

Gyro

Rotary Axis Scanner



Gyro - Rotary Axis Scanner

Gyro is a versatile single encoded, rotary axis manual scanner for C-Scan inspection.

The highly adaptable design allows the rugged rotary scanning platform to attach to the ends of studs, bolts, pins and pipes via interchangeable jaws, covering a wide range of applications.

Benefits

- **Versatile** solution for use on a wide range of component diameters, shapes and pipes
- **Fast Set-Up** - Allows for quick changes between component sizes with a simple adjustment
- **Ergonomic** design for ease of use by operator
- **Cost effective** solution for inspections on both components and pipes
- **User-friendly** - Inspections can be carried out by just one operator
- **Customisable** - Automated and dual axis design options available
- **Compatible** with industry standard instrumentation

Applications

Typical applications for Gyro include:

- **Oil & Gas** -
Stud, Bolt, Pin and Pipe Inspection
- **Nuclear and Power Generation** -
Stud, Bolt, Pin and Pipe Inspection

Gyro can be supplied with a range of clamping jaws to securely fit to either the inside diameter (ID) or outside diameter (OD) of components of varying shapes and sizes or pipes for application-specific inspections.

Gyro's scanning platform mounts to the scanner body and houses a phased array probe and automated UT probe on adjustable toolpost rails. An integrated high resolution, non-slip encoder allows the operator to accurately position the sensor bay on and around the end of the inspection site and rotate the platform with a smooth scanning motion to produce C-scan inspections.

Robust and ergonomic in design and materials, Gyro can be operated by just one inspection engineer and is compatible with any industry standard instrumentation.

A versatile scanning solution for operators in the Oil & Gas, Nuclear and Power Generation industries.

Features

- Suitable for inspections on bolts ranging from 55mm to 125mm across flats (other jaw sizes available)
- Interchangeable locking jaw units
- High resolution waterproof encoder. IP68 rated. (150.3 steps per degree)
- Single axis encoder (can be modified for dual axis encoding)
- Toolpost rails accommodate upto two ultrasonic transducers
- Transducers can be adjusted along the centreline
- Robust, hard wearing components for use in plant environments



- Two in-built scales for inspection set-up
- All aluminium components hard anodised
- Tethered and captive parts (where practicable) to support onsite safety
- Payload: Variable per application
- Weight: 5kg
- Scanner dimensions (mm): L 400 x H 100 x W 225

Accessories

- Additional Jaw profiles
- AE-CDS Couplant Delivery System



Gyro Kit

- 1 x Gyro Scanner Body
- 1 x Gyro Scanning Platform
- 2 x Standard Removeable Jaws
- 1 x High-resolution Encoder
- 1 x Conventional Toolpost
- 1 x Phased Array Toolpost
- 1 x User Manual
- 1 x Rugged Carry Case



Order Information

AE-SCAN-GYRO1

Phoenix Inspection Systems Limited, Dalton House, 40 Hardwick Grange, Warrington, WA1 4RF, United Kingdom

t: +44 (0) 1925 826000 | f: +44 (0) 1925 838788 | e: sales@phoenixisl.com | www.phoenixisl.com

Phoenix Inspection Systems Limited is a Nova Instruments company. For further information visit www.novaic.com

Phoenix Inspection Systems Limited has a policy of continuous development therefore reserves the right to change products, specifications and pricing without forward notice.
 Actual products may differ from those presented herein. The information in this data sheet is accurate at time of publication.