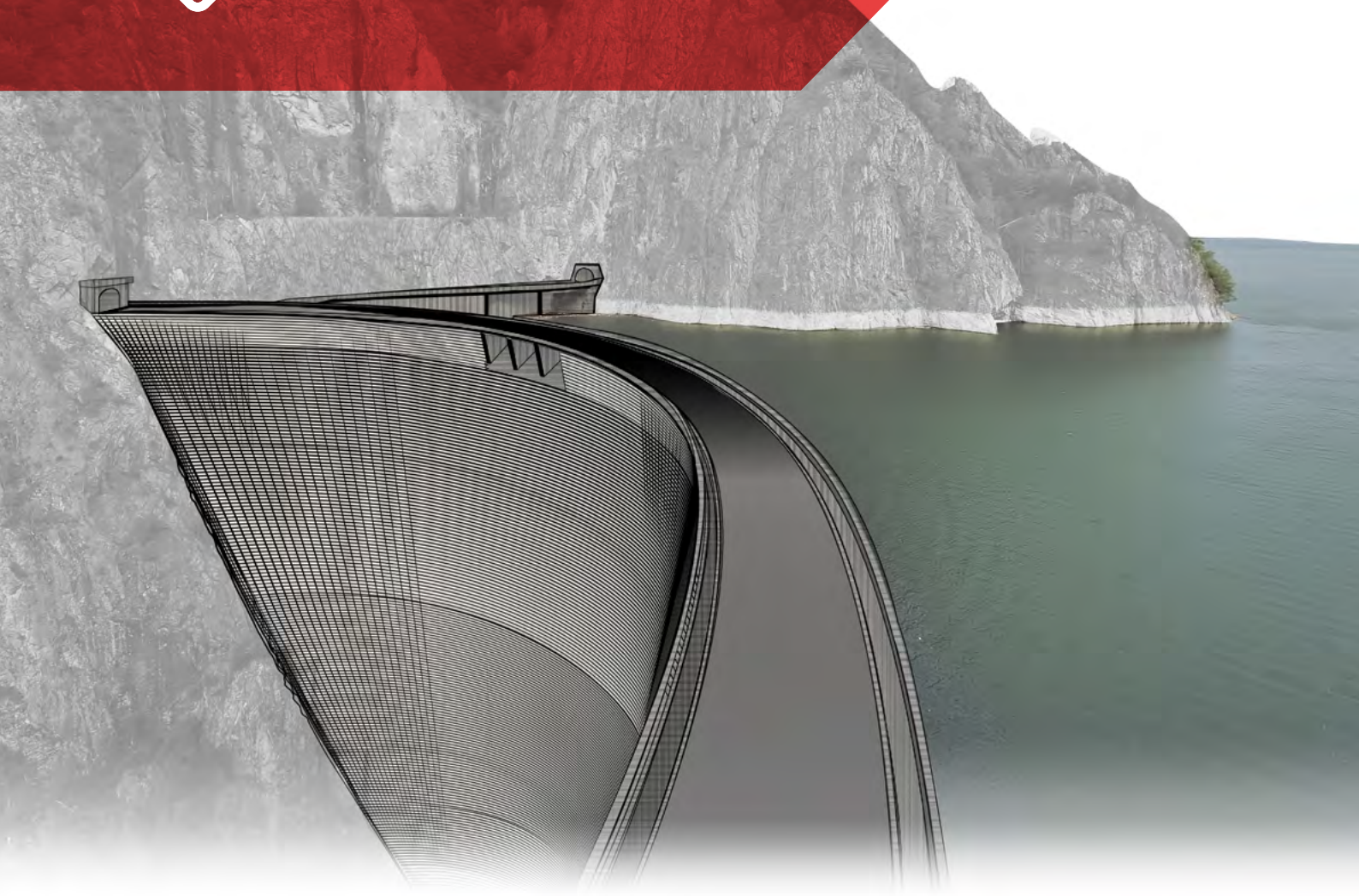
pizzi instruments



Mechanical 3D Deformometer

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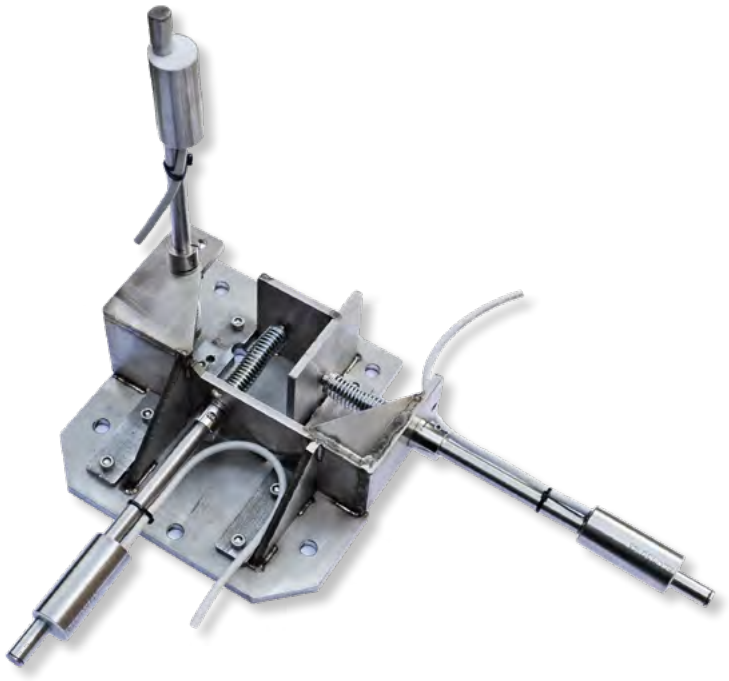
Instruments and Systems for Geotechnical and Structural Monitoring

Mechanical 3D Deformometer



Description

The mechanical 3D joint meter is a very simple and extremely strong instrument that allows automatic or manual measurement of the movements of cracks or joints in concrete and rock, in the three directions X, Y, Z.

The 3D deformometer consists of two steel elements (3D block), positioned either side of a crack, on which three linear displacement transducers of vibrating wire can be applied.

The vibrating wire 3D joint meter can be read either with our portable units (DEC 3000 and DEC 5) or with our dataloggers (CUM3000, VW hub 2, VW hub 8, CRio VW).

Manual reading by analog or digital dial gauge is always possible.

