

VEESCAN H

EDDY CURRENT WHEEL INSPECTION SYSTEM



“ Our VEESCAN offers our clients the choice of systems for both optimised productivity and value for money or maximum flexibility combined with lowest capital cost. ”

John Hansen, MD



At *ETHER NDE* we understand that the key criteria for any Aircraft Wheel Inspection System is the need to guarantee detection of defects, the requirement to operate reliably for twenty-four hours per day, 365 days per year, the demand for a simple and user-friendly interface and the business need to maximize speed of inspection and output. Balancing these objectives can be

difficult, but we believe the VEESCAN H measures up to the task.

The VEESCAN H can be configured with a wide choice of probes allowing any Wheel Shop to select the system most compatible with their workload alongside the VEESCAN H's proven design allowing maximum flexibility.

CUSTOMER BENEFITS:

- Proven mechanical design with established record of breakdown-free operation for 365 days or more.
- Maximum flexibility.
- Adjustable-height Control Station allows Operator the most flexible and comfortable usage.
- Full choice of Operation Modes maximising Probability of Detection.
- Easy to operate with basic training.
- Easy to service - Manufactured from heavy-duty aluminum extrusion and incorporating standard readily available branded control and automation products.
- Intuitive set-up - A “teach and learn” system allows the machine to be trained to inspect a wheel, then manually adjust values to fine tune the setup and then save the setup for similar / the same wheels in the future.
- Versatile - the VEESCAN has been designed to test the widest range of Aircraft Wheels from Helicopter Nose Wheels to A380 Main Wheels.
- Rapid and Reliable - Automated inspection allows the wheel to be inspected much more quickly than for a manual inspection whilst ensuring the required area of inspection is scanned 100%.
- Reporting - The fully digital reporting system archives the data for analysis and review either on the VEESCAN itself or remotely over a network. A simple 1 page A4 report may be saved and printed.
- Safety - A separate control plinth with dual push button activated start means the operator is not near the rotating wheel during the test using systems of Wheel Clamping that are proven in the field over extended periods of time.

VEESCAN H is designed to lift the wheel and fix it with an automatic adaptor that uses the wheel inertia to centre it. VEESCAN H offers an integrated roller tray for easy manoeuvrability and integration into a conveyor system and also features an automatic hub size adaptor. VEESCAN H can test wheels up to 900mm diameter.

The H is designed with an adjustable-height Control Panel for operator comfort and can be positioned at a convenient distance from the main machine. Open on three sides, the VEESCAN H offers easy wheel loading as standard.

A circular absolute probe is positioned perpendicular to the surface to ensure uniform sensitivity regardless of wheel surface profile as the probe progresses through the wheel bead seat area. Recommended frequency is 200kHz.



MAIN CHARACTERISTICS OF MODEL H

- Extruded aluminium structure covered with black Perspex panels.
- Separate Control Panel that may be positioned at a convenient distance from the main machine, which is height and angle adjustable.
- Teflon rotating table with three open sides for easy wheel loading.
- Roller tray to facilitate the wheel movement.

Veescan Model H ISO with wheel in place



Veescan Model H with moveable control panel



Veescan Model H Control Panel

SPECIFICATION

Unit Size	112.5cm x 120cm x 95cm
Instrument	ViCTor 1 Channel WI
Probe	Differentially connected absolute(integral balance load) with circular head. Recommended Frequency 200kHz option 100kHz, 500kHz and 1.5 MHz. Recommended diameter 6mm (mm also available and narrow shaft for large wheels)
Max Wheel Diameter	900mm
Typical Inspection Helix	1.5mm
Probe Position	Adaptive contour following using dual axis pressure sensors
Max Wheel Height	400mm
Power Supplies	110- 240v ac 50/ 60Hz
Max Load	150Kg
Pneumatic Pressure	None (electric wheel raise) 250mm stroke
Alarms	Acoustic and visual
Rotation Speed	15-120 rpm, via surface speed control eg 250mm/s
Frame	Extruded Aluminium
Wheel Position	The wheel is lifted clear of the roller tray using a 250mm stroke electric actuator and then held under its own weight by an adaptive automatic grip mechanism
Data Recording and Storage	Yes
Manual Hand-Held Inspection	Yes, probe socket and switch on control station
Automatic Calibration	Yes, by means of dynamic standard option
Automatic Stop on Defect	Yes
Turntable	Roller Tray / Outer stainless steel, inner plastic. Easily adjustable end stops at both ends to prevent wheel falling off.
Control Station	External free standing. Height adjustable with machine and eddy current control. 7" screen. Use Uses virtual keyboard. Touch Pad 750 - 900mm adjustable.
Operation Modes	Automatic, Stop on defect and full manual

