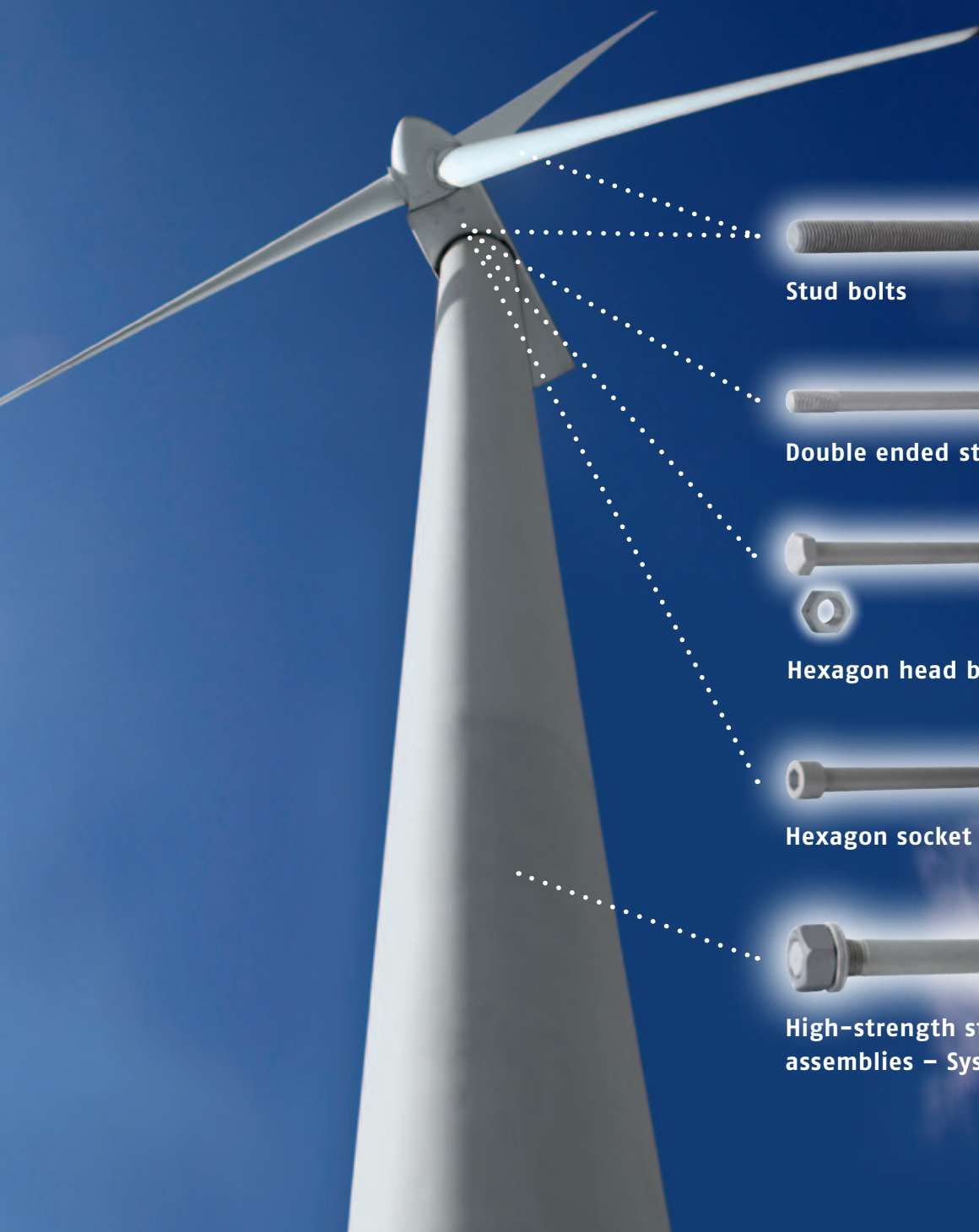


# FASTENERS WIND ENERGY



Stud bolts



Double ended stud bolts



Hexagon head bolts/Hexagon nuts



Hexagon socket head cap screws



High-strength structural bolting assemblies – System HV





# Wind energy, a sector in motion

Wind energy plays an important role in our energy supplies worldwide. Worldwide wind energy is being continually extended, including a focus on repowering old facilities and building new off-shore wind parks. Wind energy plants make high demands on fasteners. These products are decisive for operational safety and are in use in all areas of the structure, for example in

rotor blades, nacelle and tower. When erecting and maintaining wind turbines absolute safety is paramount: Within the framework of the usual tight time schedule quality products required for each construction stage must be assembled in the correct order under difficult conditions.

## REYHER – has over 30 years experience in wind energy

With over 125 years' experience, REYHER is one of Europe's leading distributors of fasteners and fixing technology in Europe, supplying customers worldwide. From the very beginning we are your partner in the wind energy sector providing plant manufacturers and their suppliers with fasteners, direct from stock, in all types, i.a. hot dip galvanized and zinc flake coating.

At REYHER we have a department dedicated to catering for the needs of the wind energy sector. Our customers value our technical expertise, our logistics skills and very extensive experience. In addition they receive all services to enable them to structure and plan their sourcing processes efficiently and reliably.





