The MWS-6 Manual Line Scanner is developed for on-site blade testing and documentation. The scanner is easily operated, giving wind farm owners and operators flexibility to do random spot checks on installed blades.

**On-site testing of rotor blades**
The MWS-6 will ease your inspection process. It is a manually operated scanner, mainly used for semi-automated inspection of composite materials. The scanner is an ideal portable solution for random on-site spot checks on erected blades.

The high performance ultrasonic sensor gives you the best performance and most reliable data to be used in your inspection and maintenance process. The data includes information on areas in need of repair and their exact position which makes your maintenance process much more efficient.

The MWS-6 is easily operated from an erected platform, along installed rotor blades. The scanner is ideal as a supplement to a full size scan, as you in advance can pinpoint new areas or go into depth with already known areas of concern.

**Short description of the MWS-6**
- Manual operated line scanner for composite structures
- Scanner body with a single probe holder and an encoder wheel
- Two operator controlled buttons with programmable function
- Mechanical accessories for scanning parallel with the blade edge contour.
System interface
MWS-6 is delivered with an interface to any original P-scan system. P-scan is designed with special attention to fast set-up time, small equipment size and ease of use and is thereby offering increased productivity in use.

Furthermore, the system has great flexibility to adapt to different testing situations and covers all major ultrasound testing techniques.

Capable of different line scan situations
The scanner is designed with a mounting bar of aluminium on which probe holder, handle, support wheels encoder wheel and special accessories are mounted. The design allows the scanner assembly to be configured for 3 different line scan situations:

- line scan parallel with an edge
- line scan perpendicular to an edge
- line scan on a surface and independent of edge.

The scanner cables are connected to a P-scan processor via the two electronic modules named QCA (UT signals) and EDU (encoder and switch signals).

Scanner configuration
The scanner components can be placed on the mounting bar to serve and ease different scan applications. The probe holder and the encoder wheel are mounted “side-by-side” for scanning relative to an edge and “in-line” for other applications.

Line scan parallel with an edge
This application uses the “side-by-side” mounting of encoder wheel and probe holder. The two guide rods are fixed to the mounting bar and the guider with rollers pushed in position on the rods. The maximum scan distance from the edge with this set-up is approximately 340 mm.

Line scan towards an edge
This application uses the “side-by-side” mounting of encoder wheel, probe holder and support roller. In order to scan right to the edge it is necessary to mount the encoder wheel opposite the probe housing and in line with the centre of the probe.

Line scan independent of edges
This application uses the “in-line” mounting of encoder wheel and probe holder. The support wheel set is mounted ahead the probe and the encoder wheel behind the probe.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Encoder resolution</td>
<td>2000 p/r</td>
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<tr>
<td>Resolution</td>
<td>1 mm</td>
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<tr>
<td>Width x length x height</td>
<td>84 x 217 x 161 mm</td>
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<td>Dust and water protection</td>
<td>IP 54</td>
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<td>Operating temperature</td>
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