ATS-1 - Automatic Track Scanner
– High stability, speed and accuracy

The ATS-1 is a robust XY scanner running on a track using a rack and pinion drive. It is designed so it can be used in a variety of different applications.

**Features**
- Scanner runs on special straight and/or curved tracks
- High stability, speed and accuracy due to rack and pinion driven scanner body
- Track can be attached to inspection object with magnets, suction cups system or clamps
- Stability of scanner system is not affected by the surface conditions on the inspection object
- Can be used on both magnetic and non-magnetic inspection objects
- Can be used on inspection objects with complex geometries.

**Applications**
- Large structures where inspection has to be performed several times
- Fast inspection in production control
- Areas where high stability of scanner is required
- Small pipes in penetrations (access problems)
- Off-shore corrosion mapping of pipes and pipe bends (360° using curved Y-module rail)
- Non-magnetic inspection objects.
Mechanical design
The ATS-1 is designed around a robust scanner body with a rack and pinion transmission running on top of the track and a set of spring loaded pressing rollers running on the other side of the track.

The system allows the scanner to be mounted at any position on the track. The scanning Y-module is mounted by means of an adjustable fixture on the side or below the scanner body.

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

The exploded view of the ATS-1 shows the main modular components.

1. ATS-1 Body
2. Master module, MST-3
3. X-motor with angle gear
4. Y-module with motor, gear, rail and slide
5. Emergency stop, ESR-1

Technical Specifications for ATS-1

Velocities
X direction: 0 - 50 (100) mm/s
Y direction: 0 - 200 mm/s

Object Dimensions
Min. OD (Circumferential drive): 300 mm
Maximum dimensions: Plane surface

Physical Specifications
Width x length x height: 350 x 125 x 100 mm
Weight: 6.7 kg

Options
• Y-module in different length
• Curved Y-modules
• Vacuum track supports
• Magnetic track supports
• Flexible tracks.