



P R E S S releases

HUSUM WindEnergy 2012

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KARL STORZ Industrial Endoscopy - supporting your success!

Do you want innovation?

Then KARL STORZ is the right company for you – at this year's HUSUM WindEnergy 2012, we once more present several new, highly innovative products. With this press kit, we would like to give you an overview of the newest KARL STORZ products for the wind energy sector. We would also be happy to present these products to you personally.

Discover a new world of industrial endoscopy!

You will find us in **Hall 2, at Booth 2G01**

We are looking forward to your visit!

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Documentation from KARL STORZ – portable or stationary

- PORTABLE PACK *DIGITAL*
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We would be glad to provide you with more information. Please contact:

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Company profile

We support your success!

Innovative – 365 days a year

The KARL STORZ company – a manufacturer of endoscopes, instruments, devices, and system solutions – was founded in 1945, and in the subsequent years and decades, the company achieved technological milestones that have greatly impacted the development of endoscopy.

The company founder, Dr. med. h. c. Karl Storz, quickly realized that the medical technology solutions he had developed for examining hard-to-reach body cavities could also be used for industrial inspections. The first industrial endoscopes were produced in the 1970s, and they have been steadily and successfully advanced ever since that time.

To optimally meet customers' rapidly growing and increasingly challenging product demands, the Technical Endoscopy department was founded in the 1980s. A separate line of endoscopes, light sources, and documentation units specifically tailored to the needs of industrial endoscopy was created and very well received on the market.

Since 1998, Technical Endoscopy has had a greater international focus, and this development was highlighted by renaming the division "KARL STORZ Industrial Group." The Industrial Group has continuously grown since that time, and it currently includes eight global production sites and four service centers (in Germany, Switzerland, USA, and India) that specialize in industrial endoscopy and focus on the repair of industrial endoscopy products. A specialized sales team offers comprehensive advice and assistance to customers from all industries in over 100 countries. The combination of innovative products and comprehensive service will continue to characterize the future development of the Industrial Group. At this year's HUSUM WindEnergy, for instance, we will once again introduce a number of new systems and products.

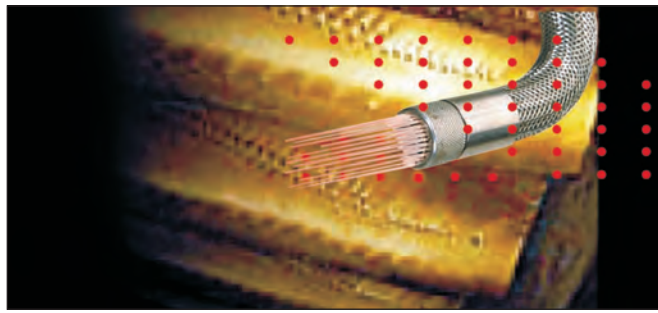
KARL STORZ is an expert partner for wind farm operators since we offer portable and robust systems for inspection, documentation, and measurement. In collaboration with the Training Centre for Renewable Energy (BZEE) in Husum, KARL STORZ has committed to the future-oriented and needs-based education and training of specialist staff, and the company offers customers individualized solutions for the maintenance, service, and inspection of wind power plants.

In the following, we would like to present some of our outstanding products to you.



KARL STORZ MULTIPOINT measuring system – intuitive and precise

Combining KARL STORZ expertise and product quality, the MULTIPOINT measuring system is one of the smallest, most efficient, and compact systems on the market. In combination with the TECHNO PACK® Xe, all videoscopes with MULTIPOINT measuring system technology permit a novel, rapid, and precise form of endoscopic measuring. One of the key advantages of the MULTIPOINT measuring system is its dual function – visual inspection and measuring in a single system. It features user-friendly handling and accurate measurement of any surface from any angle.



The system facilitates rapid and precise work, especially in maintenance and repair as well as in the analysis and documentation of warranty claims. The generated high-contrast image is sharp and bright and can be easily documented and viewed in full size on large monitors.





TECHNO PACK® Xe in combination with our measuring videoscopes

In combination with our high-quality measuring videoscopes, our measuring and documentation unit TECHNO PACK® Xe allows optimal measuring accuracy on any surface and from any starting position of the videoscope.

