

## Voith Hydro Services

Generating Results for you.  
On Site. On Time. On Budget.





# Voith Hydro Services

Combining the engineering reliability Voith with the speed and expertise of the former Peak Hydro Services.

By bringing together Peak Hydro Services' 27 years of field experience in the hydro repair business with Voith Hydro's 135 years of engineered reliability in the United States, Voith Hydro Services will maximize results for your hydropower generation needs on site, on time, and on budget.

With offices in York, PA, Chattanooga, TN, and Springfield, OR, Voith Hydro Services offers customers unmatched service across the United States.





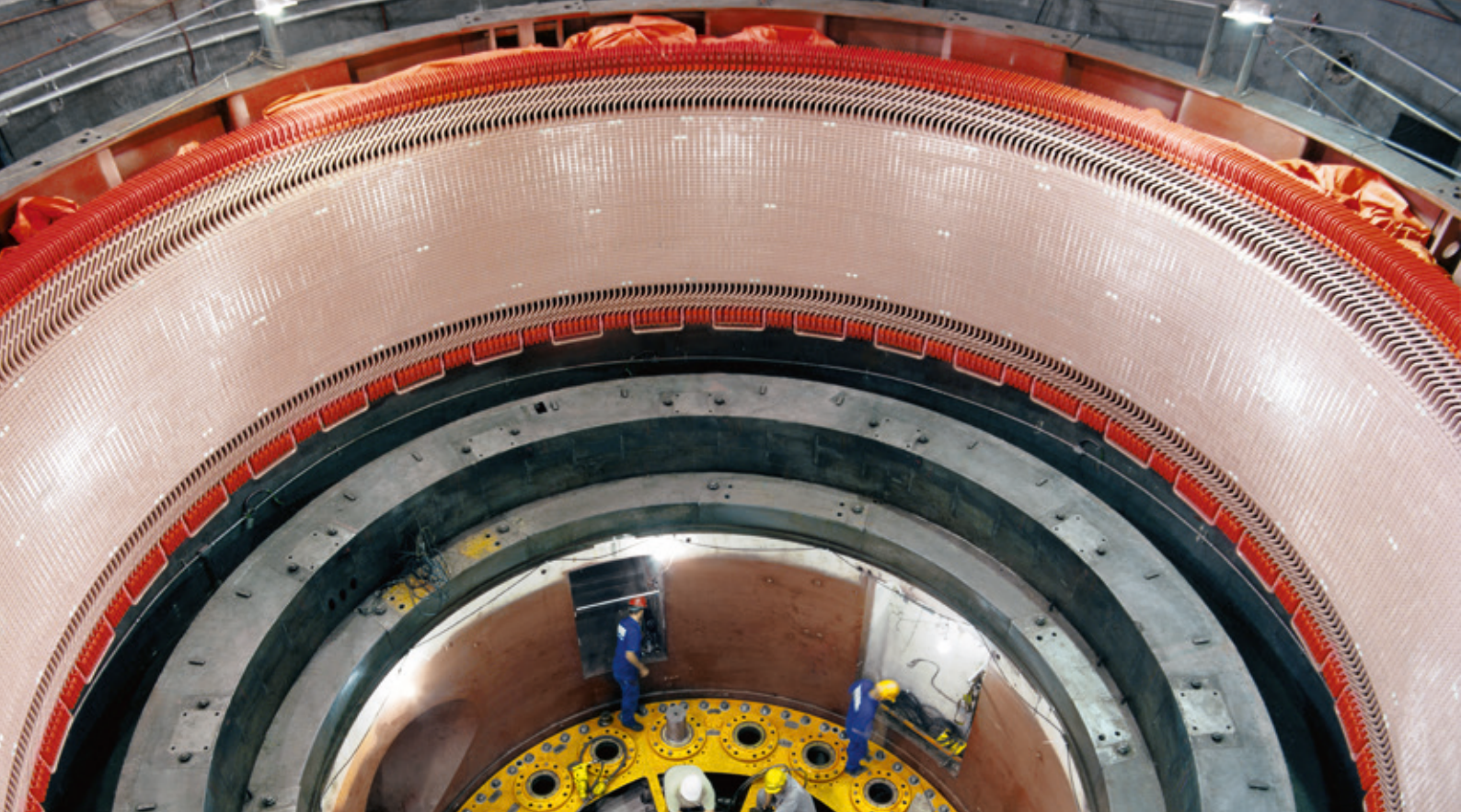
# The Voith Hydro Difference

Voith Hydro Services is a full-service provider for turbine and generator parts and repair.

