

MagMan

Circumferential and Longitudinal Weld Scanner



The highly versatile MagMan can hold up to twelve probes, so is ideal for inspections requiring a combination of phased array, TOFD pairs or multiple UT probes.

This rugged weld inspection scanner incorporates components with quick release features for fast tool-free adjustments in the field.

Benefits

- Versatile solution holding up to 12 probe combinations to cover a range of inspections
- Adaptable scanner covers from 2" OD circ and 9" OD seam welds, up to flat
- User-friendly quick release adjustments for ease of use in the field
- Accurate PCS measurement using increment rails
- Customisable with a wide range of accessories or for custom applications
- Robust construction for site conditions
- Compatible with any manufacturers probes, wedges and flaw detectors

Applications

Typical applications for MagMan include:

- **Oil, Gas & Petrochemical Industry -**

Pipe welds from 2" OD circumferential and 9" OD longitudinal up to flat on ferromagnetic materials

Compact yet robust, MagMan benefits from large magnetic wheels providing a stable platform and a smooth rolling motion. The frame includes angular adjustment to enable the scanner to be used on small diameter pipes and incorporates three increment rails for more accurate PCS measurements.

Up to twelve transducers, arranged as six pairs on either side of the weld are mounted on to spring-loaded toolposts that push them onto the inspection surface with a constant force, providing a stable positioning system. The toolposts incorporate gimbals in two directions to ensure the transducers stay in constant contact and accommodate surface variations.

Many features of the user-friendly MagMan allow for tool-free adjustments for ease of use including, a waterproof spring-loaded wheel encoder, quick release toolpost and wheel adjustments and quick release wedge changes.

MagMan can operate with any multi-channel flaw detection system and optional accessories include, tracking bands to maintain scanner alignment and direction and a laser guide for the operator to track a weld line by eye.



Features

- Holds from two up to twelve probes
- Quick release adjustment throughout
- Frame incorporates three measurement rules for accurate probe separation
- Probes independently sprung and gimballed
- Independent suspension on all four magnetic wheels for uneven surfaces
- Spring loaded waterproof wheel encoder. IP68 rated (immersion up to 1m)
- Encoder Resolution: 65.6 steps/mm
- Accurate tracking via guide bands and laser guide
- Compact design: 350mm x 325mm
- Lightweight yet robust aluminium frame: 3kg

Accessories

- AEP-TPOST-30 Standard Toolpost
- AEP-TP-FORKS-30 Forks & 30x30mm base
- AEP-TP-PA-CRADLE Phased Array Cradle
- AEP-ENCWP-5M-TERM Wheel Encoder with 5M cable
- AEP-ENCWP-2.5M-TERM Wheel Encoder with 2.5M cable
- AEP-MAGMAN-ENC-BRACKET Encoder Bracket
- AEP-MAGMAN-PCS-EXT-BAR Bar attachment
- AEP-MAN-LASER-GUIDE Laser guide and bracket
- AEP-MAGMAN-GUIDE-BAND Tracking Guide Bands (specify diameter required)



Kit

- 1 x Adjustable scanner frame
- 4 x Magnetic wheeled suspension units
- Waterproof spring-loaded encoder wired for any system (includes 5m cable)
- Standard Tool-posts (see order information for quantities and codes)
- 2 x Phased array wedge cradles (applicable to PA models only)
- Irrigation manifold and tubing
- 1 x Rugged carry case



Order Information

Product Code	Description	Standard Toolposts with 30x30mm Forks	Toolposts with Phased Array Cradles
AE-MAGMAN-PA-2	MagMan 2PA	-	2
AE-MAGMAN-PA-4	MagMan 4PA	2	2
AE-MAGMAN-PA-6	MagMan 6PA	4	2
AE-MAGMAN-PA-8	MagMan 8PA	6	2
AE-MAGMAN-2	MagMan 2	2	-
AE-MAGMAN-4	MagMan 4	4	-
AE-MAGMAN-6	MagMan 6	6	-
AE-MAGMAN-8	MagMan 8	8	-