AGS-1 - Automatic General Purpose Scanner
– Stable and robust scanner for pipe inspection

Features
The AGS-1 is a general purpose magnetic wheel XY scanner primarily designed for pipe inspection. The main features of the scanner are:
- 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, for example in:
- 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.

The exploded view of the AGS-1 shows 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.

Further information
E-mail: sales@p-scan.com