

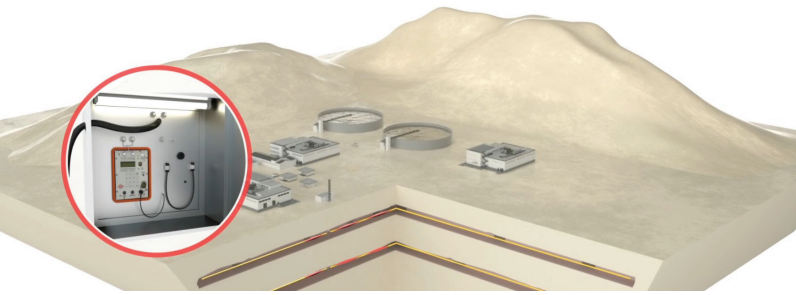
UNDERGROUND QUARRIES ◆ UNDERGROUND CONSTRUCTION ◆ UNDERGROUND MINES

E★STAR CUBE

CENTRALIZED UNDERGROUND
BLASTING EQUIPMENT



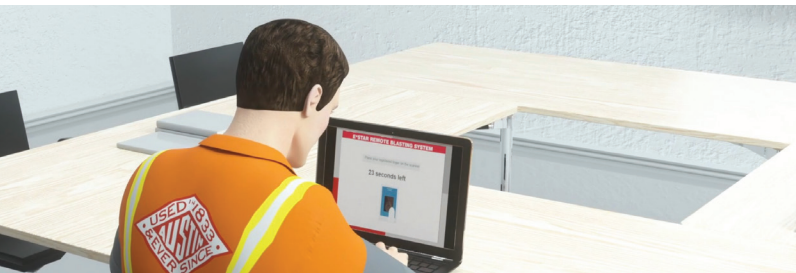
AUSTIN POWDER



Austin Powder has integrated their blasting technology into a mine's communication network to increase the safety and security of every blast initiated.

SYSTEM BENEFITS

- + Safety, blasting with no personnel inside the mine
- + Timing and sequence controlled firing from a secure place, such as the surface of the mine
- + Reduction of non-productive initiation of blasts one-by-one
- + Production maximization



SECURE SOFTWARE

- + Only a securely configured PC or tablet can activate the Blast Machine
- + Communication is encrypted between the PC and the Blast Machine
- + A secure, sentinel key is necessary to initiate the blast
- + Additional safety controls with numbered password
- + Access control to the software with optional digital fingerprint

E★STAR CUBE is a centralized remote blasting system for underground mines that utilizes fiber optics/Ethernet for communications. The E★STAR CUBE is capable of initiating the blasts from a command control point located in a secure place, or from the surface of the mine, with no need to have personnel inside the mine.

E★STAR

Centralized Underground Blasting Equipment

Components

E★STAR Logger

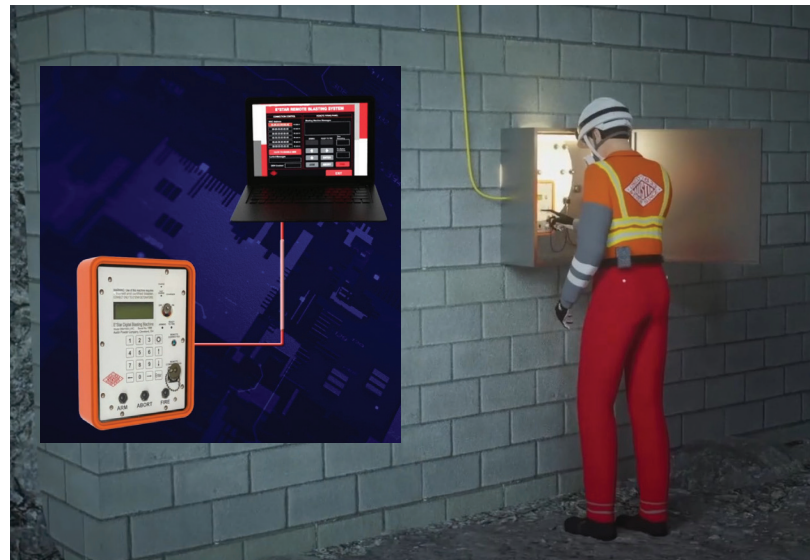
Capacity 1600 detonators

Digital Blasting Machine

Capacity 1600 detonators

Multi-functional Device

The system has a capacity of up to 8 Blasters for 12,800 detonators. It can only be used by assigned personnel trained by Austin Powder



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.