Phoenix Inspection Systems Limited

Innovators in NDT Technology

C-Clamp Encoder
Frequently Asked Questions (FAQ's)

Q. Will the C-Clamp Encoder attach to my probe?

A. The C-Clamp has the ability to connect to any flat sided wedge up to a maximum width of 55mm.

Q. Can the C-Clamp encoder be oriented for performing non-parallel scans?

A. The encoder can be attached to the rear of the C-Clamp for encoding B-scans and S-scans. Alternatively the encoder can be attached to the side of the C-Clamp for encoding D-scans

Q. Is the encoder waterproof?

A. The encoder on the C-Clamp is IP68 rated, which means it can be fully submersed in water down to 1m.

Q. So how many Allen keys and screw drivers do I need to operate it?

A. None, the C-Clamp is tool free. There are small knobs which allow the C-Clamp to be easily set-up and adjusted by hand.

Q. How big is the encoder wheel?

A. The encoder wheel has a diameter of 39mm.

Q. What should I set my scan resolution to?

A. The encoder supplied with the C-Clamp has a resolution of 32.8steps/mm.

Q. How long is the encoder cable?

A. The encoder cable is 2.5m as standard. Other lengths are available on request.

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.co.uk | **www.phoenixisl.co.uk**
Company Registered in England No. 1718157 VAT No. 374 1322 70

Q. I've attached the C-Clamp but the encoder clashes with my rear exit transducer cable?

A. The C-Clamp has two encoder mounting positions on the rear. If the encoder is likely to get in the way of the transducer cable then it can be moved to the second mounting position and be out of the way.

Q. Can I use the C-Clamp encoder with my instrument?

A. The C-Clamp encoder is compatible with all acquisition units that can record a single axis of encoder data. Please specify your instrument preference at the point of ordering.

Q. I've used small wheel encoders before and they tend to slip on the couplant?

A. The encoder has been positioned out of the direct scan path so it runs on a surface that should be free from couplant and therefore less likely to slip.

Q. I have various acquisition units at my disposal; can I use the C-Clamp with all of them?

A. There are adapters available which allow you to use the C-Clamp with a range of acquisition units; if you let us know which units you have we can supply the appropriate adapter.

Q. Is it possible to adjust the tension on the encoder spring?

A. Yes, the tension can be adjusted by loosening the thumbscrew on the encoder and rotating the shaft anti-clockwise. When you have the desired tension it can be locked back into place by tightening the thumbscrew.

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.co.uk | **www.phoenixisl.co.uk**
Company Registered in England No. 1718157 VAT No. 374 1322 70