

Solutions for Hydropower



Sealing and Bearing Solutions for Applications within a Hydropower Station



Switch gear

Shatter-proof silicone insulators ensure safety while maintaining high voltage



Distributor ring

Orkot® wear pads on the distributor ring guarantee low friction.



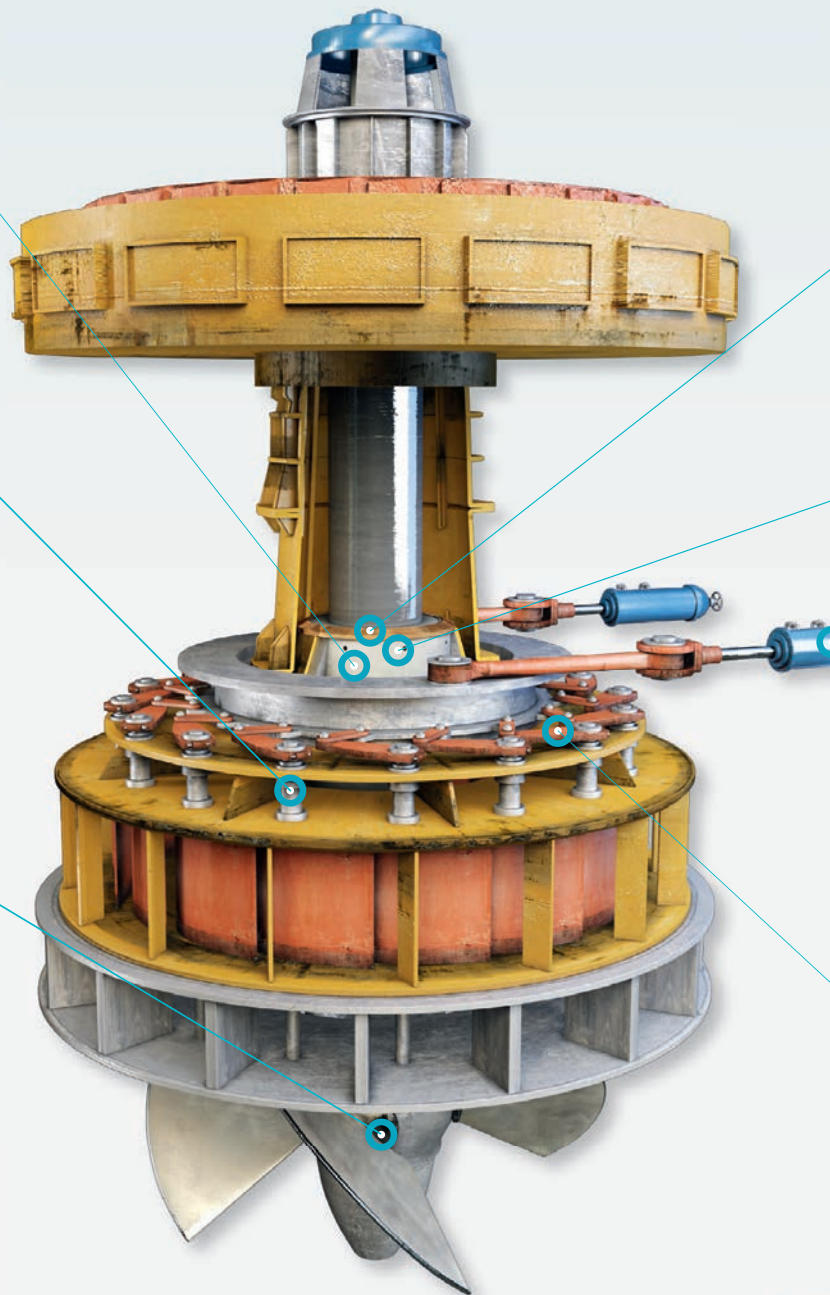
Wicket gate guide vane

Orkot® TXMM bearing and spring-energized Turcon Variseal on the intermediate and lower assembly of the wicket gate guide prevent suspended solids in the water from damaging the wicket gate stems and bearings.



Runner blade hub

Orkot® TXMM bearings allow for high load capabilities while custom-designed hub seals prevent ingress of water into the hub, at the same time as preventing oil from leaking out of the hub into the environment.



Spillway gates

Orkot® TXMM trunnion bearings on spillway gates guarantee long life even under the harshest conditions.



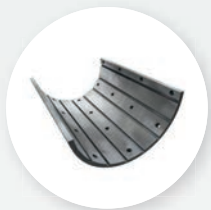
Main shaft

Operating in harsh conditions, Orkot® XR21 shaft seals prevent water from escaping and block particles from entering the bearing area.



Main guide

A self-lubricating Orkot® TXMM bearing on the main guide prevents metal-to-metal contact and allows the turbine to run smoothly.



Servo cylinder

Orkot® TXMM bearings, rod and piston seals, scrapers and Slydring® wear rings combine to make a sealing and bearing system that means long life for cylinder applications.



Control linkages

Orkot® TXMM bearings guarantee long life while ensuring performance in limited-motion applications.



Orkot® Hydro Bearings

A key component in any hydropower application is the bearing. Trelleborg Sealing Solutions is the world's leading developer and manufacturer of self-lubricating bearings for the hydropower market.

Trelleborg's proprietary Orkot® Hydro Bearings are manufactured from Orkot® TLMM and Orkot® TXMM, materials that incorporate woven fabric reinforcement and solid lubricants within a thermosetting resin matrix. Orkot® TXMM bearings run completely dry and have excellent wear characteristics, reduce friction and are non-toxic. Both Orkot® materials can also be utilized in water, water based fluids, oil or grease lubricated applications.



FURTHER INFORMATION

Read the book.
See the movie.

Check out the Trelleborg Sealing Solutions hydropower film, available in English, Spanish and Portuguese! Go to www.tss.trelleborg.com/films



Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has local presence in over 40 countries around the world.



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