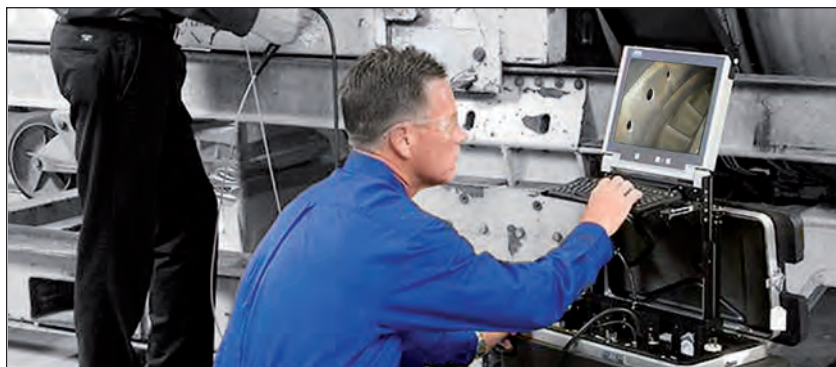
The MULTIPOINT measuring system is fast and easy to operate. Thanks to the "See-and-Measure" function, no lens exchange is necessary after the site to be measured has been detected. The targeted site is marked with 49 laser points and can be measured immediately.

Ready by the push of a button, no lens exchange, no interchangeable attachments: Simply switch on, "freeze" live image, and measure – there is no faster way!



Additional outstanding features of the Techno Pack® Xe:

- Maximum mobility with case and table-top versions for use in the field or in-house
- Compatibility with all rigid and flexible endoscopes from KARL STORZ
- 100% screen resolution of the measured image
- No storage-related quality loss
- User friendly
- Data processing through software project management





Measuring videoscopes – versatile with outstanding image display

Our videoscopes feature:

- CLICK4MOVE™ one-hand operation
- Four-way deflection
- Double safety thread
- Robust and wear-resistant tungsten braiding

Thanks to cutting-edge CCD technology in conjunction with the outstanding KARL STORZ lens systems, KARL STORZ videoscopes offer crystal clear, true-color imaging – a decisive advantage for measuring. Images as well as multi-hour video sequences can be recorded with KARL STORZ videoscopes and then stored on a data carrier with the aid of our measuring and documentation system TECHNO PACK® Xe. The resulting measured image may be used to measure heights, distances, and areas. In addition, the measured images can be edited at any time by inserting text, colored markings, etc.





New ultra-thin 4mm videoscope with Click4Move™ technology

- Extremely flexible
- Optimal image quality
- Works with TECHNO PACK® T and Portable Pack *DIGITAL*



The newest generation of KARL STORZ videoscopes combines proven quality and a series of innovative new technologies to create one extraordinary device.

The videoscope meets the high KARL STORZ quality standards and is optimally suited for heavy-duty industrial use. It is water-proof, dust-proof, and impact-proof and features an outer sheath made of extremely durable tungsten braiding. The short, flexible tip that can be deflected by 140° in four directions enables the thorough inspection even of hard-to-view spaces and provides the user with extraordinarily bright and sharp images for unexpected insights into the inspected components. The videoscope is available with a sheath length of 2 m or 3 m, as needed.



The completely redesigned handle with CLICK4MOVE™ technology ensures easy and ergonomic operation. CLICK4MOVE™ is a patented, novel deflection mechanism that has been specifically developed for high performance endoscopes such as the 4.2 mm videoscope. This novel technology combines the proven, precise KARL STORZ deflection with a much improved control mechanism that enables the one-handed operation of deflection, measurement, and storage functions.

To prevent damage to the outer sheath, we implemented a direct deflection of the tip without use of a motor, so that users can "feel" obstacles. The Home position facilitates easy and fast withdrawal of the sheath from the inspected object. The new handle is equally convenient for left-handed and right-handed users. Like all KARL STORZ products, the videoscope is compatible with the entire KARL STORZ product range (plug-and-play function).





Documentation from KARL STORZ, portable or stationary

PORTABLE PACK *DIGITAL*

- High-quality images for perfect documentation
- Impact-proof and splash-proof housing for mobile field work
- Portable thanks to low weight and battery operation
- Battery life of 90-120 min

With its intuitive and user-friendly touch screen operation and its compact design, the PORTABLE PACK *DIGITAL* is ideally suited for the service and maintenance of wind power plants. The documentation unit supplies high-resolution images and videos for reliable analysis and is versatile thanks to its practical carrying strap and compact design.

With our worldwide service, we are happy to support you onshore and offshore.



The PORTABLE PACK *DIGITAL* is our most portable documentation unit since it runs on battery.

Our measuring and documentation unit TECHNO PACK® Xe and our documentation unit TECHNO PACK® T run on AC power.



**TECHNO PACK® T –
the new KARL STORZ documentation unit**

- Compact and easy to transport
- Large 15" monitor
- Full screen display in top quality

The TECHNO PACK® T combines a monitor and light source with comprehensive documentation options. It features a large 15" monitor and outstanding image quality as well as a practical and modern design. The TECHNO PACK® T is more compact than its predecessor and therefore even easier to transport.



In conjunction with the telescope and camera, an integrated 50 W LED light source ensures outstanding images. All generated images can be easily archived on a USB stick or memory card. If needed, any country-specific keyboard can be connected via one of the six USB ports.

