

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. 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
Extreme High Temperature Pipe (150°C to 350°C)	Suitable (1)
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 (2)
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 ⁽³⁾
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 150°C [-40°F to 302°F]
Interface	
Connectivity to Wavemaker®	Multi-channel Lemo® connection cable
Auto Ring Recognition	Yes
Transduction System Compatibility	Full (or Licensed) G4 ^{mini}

(1) Claw-HT Version.

(2) Reduced Range.

(3) Frequent changing of transducers is not recommended.