

Electric Condenser Discharge Blasting Machine Type 815

with hand-operated A.C. generator

VSV-Engineering GmbH
SCHAFFLER

Not approved for use in permitted areas!

BAM-approval ID: BAM-ZM-233



This Condenser Discharge Blasting Machine is manufactured and distributed by Messrs. VSV-Engineering Produktions- u. Handels GmbH at the same high technical level and safety standards as the other well-known SCHAFFLER-blasting machines, testing instruments and other blasting accessories. All products are manufactured at the highest technical level and fulfil all safety standards.

Technical Data:

Voltage: 450 V

Firing Condenser: 16 μ F

Energy: 1,6 Ws

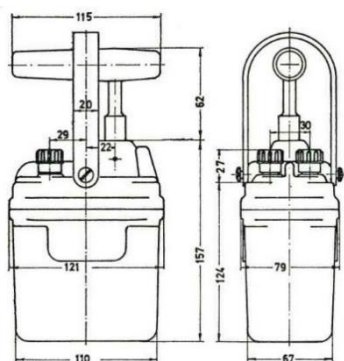
Dimensions: 122 x 80 x 158 mm

Weight: 1,8 kg

The blasting machine type is designed for the following detonator types:

Maximum number of shots:

	Standard sensitive A-dets / Class I (electric detonators not approved) Firing impulse: 4 mJoule / Ohm	Insensitive electric U-dets / Class II: Firing impulse: 20 mJoule / Ohm Leading line resistance: 10 Ohm
on 3 m copper leg wires:	100 pieces in series	35 pieces in series
on 3 m iron leg wires:	50 pieces in series	10 pieces in series
Limiting resistance:	260 Ohm	55 Ohm



All electrical parts and the complete blasting machine are tested with a tension of 1500 V A.C.

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SAFETY FIRST

Handle the blasting machine with care and keep it clean.

Never activate the blasting machine with short-circuited terminals or plug sockets.

Do not store the blasting machine for long periods in damp quarters underground and expose it as little as possible to wide fluctuations of temperature, in order to avoid condensation inside the machine.

Wear insulating clothing and shoes and take care that you do not knee on wet floor while activating the blasting machine.

Do not use damaged or defective machines and return them for repair to the manufacturer.

Repairs which necessitate the opening of the machine should in no case be attempted, because special tools and "know-how" are required.

If not regulated by law in another manner annual checking is recommended.

SAFETY FIRST

OPERATING INSTRUCTIONS FOR TYPE 815



The resistance of the firing circuit must not exceed the maximum resistance indicated on the identification plate of the blasting machine.

After the firing circuit is set up as usual (connection of detonators, resistance measurement, insulation test):

Hold the blasting machine with the left hand. Put the crank handle on the axle and turn clockwise by a sharp turn from the initial to the stop position. At the same time turn the blasting machine in the left hand by a sharp turn to the left side. The tension is applied automatically by help of the thyristor via terminals to the firing circuit.

MECHANICAL TEST OF THE BLASTING MACHINE BEFORE USE

- The connecting terminals must be able to be turned easily; their threads must be in good order so that the leading lines can be connected firmly.
- The connections must be clean and dry.
- The drive of the winding and firing mechanism must be operated easily.
- Machines with direct manual drive need a properly working free-wheel device.
- The housing must be free of major damages, this is of great importance with firedamp proof blasting machines.
- When shaking the blasting machine, no noise from inside may occur.

BLASTING MACHINE TESTER TYPE SOLUS

The electrical efficiency of the blasting machine has to be tested by the appropriate type of SOLUS tester. According to the EC-regulations the blasting machines have to be tested at least once a month. If the blasting machine has not been used during the last month, it has to be tested before being operated.



SAFETY INSTRUCTIONS

If the blasting machine is not used according to the regulations and safety instructions or when the terminals (or the connecting wires) are touched this may result in severe injuries. The energy of a discharging blasting machine can be compared with a small flash. The electric shock can cause high grade burns (blisters to the skin) and may occur danger of life (e.g. cardiac arrest).