

# UltraPulley 12-12 PH



UltraPulley "Twin-Bearing-System" for an unmatched shifting precision, featuring two high-quality Hybrid-Ceramic bearings. Each couple of bearings is tolerance-matched with the adjacent parts for perfect rolling smoothness and zero-play.

**Bearing seals** require some running-in to achieve minimum friction whilst keeping moisture out.

**Beware:** pulleys advertised with infinite spinning do not have any kind of effective seals. The dirt, entering in the bearing, will compromise its efficiency and lifespan.

**EXTRALITE**

## Installation and tuning

UltraPulleys accept up to mounting M5 bolts (consider using ExtraBolt 12.2 too)

Tighten each M5 bolt precisely at 2.0Nm, then test lateral play at the chain teeth.

If there is still a small play increase bolt tightening of 1/10 of turn and test again.

If necessary repeat up to the maximum torque of 2.5Nm.

## Warning

- Never over-tight pulley bolts, it will decrease rolling smoothness and eventually permanently damage the Hybrid-Ceramic bearings.
- Do not exchange or reverse bearings nor swap any of the alloy inserts between different pulleys. Each Pulley unit is individually tolerance-matched at the factory.