Wind Energy

Our core manufacturer partners are known worldwide, are innovative and offer products that are designed and engineered specifically for the Wind Energy Industry.

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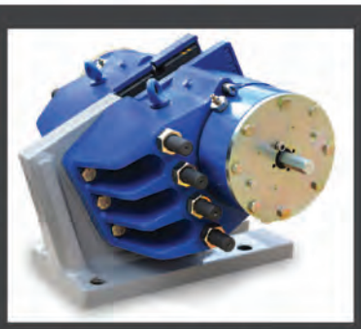
OVERVIEW & PRODUCTS

BDI works with manufacturing companies around the world to deliver comprehensive maintenance and repair solutions for the Wind Energy market. In partnership with our suppliers, we provide education, support, and repair assessment for many critical industry applications.

Bearings
- Main Shaft Bearings
- Main Rotor Shaft Bearings
- Generator Bearings
- Gearbox Bearings
- YAW Bearings
- Slewing Ring

Gearboxes
- Planetary
- Parallel-Shaft Gearboxes
- 10-20 rpm to 1500-1800 rpm on high speed shaft



Brake Assemblies
- Blade Pitch Brakes
- Rotor Brakes
- Yaw Brakes
- Caliper Brakes
- Electrically Released Brakes

Couplings
- Shaft Locking Devices
- High Speed Shaft Couplings
- Protection from torque overload

Supplier Partners

BDI has teamed with leading manufacturing partners to provide an extensive product offering that supports traditional and innovative technologies.

Our core manufacturer partners include (but are not limited to) the following:

- Ameriloc
- Browning
- ContiTech
- Dayco
- Dichtomatik
- Dow Corning
- Fafnir
- FAG / INA / Barden
- Garlock
- Gates
- Honeywell
- Koyo
- Lubriplate
- NSK
- NTN
- Schaeffler
- Simatec
- SKF
- Svendborg
- Timken

SERVICES

- Cost Savings
- Engineering
- Inventory Analysis
- Inventory Management
- Lubrication Survey
- OEM Interchange
- Repair
- Share the Spare
- Standardization

24-HOUR RUSH SERVICE

Whether provided by your local BDI branch location or by BDI's Distribution Center, we are available 24 hours a day to keep your operation running in emergency situations.

Sealing Solutions & Retaining Rings

- Wind Turbine Main Shafts
- Extended Service Life
- Reduced Maintenance Costs
- Increased Reliability
- Reduced Contaminant-Related Bearing Failures

Hydraulics & Pneumatics

- Pumps
- Hose
- Fittings
- Filtration

Lubrication Systems

- Threaded Connections
- Prevent Corrosion
- Brakes
- Component Bonding & Sealing
- Aiding Assembly
- Single-point Lubricators

Condition Monitoring Systems

- Integrate all machine condition data into a common platform
- Share data seamlessly
- Avoid long learning curves and software platform compatibility issues
- Replicate your success at other locations

Wind Energy Has Arrived

It's no wonder that wind is the fastest growing energy segment in the United States today. In addition to having the lowest environmental impact of any source of electricity generation, wind is cost effective and represents a sustainable, domestic energy source.

Wind energy is no longer the future; it is the here and now. BDI's Wind Energy Team is knowledgeable and ready to deliver the products and solutions you require to succeed.

WIND
TURBINE
DESIGN

BDIExpress.com

REPAIR SERVICES

Repair Capabilities

The operational challenges for wind turbines cannot be overestimated. Continuously changing weather conditions, heavy loads, remote locations and limited accessibility are just a few. Working with our supplier partners, BDI is fully equipped to keep your operation up and running.

Our Services Can:

- Increase turbine reliability
- Reduce turbine maintenance demands
- Simplify maintenance procedures
- Reduce downtime and lost productivity

Bearing

Wear-resistant and case-carburized bearings can help improve uptime and operational efficiencies while lowering total operating and maintenance costs.

- Reduce shear stresses on raceways
- Help inhibit crack initiation and propagation
- Polish away the raised edges around the debris craters helping negate the fatigue-life-reducing mechanism.

Gearbox

Critical gearbox repair services for all sizes, makes and brands. This service provides a cost-effective solution when factoring in the value of preventative maintenance versus the cost of downtime.

Additional Repair Services

- Drivetrain
- Generator
- Rotor Hub
- Mechanical Brake
- Rotor Blades
- Yaw System
- Support and Housing
- Hydraulic System
- Sensors
- Electrical System Parts
- Electrical Control

Supporting Categories

Lubrication

The automatic single-point lubricator comes in four different sizes and services all possible types of lubricating points, 24 hours a day .

Safety

BDI provides a full line of safety solutions that keep you connected and protected on any site location, no matter the height challenges involved.

Success Made Easier

BDI is a full line distributor for Bearings, Mechanical and Electrical Power Transmission, Fluid Power, Sealing/Retaining/Lock Devices, Industrial Hose and Fittings, Conveyor Belting, Linear Motion and related industrial products.

Branches are located throughout the USA, Canada, Mexico, Europe and Asia.

For more information on BDI's Wind Energy capabilities, please contact us.

More Than Bearings

TOOLS

LUBRICANTS

ELECTRIC MOTORS

SAFETY

FLUID POWER

GEAR REDUCERS

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