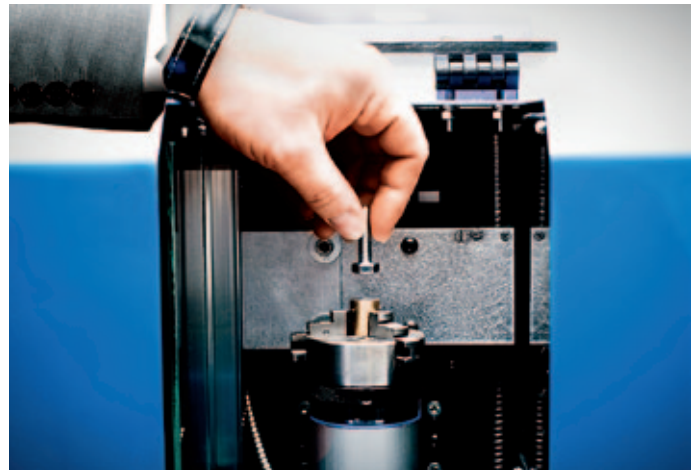
## ■ Technical Competence

REM – REYHER Engineering Management deals with all technical matters and details involving fasteners and fixing technology. Through continuous in-service training our staff keep their all-round technical knowledge up to the latest standards. In the wind energy sector technical demands are an everyday reality for fasteners. Experienced engineers and technicians in our REM Team are always on hand to consult our customers.



## ■ Reliable Quality

High safety aspects and extreme stresses on fasteners in the wind energy sector demand quality. REYHER chooses suppliers using stringent quality criteria. In addition we inspect in-coming products once again in-house using cutting-edge methods and technology. With us you get continual reliable quality.



## ■ Just-in-time delivery

For seamless assembly of wind energy plants, products and delivery times must be precisely coordinated. REYHER's fully-automated logistics warehouse is geared to just-in-time deliveries to our customers. Modern shuttle systems control goods storage and order picking. In addition, short delivery lead times and our reliable despatch system ensures planning certainty for our customers.



## ■ Flexible Kanban supply systems

Using ROM – REYHER Order Management provides our customers with the highest supply and process reliability. Combinable modules, RFID technology, barcode systems, flexible labelling and modern data transfer systems make up our all-round carefree package for seamless materials sourcing. Reliable, precise and flexible made to meet individual customer needs.





## ■ Compiling sets and assembly kits

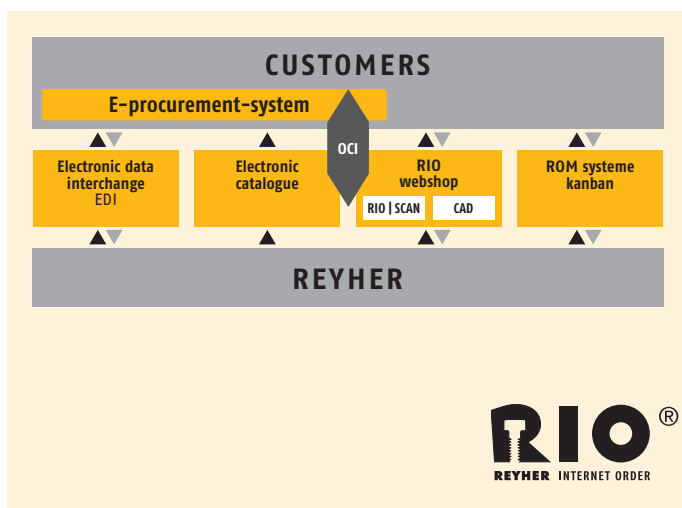
Assembling fasteners in wind energy plants is a real challenge carried out under extreme conditions. To make work on the tower, rotor blades, in the nacelle or assembling components easier, REYHER picks fasteners especially to meet individual customer needs. Sets and

complex assembly kits are compiled according to needs, in exactly the right order for installation and delivered, if required, directly to the construction site. REYHER saves time making assembly of wind energy plants more efficient.



## ■ Comprehensive e-business solutions

Whether data transfer via EDI (Electronic Data Interchange), RIO Webshop – REYHER Internet Order, requirement analysis using barcodes or the electronic catalogue, we offer a comprehensive service. Together with you we compile optimum ordering processes. REYHER e-business solutions simplify procurement and speed up the ordering process. Automatic data processing also reduces manual checking, data quality will be improved, and errors avoided.



## REYHER – Your partner in the wind energy sector

- ▶ **Technical consulting**
- ▶ **Reliable quality**
- ▶ **Wind energy products in stock**  
(i.a. hot dip galvanized/zinc flake coating)
- ▶ **Just-in-time delivery**
- ▶ **Compiling sets and assembly kits**
- ▶ **Comprehensive e-business solutions**
- ▶ **Flexible Kanban systems**



Extract from our product range

■ **High-strength structural bolting assemblies – System HV**  
**EN 14399-4 and/or DAST guideline 021**

**Application:**  
Tower construction, Transport frame



■ **Double ended stud bolts**

**Application:**  
Rotor blades, nacelle, hub



■ **Hexagon head bolts**  
**ISO 4014/4017**

**Application:**  
Nacelle



■ **Stud bolts**  
**DIN 976-1**

**Application:**  
Rotor blades, nacelle, hub



■ **Hexagon nuts**  
**ISO 4032**

**Application:**  
Nacelle



■ **Hexagon socket head cap screws**  
**ISO 4762**

**Application:**  
Nacelle





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