

BART-1

Hand Cranked Blasting Machine with Line Continuity Tester



BART-1 is a medium energy hand cranked blasting machine that comes with a built-in line continuity tester. It 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.

The integrated line tester verifies the line's integrity and uses a two color LED that indicates to the user whether the resistance of the line and detonators is below or above 700 Ω , in accordance with Class 1 detonators. For safety reasons, the line tester current is limited to 1mA.

BART-1 includes an output pulse tail cutting to limit the impulse to 4ms and quench the remaining capacitor charge. These safety features are necessary to eliminate potential secondary explosions of the flammable dust generated during the blast.

The device comes in an aluminum enclosure that includes ON--OFF/L-test switch, terminal for connection of electric detonator lines, two color LED for line testing and a crank handle for capacitor charging. Both sides of the panel include "READY" LEDs to indicate the capacitor charge state.

BART-1 is rated IP65 under the international IEC 60529 standard and is splash and dust proof.

BART-1 Features and Benefits:

- Medium energy blasting machine
- Built-in line tester with two color LED
- Short 4ms output pulse
- Certified according to EN 13763-26

Parameter	Units	Value
Maximum permitted line resistance for Class 1 detonators	Ω	700
Firing voltage	V	900
Firing energy	J	9.3
Capacitor nominal value	μ F	23
Firing impulse duration	ms	4
Capacitor charging	turns	10 - 12 crank turns
Capacity (2.5 Ω , class 1 detonators)	caps	270
Line resistance testing		Two-color LED
Line testing current (max)	mA	1
Power supply		Hand cranked
Size	mm	200 x 143 x 55
Protection level		IP65