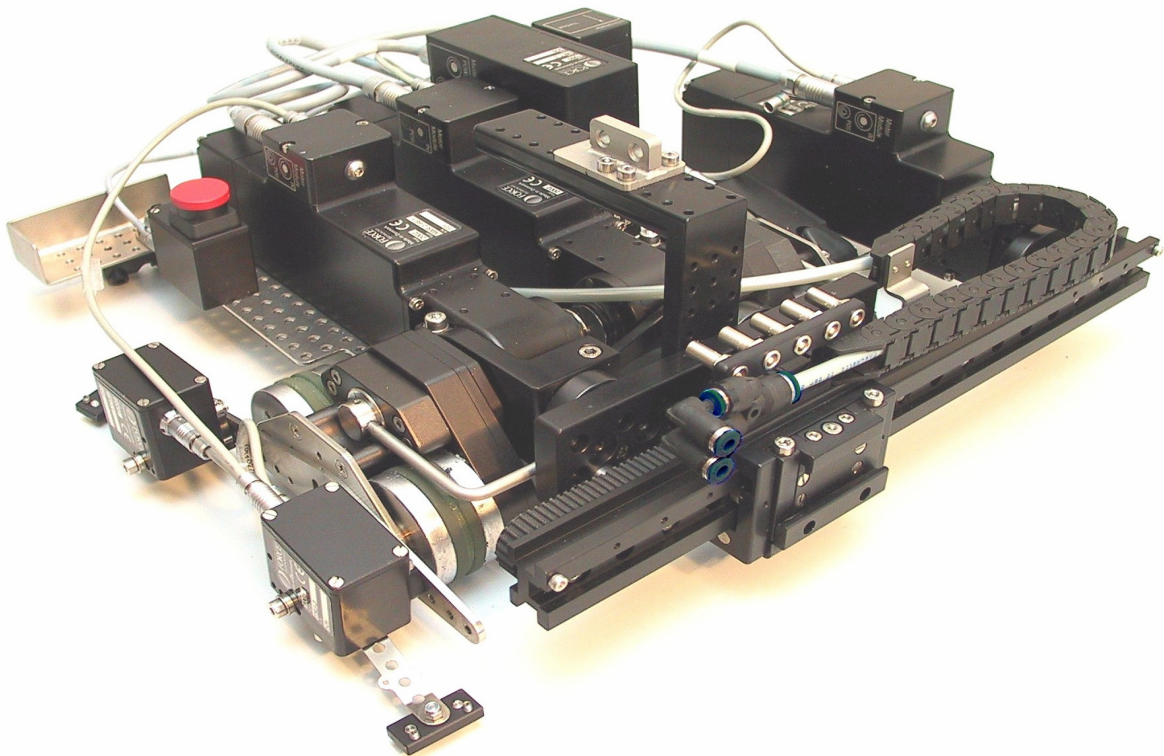


Automatic General Purpose Scanner

AGS-2

The **AGS-2** is a steerable, general purpose magnetic wheel XY scanner. It is primarily designed for remote controlled weld inspection and corrosion mapping of ferritic pipes, large structures and areas with difficult access.



Features

- Use of standard modular scanner components
- High X and Y speed operation
- Geometrical flexibility
- Curved Y-modules is available as option for longitudinal inspection of pipes
- Steerable by means of a remote control
- Automatic tracking by means of optional inclinometer
- Guiding by means of magnetic guide strip and optional analog guide/proximity sensors.

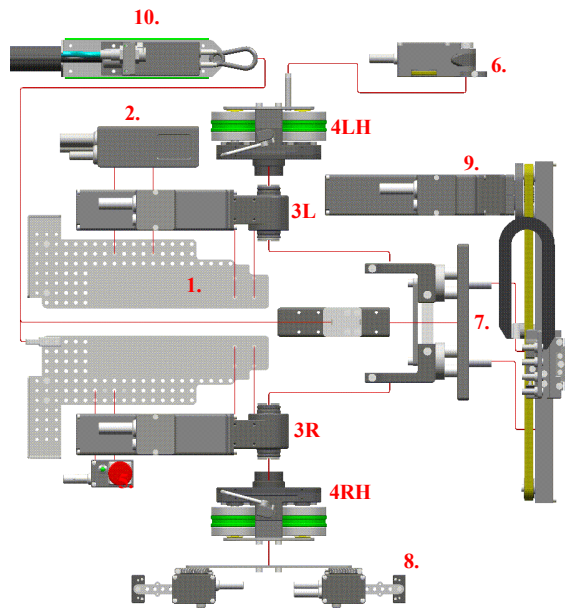
Applications

The AGS-2 is very versatile, robust and stable and ideal where high speed, long Y-stroke and several probes are required:

- Key point corrosion mapping on offshore/ petrochemical installations
- Inspection of components in nuclear installations.
- Production control of special components
- Large vessels/spheres with no need of expensive scaffolding
- Pipes external/internal for inspection of circumferential, longitudinal or helical welds and for corrosion mapping.

Mechanical Design

The AGS-2 is designed with use of modular components that makes it possible to configure the scanner according to the actual requirements.



AGS-2 exploded view

Exploded view of the AGS-2 showing the main modular components:

1. AGS-2 platforms
2. Master module MST-3 and link module LIM-3
3. X-motors with angle gear
4. Right and left hand set of magnetic wheels
5. Emergency stop switch, ESR-1
6. Free wheel encoder, ENC-2
7. Main beam
8. Track sensors for magnetic track
9. Y-module with motor, gear, rail and slide
10. Relief bracket for main cable.

Technical Specifications for AGS-2

Velocities

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

Object Dimensions (depending on Y-module)

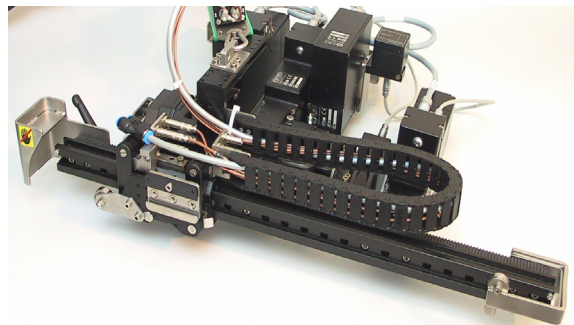
Min. OD (Circumferential drive)	75 mm
Min. OD (Longitudinal drive)	150 mm
Min. OD (Helical drive)	400 mm
Min. ID (Circumferential drive)	450 mm
Min. ID (Longitudinal drive)	450 mm
Maximum dimensions	Plane surface

Physical Specifications

Width x length x height	406 x 384 x 110 mm
Weight	12.0 kg

Options

- Y-module in different length
- Curved Y-modules
- Angle sensor
- Wheels for hot surfaces
- Conversion kit to AGS-1
- Probe lifting system.



AGS-2 with optional probe lifting system and angle sensor mounted