

Spider SA—Semi-Automated Solution for NDT Inspections

Non-destructive testing (NDT) of critical parts is key to ensuring high-quality standards and is crucial to ensuring that structural components and systems perform effectively.

Modern composites, like weight-optimized rotor blades, contain stress-concentrating geometries such as root section with blade inserts, main beams, and bonding. If gone undetected, material separations like wrinkles can lead to costly rotor blade failure. Conducting non-destructive inspections with the Spider Semi-Automated (SA) scanner allows parts to be assessed without damaging them and can be performed without affecting a product's final use during most production steps, and includes active and post operation along with fatigue testing.

Key Features

- ▶ High speed (single sensor movement of up to 1.5m/s)
- ▶ Quality imaging resolution due to minimum track spacing (0.5mm)
- ▶ Easy mobility for complex object positioning and environmental conditions

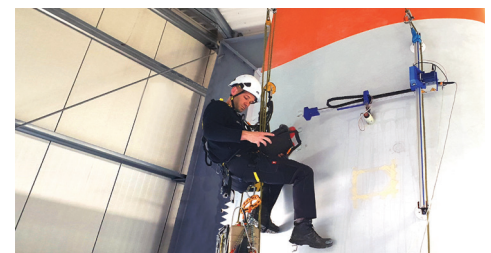
- ▶ Applicable with UT techniques – single element sensor, a group of sensors, or multi-element phased array (PAUT) probe
- ▶ Lightweight, standalone 2-axis scanner weighs under 20 lbs (excluding the control box)
- ▶ Wireless communication between the scanner and control panel (wireless MISTRAS UT scanner add-on available)
- ▶ Customizable and interchangeable axis (X/Y) adapt to the tested surfaces
- ▶ Can be mounted vertically and overhead

Applications

- ▶ Rope Access compatible for onshore and offshore jobs
- ▶ Effective for hard-to-reach and inaccessible locations
- ▶ Efficient full scan of large, complex, semi-finished products, and completed structures
- ▶ Inspect a test material's edge (up to 45°), outside, and overhead areas



UT data helps prioritize asset maintenance



Rope access-compatible for at-height inspections

To learn more about MISTRAS' advanced inspection solutions, contact a sales associate at **+1 833.MISTRAS** or visit us online at **mistrasgroup.com**.