

3D Crackmeter

Applications

The Model 4415 3D Crackmeter is designed for the measurement of...

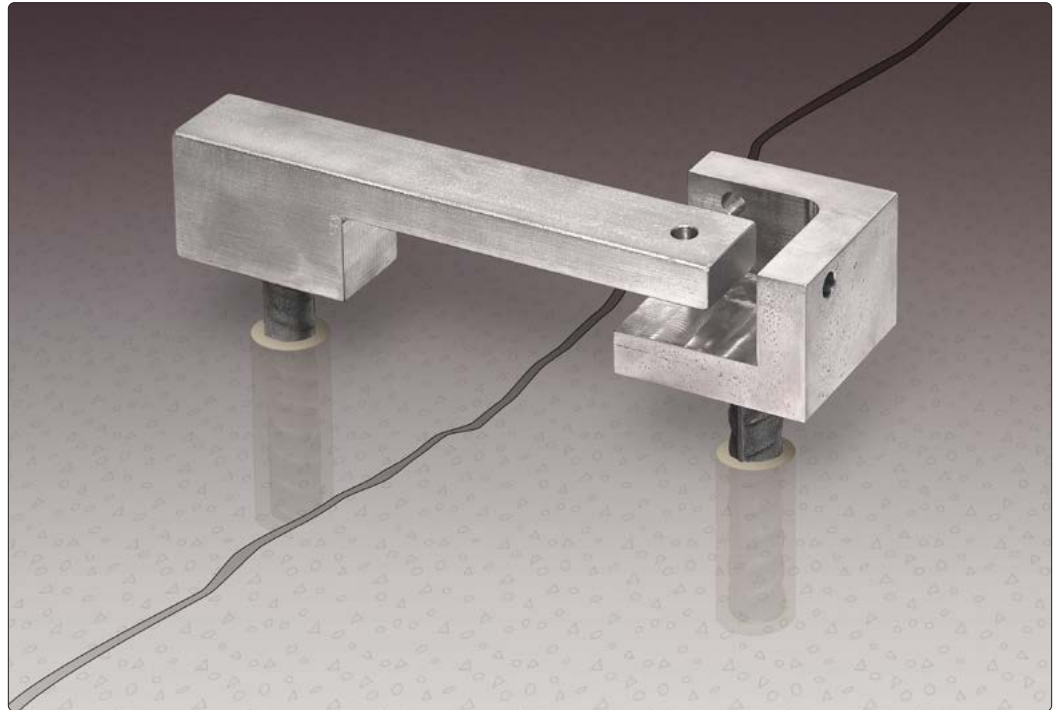
- Cracks in concrete or masonry structures
- Construction joints in mass concrete



• Model 1400-1 Dial Indicator (top) and Model 1400-4 Digital Depth Micrometer.



• Closeup showing alignment blocks, used during installation, for correct spacing.



• The Model 4415 3D Crackmeter.

Overview

The Model 4415 3-Dimensional Crackmeter is a simple and rugged instrument designed to manually measure the displacement across cracks and/or expansion joints in three directions. The Crackmeter is manufactured from stainless steel, for optimum corrosion resistance, and is supplied in two halves that are mounted, using groutable rebar anchors, on either side of the crack or joint.

Once installed, measurements are made using a depth micrometer or dial gauge that is inserted into each of the three access holes. Displacements (direction and magnitude) are determined by comparing the base readings with the current readings.

Accessories

Alignment blocks are used for correct spacing during installation (shown at left).

Technical Specifications

Crackmeter	
Mechanical Range in each X, Y, Z axis	4415-1: 0-12.5 mm 4415-3: 0-25 mm 4415-5: 0-50 mm
Material	stainless steel
Anchors	#4 rebar
Anchor Dimensions (Ø × H)	12 mm × 150 mm
Typical Depth Micrometer/Dial Gauge	
Range	50-150 mm
Resolution	0.01 mm
Accuracy	0.05 mm

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