

METRO STATION BASTILLE - LINE 1 PARIS, FRANCE

Automated monitoring of metro tracks stabilisation during jet grouting works



The monitoring of the Bastille station was performed during 4 months by a CYCLOPS device from SolData.

This monitoring device, installed by night by our teams, enabled to measure with a precision inferior to a millimetre the movements of the tracks during the jet grouting works carried out by the company SOTEM.

The grouting being carried out by night, we have implemented an automated flashing light system enabling to inform immediately the staff onsite in case of important movements of the tracks, in order to quickly cut the injection flows.

The continuous measurements carried out enabled to control the effect of the grouting operations on the stabilisation of the settling phenomenon identified on the tracks

The Cyclops device (above, left) allows to measure precisely and continuously the targets located on the tracks (below, right)



CLIENT :	SOTEM
DATE OF WORKS :	2007
<ul style="list-style-type: none">• 35 prism targets installed in the station, on the tracks and the platforms• Installation by night• Flashing light device to indicate the limits have been exceeded• Data and SMS alerts transmission in real time with the GEOSCOPE supervision software	