

## ZEB/CU200/HU20 Electromechanical Blasting Machine

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

CU-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 and the target Voltage is displayed on the integrated volt meter.

The initiation can be done by removing the crank from the generator and inserting into the fire socket. Turn the crank to initiate the blast.

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.

The ZEB/CU200/HU20 is a powerful blasting machine to initiate nearly all kinds of detonators. The heavy duty design with an all metal housing is developed for long and reliable service.

The aluminum alloy housing is painted in a gray hammer effect finish with robust long lasting plastic covers for a professional appearance.

The charging crank is removable to protect the machine against unauthorized usage. The charging state of the capacitor is shown by an integrated volt meter on top.

The operation is easy. After charging the machine with the crank on the generator socket, remove it and insert it into the firing socket. Simply turn the crank to the right 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.



### **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.

## Non-Permissible Capacitor Blasting Machine CU-Series

### Technical Data

Type	ZEB/CU200/HU20	BAM Homologation	BAM-ZM-450
Operating principle	Electromechanical	LOM Homologation	LOM 10MINE2496 X
Voltage (max)	1800 V	EN Homologation	EN13763-26
Capacity	55µF	Protection	>IP54
Weight (approx.)	8700g	CE	CE Certificate available
Dimensions	175 x 225 x 245mm		
Temperature Range	-20°C bis +55°C	Accessoires	Leather Case

### Detonator Ratings

Type	Country	Wire	Max Resistance (Ω)	Detonators	Impulse (mWs/Ω)
S / Sensible	International	Copper	1313		3
I / Insensible	International	Copper	598		16
H / High Insensible	International	Copper	28		2500
A / Sensible	Germany	Copper	1510	600	4
U / Insensible	Germany	Copper	720	400	18
HU / Highinsensible	Germany	Copper	15	20	3300
VA	Sweden	Copper	240	60	140
A / Sensible	Germany	Steel	1510	300	4
U / Insensible	Germany	Steel	720	200	18

### Accessories

The homologations at BAM (Germany) and LOM (Spain) are only valid while the blasting machine is in its 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/CU100K** with reduced energy output time at <4ms.



Leather Case  
ZEB/CU200/HU20