

Accessories for Topography

for monitoring tunnels, geotechnics and structures



Applications

For the monitoring of convergences in tunnels under construction and in underground cavities such as tunnels, caves, plano-altimetric variations in excavations outdoors, landslides and on unstable rock masses, for the structural controls on buildings and infrastructures, OTR provides the following accessories:

- Reflective targets
- Convergence bolts
- Special prisms and miniprisms for monitoring.

The use of accessories such as topography targets, convergence bolts and prisms is ideal for permanent installations and are used in geotechnical and structural monitoring. These accessories can be fixed to the structure to be checked, and ensure excellent performance over time and good precision.

Uses


- Monitoring of deformations during the excavation of tunnels, subways, tunnels, underground caverns, mines and underground works
- Control of differential and absolute settlement of excavation outdoors
- Monitoring the movement of concrete walls and retaining walls
- Monitoring of landslides and slopes
- Monitoring of railway lines
- Structural monitoring


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Technical specifications

Code	O0TARG00030 O0TARG00050	O0TARGMET50	O0TARG01050	O0TARG02050
				
Description	Target reflective sticker with cross target (*)	reflective target to be cemented and / or weld	target with reflective target	target corner with reflective target
Target	30x30mm or 50x50 mm	50x50 mm	50x50 mm	50x50 mm
Support size		52x60 mm	70x75x4 mm	70x75x4 mm
Installation	adhesive	Rod L=200 mm	Dowel screw	Dowel screw
Range	measure with instruments prism mode: from 10 to 120 m for measuring instruments with direct reflex / reflectorless: 10 to 200 m depending on the tool			
For all reflectorless total stations and as a reference for alignment/positioning occurs with levels of precision optical				

Code	O0MP0254000	O0PRIS06500	O0BUL0A0200 O0BUL0F0200 O0BUL0F0500 O0BUL0F1000
			
Description	reflective prism (*)	Special prism for monitoring	Bolt convergence
Dimensioni prisma	25.4 – 32.0 mm	64 mm	Diameter 16 – 22 mm
Type di prisma	Quartz copper and silver	Quartz copper and silver	Length (available) 200-500-1000 mm
Overall dimension	90x80x30 mm	120x80x150 mm	Type of Engagement Ring or thread 3/8 "
Installation	L-bracket with hole 9 mm bar dowel screw	Adjustable L-bracket with a hole for screw dowel	Material Steel
Range	From 0 to 2000 m, depending on the instrument used	From 0 to 2000 m, depending on the instrument used	Installation cement or solder
(*) For all work monitoring, guarantees a maximum range (depending on the instrument used) up to 1000 mt.			Suitable for all types of commercially distometers