

BART-2AS

Hand Cranked High Energy Antistatic Blasting Machine

BART-2AS 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-2AS 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-2AS 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, terminals 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.

The blasting machines are rated IP65 under the international IEC 60529 standard and are splash and dust proof. Plastic details of BART-2AS are manufactured from antistatic plastics to avoid static electrical charge generation.

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

BART-2AS Features and Benefits:

- High-energy blasting machine
- Mechanical safety block engaged during connecting and loading the line
- Plastic details manufactured from antistatic plastics to avoid static electrical charge accumulation
- Certified according to EN 13763-26

| Parameter | Units | Value |
|--|--------------------|--|
| Maximum permitted line resistance | Ω | 1100 (max. permitted for Class 1 detonators) |
| 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 (2.5 Ω Class 1 detonators) | caps | 430 |
| Power supply | | Hand cranked |
| Protection level | | IP65 |
| Operating temperature | $^{\circ}\text{C}$ | -20 to +55, at 100% relative humidity |
| Weight | kg | 1.4 |
| Dimensions | mm | 200 x 143 x 55 |