



Pushing Performance

HARTING Wind Energy



People | Power | Partnership

New Thinking creating Wind Energy Innovations

HARTING has turned “New Thinking” into a business strategy. With “New Thinking”, **HARTING** Connectivity & Networks is generating solutions from the harmonious triad of Installation Technology, Device Connectivity and Automation IT – for all the lifelines on which automation depends: Data – Signal – Power.

Harmonious, tailored solutions generating customer benefits can only be created when device interfaces, device installation and networks are seamlessly aligned with one another.

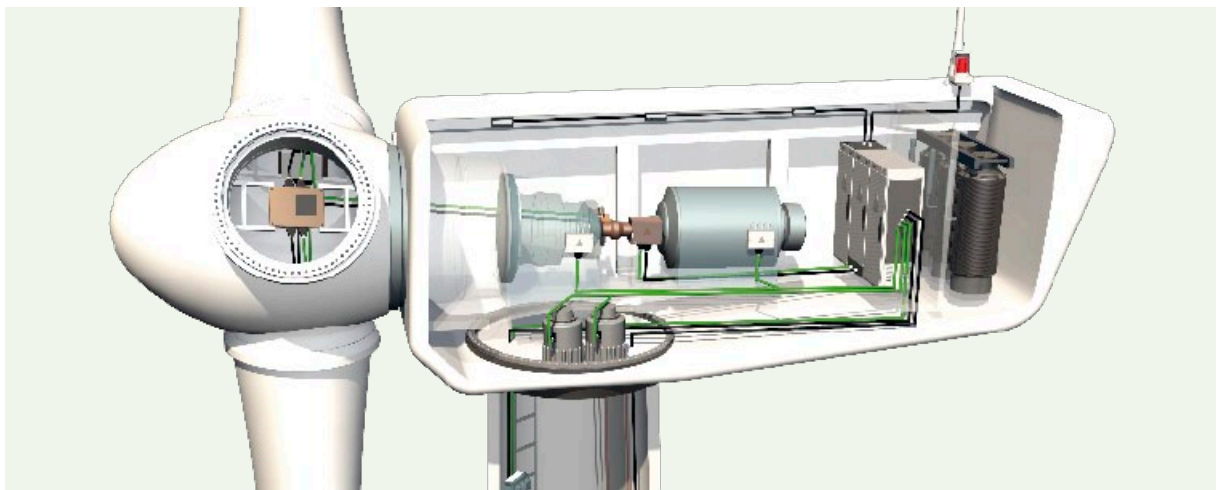
In this context, **HARTING** is bringing specific innovations to the wind energy sector that are upgraded through the

provision of services to create complex sub-systems such as slip ring coupling or ready-made cable sets, as well as fielding active and passive network components – all perfectly adapted to the given applications.



Competence to create complex sub-systems

For decades now, HARTING has been involved with a large number of companies in the wind energy sector as a preferential system partner. HARTING is well-known for its tailored customer solutions for signal, data and power transmission in wind energy plants. HARTING not only works with manufacturers of wind energy plants, but also incorporates comprehensive service offerings along the entire supply chain.



A range of different components - generators, gear mechanisms, contact rings and pitch control systems – all work together in a wind energy plant. The interplay of these components is managed centrally from the electrical control cabinet located in the housing. **HARTING** delivers products and services to ensure that these components are electrically connected in a safe manner and guarantee data communication between them.

Increasing volumes of manufactured parts and the trend towards modular plant construction have led to high demand for system solutions. **HARTING** has specialized in this area in recent years, developing tailored solutions with its customers, and has established itself firmly as a development partner to many companies in the wind energy sector.

As wind energy plants are designed to last at least 20 years, quality and reliability are strong requirements for all components. **HARTING** products are manufactured to global technical quality standards and strict environmental safety requirements. Both established technical standards and specific individual customer requirements can be tested in our accredited in-house laboratory to ensure safe functioning over the long term.



Han-Eco®
Plastic hoods and housings
for fast and tool less assembling
of the Han-Modular®
System



Han® HPR
Connector for harsh envi-
ronments inside and outside
offshore wind turbines





LED light with HARAX® termination technology

Robust light solution with LED technology for optimized illumination in the nacelle and the tower. Together with the HARAX® termination technology a fast and easy assembly in the field is possible.



Han® EMC

High quality protection of the data signal against electromagnetic influence



Han® Q 5/0 Quick Lock

Fast and tool less assembly of the wires to the connectors



Pitch-Control-System with Han-Modular® *1

Flexible interfaces to combine different signals and power cables into one connector



