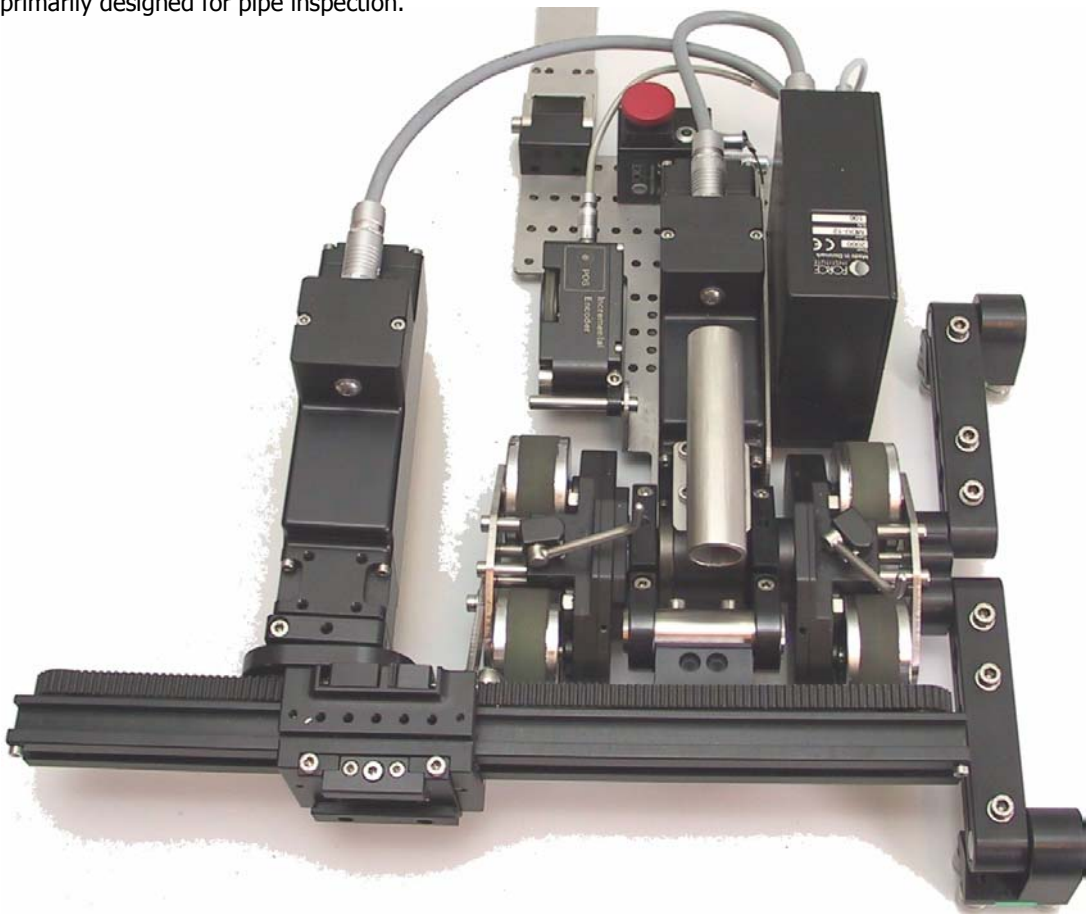


Automatic General Purpose Scanner

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

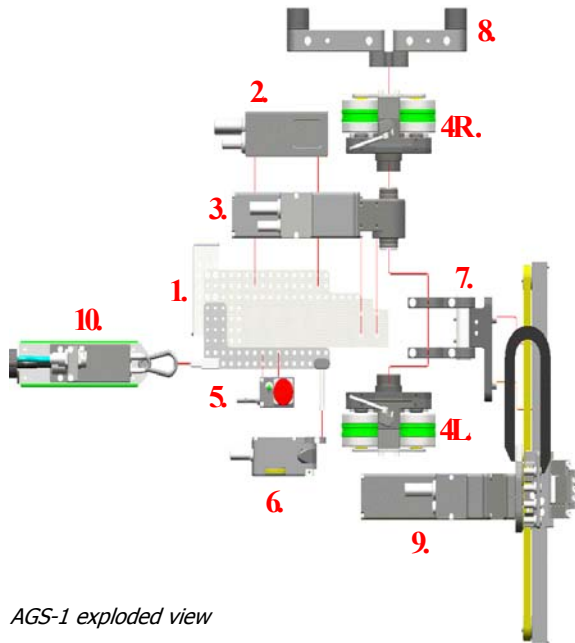
Applications

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

Exploded view of the AGS-1 showing the main modular components.

1. AGS-1 Platform
2. Master module MST-3
3. X-motor with angle gear
4. Right and left-hand magnetic wheel set
5. Emergency stop, ESR-1
6. Free wheel X encoder, ENC-2
7. AGS-1 X motor/wheel and Y module main beam
8. Chain guide
9. Y-module with motor, gear, rail and slide
10. Main cable relief bracket

Technical Specifications for AGS-1

Velocities

X direction	0 - 70 mm/s
Y direction	0 - 200 mm/s

Object Dimensions

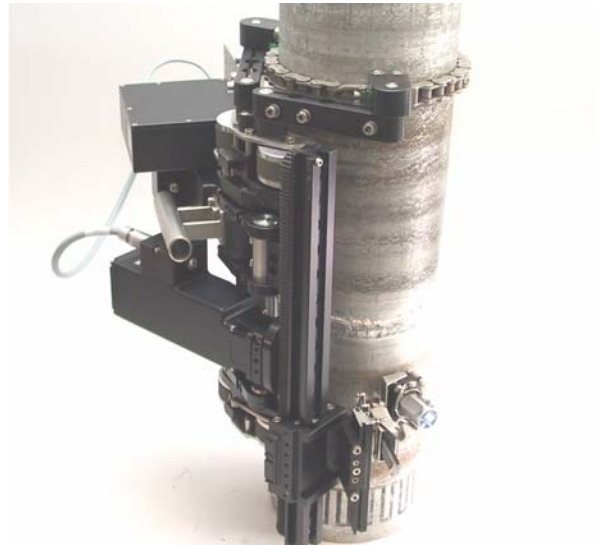
Min. OD (Circumferential drive)	75 mm
Maximum dimensions	Plane surface

Physical Specifications

Width x length x height	372 x 384 x 110 mm
Weight	8.2 kg

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



AGS-1 in low height configuration