



# MGM250 MECHANICAL DEFORMOMETER

The MGM250 mechanical deformometer, also known as a removable gauge, is a measuring instrument suitable for evaluating amplitude variations (relative displacement) between two points, with order of magnitude a thousandth of a millimetre.

This instrument, strong in its reliability and repeatability of measurements, is mainly applied in crack pattern monitoring operations or in deformability testing with the use of flat jacks. We can find mechanical or electronic type deformation meters, depending on the transducer which is being used for measurement.

On client request, DRC can manufacture deformometers with different lengths and measuring range.



## ERGONOMICS AND SUSTAINABILITY

The MGM250 mechanical deformometer is made with carefully selected and low environmental impact materials. The small size and handiness of the instrument make it possible to check a structure in multiple positions in a short time.

The MGM250 deformometer is entirely made in Italy.

## ACCESSORIES

### CALIBRATION TEMPLATE

This is made of INVAR (steel with a low thermal expansion coefficient) and allows:

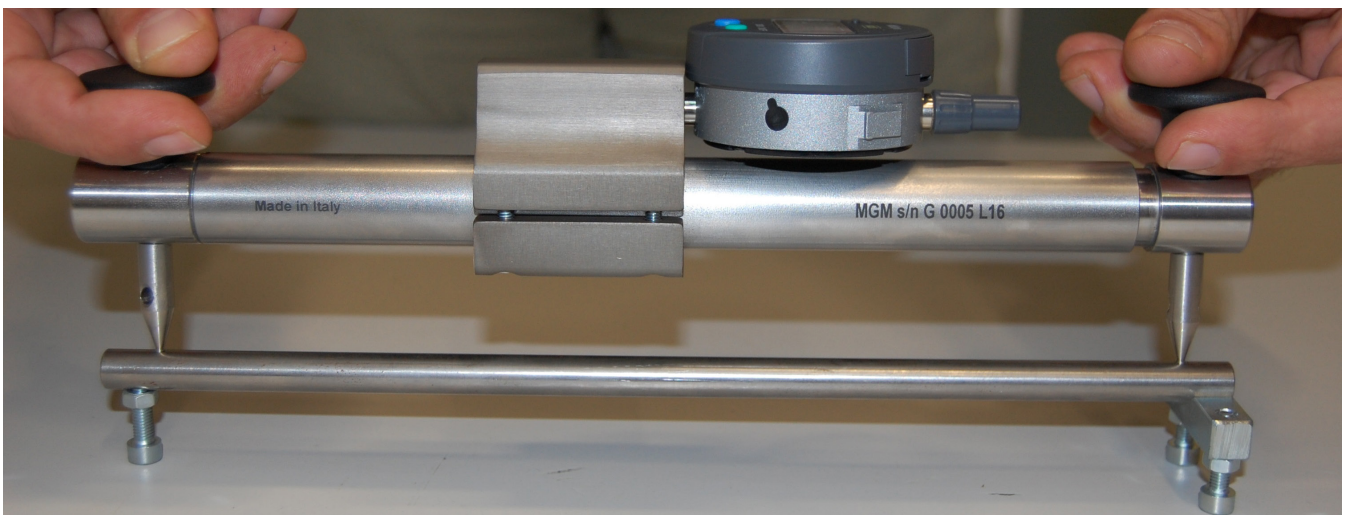
- elimination of deformation of the instrument caused by the thermal effect on it;
- precise determination, for each measurement base, of the starting distance and the distance in subsequent measurements.

### POSITIONING TEMPLATE

An aluminium product which allows the essential elements (stripboards and perforated plugs) to be positioned at a pre-set distance with maximum precision.

### PIVOTS FOR ORTHOGONAL MEASUREMENTS

Determines the measurement of movements between essential elements applied to orthogonal elements.



## FIELD OF APPLICATION \*

- Monitoring crack patterns;
- Measuring relative displacement between benchmarks applied on structural elements;
- Displacement measurement in investigations using flat jacks.

\* For the proper use of the equipment, see [www.drcitalia.net](http://www.drcitalia.net) - Download Area section WebHelp Area.