Voith Hydro Services offers a unique, customized approach to your hydropower repair needs. We evaluate each situation and devise the most effective solution to ensure the shortest possible down time, saving you time and money. Whether it's a turnkey replace-in-kind or optimized repair, full rehabilitation, or part replacement, Voith Hydro Services has the solutions to meet your needs. As a division of Voith Hydro, which has installed over 40,000 turbines and generators worldwide, we have experience in every possible problem that may arise at your facility or with your equipment. Our innovative equipment, technology, and capabilities are unparalleled in the industry.

**The Voith Hydro Services difference means:**

- Efficient and custom solutions
- Experienced welders, machinists, winders and engineers
- Reduced outage time and longer-running machines
- Components restored to meet OEM standards
- Environmentally-safe and compliant procedures
- Safe, on-site work with professional project management



# Customized Solutions

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**In addition, Voith Hydro Services is proud to be worldwide the Original Equipment Manufacturer for:**

- AEG/Hydro
  - Allis-Chalmers
  - Ansaldo
  - Fuji Electric/Hydro
  - Hydro-Art
  - Kössler
  - Riva
  - Riva Hydroart
  - S. Morgan Smith
  - Shanghai Hydro-Power
  - Siemens
  - Tosi
  - Valley Iron Works
  - VG Power
  - Westinghouse
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Voith Hydro Services works to ensure your system is up and running quickly by developing custom solutions, minimizing costs, and reducing outage times. We know every repair is important, and every repair is unique.





## Voith Hydro Services Full-Range of Services Include:

### **Cavitation damage**

With Voith Hydro Services' innovative process technology and extensive cavitation repair experience, the life of the runner and other turbine components are extended and hydraulic operating profiles are restored.

### **Discharge ring and draft tube liner**

We can perform discharge ring and draft tube liner repairs with or without the runner installed. Voith Hydro Services can conduct welded overlay of existing surfaces or replace with a rolled steel plate, replacing the entire discharge ring if needed.

### **Emergency Services**

We can complete a full engineering evaluation and site and/or shop services to get your unit back on-line as quickly as possible.

### **Fractures**

Voith Hydro Services offers on-site repair of fractured and distorted runners, stay vanes, stay rings, head covers, bottom rings, thrust bridges, rotor and stator frames. We not only fix fractures, we work to identify the root cause of the failure, ensuring you fewer repair costs in the future.

### **Gates and bushings**

Voith Hydro Services repairs damaged or worn gates, stems and bushings to ensure continued controlled operation of your hydraulic machine. Line boring of new or existing bushings is completed to precise alignment.

### **Generator service**

We offer a full-range of service and repair for generators, including maintenance, components, pole refurbishments, rotor rim re-shrink, and stator rewind.



### **Grout and concrete**

With placements as small as a gallon or exceeding hundreds of cubic yards, Voith Hydro Services has the required experience to meet the specific needs of each job.

### **Pumps**

Voith Hydro Services restores pumps to their original OEM standards and tolerances. We have successfully modernized the carbon steel components of many of America's most important municipal water supply and irrigation districts by overlaying with stainless steel.

### **Runners**

We use semi-automatic and manual welding processes to repair runners, restore hydraulic balance, increase operational efficiency and your productivity. Our runner repair techniques work hand-in-hand with those of cavitation and crack repair.

### **Stay vanes**

We have a full complement of work practices to repair existing stay vane problems to meet engineered changes, and/or add engineered vane extensions and even replace entire vanes.



### **Component refurbishment and replacement**

In addition to our renowned field services, Voith Hydro Services Turbine can work on shafts, runner balancing and complete component restoration to achieve cost savings and lead time.

### **Testing Services**

Voith Hydro Services offers generator testing, vibration analysis, efficiency testing and shafting/rotating mass analysis and balancing.

### **Turnkey rehabilitation**

We offer a full scope services for the rehabilitation of a single component or a complete facility.

### **Unit Alignment**

Voith Hydro Services can provide you with an analysis to complete your unit realignment.

### **Valves**

Voith Hydro Services can return spherical and butterfly valves to their original OEM specifications. Our modernized seal technology means we can improve the valve to today's higher industry standards.

### **Voith Hydro Services**

A one-stop shop and full-service provider for turbine and generator parts and repair.

For support please contact our representatives at one of our locations across the United States.

Voith Hydro Services/ Southern US  
1023 Pineville Rd.  
Chattanooga, TN 37405  
Tel. +1 423 267-7549  
Fax +1 423 267 -4741

Voith Hydro Services/ Western US  
2885 Olympic St.  
Springfield, OR 97478  
Tel. +1 541 868-1831  
Fax +1 541 746-9573

Voith Hydro Services/ Northern Central US  
766 East Berlin Road  
York, PA 17408  
Tel. +1 717 792 7640  
Fax +1 717 792 7000

[www.voith.com](http://www.voith.com)

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