



DELLNER BUBENZER

DELLNER HYDRATECH

LEADING THE WORLD
IN BRAKING AND HYDRAULIC SYSTEM
DESIGN AND MANUFACTURING

**DELLNER
BUBENZER**



www.dellnerbubenzler.com

**DELLNER
HYDRATECH**



www.dellnerhydratech.com



DELLNER BUBENZER
DELLNER HYDRATECH

WELCOME TO DELLNER WIND SOLUTIONS

DELLNER is a global leader in the design and manufacture of braking and hydraulic systems for wind turbines, with a wide range of sustainable products and green energy wind solutions. From sea to sky and everything in between, DELLNER's industry-leading braking and hydraulic systems are essential for the safe, energy-efficient, and sustainable operation of wind turbines.

DELLNER has been recognized worldwide for decades as an innovative manufacturer of hydraulic and fluid cooling braking solutions. Our commitment to precision engineering with the highest-quality standards remains the same as a provider of OEM-supplied rotor, yaw and pitch solutions for the wind energy industry.

GLOBAL STRENGTH, LOCAL COMMITMENT

Our global team of experts instill trust in our customers, develop and innovate with the latest technology, and provide strength in our product and personalized service.

Anchored by integrity and committed to sustaining our industry-leading product offering, our diverse community of extremely talented people around the world are committed to serving local customers.

The performance of our wind products and the satisfaction of our customers is our priority. We achieve this with ongoing and consistent instruction and training in the latest technology within state-of-the-art training facilities.

DELLNER has tremendous pride in a history of long-term satisfied customers who trust our commitment to excellence and recognize the value of our investment in our **Worldwide Service Network.**



