

QUARRIES ♦ SURFACE MINES ♦ UNDERGROUND MINES ♦ CONSTRUCTION ♦ TUNNELS

# E★STAR

## ELECTRONIC BLASTING SYSTEMS



### BENEFITS

- + HIGHEST LEVEL OF SAFETY AND SECURITY ON-SITE
- + EXCEPTIONAL, INDUSTRY LEADING LEAKAGE TOLERANCE
- + VIBRATION FREQUENCY OPTIMIZATION
- + PROCESSING COST REDUCTION
- + PPV / VIBRATION REDUCTION
- + BACK BREAK DAMAGE REDUCTION
- + FRAGMENTATION IMPROVEMENT



**AUSTIN POWDER**



E\*STAR Blasting Machines can fire up to 1,600 detonators at one time and can be connected together to fire up to 3,200 detonators.

### PRODUCT FEATURES

- + The detonator has a robust copper shell and high dynamic pressure resistance
- + Standard wire and heavy-duty wire both have an extra-long crimp plug for additional mechanical protection
- + Bus-line options include standard and heavy-duty
- + Color coded connectors are user-friendly and suitable for all harsh conditions
- + Delay range options from 1 to 20,000 milliseconds
- + E\*STAR Logger 2 allows for direct contact logging or touchless RFID logging, each programming up to 1,600 dets
- + Remote firing available for additional safety and security
- + Digital Blasting Machine can fire blasts reliably even with high levels of leakage present

**E\*STAR** is a fit-for-purpose electronic detonator-based blasting system that provides the highest level of quality, security, control, and precise timing to ensure compliant, consistent blasting results.

## E\*STAR SYSTEM

### Components

#### Electronic Detonators

Contains a capacitor, a logic and timing circuit, and explosives within a copper shell. Every detonator is equipped with a connector

#### E\*STAR Logger

An electronic device used to program detonators, verify detonators, measure leakage, and record detonator GPS position

#### Digital Blasting Machine

An electronic device used to verify, arm and fire detonators. Also available with remote control functionality

#### Wireless Remote Firing Device (WFRD)

Allows a blaster to control the blasting procedure from a safe distance without the need for lengthy copper wire link

#### Tester LM-2

An E\*STAR device that is used to identify problems such as detonator and ground current leakage



E\*STAR has the Industry-leading daisy chain connection method and exceptional leakage immunity.



E\*STAR Detonators are equipped with connectors that are weather-resistant, rugged, and easy to open with one hand.

### USED IN 1833, AND EVER SINCE.

Austin Powder is renowned for its unsurpassed customer service and its broad range of engineered solutions – from bulk trucks to underground units; emulsion technologies to electronic initiation systems; predictive vibration modeling software to optimized blast design. All solutions are developed to advance the safety, reliability, and efficiency of breaking rock.

