

ZEB/D/CU30 **Electromechanical Blasting Machine**

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

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

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 ignition can be done by pushing the fire push button.

This equipment is a high quality machine developed and manufactured in Germany.

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

Our blasting machine ZEB/D/CU30 is the smallest D-Series blasting machine that ZEB offers. The heavy duty design with aluminum 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 resistance (ohm) of the ignition circuit.



Non-Permissible and Permissible Capacitor Blasting Machine D-Series

Technical Data

| | | | |
|---------------------|--------------------|------------------|--------------------------|
| Type | ZEB/D/CU30 | BAM Homologation | BAM-ZM-217 |
| Operating principle | Electromechanical | LOM Homologation | LOM 10MINE2498X |
| Voltage (max) | 780 V | EN Homologation | EN13763-26 |
| Capacity | 16 μ F | CE | CE Certificate available |
| Weight (approx.) | 2400g | Protection | >IP54 |
| Dimensions | 100 x 125 x 155 mm | Accessories | Leather Case, Tester |
| Temperature Range | -20°C to +55°C | | |

Detonator Ratings

| Type | Country | Wire | Max Resistance (Ω) | Impulse (mWs/ Ω) |
|----------------|---------------|--------|-----------------------------|--------------------------|
| S / Sensible | International | Copper | 477 | 3 |
| I / Insensible | International | Copper | 169 | 16 |
| A / Sensible | Germany | Copper | 260 | 4 |
| U / Insensible | Germany | Copper | 125 | 18 |
| A / Sensible | Germany | Steel | 260 | 4 |
| U / Insensible | Germany | Steel | 125 | 18 |

Accessories

Connect the exploder testing device type ZEB/P/D/CU30 to the terminals of the blasting machine ZEB/D/CU30 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.

We recommend to store and operate the blasting machine in its related protective leather case.

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

For operation in dangerous areas like **gassy mines** (flammable environments: methane or coal dust) we offer also a **permissible blasting machine**.

Ask for model **ZEB/D/CU30K** with reduced energy output time at <4ms.



Leather Case
ZEB/D/CU30



Testing Device
ZEB/P/D/CU30

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 terminals clamps – the generated high voltage can cause an electric shock.