

Manual Weld Scanner

MWS-5

The **MWS-5** is a manually operated scanner, designed for line scanning, primarily in relation to A-scan recording, TOFD and corrosion mapping. With optional accessories, the scanner can be modified for use as a hand operated XY scanner or as an arm scanner with probe swiveling capability.



MWS-5 line scanner guided by magnetic track

Features

The new manual scanner is based on a general purpose scanner body with two input axes with integrated encoders and an input connector for an additional external encoder (probe swivel measurement). Depending on the accessories the scanner can be configured as a:

- Line scanner with magnetic wheels (eg. for TOFD inspection)
- Magnetic wheel XY scanner
- XY arm scanner with swivel probeholder and a magnetic or suction cup attachment to object

The scanner has integrated keyboard and status LEDs.

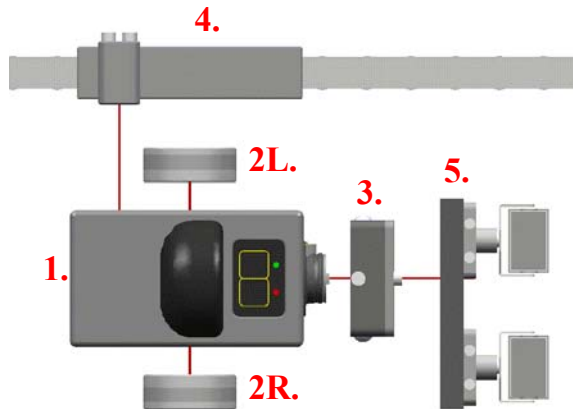
Applications

The features and the flexibility of the scanner makes it ideal for:

- Small area corrosion mapping
- Weld inspection on offshore and petrochemical installations
- Inspection and defect evaluation with TOFD line scan
- P-scan inspection with probe swivel capability
- General inspection in all areas where a robust, handy and easy operational scanner is required

Mechanical Design

The MWS-5 consists of a general purpose body that can be used for different types of manual scanners. In the line scan configuration the body is equipped with magnetic wheels and a probe holder system.



MWS-5 exploded view

Exploded view of the MWS-5 showing the main components.

1. MWS-5 body
2. Right and left-hand magnetic wheel set
3. Probe holder fixture including tilt adaptor
4. Track guide
5. Probe rail

Technical Specifications for MWS-5 (line scan version)

Object Dimensions

| | |
|---------------------------------|---------------|
| Min. OD (Circumferential drive) | 75 mm |
| Min. OD (longitudinal drive) | 60 mm |
| Maximum dimensions | Plane surface |

Physical Specifications

| | |
|-------------------------|------------------|
| Width x length x height | 65 x 138 x 75 mm |
| Weight (Body) | 0.9 kg |

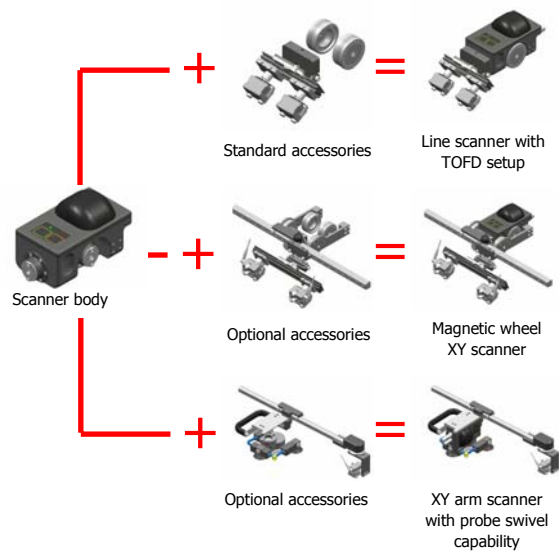
Options

- Probe holders for all types of NDE probes
- Conversion kit to MWS-5 XY
- Conversion kit to MWS-5 XYR



Hand support with integrated cable holder

Scanner configurations



MWS-5, and MWS-5 XY and MWS-5 XYR configurations