

# ZEB/N/CU50T (ZEB/N/CA100T)

## Electromechanical Blasting Machine / Exploder

# ZEB

...Reliable Heavy Duty

Our capacitor blasting machines are portable units suitable to ignite electric detonators.

N-Series blasting machines of ZEB are mainly consisting of an electro-mechanical generator, a capacitor, a crank, a releasing device and an integrated function tester.

By turning the crank handle the generator produces a high voltage. The generated energy is stored in a capacitor.

When the capacitor has accumulated the necessary energy an indicator bulb will light to show the fire ready state.

The initiation can be done by pushing the fire push button.

When the crank is removed after charging the function tester signals the working condition.

ZEB recommends sending blasting machines to ZEB in a periodic cycle for a check.



The ZEB/N/CU50T is the smallest N-Series blasting machine that ZEB offers. The N-Series machines are extended with an internal function tester. When the machine has been charged and the crank is removed the function test bulb will automatically light while the capacitor is discharging.

The machine has a more ergonomically design with less width but more height for a better operation. Also the weight was reduced to only about 2kg.

The heavy duty design with an aluminium alloy housing is developed for long and reliable service. The housing is painted in a gray hammer effect finish with all stainless steel parts for a long lasting professional appearance.

The charging crank is removable to protect the machine against unauthorized usage.

If the capacitor is charged to the fire ready state the indicator bulb on top lights. Simply push the red fire push button to initiate.

The discharge energy immediately reaches its maximum value that ensures a fast and reliable ignition of all applicable detonator types (shown on next page). The maximum amount of detonators of a type is defined by the maximum resistances (ohm) of the ignition circuit.

# Non-Permissible Capacitor Exploder with Function Tester N-Series

## Technical Data

Type	ZEB/N/CU50T	BAM Homologation	BAM-ZM-220
Operating principle	Electromechanical	EN Homologation	EN13763-26 Annex A
Voltage (max)	850 V	CE	CE Certificate available
Capacity	30 $\mu$ F	Protection	>IP54
Weight (approx.)	2000g	Accessories	Leather Case, Tester
Dimensions	120 x 77 x 155 mm		
Temperature Range	-20°C to +55°C		

## Detonator Ratings

Type	Country	Wire	Max Resistance [ $\Omega$ ]	Detonators	Impulse [mWs/ $\Omega$ ]
A / Sensible	Germany	Copper	510	200	4
U / Insensible	Germany	Copper	195	150	18
A / Sensible	Germany	Steel	510	100	4
U / Insensible	Germany	Steel	195	50	18

Detonator Amount approx. in series with 3.5m parallel cable on each detonator and additional safety line.

## Accessories

Connect the exploder testing device type ZEB/P/N/CU50T to the terminals of the blasting machine ZEB/N/CU50T to do a fast functional test of the capacitor to ensure a safe operation. There is also a protective leather case available for the testing device. The tester is also BAM homologated.

The blasting machine is only homologated while usage within its related protective leather case.

It is important that the ignition circuit resistance will not exceed the allowed maximum resistance of the blasting machine.

This exploder is **never allowed** to be used in dangerous areas like **gassy mines** (flammable environments: methane or coal dust).

Ask for D-Series permissible blasting machines.



Testing Device  
ZEB/P/N/CU50T



Leather Case  
ZEB/N/CU50T

### SAFETY WARNING

Read the User Manual delivered with the blasting machine carefully before using the product. Only blasting machines with the product extension "K" are allowed to be used in flammable environments such as methane or coal dust. Never touch the terminal clamps -the generated high voltage can cause an electric shock.

### DISCLAIMER AND LIMITATION OF LIABILITY

The information contained herein can vary according to the different conditions of storage and use of the products as well as external factors like temperature, humidity and pressure, among others. This product is potentially dangerous; and, therefore, its use and handling must be restricted to the personnel duly qualified and be submitted to applicable laws.

The documentation described herein shall not be considered as contractual commitment and its disclosing shall not be able to be treated as a contractual offer. By virtue of this document the Company does not assume any liability nor warranty before third parties.