

ROYEX

ROCK BREAKING SYSTEM

The Royex initiation machines offer a high quality system of superior safety, efficiency and reliability.

Royex initiation machines Mars and Bart are designed for the Royex igniter characteristics. The igniter boxes can also be used for standard detonators, class 1, 2 and 3.



Initiation machine Bart 1

Bart is our large and rugged blasting machine, designed for rough handling in large scale rock breaking operations. The Bart comes with a manual operated generator for capacitor loading and line testing. The maximum capacity is 8 Royex cartridges contacted in serial. The electronics and hand generator of the blasting machines are built into a hard aluminum case equipped with a carrying handle. To control the line resistance the blasting machine is equipped with intergraded safety line tester. Bart is water proofed and simple to operate.

The machine can be supplied with a removable crank handle.

General specifications – Bart 1

Output voltage:	940 V
Cartridge capacity:	8 Royex cartridges
Energy:	9,3 Joules
Condenser capacity:	23 μ F
Test circuit:	yes
Test current:	1 mA
Operational temp:	-20° to +55° C
Safety class:	IP65
Weight:	1,3 Kg
Size:	200x143x55 mm
Certification:	CE (EMC directive)



Initiation machine Bart 2

The BART 2 is high-energy initiation machine that packs more power than BART 1. Due to improved energy storage technology, BART 2 increased capacity allows for 20 Royex cartridges in series. It enables to blast most of insensitive electric detonators including class C4 high insensitive detonators. For this purpose, it is remarkably lightweight and compact device. BART 2 has a hand generator for capacitor loading, therefore batteries are not needed. It is a rugged device intended to be used in hard conditions, as the electronic part and voltage generator are placed into a sealed hard aluminum case.

General specifications – Bart 2

Output voltage:	1250 V
Cartridge capacity:	20 Royex cartridges
Energy:	88 Joules
Condenser capacity:	110 μ F
Test circuit:	yes
Test current:	1 mA
Operational temp:	-20° to +55° C
Safety class:	IP165
Weight:	1,4 Kg
Size:	200x143x55 mm
Certification:	CE (EMC directive)



Initiation machine Mars2

MARS 2 is our compact, battery driven (2 x 9V batteries), electronic capacitor blasting machine with built in ohm-meter. The machine is charged with aid of built in batteries and is operated by means of two spring loaded switches that short-circuit the capacitors in the rest position. The built in ohm-meter allows the operator to check for short-circuits and resistance. MARS uses a color coded digital voltage meter to illustrate current battery levels and comes with a built in temperature compensation function. MARS is waterproof and very easy to use.



General specifications - Mars

Output voltage:	460 V
Cartridge capacity:	5 Royex cartridges
Energy:	7,2 J
Condenser capacity:	64 μ F
Test circuit:	yes
Test current:	1 mA
Operational temp:	-20° to +40° C
Safety class:	IP65
Weight:	0,36 Kg
Size:	200x100x50 mm
Certification:	CE (EMC directive)