Our joint meters can be integrated into automatic monitoring systems and manage phenomena and alarms locally and remotely in real time. For specific needs and requests, we are able to develop and manufacture customized products different to standard.

Features and benefits

- **Simple**
- **Sturdy**
- **Able to perform measurements in both automatic and manually**
- **Made of stainless steel**

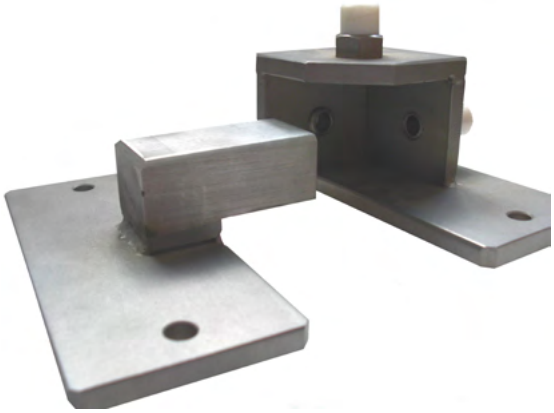
Applications

Normally used with:

- **Slots**
- **Joints**
- **Dams**
- **Bridges**
- **Galleries**
- **Buildings**
- **Viaducts**
- **Rock**

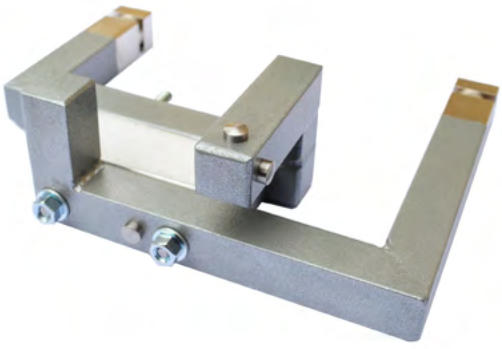
Measurement principle

The 3D deformometer is made entirely of stainless steel, it is constituted of two separate parts, applied to the two adjacent blocks whose movements are to be measured. Measurement is performed manually or with comparator gauge, or automatically by applying vibrating string transducers or other types of sensors on request. Manual and automatic measurement instruments are supplied separately.



