

Powered by
comPAct 



Krautkrämer RotoArray™ comPAct

Next level phased array ultrasonic inspection

- No PA device needed: miniaturized electronics bring PA power to the probe
- Easy connection with a tablet via USB port ensures maximum portability
- Allows ergonomic, efficient and easy-to-use manual inspection

Proven power in the palm of your hand

Traditionally, RotoArray is a portable, manually operated phased array ultrasonic inspection instrument to rapidly scan a wide variety of materials and components – particularly suitable for components made of composite materials. RotoArray provides fast and reliable A, B and C images. It combines the portability of a handheld probe with the power of a full immersion C-scan system. For more than a decade, users have relied on and appreciated its ease of use, flexibility and robustness.

Waygate Technologies has now developed and integrated a disruptive and unique technology into the RotoArray roller probe that redefines phased array inspection and makes it easier and faster for everyone: comPAct.



comPAct 

**The most cost-effective
lightweight PA solution**

The brand new patented technology of comPAct compresses the functionality of PA electronics into a half-thumb-sized chip. The miniaturized instrument electronics enable a 100x reduction in volume and a 20x reduction in power consumption compared to traditional PA instruments, allowing the instruments to be easily powered from a tablet or PC via a USB connection.

Minimal size and light weight offer maximum flexibility for housing PA electronics in a box, directly in a scanner, or even in the PA probe itself. comPAct paves new ways for lighter, simpler and more cost-effective UT phased array applications.

A phased array premiere: powered by comPAct

Krautkrämer RotoArray comPAct is Waygate Technologies' first instrument powered by comPAct. It combines the performance of a complete phased array inspection system in a single probe – at an affordable price. With Krautkrämer RotoArray comPAct, all necessary electronics are integrated directly into the probe, requiring only a USB connection to a tablet, PC or desktop computer to operate the probe and display inspection results. This ensures maximum portability, as operators can carry Krautkrämer RotoArray comPAct in one hand and a tablet in the other, both lightweight and easy to use. An additional, heavy and expensive phased array device is no longer required.



Krautkrämer RotoArray comPAct is designed for easy operation.

Ease of use and connectivity

Krautkrämer RotoArray comPAct is particularly suitable for phased array entry-level users as the proven Mentor UT-based application guides the operator through the entire system set-up, calibration and the manual phased array inspection process. In addition, pre-configured settings can be easily selected from a menu. Customers already familiar with Mentor UT also benefit from accustomed workflows and the ergonomic design of the instrument. With a Wi-Fi or cellular-enabled tablet or PC, users can connect to an available on-site network to share and store inspection data.



Composite testing: inspection results are displayed on the tablet screen. Any Windows-based device can be connected to Krautkrämer RotoArray comPAct.

Inspect with less equipment, less weight and more versatility

Krautkrämer RotoArray comPAct is designed for ergonomic, high-speed large area inspection with improved probability of detection (PoD) for composite materials inspection in the aerospace, space, wind energy and automotive industries as well as in the oil and gas industries. Krautkrämer RotoArray comPAct offers new possibilities for the inspection of wind turbine plates, helicopter blades, aircraft skins and aluminum plates.

The innovative and unique comPAct technology opens up new and versatile application possibilities for operators looking for ultra-portable, ergonomic and easy-to-use solutions they can conveniently take with them anywhere into the field, benefiting from equipment miniaturization, associated weight reduction and lower upfront costs.

Applications

- Composite materials inspection of aerospace structures, wind turbine blades, aluminium blades and aircraft skins
- Detection and sizing of delamination and disbonds
- Thickness measurements, material loss and corrosion mapping
- Detection and quantification of internal porosity



For more information on any of these products please visit

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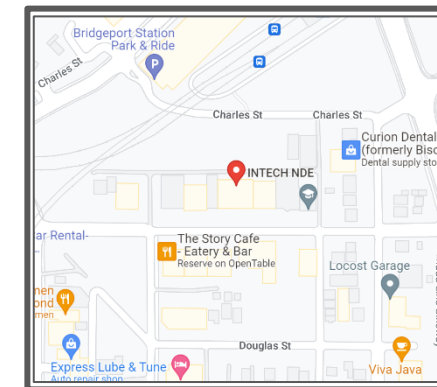
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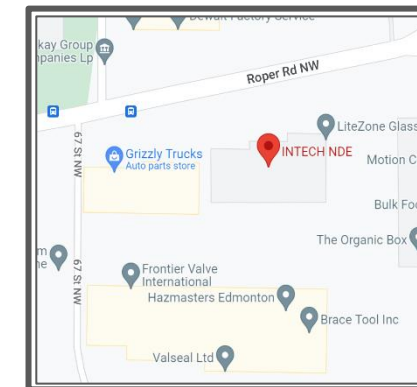
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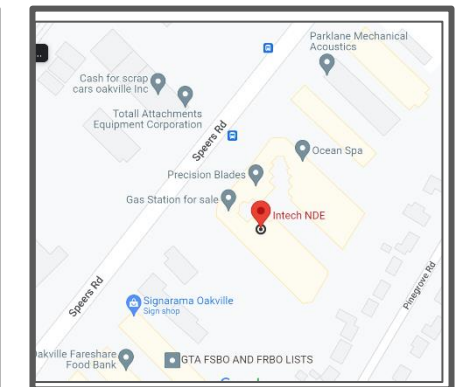
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Technical Specifications

Number of elements	64
Max aperture	32 elements
Pulser voltage	5 – 70 Volts
PRF	50 – 3000 Hz
Frequency range	5 MHz
Gain range	0 - 70 dB
Display range	2 – 490 m m (steel)
Gates	3, 1 for IF-start
Probe connector	USB
Max power consumption	2.5 W
Encoder	1 axis
Operating temperature	0 – 50 °C
Minimum system requirements for Windows-devices	
Windows	10 or 11
Processor	Intel Core i3
Memory	4 GB
Storage	128 GB
Graphical card	Intel UHD or similar

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