

SAW Bug

Motorised Weld Scanner



SAW Bug inspecting a 10"OD weld with TOFD and phased array probes

Benefits

- Low cost automated single axis inspection
- C-scan inspection with optional corrosion mapping arm
- Quick to setup and operate
- User-friendly operation with simple control handset
- Compatible with all instruments with encoding capabilities
- Powerful four wheel drive system gives excellent grip and performance to overcome small obstructions
- Laser guide for alignment
- No tools required, simple to adjust probe position with thumbscrews

SAW Bug is a motorised, magnetic-wheeled buggy that can carry up to six ultrasonic transducers. It is designed for single axis automated inspections of circumferential welds on carbon steel pipelines from 4"OD up to flat.

With a four-wheel drive system, the magnetic buggy has excellent grip and drive power and delivers constant speed whether ascending or descending the inspection surface.

The standard SAW Bug holds four transducers: typically two phased array and two TOFD probes but can accommodate up to six probes. It's compact design makes it adaptable for the inspection of a wide range of welds from 4" OD pipes up to large vessels.

The single axis motor is controlled via a simple remote handset offering forward and reverse drive options and variable speed control for the non-steerable magnetic wheels. The motor power unit includes an emergency stop for safety and outputs the live motor encoder signals directly for connection to any industry standard instrumentation.

A corrosion mapping arm is also available, as an optional extra, for SAW Bug to carry out C-scan inspections.



Features

- Compact, low profile design: 200 x 220 x 120mm
- Lightweight at only four kilograms
- Range: 4"OD up to flat
- Speed adjustable from 5-100mm/sec
- Compact motor controller for easy transportation
- Holds up to six probes
- Quick release probe adjustment
- Probes independently sprung and gimballed
- Robust construction for site conditions
- Strong magnetic wheels for use on painted surfaces

Options and Accessories

- Corrosion Mapping Arm
- AE-CDS Couplant Delivery System
- TOFD probes and wedges
- AEP-TPOST-30 TOFD tool-post
- Phased Array probes and wedges
- AEP-TPOST-PA Phased Array tool-post
- Calibration blocks



Kit

- 1 x Buggy with 4 magnetic wheels
- 1 x Adjustable probe frame
- 1 x Single axis Drive motor controller unit
- 1 x Remote handset
- 1 x Laser guide
- Umbilical cable bundle for motor, couplant and probes
- Phased Array and/or TOFD Tool-posts (specify code when ordering)
- 1 x Encoder synchronisation cable (specify instrument when ordering)
- 1 x Run-off mat
- Rugged carry case

Order Information

Code	Description
AE-SAWBUG-2	2 TOFD Tool-posts
AE-SAWBUG-2PA	2 Phased Array Tool-posts
AE-SAWBUG-4	4 TOFD Tool-posts
AE-SAWBUG-4PA	2 Phased Array and 2 TOFD Tool-posts
AE-SAWBUG-6	6 TOFD Tool-posts
AE-SAWBUG-6PA	2 Phased Array and 4 TOFD Tool-posts



Scan

For more information
and video of SAW Bug

