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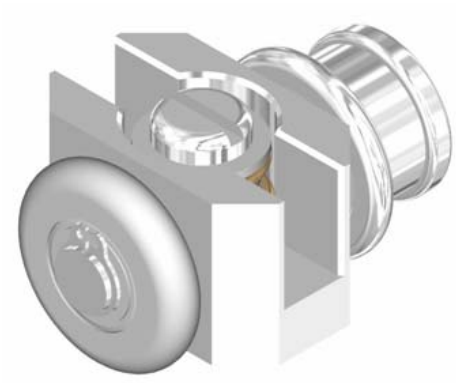
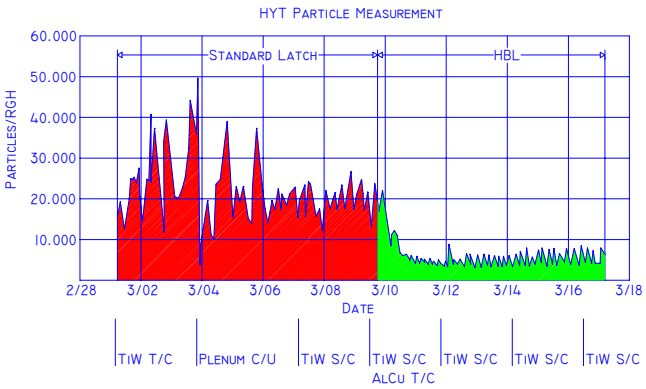
Eclipse Hybrid Bearing Latch





HBL Introduction

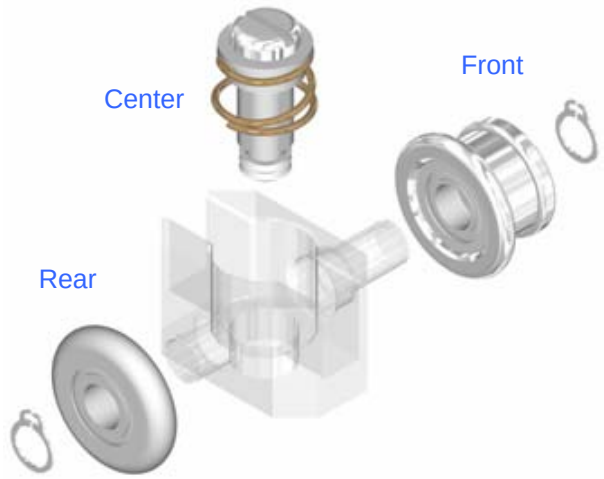
Introducing ASSET Solutions Hybrid Bearing Latch (HBL) for the Eclipse PVD equipment platform. Exclusively, our HBL was engineered and developed to combat the unreliable performance linked with standard ceramic and stainless steel bearing latches at elevated process temperatures.

HBL Particle Performance Comparison

Before the introduction of our HBL, the standard latch being utilized for elevated process temperatures was manufactured from various types of costly ceramics. The graph above illustrates the particle performance of our HBL in comparison to the standard latch being utilized for elevated process temperatures.

HBL Concept

Since its conception over a decade ago, the standard stainless steel bearing latch has proven to reduce particle generation around the wafer by reducing friction during latching and unlatching cycles. However, the standard stainless steel bearing latch doesn't perform well at process temperatures ranging from 300-465 degrees Celsius. Our HBL has solved this problem by utilizing miniature precision hybrid bearings along every axis of latch rotation. Adding to the benefits of the standard stainless steel bearing latch, our HBL has proven to last up to 500% longer between rebuilds and reduces mechanical failure at elevated process temperatures.



HBL Rebuild Kits

Why purchase new bearing latches when you can rebuild them at a fraction of the cost? Front, center and rear bearing latch rebuild kits are available. Bearing latch piece parts are also available. Or, have us rebuild your bearing latches for you.

Cost of Ownership Reduction + PVD Equipment Enhancement