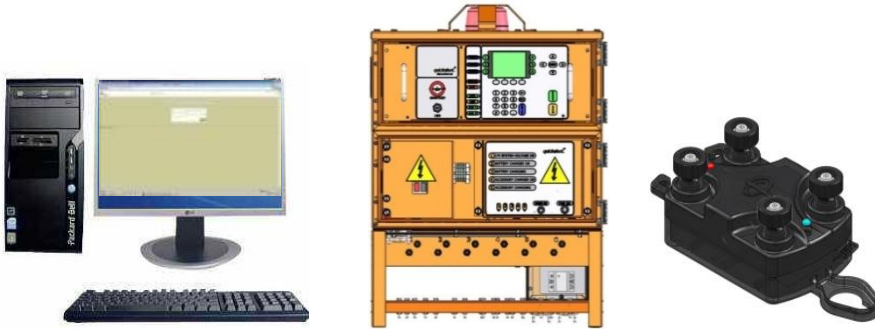


# BlastWeb™ Initiation System

Technical  
Information



## Description

BlastWeb™ is an electronic blasting system specifically designed for underground blasting operations. The BlastWeb system can be used to initiate Dyno Nobel electronic detonators, as well as detonating cord via a DriftShot™ Starter, allowing for initiation of multiple development faces and production blasts. The BlastWeb system can be used as a stand-alone system or as part of a centralised blasting network.

The BlastWeb system consists of the following main components:

### Blast Control Unit (BCU) which provides:

- Upstream communication to surface via various communication networks;
- Downstream communication to terminators and initiators via the blasting network;
- Secure local and remote blasting by using the relevant blast key;
- Diagnostics on all connected components.

### Surface Blast Controller (SBC) which provides:

- Ability to fire multiple BCUs from a centralised point, either from surface or underground;
- Continuous communication with all connected BCUs at the underground work place, providing real time information on all connected components;
- Logging of all events and generation of blast reports.

## Properties

Temperature Limits	-10°C to +50°C
Power Supply (BCU)	110V; 220V; 525V
Battery (BCU)	User replaceable/rechargeable 12V 9AH sealed lead acid battery
Weight (BCU)	± 50Kg
Dimensions (BCU)	L = 540mm; W = 480mm; H = 730mm
External Connectors (BCU)	SmartKey; USB; (RS-232 & RS-485 for expansion – rear of unit)
Water Resistance (BCU)	Splash proof (IP64)

### 2-wire Terminator which provides:

- A visual indication to the user that the integrity of the blast network is in order, and that the BCU has detected a good detonator installation at the face;
- Electrical energy absorption as a result of the effects of the blast. This potentially damaging energy is absorbed by the terminator and not the BCU.

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## Features & Benefits

The BlastWeb system enables customers to safely and reliably initiate blasts in an underground environment, both NONEL® and Electronic, from a single point on surface or at the BCU.

The 6-channel BCU can fire most Dyno Nobel electronic detonators, viz SmartShot®, DriftShot and DriftShot Starter.

All events are logged by both the BCU and the Surface Blast Controller. The Surface Blast Controller is capable of generating blast reports at any time.

The ability to fire from surface allows the mine to clear prior to firing, ensuring personnel safety.

The BlastWeb system is able to use existing communication systems installed on customer sites.

An added feature is the ability for the BCU to control the switching of underground fans and pumps.

Constant communication feedback throughout the shift on the status of the detonators allows maintenance to be conducted on damaged firing cables, thus ensuring all shots are fired successfully.

## Application Recommendations

Due to the system's flexibility, contact your local Dyno Nobel representative for application recommendations.

## Applicable Standards

Detonator passes tests specified in:

**SANS 1717-1** (South African National Standard for The Design and Approval of EDD initiation systems for use in mining and civil blasting); and

**CEN 13763-27**: European CEN-testing specification for Explosives for civil uses – detonators and relays.

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