

Transform inspection performance  
with Waygate Technologies'

# Krautkrämer ROWA™ Ux

With unparalleled performance and usability, the Krautkrämer ROWA™ Ux ultrasonic phased array inspection system provides high precision and reliability for metal bar inspections.



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a Baker Hughes business

# High uptime, low operation expense

Built on the Krautkrämer legacy of more than 200 installations worldwide, ROWA™ Ux is one of the leading ultrasonic phased array inspection solutions. Thanks to its advanced capabilities, the Krautkrämer ROWA™ Ux is the preferred inspection system of the most renowned bar manufacturers around the globe.

With the new generation of Krautkrämer's premium USIPxs ultrasonic instrument and an enhanced user interface, the Krautkrämer ROWA™ Ux system provides an easy to use

solution for the inspection of cracks or inclusions within the full volume, as well as on the surface of metal bars for the automotive, aerospace and mechanical engineering industries.

The compact footprint allows the system to be integrated into an inspection line, in a space and cost-effective manner. And with the fully automated reference bar manipulator, excellent calibration repeatability can be achieved with minimal operator intervention.





# Inspection efficiency at all levels



## Ease of operation

The fully refreshed software is in accordance with the latest usability standards. Simply follow the workflow process (setup - calibrate - inspect - analyze) to accelerate your setups and make them more consistent.



## Performance capability

The latest generation modular design includes fast optical data transmission and ensures the system's robustness that an industrial environment demands.

The integrated diagnostic features and remote connectivity ease the day to day use of the equipment.



## Meets industry standard

The instrument fully complies with ISO 18563 to meet the upcoming certification requirements of your end customers and guarantees your investment is future proof.



## Low cost of ownership

Krautkrämer ROWA™ Ux features a simplified test mechanics with Phased Array probes mounted to just a solid stainless-steel body.

Without any moving parts or complex swivel mechanisms immersed in polluted water, maintenance efforts are significantly reduced to provide a maximum of uptime at low operation expense.

Exchanging probes can be done by a single operator, without the need of a crane or any special tools, so that the material flow of your plant is not affected.



## Expert support

Our team of field-trained experts will give you the kind of assistance you need, from simple troubleshooting to full application consulting on your new test requirements. You'll have trusted support every step of the way with the 24/7 support from our global and regional support services.



# Technical data

## ROWA™ Ux

Test objects:	<ul style="list-style-type: none"><li>• Metal bars</li></ul>
Test diameter range:	<ul style="list-style-type: none"><li>• Round D 6-260mm</li><li>• Square and hexagonal up to w=50mm</li></ul>
Test speed:	<ul style="list-style-type: none"><li>• Up to 120m/min</li></ul>
Detection capability:	<ul style="list-style-type: none"><li>• Flat bottom hole <math>D \geq 0.7\text{mm}</math></li><li>• Side drilled hole <math>D \geq 0.3\text{mm}</math></li><li>• Surface notch <math>t \geq 0.1\text{mm}</math></li><li>• Untested ends down to 30mm</li><li>• Deviating requirements on requests</li></ul>

## Options

- Pre-wetting and cleaning system
- Reference standard manipulator for fully automated sensitivity adjustment
- Reference standards

## Compliant to quality standards:

- AMS2154, class AA
- NADCAP
- EN ISO 18563-1
- All leading automotive and aero end-user specifications

Contact us to learn more about how we can make our platform work for your needs. You can contact your sales professional, reach out to our customer care team at [uttm.service@bakerhughes.com](mailto:uttm.service@bakerhughes.com) or find contact information specific to your global location at [waygate-tech.com](http://waygate-tech.com).

## USIP|xs Phased Array Instrument

Transmitter:	<ul style="list-style-type: none"><li>• 25 V to 180 V supply voltage adjustable in 5 V steps</li><li>• Max. PRF 20 KHz</li></ul>
Receiver:	<ul style="list-style-type: none"><li>• 0.5 – 15 MHz bandwidth</li><li>• 0 – 96 dB dynamic range per channel</li></ul>
Digitizer:	<ul style="list-style-type: none"><li>• Sampling frequency of 50 MHz</li><li>• Up sampling to 400 MHz</li></ul>
Phased Array capability:	<ul style="list-style-type: none"><li>• 2 parallel phased array probes – supported by 128 elements each – both of which can connect to the instrument for a maximum of 256 elements.</li><li>• Up to 4 parallel apertures, sized from 1 to 32 elements, for each phased array probe</li></ul>

Waygate Technologies, formerly GE Inspection Technologies, is a global leader in NDT solutions with more than 125 years of experience in ensuring quality, safety and productivity.

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