H&N WIND

POWER SYSTEMS BY TIMKEN



WIND SERVICE SOLUTIONS

Preventive Maintenance to Power Production

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OEM Parts. Repair & Test. Field Service.

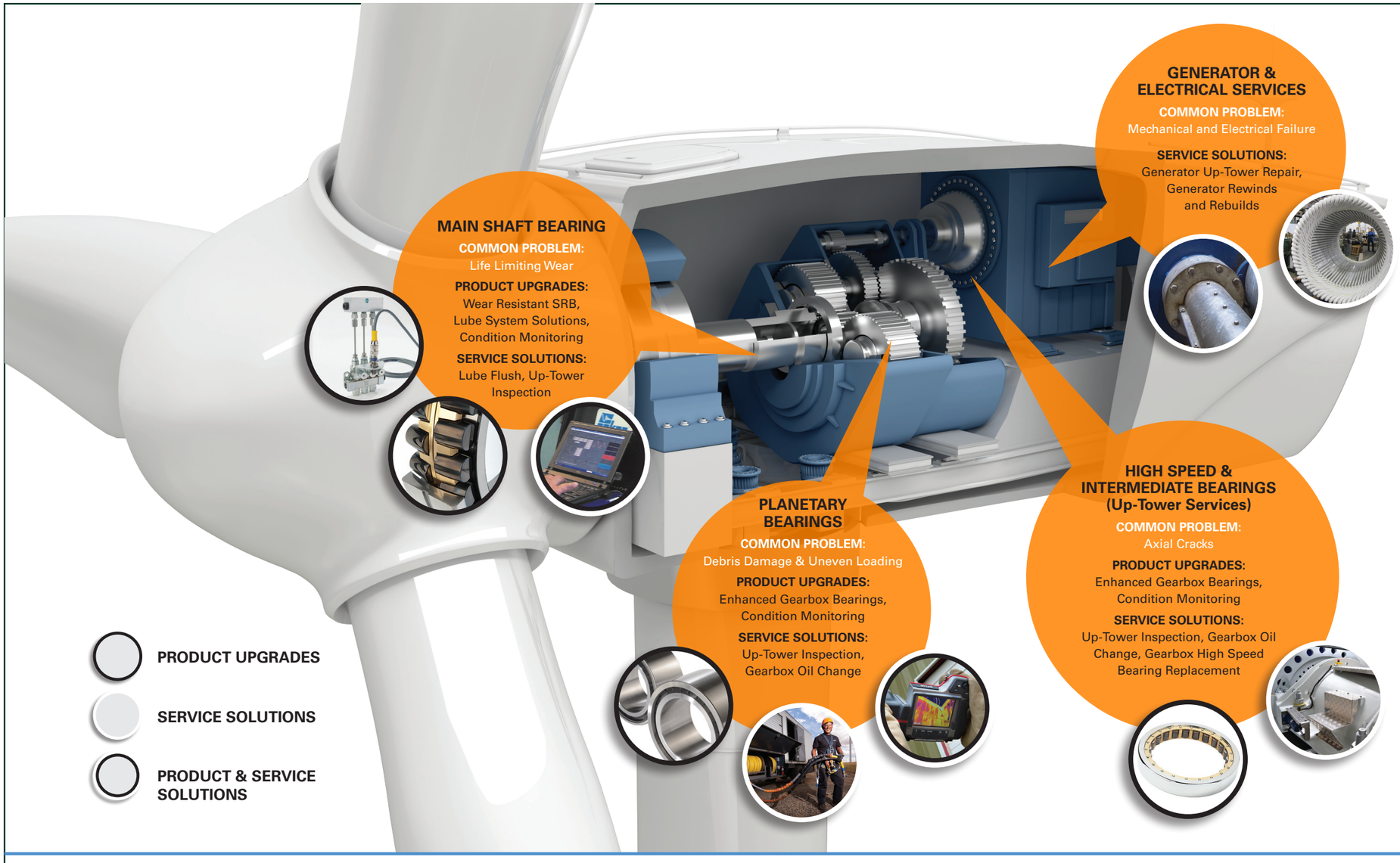
BECAUSE RELIABILITY MATTERS

In an industry where new problems and technologies arise every day, H&N Wind offers a suite of products and services designed to meet the evolving needs of our customers. And now, as part of Timken Power Systems, H&N Wind has never been better positioned to rise to those challenges.

We pride ourselves on being the company you can call 24/7 to resolve issues and prevent future problems. Whether you have an up-tower emergency, or a down-tower routine PM event, we are there for you. From inspections, to oil changes, to scheduled overhauls, to catastrophic breakdowns, our goal is the same as yours: to keep you online. Simply put, we are focused exclusively on that one objective regardless if it's a small repair or a large corrective project.

