

Ultracomp[®] Bearings and High-Pressure Water Applications



Our client is a major entertainment design company famous for its "dancing water" attractions found at casinos, hotels and other commercial developments.

Ultracomp bearings have "hit the jackpot" with a recent application for the casino industry featuring a new water/pyrotechnics attraction on the famous Vegas Strip. Why did our partner choose self-lubricating Ultracomp bearings over metal bearings for this rigorous, high-pressure water application?

These attractions feature high-pressure water cannons that produce "dancing" water routines set to music and lights; a truly spectacular sight. The devices are constructed of high-pressure water hoses that are built on spiral tracks with specialized nozzles to enable 360° rotation. Ultracomp 200 roller bearings were the superior choice to support the hose nozzles as they moved on the spiral track.

■ A partnership with TriStar gives you a competitive edge.

Ultracomp is self-lubricating, easy to machine, has exceptional resistance to vibration and impact, and an ultimate compressive strength of up to 54,000 psi.



Here's how Ultracomp bearings outperform standard metal bearings in this unique application:

- **Dimensional stability in liquids**
Ultracomp bearings resist moisture absorption and provide near-zero swell even under constant use
- **Resistance to harsh chemicals**
This water attraction requires chlorine and ozone treatments to keep the water clear under the pounding desert sun; UC 200s will never corrode from the harsh chemicals
- **Superior wear tolerance**
UC 200 delivers superior wear properties to accommodate the speeds and hydraulic forces of the high-pressure hoses

Want to learn more?

Check out the [latest Ultracomp videos](#) to explore other unique applications for this tough bearing!

We're ready to put our engineering expertise to work for you
from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp™

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel™

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon®

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



TriStar



Engineered Plastic Solutions™

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