



...Reliable Heavy Duty



ZEB-HU160N



HIGHLIGHTS

- ✗ Our capacitor ignition machines are portable devices for initiating electric detonators.
- ✗ The ZEB HU series igniters mainly consist of an electro-mechanical generator, a capacitor, a crank and a trigger mechanism.
- ✗ When the crank is turned and the safety push button is held down, the generator produces a high voltage which is stored in the capacitor.
- ✗ The ignition voltage is shown on to digital voltmeter. The detonation is triggered by turning the FIRE switch.
- ✗ This device was developed and manufactured in Germany.
- ✗ Service inspection and maintenance can be carried out at ZEB workshop in Marl/Germany.

DESCRIPTION

The ZEB-HU160N is a powerful electromechanical blasting machine. It can initiate almost any type of electric detonator.

The housing is made of a robust plastic and is equipped with reflective markings for increased visibility.

For reliable operation even after long periods of use, the terminals are made of stainless steel. A safety push button prevents accidental charging and protects against electrical shock in the event of inattention at the time of activation. The charging crank is removable to protect the device against unauthorized use.

The target voltage can be freely selected by the operator thanks to the integrated voltmeter. The maximum capacitor firing voltage is 3300VDC.

The discharge energy reaches its maximum at the moment of triggering, to ensure fast and reliable triggering for all types of electric detonators. The maximum number of detonators of each type is defined by the maximum ignition circuit resistance (in ohms).

The cover is equipped with a holder for a ZEB/DZ3 or ZEB/DIZ ignition circuit tester and the crank.



ZEB-DIZ



ZEB-HU160N Energy tester



Crank HU160N

ACCESSORIES

To measure the energy output of the machine we are offering a special testing device. The **PG-Series testers** are equipped with high power resistors and a microprocessor the calculate the energy in real time. Status LEDs show the operator OK or Faulty.

ZEB-HUI160N

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Technical Specifications

Type	Technology	Voltage	Capacity	Weight (approx.)	Dimensions
ZEB-HUI160N	Electro-mechanical	3300 VDC	110µF	13.9kg	417 x 334 x 221mm
Temperature Range	Protection class (closed)	Protection class (opened)	Testing Unit	Ignition Circuit Tester	SKU
-20°C to +55°C	IP65	IP54	ZEB/PG/ZEB-HUI160N	ZEB/DZ3 ZEB/DIZ	EB00.900.1100

Detonator Overview

Voltage	Type	Class II 16 [mWs/Ω]	Class III 140 [mWs/Ω]	Class IV 2500 [mWs/Ω]
500V		200Ω	35Ω	1Ω
1000V		450Ω	120Ω	5Ω
2000V		950Ω	320Ω	25Ω
3300V		1900Ω	700Ω	100Ω



Energy tester ZEB/PG/ZEB-HUI160N

SKU

EB00.902.1140



Crank ZEB-HUI160N

SKU

EB00.100.6740

WARNING:

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

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.

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