



THE HEX-LOC JOURNAL BEARING PIVOT SYSTEM

WHY USE JOURNAL BEARINGS? ::

Uncompromised Performance. . . Our bikes are designed from the ground up around our Journal Bearing System because we believe bearings on a full-suspension mountain bike should never simply be an afterthought.

The journal bearing design offers incredible strength and long life with very little maintenance. Standard bearings are designed with high-speed rotation in mind (skateboard wheels, drill motors etc.) The journal bearing we use has a purpose of holding a very tight tolerance along with carrying a load much greater than that produced by a bicycle frame, these two attributes we feel are essential to a great riding bike.

The rear of our frames often gets praise for how stiff it is laterally and how well it tracks through the roots, ruts, and rocks encountered on a mountain bike. Because a bearing found in a bike pivot never makes a full rotation, you rely on two maybe three of the balls in the cartridge to carry the entire load and pressures generated by the rider. Over time this is what creates that "crunchy" feel or "squeaky" sounds people often comment about.

Standard bearings are also made of steel, steel rusts after being exposed to water, grit and grime, again found in our everyday riding. So long lasting, tight tolerance and incredible load bearing capabilities are why we have chosen to stick with journal bearings.

THE SYSTEM COMPONENTS::

1 | The Hex-Loc Pivot System is designed to provide the dw-link / journal bearing fusion with unsurpassed structural superiority: stronger, stiffer & smarter.

2 | The Kevlar Composite Journal Bearings we use can hardly be compared to their brass relatives. More durable, less friction & tighter tolerances make this new material transcend industry standards for bearing proficiency.

3 | The Pivot Shaft is spiral grooved to aide in the distribution of lubricating grease throughout the entire bearing system, while the hard anodized alloy surface is extremely durable and will not corrode in even the harshest environments.

4 | The Quad-Wall O-ring Seal is designed with a square contour that in conjunction with the machined frame/bearing interface creates a tight seal to keep the grease in and the dirt & grime out.

5 | Every frame is meticulously designed, machined, and prep'd to interface with the quad-wall o-ring and journal bearings.

6 | The threaded Zerk grease lubrication fitting can be found at every pivot location. The Zerk fittings allow for easy maintenance and uncompromised performance.