



# Breaker Boom Automation and Tele-Remote System

**RAMBOOMS OY**  
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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.

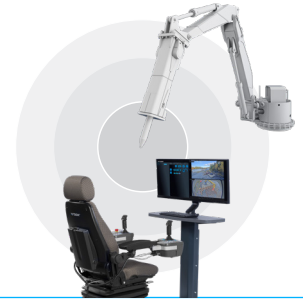
# XROCK<sup>®</sup> PRODUCT FAMILY

All the XROCK<sup>®</sup> 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<sup>®</sup> TELE-REMOTE

Tele-remote breaker boom control system for a single boom

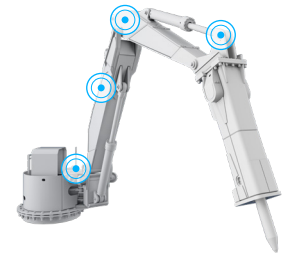
- High-quality video (2 standard and 2 optional cameras) feed from boom with optional audio
- Accurate manual boom control
- Ergonomic operator station
- Extra production hours over the blasting cycle and shift changes



## XROCK<sup>®</sup> SMART

Extends the XROCK<sup>®</sup> Tele-Remote capabilities with advanced operator assistance functions

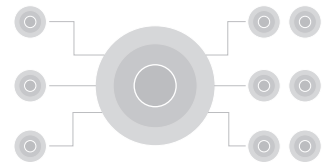
- Extends the XROCK<sup>®</sup> Tele-Remote features
- Accurate real-time boom position calculation
- Two boom control modes: Manual and Tip Control
- Automatic boom movement to park or work position with single-button activation
- Cylinder end damping



## XROCK<sup>®</sup> FLEET

Adds the multi-boom support to XROCK<sup>®</sup> 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