes – Top/Bottom, Left/Right, and Side (Front/Back) - bearing wobble and subsequent wear are virtually eliminated.
- The rigid structure and indestructible nature of stainless steel allows for exceptional accuracy, repeatability and precision, resulting in superior engraving quality, even at the highest of speeds.
- Protective end caps keep bearings free from debris and contamination.
- Designed to withstand harsh industrial environments.
- The bearing system of choice for long life, high-end industrial machine tool applications.

Roller Type Bearings

- Roller bearings use plastic wheels, severely limiting the speed, accuracy and useful life of the bearings.
- Because roller bearings are only supported in two of the three axes, they tend to develop wobble resulting in poor image quality. The only remedy is a costly replacement.
- Frequent and costly replacement of worn plastic roller bearings increases consumer frustration and reduces profits.



Specifications Subject to Change Without Notice. Features Subject to Availability.