

Complete Sealing Solutions

For all types of hydroelectric turbine

We specialize in the design, testing, manufacture and supply of an extensive range of mechanical sealing solutions for the power generation industry. Whether you build turbines, or do maintenance on them, TYTON Fematics has been helping the hydroelectric business for more than 55 years. Our innovative sealing designs, rapid turnaround time, hands-on engineering team and proprietary sealing materials, are some of the reasons why our customers count on us. We keep water down at the turbine level, where it is efficient for you.

Radial Type Seals

TR Series

Simple to install, our radial seals offer great advantages over traditional stuffing boxes. With a maximum head pressure of 60 PSI, and a maximum shaft diameter of 10 feet, our self-adjusting radial type seal design use our carbon sealing segments, to provide you with years of trouble free, leakproof sealing solutions

Axial Type Seals

TM Series

Our TM Series seals are designed for durability, with wearable parts designed to last 2 to 3 times longer than other types of seals. For turbine head pressures of up to 150 PSI, and unlimited maximum shaft diameter

Our TG450 composite requires replacement once only every 5 years. Our Axial Type Seals can be combined with a fully adjustable water injection system and wear indicator, which puts YOU in control of your sealing solution

Wear Indicators

Wear indicators lets you monitor the usage of the sealing material. Simple mechanical indicators can be monitored when turbine is shut down, or our state of the art electronic indicator with digital readout can offer the operator, constant supervision on the wear of the mechanical sealing surface

Control Panels

From basic water injection pressure monitoring, to a fully programmable system, that can monitor in real time, the flow of water going to your mechanical seal, cleanliness of water, and wear on your sealing material, we can supply a custom made solution fit for your needs, and budget

Main Shaft Sleeve

After many years, the main shaft of hydraulic turbines may wear down, due to the carbon sealing material. We can custom built shaft sleeves, used to refurbish older turbine main shafts

Testing Equipment

We are equipped with three (3) test benches, to perform, when needed, complete testing of your newly acquired sealing solution, before installation on site

Spare parts

Our team of engineers can recommend to you, the spare parts needed for the maintenance of all types of mechanical seals, not just our own. Our 16K sq.ft. manufacturing facilities enable us to rapidly supply our customers, with the parts they need

Water Injection Pump / Filtration Systems

Water is used to lubricate the sealing faces. Taking the water directly from the river, we offer simple filtration systems, to complete PLC controlled pump/filtration packages

Sealing material

We offer three (3) types of sealing materials

- Carbon TG615
- Phenolic
- Composite TG400/450

On-Site Supervision

Our staff of engineers are available to do on-site installation, monitoring, and/or commissioning to help you get back-up and running fast, make sure your installation is done properly and everything is running smoothly

For more information, feel free to contact one of our sales representative

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