PREVENTATIVE SERVICE

INSPECTION &
MAINTENANCE

REPAIRS

TRAINING



REACTIVE SERVICE

TECHNICIANS
ON CALL

24/7 TECHNICAL
SUPPORT

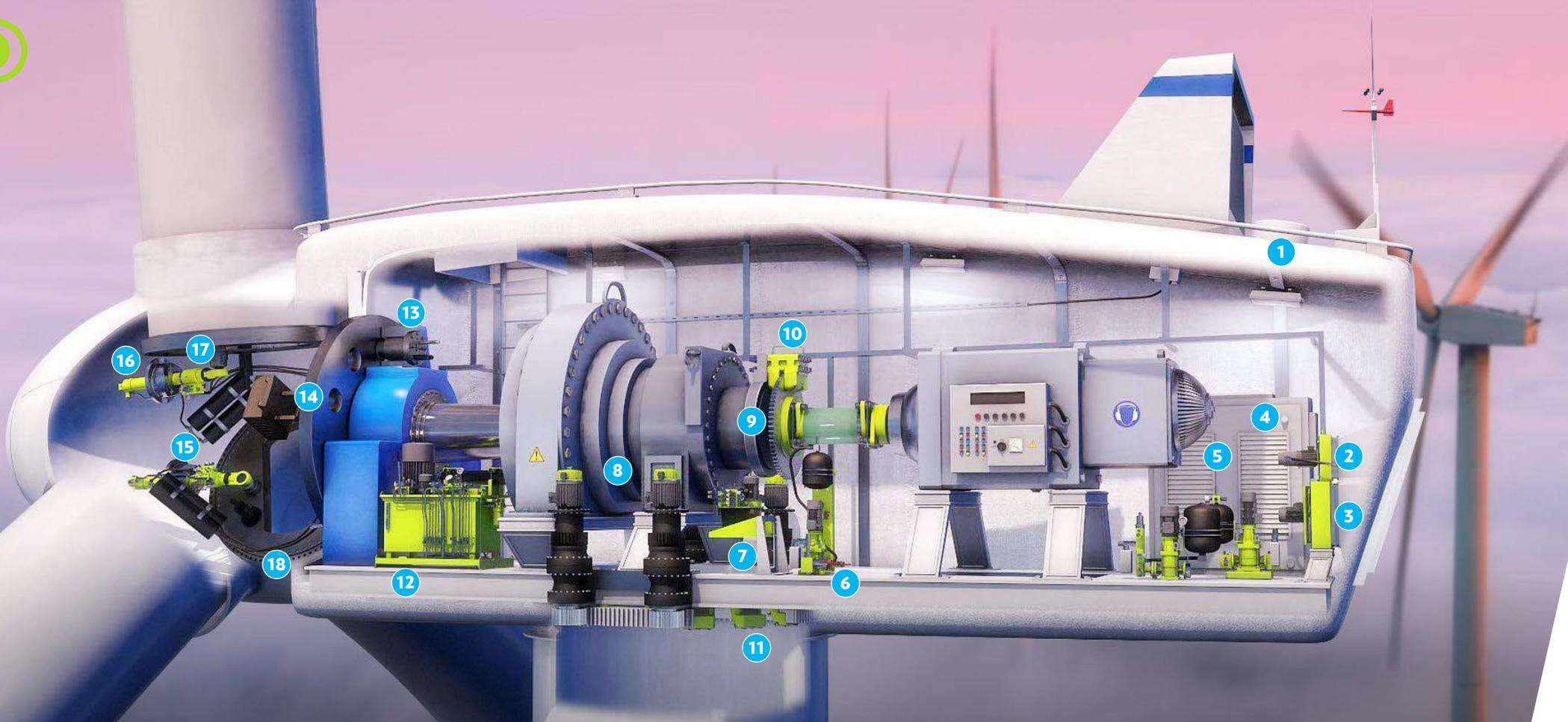


LIFE CYCLE MANAGEMENT

CUSTOMIZED
SERVICE CONTRACTS

RETROFITTING

ORIGINAL
SPARE PARTS



PRECISION ENGINEERED

BRAKING AND HYDRAULIC SYSTEMS DESIGNED FOR THE MOST DEMANDING ONSHORE AND OFFSHORE WIND APPLICATIONS.



1

Passive Cooler



2

Active Oil Cooler



3

Active Water Cooler



4

Pump Unit for Converter Cooling



5

Pump Unit for Generator Cooling



6

Pump Unit for Gearbox Cooling



7

Brake System (HPU)
Hydraulic Power Unit



8

Motor Mounted
Yaw Brake



9

Flexible
Coupling



10

Rotor Brake
(Active & Passive)



11

Yaw Brake/Sliding Bearings
(Active & Passive)



12

Pitch System (HPU)
Hydraulic Power Unit



13

Rotor Lock
(Manual & Hydraulic)



14

Distributor
Manifold



15

Accumulator
Assembly



16

Pitch Cylinder
Assemblies



17

Pitch
Manifold



18

Pitch - Blade
Lock Device



THE HIGHEST STANDARDS FOR MAXIMUM PERFORMANCE

As part of DELLNER's commitment to meet the highest standards of safety, performance, and energy efficiency, our products are rigorously tested.

Our product standards exceed the criteria of the Association for Iron & Steel Technology (AIST) and the rigid requirements of Deutsches Institut für Normung e.V. (DIN). With a wide range of high capacity and high-performance disc and drum brakes designed to operate in severe duty applications, our research, development, and testing center continuously validates our product performance, sustainability and integrity. Our quality standards produce the best wind products and services to help our clients achieve their sustainability goals.

Our commitment to research, development, and testing are the foundation to DELLNER's reputation as the trusted global leader in the design and manufacture of braking and hydraulic systems for wind turbines.



ENGINEERING

- ▶ DELLNER's trusted team of expert engineers rely on decades of experience to deliver superior products and braking systems for a multitude of industry-specific applications.
- ▶ From full braking system design to the development of fully engineered hydraulic systems, DELLNER's engineers offer a full suite of services including 3D conceptualization, technical documentation, customized testing, and development of prototypes.



SYSTEM DESIGN

- ▶ DELLNER's provides turn-key solutions for complete braking system design for static and dynamic applications.
- ▶ Upon review of input data, our engineers and product specialists evaluate system requirements, determine quantity, size and distribution of system components, perform 3D modeling for system design and/or adjustments, and deliver a complete global FEM model to ensure proper load management and system performance.
- ▶ Research and development for the most stringent hydraulic solutions.



CLIMATE TESTING

- ▶ All products designed and manufactured by DELLNER endures in-depth climate and pressure performance testing to satisfy a stringent set of requirements for optimal performance, durability and safety.
- ▶ DELLNER conducts performance testing on one of the industry's largest test benches to ensure each product is prepared to meet the most stringent environmental extremes in both onshore & offshore climates and exceed all typhoon/hurricane ratings.



