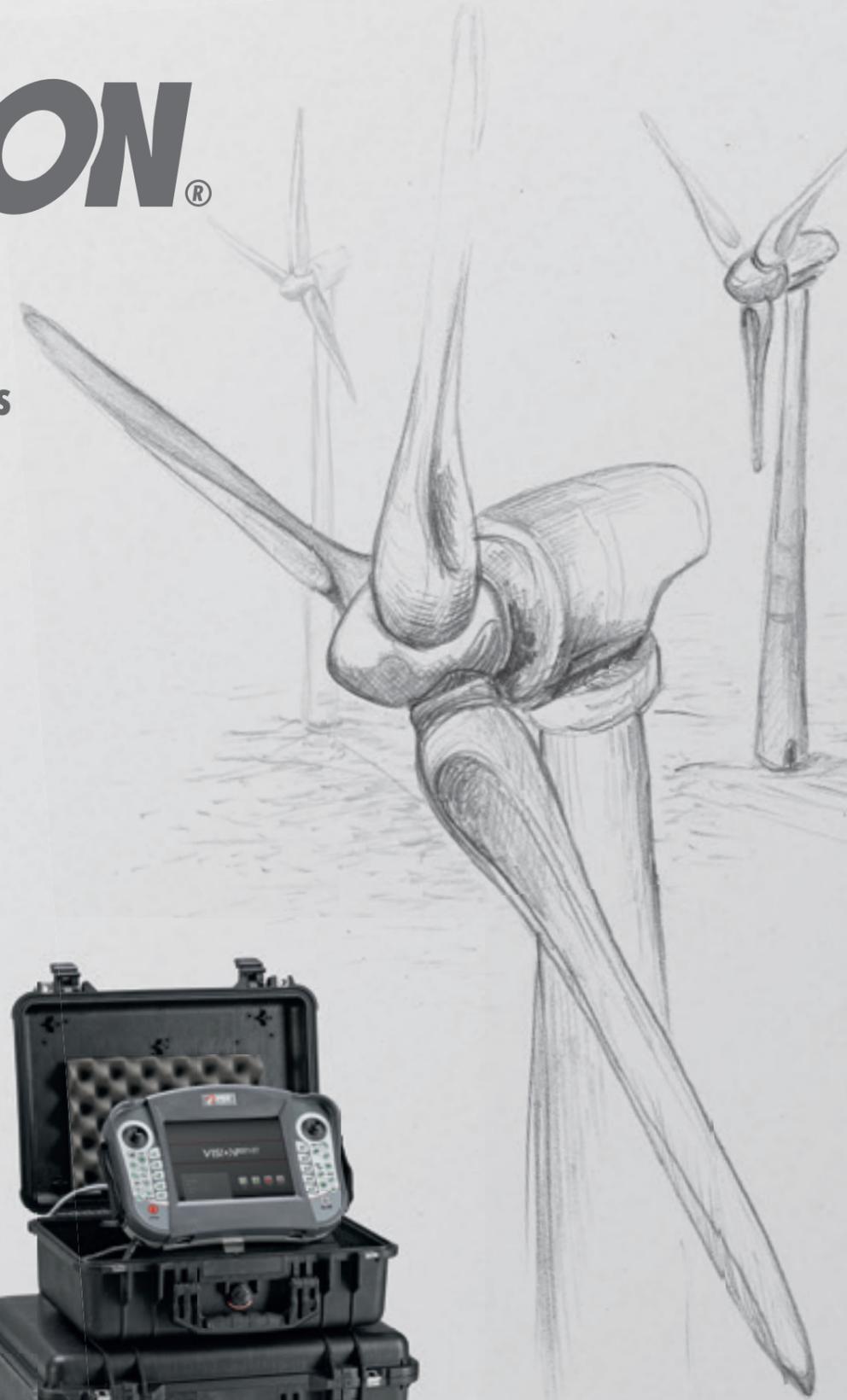


ROVION®

Internal inspection
of wind rotor blades



 **IPEK**

iPEK International GmbH · See, Gewerbepark 22 · 87477 Sulzberg · GERMANY
☎ +49 8376 921 800 📠 +49 8376 921 8021 ✉ isg_info@idexcorp.com 🌐 www.ipek.at

Issue: September 2014 – subject to changes.

