



Key features:

- Optimal pipe fit up
- Reduced fit up time
- Increased productivity
- Reduced repair rates
- Improved weld quality & integrity

Applications:

- Carbon steel and corrosion resistant alloys
- Firing line, spool base, barge
- Onshore: pipe yards / mainline production / repair stations
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Laser pipe end measurement system (SCIO)

For critical dimensional check ups

The SCIO is a pipe end measurement tool for the analysis of pipe dimensions up to 150mm in length on both the inside diameter (ID) and outside diameter (OD). The SCIO also performs quality checks on bevelled ends with its' pair of 2D profile lasers. It is the most efficient way to analyse pipe dimension to ensure best fit.

The SCIO has three different modes of operation:

- Optifit:** Provides the best fit up rotation between pipe ends
- Omnifit:** Provides full pipeline sequence and optimized rotation
- Bevelscan:** Performs a quality check of the bevel

Using measured data the SCIO can verify whether the pipe is produced within the agreed dimensional tolerances and whether it can be fitted with another pipe before production. It uses data scanned to generate a full fine-mesh 3D image of the pipe end.

The device is portable and operated wirelessly whilst also coming with a flight case allowing it to be transported within the hold of an aircraft – making it the most accessible option for pipe-end analysis.

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Software features:

Specify minimum seam weld spacing

Specify seam weld exclusion zone

Optimized rotation only analysis

Optimized sequence and rotation analysis

Next joint pipe fit up optimization for firing line

3D mapping of pipe ends

Bevel geometry verification

Laser Type	2x Line laser, 1240 points at 200 Hz
Minimum ID	5.0" (140mm)
Maximum ID	52" (1400mm)
Scan Speed	7 seconds per scan Adjustable to improve resolution on larger pipes
Cycle Time	2 Minutes
Battery Life	Small: 4 Hours Extra capacity: 12 Hours Li-Ion rechargeable
Operation	Single person operation
Dimensions	850mm length
Weight	12kg
Ambient Temperature	0 - 45° C