Deformometro 3D_20

Deformometro 3D_50



Deformometro 3D_M

Technical specifications

Model	Deformometer 3D_20	Deformometer 3D_50	Deformometer 3D_M
Range (mm)	X=20; Y=20; Z=20	X=50; Y=50; Z=50(100)	X=50; Y=30; Z=100
Measurement	Manual or automatic	Manual or automatic	Manual
Material	Stainless steel	Stainless steel	Stainless steel
Dimensions (mm) L x W x H	160 x 90 x 60	220 x 200 x 100	200 x 150 x 60

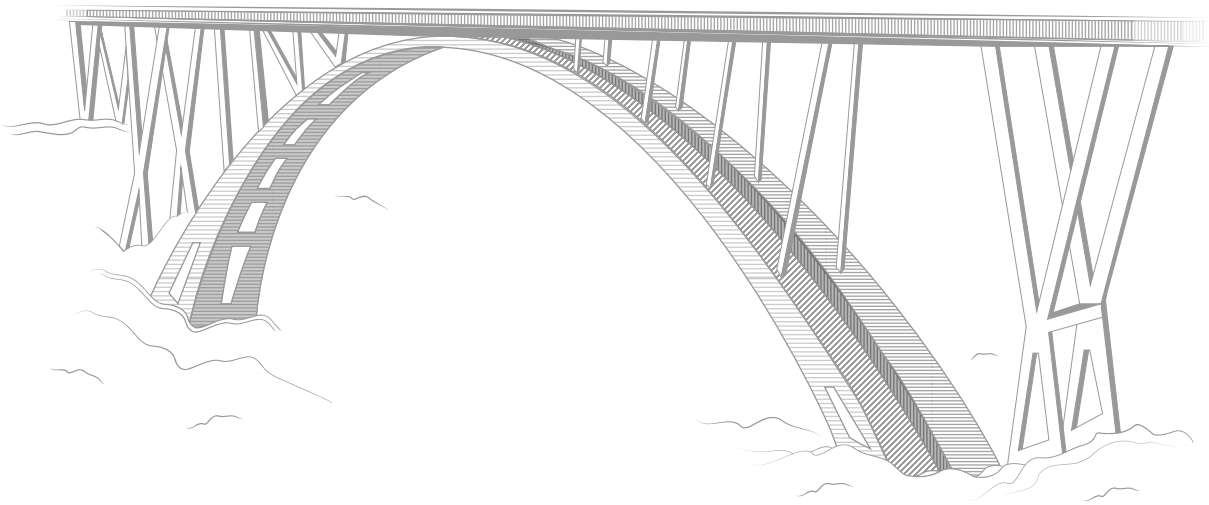
Accessories and related products

Displacement Transducers	Displacement linear vibrating wire transducer to automatize the 3D measurements
Caliber	For the manual Reading of the 3D displacements on the deformometer
Dial Gauge	For the manual Reading of the 3D displacements on the deformometer

The Company

For over 40 years we have been producing precision and large facility monitoring instruments sold throughout the world.

Accuracy in design, efficiency in construction, reliability in management; these are the prerogatives that every major work must have and that Structural Monitoring Systems must guarantee.



Technical assitance

If you have any requests or questions about our instruments or if you have special needs that require different solutions from the standard, please contact us. Our team will provide all the necessary information and will be very happy to work with you to study, develop and customize instruments and solutions suitable for your specific needs.

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