 **IPEK**

IDEX
CORPORATION

EMOTIONAL TECHNOLOGY

ROVION® Remote visual inspection.

iPEK's portfolio comprises a large variety of products including push camera systems and crawler inspection systems for all kinds of requirements and manifold application areas. iPEK products are characterized by the highest-level, state-of-the-art camera technology, ergonomic and user-friendly design, innovation, high quality, robustness and reliability. From an entry-level solution up to comprehensive systems: iPEK offers the suitable product for each purpose.

The scalable ROVION® inspection system has successfully completed tests out in the field; it is user-friendly and all components are fully compatible among each other. A large selection of sophisticated accessories enables you to extend your system according to your individual needs and will allow you to master every inspection task without any problem.

Crawler

The versatile and robust crawlers are designed for the most different fields of application.

They convince through their intuitive operability and their elaborated construction, which has continuously been improved over decades in close cooperation with operators and customers. The powerful, steerable six-wheel drive and a comprehensive selection of wheels for different kinds of materials ensure that you are optimally equipped for all surfaces and jobs. Thanks to a roll and pitch sensor the crawler is prevented from tipping over during inspection. The crawler can be equipped with various iPEK cameras and accessories of the ROVION® product line giving you the opportunity to customize the system according to your specific requirements.



RX95

Due to its particular construction the RX95 crawler is particularly suitable for inspections of small areas where space is limited or the access to the inspection point is difficult.



RX130

The versatile and robust RX130 crawler has a powerful drive and offers a wide range of accessories with its optional auxiliary lights, automatic elevator or carrier. The integrated backeye camera offers additional visibility when driving backwards ensuring the smooth bypass of obstacles and thus enabling a fast inspection.

Cameras

iPEK cameras convince with state-of-the-art camera technology, their extremely robust design and the use of highest quality materials ensuring both, best inspection results at any time and a high longevity. Integrated LEDs ensure an optimal illumination and the high picture resolution allows to reliably detect damages and defects of the rotor blade. Integrated lasers enable the measurement of cracks.



PTP70II

The PTP70II pan & tilt head camera features a constantly upright picture, endless rotation and a panning range of -20° up to +110° thus enabling a comprehensive inspection from every viewing angle and in each position.



RCX90

The RCX90 pan & tilt head camera has a 10x optical zoom and additionally a 12x digital zoom camera module. The multiple zoom allows to perform a detailed examination and to obtain a status diagnosis up to the tip of the rotor blade – even in areas which cannot be accessed by the crawler, anymore. The endless rotation range and a panning range of ±135° permit to conduct a comprehensive inspection.

Control panel



VC200

The multi-functional, portable VisionControl control panel allows to carry out inspections according to predefined standards, while the user can freely configure the text generator as desired. Additionally it is possible to record the inspection video or to take pictures. With a daylight viewable 800 x 600 px touch screen display including a virtual keyboard and intuitively operable control elements the VC200 offers everything required for a user-friendly, efficient inspection.

