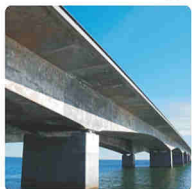


# CRACK GROWTH MEASUREMENT

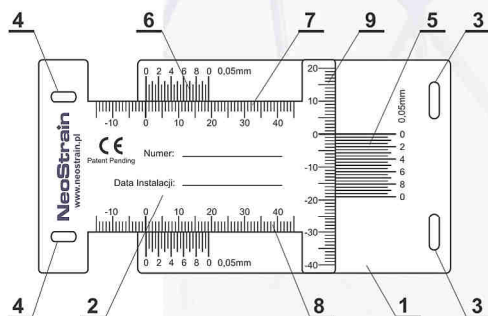


NEW DESIGN

## CRACKMETER WR05 MODEL

Gaps and cracks in building structures are a common occurrence. These types of damages occur as commonly in brick structures as in concrete (reinforced concrete, compressed concrete constructions).

One of the most commonly used methods to survey if a given fissure or crack volumetrically “shifts” with time, is the so-called “glass method”. This method is held as a cure-all for all structural damage. The brittleness of glass makes even the slightest change in fissure width (less than 0.1 mm) result in the breaking up of the “measurement instrument”. From an engineering point of view, these deformations are most often virtually harmless for brick and concrete structures. Additionally, fissured glass exerts a very unfavorable impression on the owner or tenant of the building, in whose mind such a sight gets associated solely with progressive structural decay.

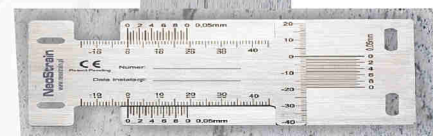


- 1) Bottom plate with vernier scale
- 2) Top plate with millimeter scale
- 3) Mounting peg openings
- 4) Mounting peg openings
- 5) Vertical vernier scale
- 6) Horizontal vernier scale
- 7) Horizontal millimeter scale
- 8) Secondary horizontal millimeter scale
- 9) Vertical millimeter scale

The crackmeter we are presenting to you allows the measurement of fissure shifts in two perpendicular directions. The device can also be used to measure width of expansion joint changes. The installation of the gauge indicates not only that the width of the fissure had shifted but also, most importantly – it allows us to measure that shift. As a result, this type of measurement allows an assessment of the actual technical condition of the surveyed structural component.

All of the components of the gauge are made of stainless steel which makes them wholly resistant to the impact of the environment. These devices can therefore be successfully used both internally as well as externally in a building structure.

The crackmeter is protected by patent law



- Displacement measurement in two perpendicular directions
- Rotation angle measurement
- 0.05 mm resolution
- Measurement range -15 mm to +20 mm
- Simple installation
- Additional mounting grips come with the set

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MEASURING TECHNOLOGY

# CRACK GROWTH MEASUREMENT

## Simple installation



1



2



3



4



5



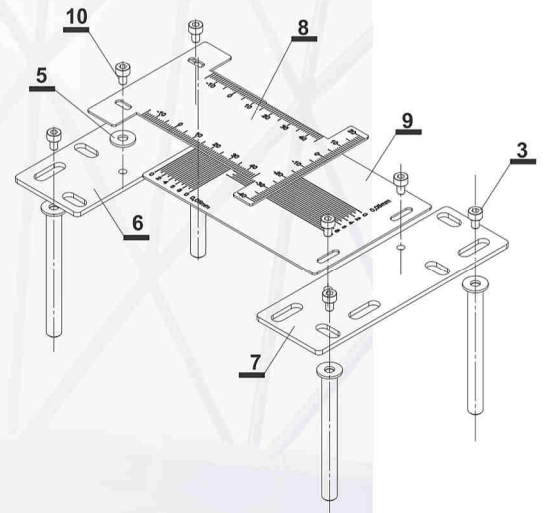
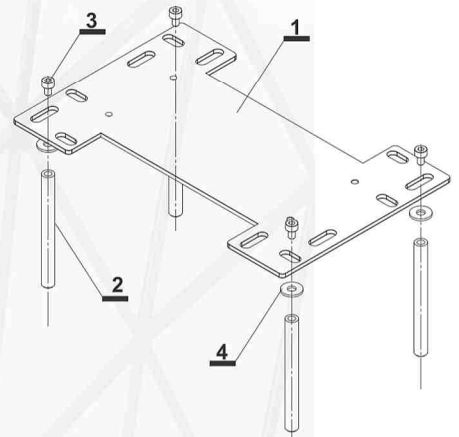
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7



8



**Pic. 1** Surface preparation – plaster removal

**Pic. 2** Marking off of chemical anchor openings – it is possible to place the anchors in templet holes of choice

**Pic. 3** Execution of hole openings

**Pic. 4** Removal of drilling debris

**Pic. 5** Filling the holes with resin compound

**Pic. 6** Installation of the anchors mounted on the templet

**Pic. 7** Mounting of locating plates to glued anchors

**Pic. 8** The templet following installation

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MEASURING TECHNOLOGY

We welcome your partnership – the NeoStrain group