

ERNA-3

Hand Cranked Blasting Machine with Line Continuity Tester

ERNA-3 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 450 Ω . For safety reasons, the line tester current is limited to 1mA.

The device comes in an aluminum enclosure and includes ON or OFF/L-test switch, terminals for connecting the electric detonator line, red/green 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.

ERNA-3 is rated IP65 under the international IEC 60529 standard and is splash and dust proof. The blasting machine has a durable CORDURA fabric bag.

ERNA-3 Features and Benefits:

- No batteries required
- Medium energy blasting machine
- Built-in line tester with two color LED

Parameter	Units	Value
Maximum permitted line resistance, for class 1 detonators	Ω	450
Firing voltage	V	495
Firing energy	J	8.3
Capacitor charging	turns	7 - 9 crank turns
Capacitor nominal value	μ F	68
Capacity (2 Ω , 1. Class detonators)	caps	210
Line tester		Two-color LED, testing point 450 Ω
Maximum line testing current	mA	1
Power supply		Hand cranked
Protection level		IP65
Operating temperature	$^{\circ}$ C	-25 to + 55, at 100% relative humidity
Weight	kg	0.78
Dimensions	mm	142 x 125 x 45