



.... *flawless integration from Sonatest!*



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# WheelProbe 2



## Innovation, Flexibility, Performance

# Composite inspection

WP2 allows you to build the most efficient solutions for scanning large areas of composite. As the best alternative to immersion inspection the WP2 offers an impressive 1mm near surface resolution in the latest composite materials using 5MHz array. Available also with 10MHz, 3.5MHz and a 2MHz version, the WP2 closely matches the acoustic impedance of water and like its predecessor, generates UT signals of exceptional quality. The configurable handles, adjustable laser guidance, unique LED's for alarm feedback, remote control with start/stop indexing and reset buttons as well as the remote display makes this package unique, superior and still unequaled.



## Recommended user kit for **composite**



Accurate alignment with laser pointer



Scan edge to edge

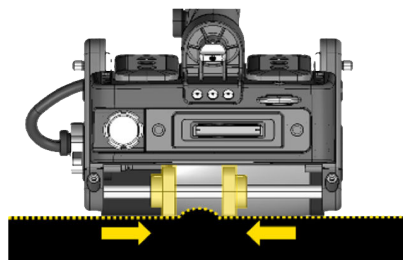
- Wireless remote control to efficiently operate the WP2.
- Flat front roller to scan to edge of part.
- Laser pointer to ensure good scan accuracy on large parts.
- Mini Wi-Fi router to connect a remote display device between the Sonatest VEO or PRISMA and the WP2.
- Remote display holder to monitor scan results of the inspection live during the process and right under the WP2.
- Adjustable screen mount for easy viewing during use.

# Corrosion monitoring

Making complete and reliable surveys to generate corrosion maps is more than a trend; it is required. With the efficiency, performance and precision provided by the WP2, it is now possible to inspect large areas and quickly analyse data to determine if any critical or urgent action is necessary. Moreover, this technique allows the user to compare large amounts of data over time to perform preventative maintenance, reducing potential downtime. With WP2 the level of confidence is significantly increased since decisions can be based on data sets that are 1000 times more detailed, yet still gathered in the same time required to do 'spot check' using traditional methods. Whether for axial or longitudinal inspection using unique grooved rollers, or attached to a scanner, WP2's flexibility is the tool of choice for a fast and accurate corrosion monitoring application.



## Recommended user kit for **corrosion**



Precision rollers



Axial scanning

- Wireless remote control to efficiently operate the WP2.
- Complete set of rollers front and back.
- V rollers enable axial scan along the top of a pipe or any other cylinder shape part with an optimal pressure.
- Precision rollers (light small wheels) make it easy to adapt to irregular surface (weld cap) and steer scan direction on curved parts.
- Flat rollers to scan up to edge of part.
- Adjustable screen mount for easy viewing during use.



# Sonatest's WheelProbe 2 technology

**Simplifies your inspection, enhances your inspection capability, delivers reliable results.**

## **Rugged**

WP2 has been re-designed from the ground up in lightweight aluminium-reinforced polymer. Lighter to reduce operator fatigue, and tougher to give longer service life. This means you can trust it to perform, day after day, even on the most awkward inspection tasks.

## **Productive**

With LED feedback built-in and the optional display attachment, the technician can now focus on obtaining high-quality, consistent UT data. Real-time feedback of alarms gives a great feeling of confidence that the inspection is good, and so is the part.

## **Detachable**

Make the best use of your WP2, and connect it to just about any UT system. With interchangeable cables, you have the best of all worlds. A longer cable? A different connector? These options can be held in stock at very little cost, ready for the jobs as they arrive.

## **Configurable**

With a choice of either a single 'joy-stick' or a crossbar handle, the angle can be adjusted for operator comfort, and with the remote control available for either left or right-handed operation, the ergonomics of this WP2 are unsurpassed.

## **Roller Options**

With the grooved, flat and precision roller options, a few moments effort converts your WP2 from a flat-surface composite inspection tool, to a radial or axial pipe corrosion mapping system. Able to scan right to the edges of the part, convex, concave and even irregular surfaces area are catered for.

## **Laser Guidance**

Keeping your scans on track, the laser pointer option gives a high degree of confidence in the correct registration of the WP2 for multiple pass scans, as well as on longer runs across large surfaces.