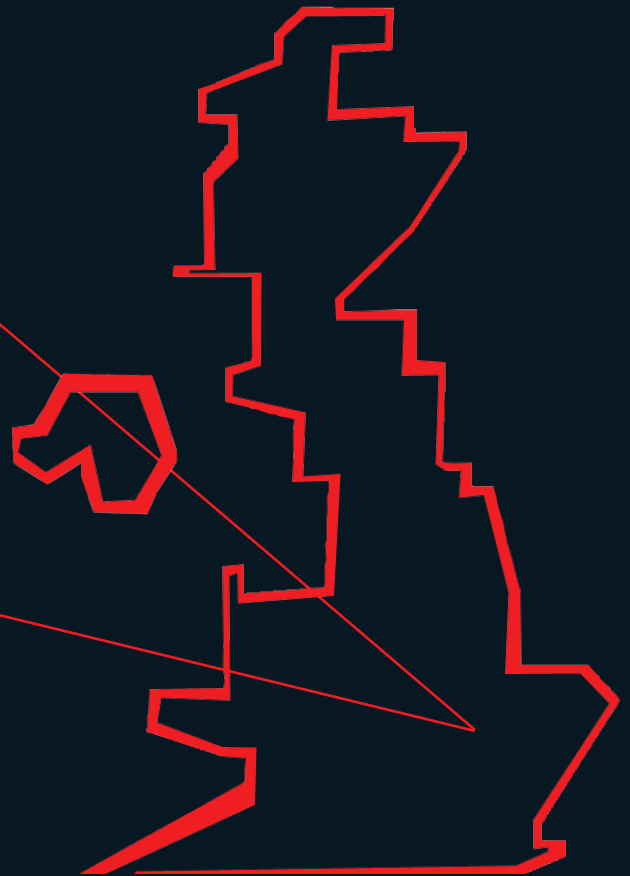
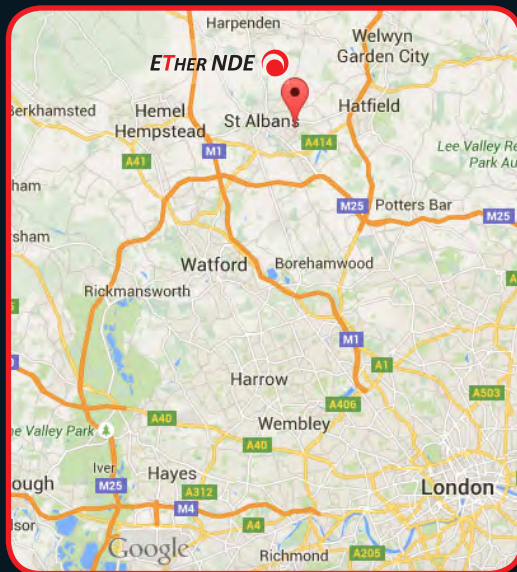
ETHER NDE continually strives to provide innovative solutions to eddy current testing in all possible inspection conditions.

Offering a range of innovative eddy current testing instruments and probes, **ETHER NDE** will endeavour to find the solution that best fits our clients specific needs.

At **ETHER NDE** we pride ourselves on our ability to remain client focussed, conducting our business with three simple promises to you:

1. The ability to speak to someone who understands our products and your application.
2. Industry leading delivery on goods and the ability to respond to your challenges.
3. That our products are second to none in both performance and quality.

Founded by John Hansen and Mike Reilly and supported by a skilled team, **ETHER NDE** boasts over 150 years of collective experience in non-destructive testing. Forward thinking and client responsive, **ETHER NDE** is the wise choice for all your eddy current testing needs.



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