Automatic General Purpose Scanner

AGS-1

The AGS-1 is a general purpose magnetic wheel XY scanner primarily designed for pipe inspection.

Features
- Use of standard modular scanner components.
- High X and Y speed operation
- Flexible - can be used on many surface geometries
- Stability
- Possibility to modify/upgrade scanner for inspection of special geometries

Applications
The AGS-1 is ideal for areas where a robust and stable scanner is required for inspection with high speed, large strokes, several probes etc:
- Key point corrosion mapping on offshore and petrochemical installations
- Inspection of components in nuclear installations
- Production control of special components
- Weld inspection and corrosion mapping of pipes down to OD 70 mm
- TOFD defect sizing
### Mechanical Design

The AGS-1 is designed with use of modular components that makes it possible to configure the scanner according to the actual requirements.

![AGS-1 exploded view](image)

**Technical Specifications for AGS-1**

**Velocities**

<table>
<thead>
<tr>
<th>Direction</th>
<th>Velocity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X direction</td>
<td>0 - 70 mm/s</td>
</tr>
<tr>
<td>Y direction</td>
<td>0 - 200 mm/s</td>
</tr>
</tbody>
</table>

**Object Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. OD (Circumferential drive)</td>
<td>75 mm</td>
</tr>
<tr>
<td>Maximum dimensions</td>
<td>Plane surface</td>
</tr>
</tbody>
</table>

**Physical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width x length x height</td>
<td>372 x 384 x 110 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>8.2 kg</td>
</tr>
</tbody>
</table>

**Options**

- Y-modules with different length
- Sleeves for non-ferritic steel
- Suction pad track
- Wheels for hot surfaces
- Conversion kit to AGS-2

![AGS-1 mounted on OD 109 mm pipe](image)

![AGS-1 in low height configuration](image)