

Elcometer Protovale Borehole Probe



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The range of Protovale by Elcometer Concrete Covermeters are unequalled at finding the precise location and orientation of the first layers of reinforcing bars (rebars) with the transverse bar tied to it.

No covermeter will find subsequent layers of steel reinforcement deep within the concrete. Nor can they locate pre-stressing or post tensioning tendons underneath the top reinforcement.

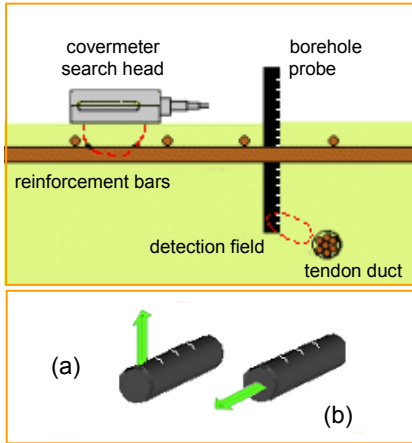
When the Elcometer Borehole Probe is connected to the Elcometer Protovale 331 the user can now locate rebar and tendon ducts at greater depths than any other covermeter on the market today.

Concrete Covermeters

Locating steel reinforcement bars and metal pipes is essential in the construction and maintenance of structures. Damage caused when a drill or a fastener makes contact with a pipe is costly. A drill making contact with rebar or tendon ducts, however, not only destroys the drill bit but also can lead to serious structural damage.

Before carrying out any maintenance work, it is vital to identify the location, orientation and depth of sub-surface metalwork. Elcometer has three covermeters in their range.

- **Reduce unnecessary boreholes** - Significantly reduces abortive drilling that not only costs both time and money but also weakens structural integrity.
- **Protect drills and reinforcement** - The Probe warns you before you hit metal, reducing damage to drills, tendons and rebars.
- **Drill holes faster and more safely** - Drill with confidence knowing that you're safe from hitting metal in the concrete over a measured distance
- **Install anodes accurately** - Use the Probe to install anodes at the correct distance from steel reinforcement.
- **Directional location field** - Rocker switch on probe head allows fast, easy change between forwards or sideways detection
- **Measures depth of hole** - The probe shaft is calibrated to measure depth drilled.



The 'easy' solution for finding tendon ducts and 'hidden' layers of rebar using a simple and reliable detection method.

Using the Elcometer Protovale 331 Covermeter, identify an area between the first layers of rebar - allowing you to drill a hole with a large enough diameter to fit the shaft of the Elcometer Borehole Probe.

The Elcometer Borehole Probe is then carefully pushed into the hole and information about the 'hidden' reinforcement, either (a) to the side of, or (b) in front of, the end of the probe, can be determined - see diagram. By rotating the probe and selecting the forwards or sideways sensing mode, reinforcement lying below the first layer of rebar can be quickly located.

By increasing the depth of the hole (if possible), and re-inserting the probe as necessary, the operator can quickly find steel rebars or tendon ducts deep within the concrete.

APPROXIMATE DETECTION RANGES TO THE SIDE AND IN FRONT OF THE BOREHOLE PROBE

| Steel Object | Probe Orientation (see diagram above) | | | |
|---------------------------------|---------------------------------------|-----------------|-------------------------------------|-------------------|
| Reinforcement Bar | side of the probe (a): 45mm (1.77") | | in front of probe (b): 60mm (2.36") | |
| Tendon Duct - 70mm (2.75") Dia. | side of the probe (a): 60mm (2.36") | | in front of probe (b): 90mm (3.54") | |
| Measurement Length | Metric | Imperial | Shaft Marking | every 1cm or 0.5" |
| Short Probe | 0 – 34cm | 0 – 16" | Shaft Diameter | 16mm (0.62") |
| Long Probe | 0 – 100cm | 0 – 40" | Optimum Hole Dia. | 20mm (0.78") |

| Model | Description | Part Number | |
|-------------------------------|---|--------------|--------------|
| | | Metric | Imperial |
| Borehole Probe (Short) | Elcometer Borehole Probe: Short Version | TW33119223-1 | TW33119223-3 |
| Borehole Probe (Long) | Elcometer Borehole Probe: Long Version | TW33119223-2 | TW33119223-4 |

Related Products



Elcometer 331 Model B

Measuring concrete cover thickness with unparalleled accuracy the Elcometer Protovale 331 Model B is an entry level gauge for users who simply want to identify and measure the depth of the rebar.



Elcometer 331 Model S

The Elcometer Protovale 331 Model S Covermeter includes all of the features, flexibility and ease of use of the Model B, and has additional functionality making it the gauge of choice for structural and civil engineers and surveyors alike.



Elcometer 331 Model T

Incorporating all the features and functionality of the Model B and Model S Covermeters, the Model T comes with the additional ability to store in excess of 65,000 readings in either individual batches or multiple spreadsheet (grid) style batch surveys.

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