

# Multi-Skip Scanner

## Corrosion Mapping Solution



The Multi-Skip or M-Skip scanner offers an ultrasonic solution for corrosion detection of difficult to access areas of pipelines; around obstructions such as pipe supports, clamps and saddles.

### Benefits

- Reduces inspection time and costs by scanning with obstructions in-situ
- 100% scan coverage of inaccessible pipe support area
- Adjusts to varying pipe sizes and obstructions
- Easy to setup with accurate probe/wedge separation
- Couplant monitoring probes guarantee better data collection
- Low profile scanner design

The adaptable scanner comprises of sets of interlocking belt sections that can be adjusted according to pipe diameter from 6" up to 48" OD (outside diameter). Separation bars ensure accurate and consistent probe and wedge placement around obstructions at distances of up to 1m (3.28ft).

M-Skip is an ultrasonic 'transmit-receive' method that locates probes either side of an obstruction. Ultrasound is transmitted through the wall of the pipeline, beneath the external obstruction and is received on the far side. The ultrasonic waves 'skip' between the internal and external surfaces and the arrival times of the signals are used to calculate wall thickness. Corrosion is detected through loss of signal amplitude; reduced signal arrival times and changes to signal shape.

The M-Skip scanner can reduce inspection times and associated costs by eliminating the need to remove clamps or lifting a pipe off its support to scan the inaccessible area.



## Features

- Working range: 6" up to 48" OD
- Encoding: Single axis
- Temperature range: up to 60C
- Spring-loaded waterproof wheel encoder. IP68 rated
- Encoder resolution: 65.6 steps/mm
- Spring-loaded tool posts
- Holds two wedges (four probes)
- Weight (Boxed): 20kg (36" version)



## Options and Accessories

- **AE-CDS** Couplant Delivery System
- **CDTOF 05/02** Couplant monitoring probe
- **CDTOF 02/02** Search probe
- Contoured M-Skip wedges



## Kit

- 2 x Search probes
- 2 x Couplant monitoring probes
- 2 x M-Skip wedges
- Belt track lengths (available for use from 6" up to 48" OD)
- Separation bars available up to 1m (3.28ft)
- Integrated encoder (specify instrument when ordering)
- Track adjustment tool
- Irrigation tubing
- Protective carry case

