

# CLAW TRANSDUCERS

## Technical Specifications

Guided Ultrasonics Ltd. (GUL) produces claw type transduction rings for inspection of small size piping, between ¾" and 2.5" in diameter. The Claw Transducer Ring is designed to fit between closely spaced tubes and piping, offering a solution for multiple application areas. The following table provides guidance on the suitability of this ring type for a variety of common applications. There is often confusion between pipe and tube sizes, which is why it is recommended to always directly measure the OD of the piping before selecting a claw size. However, if in doubt, please contact us for further information.

|   |                         |
|---|-------------------------|
| RING TYPE                               |                         |
|   | Claw                    |
| Application Areas                       |                         |
| Generic Pipe                            | Recommended             |
| Typical Pipe Rack                       | Recommended             |
| CUI                                     | Recommended             |
| High Temperature Pipe (100°C and 150°C) | Suitable                |
| Tight Access                            | Recommended             |
| Generally Corroded Pipe                 | Recommended             |
| Test under Supports on Clean Pipe       | Suitable                |
| Welded Supports                         | Suitable                |
| Minimize Dead Zone                      | Suitable                |
| Pipe with Bitumen Coating               | Not suitable            |
| Concrete Lined Pipe                     | Recommended             |
| Soil Interface                          | Recommended             |
| Concrete Interface                      | Suitable <sup>(1)</sup> |
| Buried Pipe                             | Recommended             |

## TECHNICAL SPECIFICATION SUMMARY *(Subject to change)*

| RING TYPE                     | Claw                                  |
|-------------------------------|---------------------------------------|
| Available sizes               |                                       |
| Nominal Pipe Sizes (NPS)      | ¾" to 2.5" (DN 20 to 65)              |
| Transducer Features           |                                       |
| Transducer Type               | HD                                    |
| Interchangeable Transducers   | Yes <sup>(2)</sup>                    |
| Transducer Quick Release Tool | Yes                                   |
| Ring Features                 |                                       |
| Operating Frequency Range     | High                                  |
| Closing Mechanism             | Screw Extension Arm                   |
| Operating LED Button          | No                                    |
| Coupling Method               | Individual spring loading             |
| Physical Characteristics      |                                       |
| Radial Clearance              | 38 mm [1.5"]                          |
| Axial Clearance               | 7.5 cm [3.0"]                         |
| Operating Temperature         | -40°C to 250°C<br>[-40°F to 482°F]    |
| Interface                     |                                       |
| Connectivity to Wavemaker®    | Multi-channel Lemo® connection cable  |
| Auto Ring Recognition         | Yes                                   |
| System Compatibility          | Full (or Licensed) G4 <sup>mini</sup> |

(1) Reduced Range.

(2) Frequent changing of transducers is not recommended.