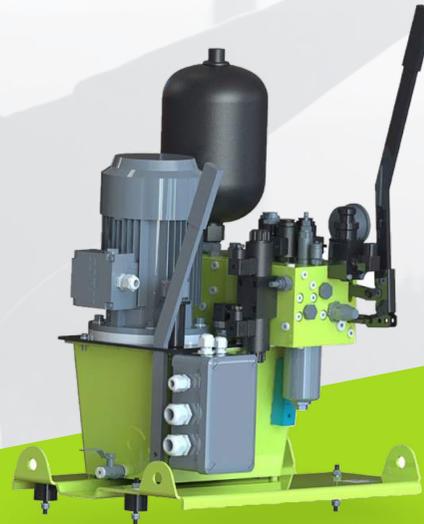
INNOVATION BY DESIGN

DELLNER's preeminence stems from decades of experience, subject-matter expertise, perpetual innovation, production with safety in mind, and the highest quality standards of product and service.

As no single project or customer is the same, we deliver turnkey solutions with a customized approach and support.



KFB 40
MOTOR MOUNTED BRAKES



BRAKE SYSTEM
HYDRAULIC POWER UNIT



PITCH SYSTEM
HYDRAULIC POWER UNIT



PITCH CYLINDER
ASSEMBLY



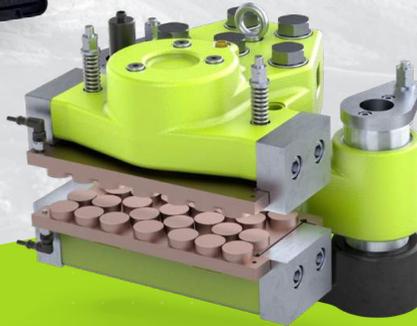
B7279/B7273
OFFLINE FILTRATION UNIT



B6011
TOOL KIT



B6865
NITROGEN PRECHARGE KIT



JHS 32
WIND TURBINE BRAKES



JHS R240
LOCKING DEVICES



JHS-PC 3X65
SLIDING BEARINGS



JHS WTC
WIND TURBINE COUPLINGS

SFRA 8
WIND TURBINE BRAKES

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BRAKE PADS
• SINTERED
• ORGANIC
• RESIN
• COMPOSITE



JHS-YBP-1X80
PASSIVE YAW BRAKE



PISTON & PUCK
DISASSEMBLY TOOL



YAW BRAKE
REMOVAL & LIFTING TOOL



DELLNER BUBENZER / DELLNER HYDRATECH



WORLDWIDE SERVICE NETWORK



When you invest in a DELLNER product solution, you also enter into a strong partnership: one that delivers first-class service, fast reaction times, highly qualified personnel and minimal downtime through the readily available resources of our **Worldwide Service Network**.

Our **Worldwide Service Network** is second to none. We have service centers located all over the world so we can quickly and easily respond to any of your needs. We also have a team of highly qualified engineers who are expert product technicians.



DELLNER BUBENZER
USA INC

DELLNER HYDRATECH
USA

DELLNER BUBENZER
Italy S.R.L.

DELLNER BUBENZER
Benelux B.V

DELLNER BUBENZER
Germany Wind GmbH

DELLNER BUBENZER
Germany GmbH

DELLNER BUBENZER
Poland SP. Z.O.O.

DELLNER HYDRATECH
CZE Ltd

DELLNER HYDRATECH
Group AS

DELLNER BUBENZER
AB

DELLNER BUBENZER
India Private Limited

DELLNER HYDRATECH
India Pvt

DELLNER BUBENZER
Wind Beijing Co. Ltd

DELLNER BUBENZER
Brakes Shenyang Ltd. Shanghai Branch

DELLNER HYDRATECH
China Ltd.

DELLNER BUBENZER
Brakes Shenyang Ltd

DELLNER BUBENZER
Middle East FZE

DELLNER BUBENZER
Singapore Pte. Ltd

DELLNER BUBENZER
Malaysia Sdn Bhd

DELLNER BUBENZER
Brasil Ltda



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A LOCATION
NEAREST YOU**



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