Eclipse Scientific provides the perfect solution for your bolt inspection requirements; BeamTool allows you to easily design and simulate an inspection and generates comprehensive documentation of your inspection technique.

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The BoltScanner is an encoded orbiting scanner that provides a practical solution for corrosion extent monitoring and crack detection, providing clear images showing bolt thread condition. Inspection is performed without removal of the bolts or studs, thus eliminating downtime and enabling onsite inspection. Since the scanner is encoded it allows for accurate repeatable inspections for monitoring known defects. Eclipse Scientific has once again improved on an already superior product by enhancing the in-field durability and product use functionality of this highly capable and repeatable inspection product.
Rationale

Bolts, like any other structural component, are susceptible to defects such as corrosion and cracking. In order to comply with safety regulations and to maintain structural integrity, these bolts are required to be inspected. Monitoring and/or replacement is mandatory for defective bolts.

Benefits

Phased array inspection using the BoltScanner enables hard copy output and easy-to-interpret imaging. It also provides the ability to monitor component condition. It can be applied to bolts, studs, bridge pins and other similar applications. For a quick review of bolt conditions upon completion of the scan, the operator can move through the scan data. This data is digitally stored enabling periodic monitoring and options for post-analysis or remote analysis.

- Inspect bolts, studs and pins
- Rapid encoded inspection
- Easy-to-interpret display
**Specifications**

The BoltScanner can scan a wide range of bolt sizes by selecting from a variety of clamp hubs. Each clamp hub is marked with the maximum width across flats (WF) of the bolt head or nut to be inspected. Special order housings can be made to accommodate bolt sizes outside the standard range or probe.

**Standard Package**

- BoltScanner for small bolt sizes ½” to 1” (M12-M27)
- BoltScanner for medium bolt sizes 1” to 1-1/2” (M27-M39)
- BoltScanner for large bolt sizes 1-3/8” to 2” (M35-M52)
- Wear face probe covers
- Mini-wheel encoder
- Product documentation
- Tool kit

**Encoded Bolt Inspection Solution**

Figure 1. S-scans: dual-sided on corrosion calibration bolt (left image); single-sided (right image).

Figure 2. Corroded bolt: photograph (inch rulers for scale); and scan images (with corrosion denoted by arrow.)

www.eclipsescientific.com/boltsscanner.html