By judging our performance the same way our customers do, and by making sure we are providing the smartest possible solutions to satisfy their wind energy needs, we strive to ensure that objective is being met. Every repair, every project, every day.

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PRODUCT UPGRADES

WEAR-RESISTANT MAIN SHAFT BEARINGS

H&N Wind offers Timken DLC-coated bearings to significantly reduce wear. Additionally, our use of this proprietary bearing technology helps extend bearing life in poor lubrication environments, low lambda conditions, and when there is more likelihood of debris contamination. Combined with a split cage to compensate for uneven loading, and enhanced internal geometry to better accommodate thrust loads, our bearings offer superior performance in 3-point mount turbines.

ENHANCED HIGH SPEED GEARBOX BEARINGS

To help protect against brittle flaking, axial cracking and roller skidding, our gearbox overhauls feature Timken case-carburized, cylindrical roller and/or tapered roller bearings. To minimize the risk of damage in gearbox planetary positions caused by debris or uneven loading, we use a combination of case-carburized steel, DLC-coated engineered surfaces, and matched internal clearance cylindrical bearing sets.

LUBRICATION SOLUTIONS

Grease formulas that increase performance and bearing life in wind applications is critical. H&N's automatic lubrication systems deliver the grease reliably so you have one less thing to worry about.

BEARING HEATERS

High quality induction heaters designed to be used up-tower is a critical element of the H&N "toolbox" in order to safely heat gears, rings, couplings and bearings for easy installation and removal.

H&N WIND WAREHOUSE

Just like in the NFL, sometimes the best ability is "availability." That is why at H&N Wind we have made such a deep investment in making sure we have a vast inventory of OEM parts and replacement components on hand and ready to ship at a moment's notice.

Our wind warehouse is backed by parts specialists that have the broad-based knowledge and experience to get you the right part at the right time. Call us at 800-795-3537 or visit us online at hnwindservices.com/warehouse for a free, no obligation parts quote.

INSPECT, REPAIR & TEST

Our expanded 75,000 sq. ft. facility in Pasco, Washington, outfitted to handle complex jobs quickly, has the unique distinction of being able to handle sophisticated inspections, overhauls, upgrades and full-speed testing on virtually every generator, motor or gearbox found in the wind power generation industry.

Additionally, we have developed and proven several proprietary upgrades designed to enhance wind turbine rotating equipment performance and reliability. Plus, you can rest assured knowing that every piece of equipment we work on, and each part we supply is covered by H&N Wind's free standard warranty.

OUNCE OF PREVENTION, POUND OF CURE

We believe that old adage, even though we realize that sometimes things fail despite everyone's best efforts. And if that happens we are there for you. Whether in our shop or in the field, we bring unsurpassed expertise to bear on the problem. And we'll get you back online as fast as humanly possible.

But we also know that attention to preventive maintenance strategies can extend the mean time between failures. To that end, we offer condition monitoring, inspection services, and our proprietary 4-step advanced oil change technology system. Call today to start designing a custom PM program.

ONSITE TECHNICAL SERVICES (OTS℠)

H&N Wind strives to keep America's wind farms running with as minimal downtime as possible. Our suite of up-tower wind services includes working on gearboxes and generators, as well as resupplying and installing carbon brushes and other critical parts inside the nacelle.

Importantly, H&N is also a leader in providing large corrective in the field including repair, replacement and retrofitting of key wind turbine components. Our team of highly trained and experienced technicians can handle virtually any size and scope of project. We have one rule: if it can be done, we can do it.

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COMMITTED TO QUALITY. COMMITTED TO SERVICE.

H&N Wind is proud to have *independently* achieved ISO 9001: 2015 certification. Even though we are part of Timken Power Systems and its large family of brands that include Wazee Electric, The Schulz Group, Smith Services, H&N Electric, Standard Machine, and Philadelphia Gear, our Quality Management System had to stand on its own. And it did.

ISO 9001 QUALITY CERTIFIED

When it's all said and done it was about keeping our promises to ourselves and our customers through an unrelenting focus on achieving **100% TSB: 100% on-Time, 100% on-Spec, and 100% on-Budge**t. We think you'll agree our level of commitment is what sets us apart.

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, belts, chain and related mechanical power transmission products and services.

Stronger. **Commitment.** Stronger. **Value.** Stronger. **Worldwide.** Stronger. **Together.** | **Stronger.** By Design.

www.hnwindservices.com

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