

i-kon™ Electronic Blasting System



Description

The *i-kon™* Electronic Blasting System comprises:

- *i-kon™* Electronic Detonator
- *i-kon™* Logger (assign and record delay times and test)
- *i-kon™* Blasters 400 & 2400S (high security firing system)
- *i-kon™* SURBS (Surface Remote Blasting System)
- *i-kon™* CEBS (Central Blasting System for underground)

In addition to the hardware, the *i-kon™* System includes SHOTPlus®-i blast design software.

Applications

The *i-kon™* system is the most advanced Electronic Blasting System on the market, designed for use in high value and complex blasts at large surface and underground operations. *i-kon™* electronic detonators are also available with rugged leg wire as *i-kon™* RX.

Key Benefits

- Delays up to 15 seconds, large blast capacities (4800 dets), and integration of the system with SHOTPlus-i blast design software, allows new blast designs and outcomes that are impossible with conventional initiation systems (e.g. massive pillar recoveries, ore-waste separation blasting)
- 2-way communication and high precision lead to improved blast safety, especially in drastic reduction in flyrock, more stable highwalls, and the virtual elimination of unexpected misfires

- The programmability and precision of *i-kon™* detonators result in more controllable blast results including reducing the intensity and increasing the frequency of ground vibration
- The *i-kon™* system reliably places many blast benefits within easy reach – better fragmentation (reduced oversize and fines), better heave or cast, expanded blast patterns, etc.
- The programmability of *i-kon™* electronic detonators allows significant reductions in inventory, makes ordering easier and eliminates the accumulation of obsolete initiation products in magazines

Recommendations for Use

- *i-kon™* detonator delays are defined with the *i-kon™* Logger and programmed and initiated through the use of the *i-kon™* Blasters.
- *i-kon™* Detonators are explosive devices and should be handled with care. *i-kon™* Loggers and Blasters are electronic devices designed to withstand normal mine, quarry and construction environments but submersion in water and excessive impact should be avoided.
- *i-kon™* Detonators can only be tested, programmed and fired with *i-kon™* Loggers and Blasters. Do not use any other programming or blasting equipment.
- Not to be used in mines with hazards of coal dust or fire damp explosions.

Technical Properties

Lead wire (mm)	Standard RX	0.6 / Steel 0.6 / Steel	
Insulation diameter (mm)	Standard RX	1.35 1.8	
Wire tensile strength (N)	Standard RX	200 250	
Insulation	Standard RX	PP TPU	
Wire color	Standard RX	yellow / yellow red / red	
Base charge (mg)		Pentolite alternative PETN 750	
Initiating charge (mg)		Lead Azide 60	PETN 20
Connector	Material Color Terminals	PE orange brass	

i-kon™ Electronic Blasting System

Product Classification

Authorised Name: *i-kon™ Detonator*
 Proper Shipping Name: Detonators, electric
 UN: 0030 0255 0456
 Classification: 1.1B 1.4B 1.4S
 EC Type Certificate: 0589.EXP.0846/00
 Approval Number: -

Authorised Name: *i-kon™ Detonator RX*
 Proper Shipping Name: Detonators, electric
 UN: 0030 0255 0456
 Classification: 1.1B 1.4B 1.4S
 EC Type Certificate: 0589.EXP.1098/05

Authorised Name: *i-kon™ Logger*
 EC Type Certificate: 06150100

Authorised Name: *i-kon™ Blaster 400*
 EC Type Certificate: 01190201

Authorised Name: *i-kon™ Blaster 2400S*

Storage and Handling

i-kon™ Detonator and i-kon™ Detonator RX

- Transport and storage temperature range from -40 °C to +50 °C.
- Operating temperature range from -40 °C to +70 °C.

Hardware

- Store at moderate temperatures and humidity.
- Use in the temperatures range -20 °C to +60 °C.

If your application requires you to operate the *i-kon™* System outside these temperature ranges please contact your local Orica Account Manager.

Packaging Details

i-kon™ Detonator

Lead Length (m)	1.1B Units per Case	1.4B Units per Case	1.4S Units per Case
6	80	80	40
15	54	54	32
20	54	54	32
30	40	40	32
40	30	30	16
60	20	20	16

i-kon™ Detonator RX

Lead Length (m)	1.1B Units per Case	1.4B Units per Case	1.4S Units per Case
10	54	54	32
15	54	54	32
20	40	40	32
30	30	30	16
40	25	25	16
60	15	15	12

Harness Wire

High quality *i-kon™* Harness Wire is used to connect up the *i-kon™* System in the field. Other wire may look similar, but will not offer the same critical performance characteristics and is not recommended.

Trademarks

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