## TECHNICAL SPECIFICATIONS

### PERFORMANCE

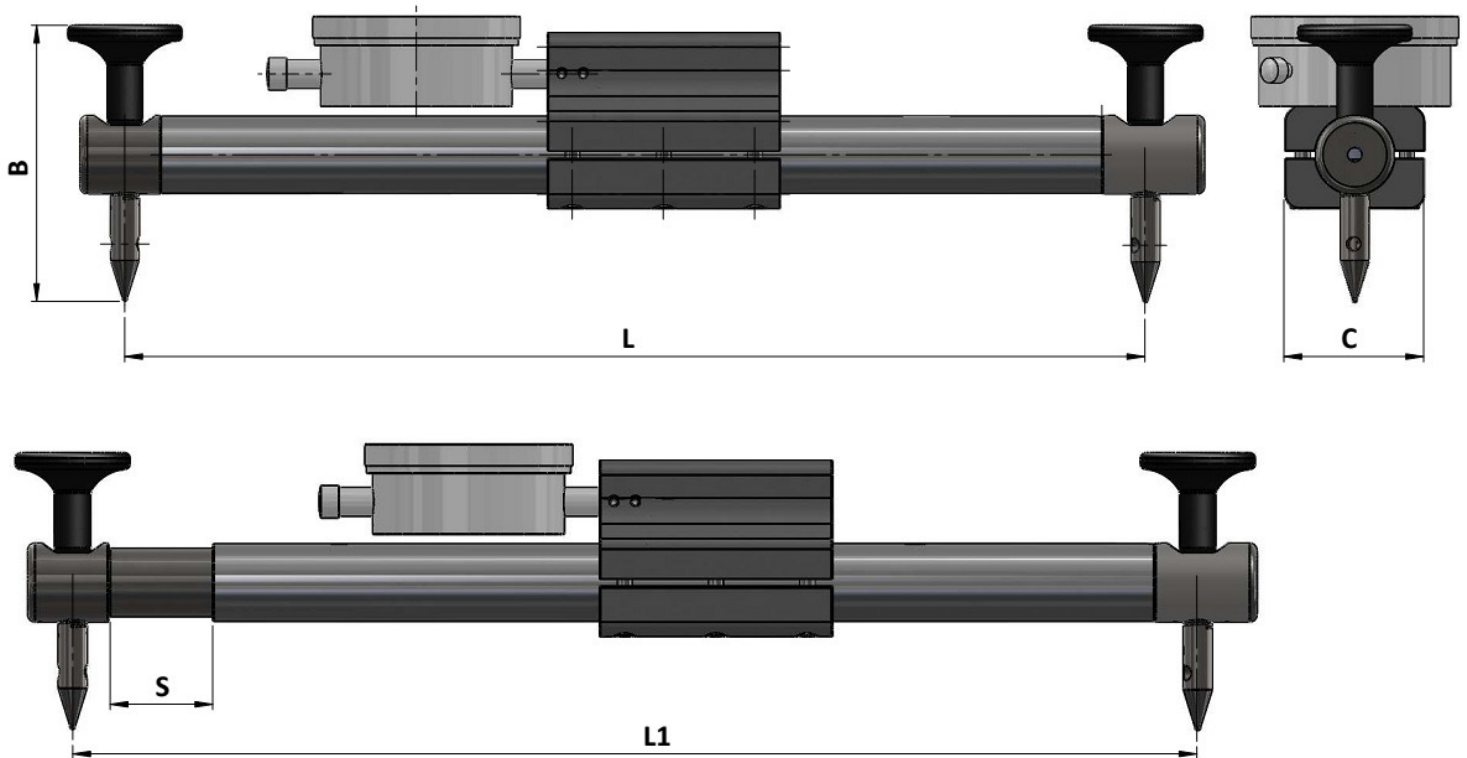
DATA VISUALIZATION	DIGITAL or ANALOGICAL GAUGE
ACCURACY	0,001 mm type M 0,01 mm serie C
REPEATABILITY	0,001 mm e 0,01 mm

### PHYSICAL

DIMENSIONS	see table below
WEIGHT	It depends on the model

### MECHANICAL

CASE	STEEL INOX 303
INSIDE COMPONENTS	STEEL INOX 303 ALUMINIUM 11S
CALIBRATION BAR	INVAR
SAMPLE	Aluminium 11S



ITEM CODE FOR ORDERING	MODEL	L	L1	B	C	S
01.DRC.0904	MGM 170	170	$L + S/2$	55	40	12
01.DRC.0907	MGM 250	250	$L + S/2$	55	40	12*
01.DRC.0905	MGM 350	350	$L + S/2$	55	40	12*
01.DRC.0909	MGM 500	500	$L + S/2$	55	40	12*

\* THESE MODELS CAN BE REALIZED WITH A MEASUREMENT RANGE (S) OF 30MM



## THE KIT INCLUDES:

- Crack Monitoring device MGM
- Support for deformometer
- Gauge
- Calibration Rod
- Sample rod
- Datum point 50pcs
- Allen key
- Operating Manual
- Rigid case IP67

## PACKAGE (MODEL MGM250)

DIMENSIONS	405 x 330 x 165 mm
WEIGHT	4,4 Kg

## WARRANTY & MAINTENANCE

24  
months

DRC guarantees maintenance service at its center or at authorized centers.

**DRC**  
Diagnostic Research Company  
Non Destructive Testing

