AGS-2 - Automatic General Purpose Scanner
– Versatile, robust and stable inspection

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, for example in:
- 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.

The exploded view of the AGS-2 shows 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.

Further information

E-mail: sales@p-scan.com

FORCE Technology • Headquarters • Park Allé 345 • DK-2605 Brøndby • Tel. +45 43 25 00 00 • info@forcetechnology.com • forcetechnology.com