RFID UHF Transponder

Components for the manufacturing, maintenance and service of the wind turbines



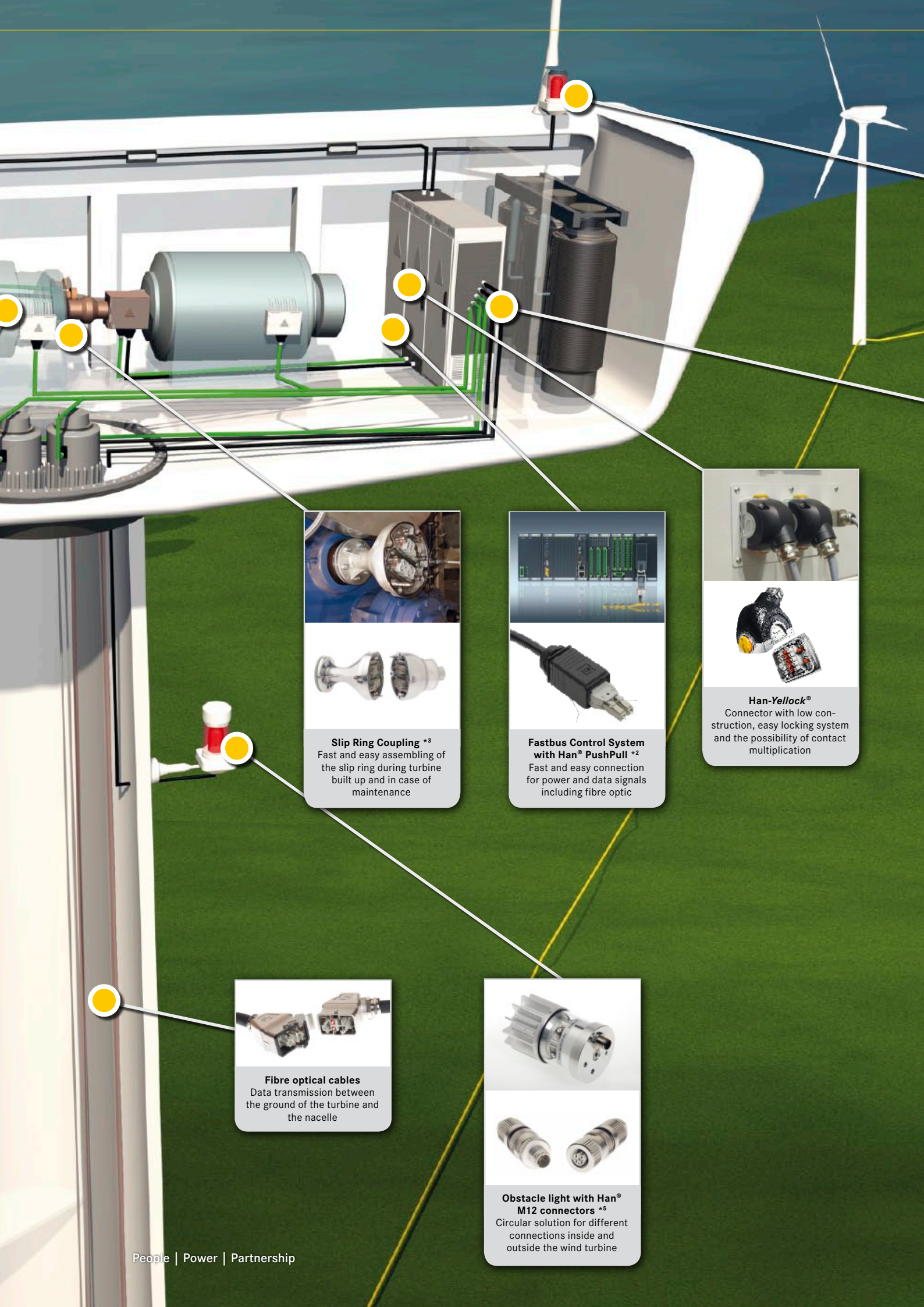
Terminal Box

System solution with stainless steel box, connectors and cable assembly provided by HARTING



RFID UHF Transponder

flat construction to integrate inside concrete towers



Slip Ring Coupling *3
Fast and easy assembling of the slip ring during turbine built up and in case of maintenance



Fastbus Control System with Han PushPull *2
Fast and easy connection for power and data signals including fibre optic



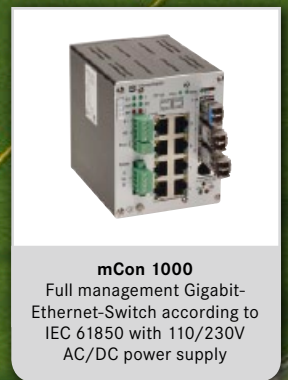
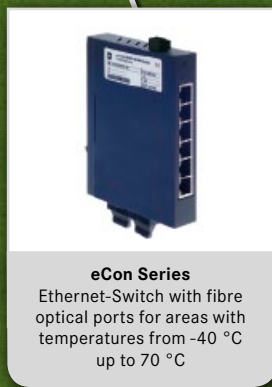
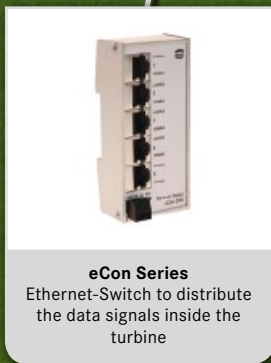
Han-Yellock[®]
Connector with low construction, easy locking system and the possibility of contact multiplication



Fibre optical cables
Data transmission between the ground of the turbine and the nacelle



Obstacle light with Han M12 connectors *5
Circular solution for different connections inside and outside the wind turbine





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