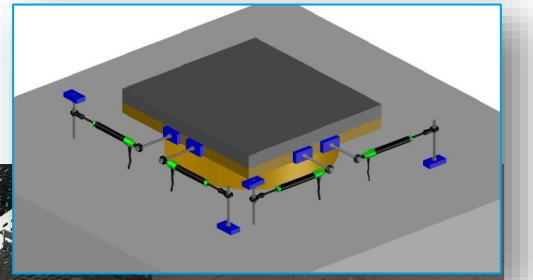
Monitoring Viaducts

Monitoring bearings





Background

A fundamental aspect in the maintenance of large works is checking the structural integrity of bridges and viaducts. Deciding to carry out effective monitoring is the key to accurately identifying areas to focus on for restoring the overall functionality of infrastructure in good time.

The solution

Sacertis Ingegneria designed a system to measure relative bearing-pillar and loadbearing slab-bearing movements, for the purpose of checking for the correct behaviour of the bordering elastomer disc bearings and relevant fittings connected to the structure. More specifically, a pair of linear displacement transducers was installed for each degree of freedom permitted by the bearing (one joined to the pillar and the other to the loadbearing slab), in combination with the *WineCap ™* data loggers.

The result

Consequently it was possible to measure relative movement and obtain the bearing displacement value.



WSD12T-DD

Capetti ELETTRONICA DAL 1973

SACERTIS INGEGNERIA

The winning choice WineCap

- ✓ WSD12T-DD (measurement of relative movement)