

# MultiMag

## Compact Magnetic Wheeled Manual Scanner



A highly versatile weld inspection manual scanner, ideal for use on pipes from 3" OD up to flat plate. MultiMag has magnetic wheels and is ideal for use with phased array, TOFD and pulse-echo techniques.

MultiMag configured for dual phased array and TOFD inspection on 10" OD pipe

### Features

- Operates in any orientation from 3" OD up to flat plate
- Pivoting arms to optimize probe contact
- Can support up to 4 probes
- Wheel brackets tilt to assist with misaligned welds
- Tool-posts are independently sprung and gimballed
- Quick release handles allow easy movement of wheels, tool-post and encoder positions
- Angular adjustable frame for use on small diameter pipes
- Robust modular construction for practicality on site
- Large PCS version available
- For use with any manufacturers instrumentation

MultiMag can be used on pipes ranging from 3" OD up to flat plate and can be configured for inspecting pipe to pipe or pipe to elbow circumferential welds, as well as single sided inspections of pipe to fitting welds.

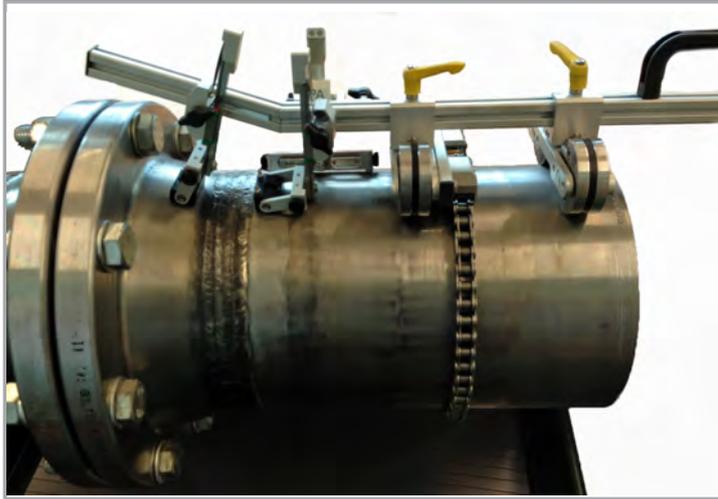
With large magnetic wheels that provide a stable platform the MultiMag has a smooth rolling motion. The frame includes angular adjustment to enable the scanner to be used on small diameter pipes. The wheels can be positioned anywhere along the scanning frame to give the flexibility to configure the scanner to suit the inspection geometry.

MultiMag can hold up to four transducers; phased array, TOFD or pulse-echo, arranged as two pairs on either side of the weld. The transducers are mounted to spring-loaded tool-posts that push the transducers onto the test surface with a constant force providing a stable positioning system. The transducers can easily be re-positioned, relative to the weld, and fixed in place with a thumb screw. The tool-posts incorporate gimbals in two directions to ensure the transducers stay in contact and accommodate surface variations. Low-profile tool-posts are also available when surface clearance is restricted.

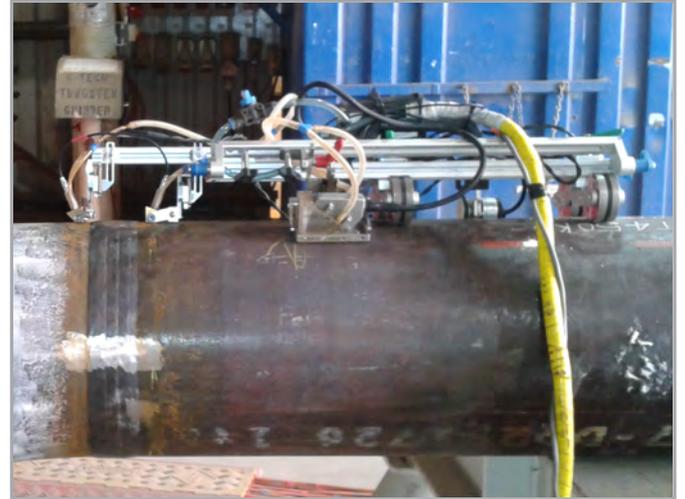
Compatible with any multi-channel flaw detection system, MultiMag includes a spring-loaded wheel encoder that is wired to suit any manufacturers instrumentation. Optional accessories include a guide chain to maintain scanner alignment and direction or a laser guide to track a weld line by eye.

## Benefits

- User friendly scanner, allows for quick, effective setups
- Operates in any orientation from 3" O/D up to flat plate
- No need for adjustment tools due to quick release handles on all moveable parts
- Positional encoder output
- For use with any manufacturers probes, wedges and instrumentation



MultiMag with attachment for flange inspection



MultiMag with TOFD for pipe elbow inspection

## Accessories

- Transducers
- Side arms: for small diameter inspections
- Laser pointer
- Bar: to achieve a wide PCS
- Cradles and tool-posts: to suit various manufacturers probes/wedges
- Encoder extension cable
- Tool-post angle adjusters: for transverse defect detection TOFD probes
- TOFD wedges

## Standard Kit - MultiMag 4

- MultiMag Scanner frame
- 4 x magnetic wheels
- 2 x 30mm TOFD tool-posts
- 2 x phased array tool-posts with cradle to hold phased array wedge (customer to specify wedge type)
- 5m encoder terminated for any instrumentation
- Irrigation tubing and accessories
- Hard carrying case

