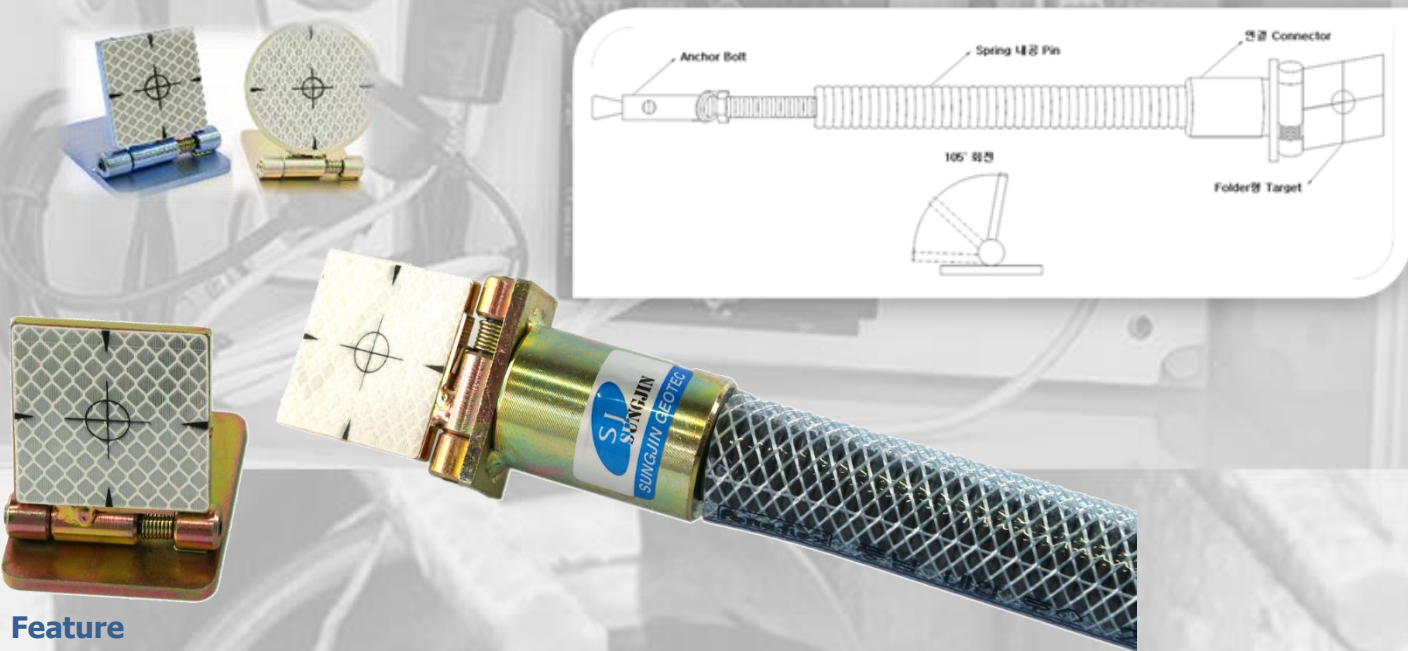


Description

The most important item in "A" measurement of the tunnel is the crown settlement and displacement measurement. The purpose of measurement for crown settlement and displacement is to check the stability of the surrounding ground of the tunnel as well as the development caused by the tunnel excavation so that the final displacement can be predicted and it will be an important data to determine whether the lining should be added or not. However, the thing is that the tunnel collapse accident is still happened due to many other reasons despite the engineer always stays at tunnel site to install various gauges and instruments to control the measurement. In order to make sure of the effect of the primary supporting material and stability of the tunnel in excavating the tunnel it is necessary to install the instruments at the near tunnel face as quickly as possible to do the measurement but the initial displacement is lost from time to time due to missed timing of the installation because of the shotcrete laying problem. If the instrument is damaged due to debris scattered when the excavation by machine and blasting is done at the same time, it is not easy to determine the entire stability because of lack of data continuity.



Feature

The conventional measurement target for crown settlement and displacement at the tunnel site can not do any resistance when the blasting is done and the target loss rate is as much as 20-30%. The conventional way is that they would delay the installation timing or separate the target according to the blasting time to reduce the loss rate and then they mount it again one by one to do measurement. However, spring folder type measurement target simply recovers to the original position by the spring and fixing device connected with the prism when it is hit by the debris scattered by blasting.

Specification

Model	SJ-8600 (Patent: 10-0951811)
Target material	Reflection sheet: Polyvinyl chloride. Main body: Steel
Target size	Reflection plate (45mmx50mm), Fixing plate(50mmx60mm), Thickness: 4mm
Target rotation angle	Φ56. 110° (One-way), Reset to the original position
Spring inner pin material	Special steel
Spring inner pin size	Spring inner pin (400mmx25mm), Target connector (50mmx25mm) Anchor bolt (145mm x 10mm), Total length when connected: 470mm
Spring inner pin rotation angle	180° (Front/Rear/Left/Right), Reset to original position

※ The product spec is subject to change without prior notice in order to enhance the product's quality.