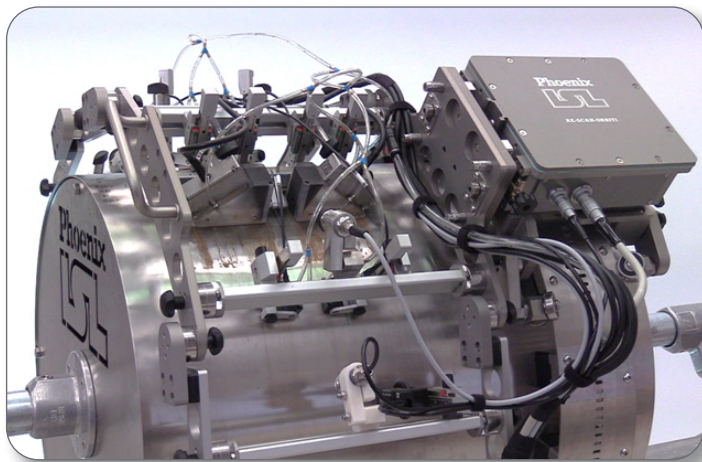


Orbital

AUT Weld Scanner


Orbital scanner on 20" OD pipe with 2x PA, 2x TOFD and 4x transverse UT probes, HD Camera and Surface temperature monitor.

Orbital is a powerful and versatile flexible track mounted scanner capable of transporting a range of onboard accessories to simplify site inspections.

A highly efficient automated ultrasonic testing (AUT) solution for ID and OD pipe weld inspections, through to flat on any material.

Benefits

- **Versatile:** OD Pipe weld inspection 10" - Flat
ID Pipe weld inspection 44" upwards
Tank and Vessel weld inspection
- **Compatible:** Works with any OEM's Acquisition Unit - Mounted directly to the carriage or stand-alone. Rack mounting option also available
- **Dynamic:** Adheres to any inspection surface using applicable track mount options
- **User-Friendly:** Lightweight components for easy set-up with one operator
- **Economical:** One scanning solution for multiple applications

Applications

Typical Applications for Orbital include:

- Pipeline girth weld inspection
- ID Weld inspection in ferritic and non-ferritic pipes
- Welds in ferritic and non-ferritic tanks & vessels

Industries

Ideal for use (but not limited to):
Oil & Gas, Nuclear, Power Generation and Aerospace

Orbital comprises an automated carriage with tracks that can adhere to any inspection surface via fully enveloping tension, magnets or vacuum providing versatility with just one scanning solution. The track can be used on pipes in any orientation on either the outside (10" - Flat) or the inside (44" upwards).

The incorporated probe pan is configurable to your inspection requirement and capable of holding either a single UT probe up to a maximum of 12 probes simultaneously (diameter dependant).

In addition to mounting multiple transducers the powerful drive system can also mount a compatible onboard acquisition unit, in addition to scanning accessories including an HD camera, thermal surface monitor or optional lighting. This combination of onboard solutions can provide a live visual assessment for the most precise and efficient defect detection and data acquisition.

Features

Orbital Scanner - Carriage		Orbital Scanner - Probe Pan		Orbital Scanner - 20" OD Track	
Dimensions (mm) W x L x H	330 x 307 x 176	Dimensions (mm) W x L x H	348 x 383 x 142	Track Material	316 SS
Mass (kg)	7.4	Unladen Mass (kg)	1.9	Track Foot Material	Delrin
Max Payload (kg)	20	Axial Stroke (mm)	~250	Straight Track Length (mm)	1915
Max Scanning Speed (mm/s) conditions dependent	Min = 0, Max = 60	Radial Stroke (mm)	65	Standoff Height (mm)	~50
IP Rating	IP65	Orbital Scanner - Probe Pan Extra Wing		Orbital Scanner - Umbilical	
Operating Temperature (°C)	Min = -10, Max = 50	Dimensions (mm) W x L x H	354 x 201 x 40	Length (m)	5, 10, 20, 30
Operating Humidity (%)	10-90	Unladen Mass (kg)	0.7	Recommended Content	2 x Phased Array 8 x Conventional UT (Lemo 00) 1 x Couplant Tube
Power Requirements	90 - 260 V AC, 50 - 60 Hz	Axial Stroke (mm)	~250	Wrapped	Various wraps available

Accessories

- HD Camera
- Surface Temperature Monitor
- Lighting
- GPS
- Vacuum Track
- Magnetic Track



- Phased Array Probes & Wedges
- TOFD Probes & Wedges
- Automated SSW Transverse Probes



Kit

- 1 x Flexible tension track to suit 10" OD pipe - Flat
- 1 x Orbital Scanner Carriage
- 1 x Probe Pan (configurable to inspection requirement)
- 2 x Probe Pan Wings
- 1x Umbilical (various lengths available)
- 1x Orbital Scanner Drive Controller
- Optional probes, Sensors and Cameras