## WheelProbe 2 Specifications

Weight	1.06Kg (2.34 lb)
Dimensions H x L x W	125 x 150 x 155 mm (4.9 x 5.9 x 6.1 in)
Operating temperature	10 to 50° C
Centre frequency options	2 MHz, 3.5MHz, 5MHz and 10 MHz $\pm 10\%$
Number of elements	64
Total active length	51.1 mm
Sensitivity homogeneity	$\pm 3$ db



# Build up your specific WheelProbe configuration



Pick up your basic package

1

## Corrosion Package (WP2-Pack1)



- Horizontal handle
- Grooved back roller
- Filling equipment
- Maintenance tools & manual
- Rugged transportation case

## Composite Package (WP2-Pack2)



- Vertical handle
- Flat back roller
- Filling equipment
- Maintenance tools & manual
- Rugged transportation case

Select your probe frequency

2

## 64 elements

## Application

2 MHz

Excellent capabilities for inspection in composite, special steel alloy and other attenuative materials

3.5 MHz

Proven performance in aerospace composite

5 MHz

Optimized solution where signal resolution meets acoustic penetration requirements

10 MHz

Sharp defect sizing and optimal near-surface resolution for un-matched performance

Define your cable options

3

## Standard VEO & Prisma

## Personalized Orders (contact customer service)

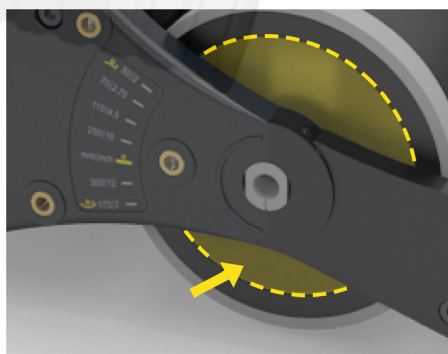
2.5m (WP2-CABLE-101)

Customized cable length

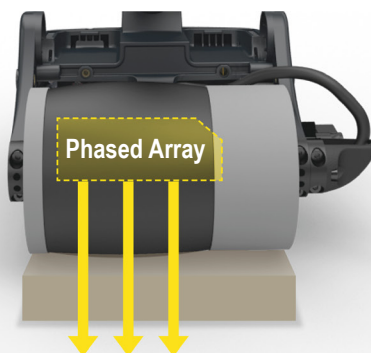
5.0m (WP2-CABLE-111)

PA connector ITT-Cannon, Hypertronics and others...  
Encoder connector: Lemo-15, DB-15 and others...

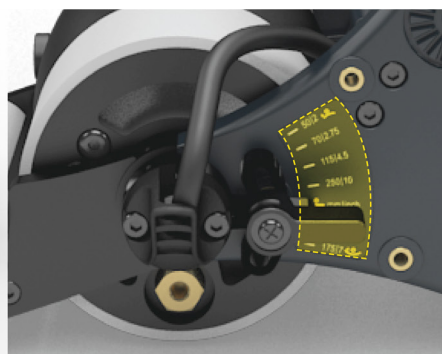
## Special features



New roller design with re-engineered water management including clear side plates for bubble tracking, pressurised pump with needle, unique bubble tap and new purge valve.



Loaded with the best of PA acoustic performances, a large 51.2mm active coverage (64E) and 25mm water path for typical T of 25mm in steel & 50mm in CFRP.



Curvature pointer is a flexible, quick and easy probe adjustment feature to match concave (min 175mm) flat or convex (min 50mm) surfaces.



From the innovators who brought the idea to the market over a decade ago, Sonatest is proud to extend its WheelProbe family by introducing the  
**New Generation WheelProbe 2.**

## Innovation

Wireless control unit  
3 function buttons  
3 status LED's

## Flexibility

Ergonomic handles  
Flat & curved surface  
Detachable cable

## Performance

Light reinforced frame  
Best acoustic on market  
Security hook  
Precision engineered rollers



**1.06 kg**

Lightweight

**1kg**



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**Simplicity**

**Capability**

**Reliability**