AMS-46 - Wind Turbine Rotor Blade Scanner
– Speedy, resolute, and efficient inspection

The AMS-46 is an automated mobile crawling XY scanner, dedicated for inspection of wind turbine rotor blades and blade components.

**Features**
- Remote scanner control through video camera and steering control
- Speed, resolution and efficiency in mapping of main girder laminates and bond-lines
- Self-propelled crawling scanner unit.

**Applications**
- Indication of delaminations and dry areas in girder composite laminates
- Adhesive bond-line assessment
- Rotor blade in horizontal position
- Assessment of UD fibre waviness (wrinkles and undulations).
**Mechanical design**
The AMS-46 is designed from modular scanner components, making it feasible to configure the scanner according to actual requirements, e.g. configuration of high-performance ultrasonic probes and various scan paths.

![Drawing of the AMS-46 scanner.](image)

**Technical specifications of the AMS-46**

**Velocities**
- In X direction: max 100 mm/s
- In Y direction: max 250 mm/s

**Stroke**
- Y-direction: 2 x 500 mm

**Object Dimensions**
- Minimum curvature: R 1,000 mm
- Minimum width: 400 mm

**System Interface**
The scanner is delivered with interface to any type of P-scan System 4 or P-scan Stack System ultrasonic control units.

**Physical Specifications**
- Weight (standard configuration): 103 kg

**Options**
- On-board digital camera system for visual surveillance of scan path. Remote steering control.
- Spray system for pre-wetting of blade surface prior to scanning operation.
- Scanner interface is available for different types of motor drive controllers.