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**QUALITEST**<sup>TM</sup>

## REBAR LOCATOR



## STANDARDS

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ACI 318

ASTM C876

ASTM G102

ASTM G59

BS EN 12504-2

ISO 1920-10

## Rebar Locators for Concrete

A Rebar Locator is a popular non-destructive testing (NDT) instrument used in construction, civil engineering, and structural inspection to accurately detect, measure, and analyze reinforcing steel bars (rebar) embedded in concrete. Whether referred to as a concrete cover meter, rebar scanner, or reinforcement detector, these devices ensure safety, compliance, and efficiency in projects ranging from bridges and tunnels to buildings and highways.

Modern rebar locators use technologies such as magnetic induction, eddy current, ultrasonic, and ground-penetrating radar (GPR) to identify rebar position, determine concrete cover depth, measure spacing, and assess concrete quality without damaging the structure. This makes them vital for quality control, maintenance, and structural assessment.

## Applications of Rebar Locators

- Locating rebar before drilling, coring, or cutting concrete
- Measuring concrete cover thickness for structural durability and fire resistance compliance
- Detecting reinforcement patterns in existing structures for renovation or retrofitting
- Performing non-destructive testing (NDT) for bridges, tunnels, and critical infrastructure
- Quality control testing in new construction to ensure rebar placement meets design standards

## Standards and Compliance

Rebar locators are designed to meet international testing and construction standards, ensuring reliable and repeatable results. Some of the commonly referenced standards include:

- ASTM C876 – Standard Test Method for Corrosion Potentials of Uncoated Reinforcing Steel in Concrete
- ASTM G59 / ASTM G102 – Related to electrochemical evaluation of rebar corrosion
- BS EN 12504-2 – Testing concrete in structures, covering non-destructive testing methods for rebar location and concrete cover depth
- ISO 1920-10 – Testing of concrete, part 10 for non-destructive methods
- ACI 318 – Building Code Requirements for Structural Concrete (cover thickness and durability requirements)

By adhering to these standards, a rebar locator not only helps engineers and contractors ensure compliance but also improves the long-term safety and performance of reinforced concrete structures.

As a trusted global manufacturer and supplier, Qualitest offers a complete range of advanced digital rebar locators engineered for precision, durability, and compliance with international standards. Backed by decades of expertise and worldwide customer support, Qualitest provides engineers, contractors, and testing labs with reliable solutions that deliver accurate results for critical projects.



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## Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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