

Rock Fall Monitoring Load Washer

Industry: Infrastructure

Summary

Customer Challenge

In rock fall monitoring, ensuring real-time detection and prevention of slope failures in high-risk areas like highways, tunnels, and mining sites. Traditional monitoring methods often lack precision in measuring the forces acting on protective barriers. Load cells play a crucial role by providing accurate force measurements on rockfall barriers and anchor points, enabling engineers to assess structural integrity and predict failures.

Interface Solution

Interface's LWHP18 High Capacity Precision Load Washer Load Cells provide a reliable solution for rockfall monitoring. The LWHP18's measure the forces exerted on protective barriers and anchor points on the rock wall being monitored. By integrating these load cells into monitoring systems, engineers can detect stress changes in real time, allowing for early warning of potential slope failures.

Results

Interface's LWHP18 High Capacity Precision Load Washer Load Cells successfully monitored rock falls by providing real-time, accurate data on the forces acting on protective barriers.

Materials

- LWHP18 High Capacity Precision Load Washer Load Cells
- Jam Nuts

How It Works

1. The LWHP18 High Capacity Precision Load Washer Load Cells are installed and anchored into a rock wall being monitored. Rod ends are inserted into the mounting hole of the load cell, ensuring it is aligned to measure the forces from rockfall impacts. The rod ends are secured with jam nuts and mounting plates.
2. The LWHP18's accurately monitor the forces acting on the structure during rockfall events.

