

Rockfall barriers or catch fences are a key element in the maintenance of infrastructures and have a direct impact on safety of individuals. Real-time monitoring becomes necessary to check their performance and efficiency.

MONITORING ROCKFALL PROTECTION SYSTEM

I&C Italia designs and realises warning systems for real-time monitoring of rockfall barriers and catch fences.

Catchment barriers can be fitted with electro-mechanical tiltmeters mounted on posts and other sensors on screens to ensure the desired protection level is not degraded by impact damage exceeding the design limits of the protection system. Smaller rockfall events will not trigger an alarm, however, after very large events (that may or may not cause damage or allow material to pass the barrier) an alarm will be triggered enabling warning to road traffic and inspection of the site.



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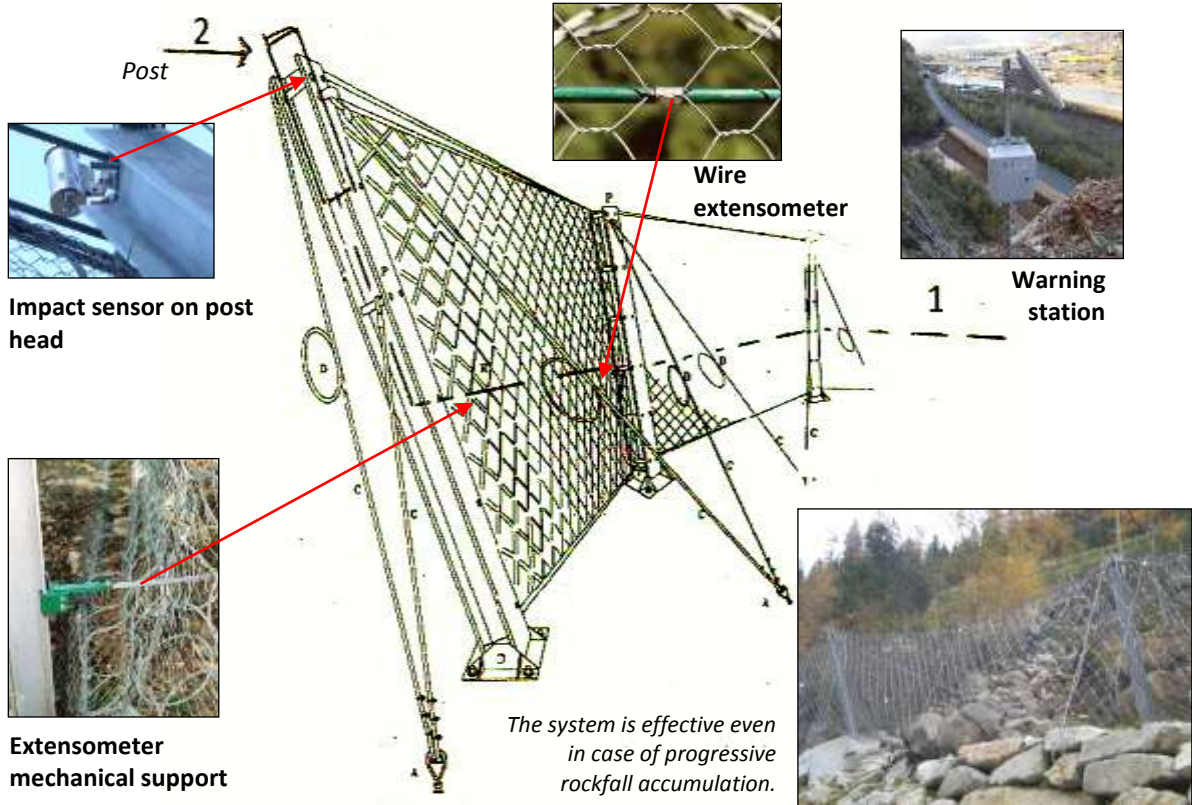
APPLICATIONS

I&C Italia provides instruments and support during installation of the monitoring systems on the following protective structure:

- ✓ Rockfall barriers
- ✓ Catch fences
- ✓ Pre-stressed and tie back anchors



ROCKFALL PROTECTION SYSTEM - COMPONENTS



ALARMS

If limit values or alert thresholds are exceeded, an alarm is sent out to the warning station enabling the activation of warning systems:

- Text messages to the person in charge
- Road barriers and traffic lights
- Sirens and/or revolving lights
- Video cameras



Warning station with GSM/GPRS modem connected to the maintenance department.

Ingegneria & Controlli Italia S.r.l.

Sede legale
Sedi operative

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