

ZEB/CU400/HU160 **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 and pushing the safety pushbutton the generator produces a high voltage. The generated energy is stored in a capacitor.

When the selected target voltage is reached a fire ready indicator lights. The blast can be initiated when the fire switch is turned.

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/CU400/HU160 is the most powerful blasting machine in ZEBs product line. It can be used to initiate nearly all kinds of electric detonators.

The heavy duty design with an all metal housing is developed for a long and reliable service. The aluminium 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 fire ready state is shown by indication lights.

The operation is easy. Turn the crank while pushing the safety knob. When the target voltage is reached turn the fire switch to initiate the blast.

The discharge energy immediately reaches its maximum value that ensures a fast and reliable ignition of all applicable detonators 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 Blasting Machine CU-Series

Technical Data

Type	ZEB/CU400/HU160	BAM Homologation	BAM-ZM-452
Operating principle	Electromechanical	LOM Homologation	LOM 10MINE2500 X Rev.1
Voltage (max)	1800 V / 3300 V	EN Homologation	EN13763-26
Capacity	110 μ F	Protection	>IP54
Weight (approx.)	14,5kg	CE	CE Certificate available
Dimensions	330 x 165 x 280mm		
Temperature Range	-20° C to +55° C		

Detonator Ratings

Type	Country	Wire	Max Resistance (Ω)	Detonators	Impulse (mWs/ Ω)
I / Insensible	International	Copper	1177		16
H / High Sensible	International	Copper	89		2500
VA	Sweden	Copper	450	120	140
U / Insensible	Germany	Copper	1420	1200	16
HU / Highinsensible	Germany	Copper	100	160	2500
U / Insensible	Germany	Steel	1420	400	16

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.

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.