BART-2

Hand Cranked High Energy Blasting Machine

BART-2 is a powerful high energy hand cranked blasting machine. The device uses a hand generator and the operator does not need an external power supply or batteries. The blasting machine is portable, compact and lightweight, and can easily be operated by a single person.

BART-2 can be used to detonate most insensitive electric detonators that require high energy to detonate, including class C4 highly insensitive detonators.

The blasting machine includes a number of important safety features to avoid accidental detonation. The crank handle can be removed by the operator when the firing line and the detonators are inspected, or not ready to be fired yet. BART-2 also includes a mechanical safety cover above the terminals that prevent cranking when the line is connected. Lastly, there are two FIRE buttons that need to be pushed simultaneously for detonation.

The device comes in an aluminum enclosure that includes ON-OFF/L-test switch, terminal**s** for connecting electric detonator line, and a crank handle for capacitor charging. Both sides of the panel include “READY” LEDs to indicate the capacitor charge state.

BART-2 is rated IP65 under the international IEC 60529 standard and is splash and dust proof.

To test the line resistance, Englo’s OOM-4 digital line tester should be used.

BART-2 Features and Benefits:

- High-energy blasting machine
- Mechanical safety block engaged during connecting and loading the line
- Removable crank handle
- Certified according to EN 13763-26

Parameter	Units	Value
Maximum permitted line resistance for Class 1 detonators	Ω	1100
Firing voltage	V	1250
Firing energy	J	88
Capacitor nominal value	µF	110
Firing impulse duration	ms	4
Capacitor charging	turns	25 - 30 crank turns
Capacity (2 Ω Class 1 detonators)	caps	550
Power supply		Hand cranked
Protection level		IP65
Operating temperature	°C	–20 to +55, at 100% relative humidity
Weight (without bag)	kg	1.6
Dimensions	mm	200 x 143 x 55