

Breaker Boom Automation and Tele-Remote System

Xrock is a state-of-the-art product family for breaker boom control. Suitable for grizzly and crushing operations both in underground and surface mines, Xrock helps to maximize productivity and safety while increasing rock breaking efficiency.

Xrock is designed to grow with your business – it's modular and scalable both in the features and in the number of booms and operator stations.



Xrock[®] **PLATFORM**

**Tele-remote and automation
system for breaker booms**

Xrock Platform is an advanced tele-remote and automation system for breaker booms, which combines hardware and software to provide excellent performance now and in the future. Xrock Platform consists of two types of subsystems: Operator Station and Boom System, which support multi-operation and are fully scalable to the mine's needs.

All the Xrock product options are flexible and scalable according to your mine's needs. Advanced options can be added to the products to further enhance the mine's operations.

Xrock[®] Tele-Remote

Tele-remote breaker boom control system for a single boom

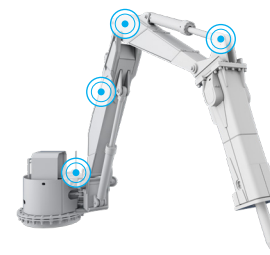
- High-quality video (2 standard and 2 optional cameras) feed from boom with optional audio
- Accurate manual boom control
- Ergonomic operator station
- Extra production hours over the blasting cycle and shift changes



Xrock[®] Smart

Extends the Xrock Tele-Remote capabilities with advanced operator assistance functions

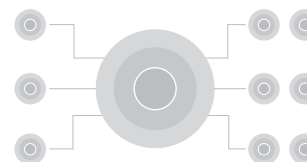
- Extends the Xrock Tele-Remote features
- Accurate real-time boom position calculation
- Two boom control modes: Manual and Tip Control
- Automatic boom movement to park or work position with single-button activation
- Cylinder end damping



Xrock[®] Fleet

Adds the multi-boom support to Xrock Tele-Remote and Smart systems

- Multi-boom operation in different combinations
- Single Operator Station – Multiple (2-4) booms
- Multiple Operator Stations – Multiple booms



ADVANCED OPTIONS

ANTI-COLLISION

On-line breaker boom collision prevention system (Smart only)

QUICK VIEWS

Fast, single-button video camera orientation to predefined viewing points

ADAPTIVE VIEW

Automatic video tracking of the breaker (Smart only)

ACCESS CONTROL

Light curtains for reliable segregation of boom working area