

RONDO CP

High-Speed Inspection of Round and Square Bars

Equipment Highlights

High-Performance Solution

- Inspection performed by passing the bars through an immersion tank to optimize coupling and inspection results.
- Stationary PAUT probes provide 100% inspection for all diameters without mechanical adjustments.
- Parallel firing of PAUT probes permits acquiring all necessary angles at high speeds.
- Dynamic detection down to 0.7mm FBH and 0.3mm SDH.

Designed for Maintenance

- Separate double-wall rubber entry gland outside the tank permits fast changeovers and reduces maintenance.
- Independent probe assemblies permit quick adjustments and replacements.

User-friendly Operation (ITOP)

- Built around Innerspec Technologies Operating Platform (ITOP).
- NDT-WEB 360 software provides a web-based user interface easy to access, share, and customize.
- NDT-LINK cloud service for comprehensive asset management (user access, documentation, support, spares).
- Available for LINUX and Windows OS.

Built-In Integration

- Integrated PLC controls for fully automated operation including calibration, encoding, real-time alarms, paint marking, and product disposition.
- Easy integration of additional inspection techniques from Innerspec such as EMAT, EC, MFL, PMI.

RONDO CP is a fully automated Phased Array UT (PAUT) inspection system for inline inspection of bars ranging from 10mm to 250mm OD. The system provides fast and reliable 100% volumetric inspections with real-time visualization of UT scans.

The system includes a pass-through immersion tank providing high-quality results at fast inspection speeds. Stationary PAUT probes for each diameter range eliminate mechanical adjustments, reducing variability and increasing inspection homogeneity.

The system is built on Innerspec Technologies Operating Platform (ITOP) which includes its proprietary web user interface (NDT-WEB) and cloud-based asset management tool (NDT-LINK).



RONDO CP Specifications

System Type	Circular PAUT Probes - No Rotation Required*			
	CP1	CP2	CP3	CP4
Minimum Diameter	10mm	20mm	50mm	50mm
Maximum Diameter	65mm	130mm	180mm	250mm
Bar Types	Round		Round & Square	
Typical Probe/Cluster Configuration	2 x 4 PAUT	2 x 6 PAUT	2 x 8 PAUT	2 x 12 PAUT
Key Features	<ul style="list-style-type: none"> • Floating UT Immersion Tank with rubber sealing entry gland permits adapting to non-straight bars (4mm/m maximum deviation). • Inspection of round and square bars using the same system (single-tank or double-tank configurations). • Integrated and automated entry table with pinch rollers, calibration stands, filtration, and marking systems. • Inspection speed from 60-120m/min. Maximum speed is dependent on diameter, material, and defect detection requirements. 			

(*) Each diameter range is covered with one probe assembly that does not require mechanical adjustment to inspect all products within the range. The rubber gland insertion assembly is also designed to cover all products within each diameter range, and can be easily replaced, together with the probe assembly, to cover other diameter ranges.