EFFICIENT QUALITY CONTROL



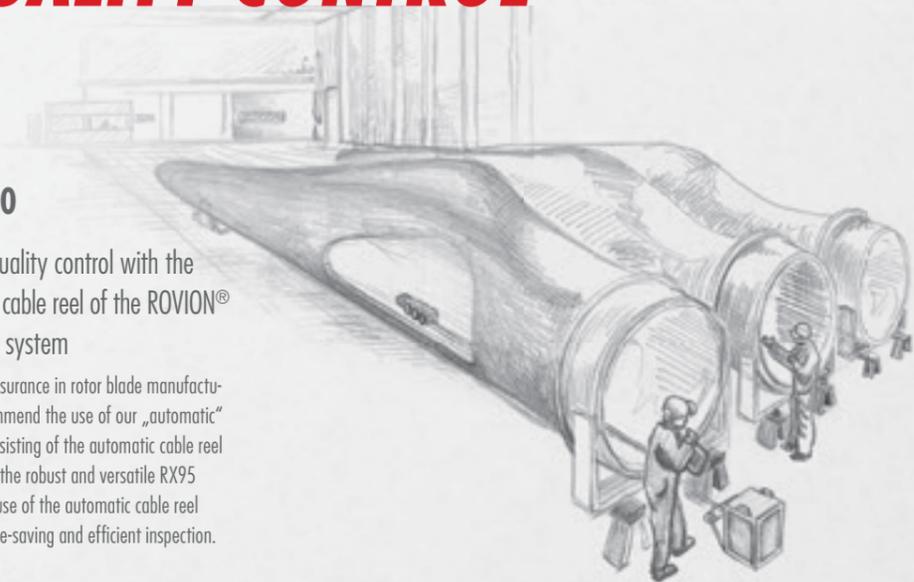
RAX300

Efficient quality control with the automatic cable reel of the ROVION® inspection system

For quality assurance in rotor blade manufacturing we recommend the use of our „automatic“ Wind-SET consisting of the automatic cable reel RAX300 and the robust and versatile RX95 crawler. The use of the automatic cable reel enables a time-saving and efficient inspection.



RAX300 – Automatic cable reel
RX95 – Rovion Crawler
PTP70II – Pan & tilt head camera



COST-EFFECTIVE SERVICE INSPECTION



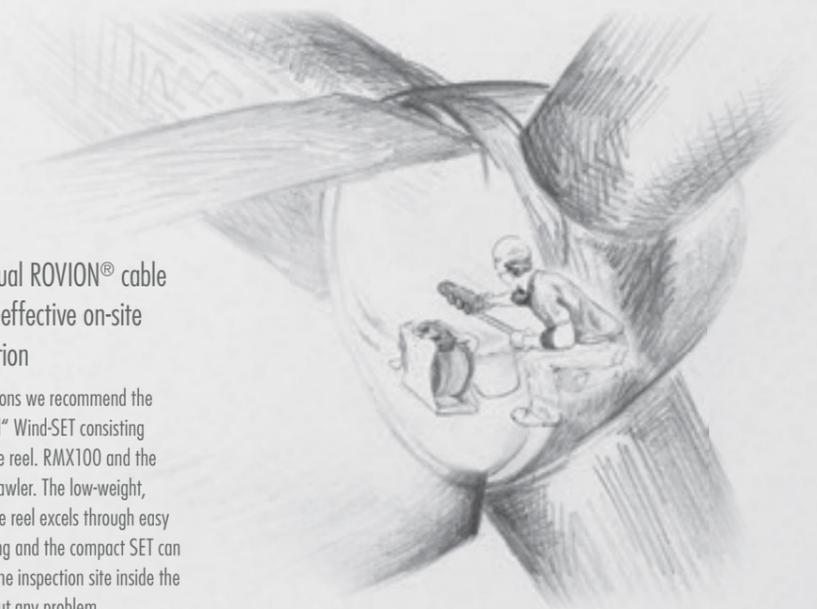
RMX100

Compact manual ROVION® cable reel for a cost-effective on-site service inspection

For service inspections we recommend the use of our „manual“ Wind-SET consisting of the manual cable reel. RMX100 and the powerful RX130 crawler. The low-weight, handy manual cable reel excels through easy and flexible handling and the compact SET can be transported to the inspection site inside the wind turbine without any problem.



RMX100 – Manual cable reel
RX130 – Rovion crawler
RCX90 – Pan & tilt head camera with zoom



For detailed information regarding our products please visit our website at www.ipek.at