

## Beethoven MK 22/3

### Blasting machine for electric detonators



#### Description

Blasting Machine Beethoven MK 22/3 is a capacitor-blasting machine designed for initiation of electric detonators in above ground shot firing applications especially where “insensitive” detonators are being used.

All types of dc electric detonators can be initiated with consideration given to the output power generated by the MK 22/3.

The dc voltage required to initiate the detonators is supplied by a hand-operated generator, which charges a capacitor to 950 V.

The control panel on top of the blasting machine has a lamp that indicates if the capacitor is sufficiently charged.

#### Before firing

Always check that the firing cable is connected properly and that all connection points and joints in the initiation system are well insulated. Only use approved firing cable and intermediate cable. Measure the resistance in the initiation circuit using an approved ohmmeter.

#### Instruction for use

Connect the firing cable to the terminal screws on the blasting machine.

#### Technical Properties

Beethoven MK 22/3	
Charge-up voltage	950 V
Max. round resistance when using electric detonator type:	
VA, Group 2, Class 3	61 Ω
ET, Group 1, Class 1	660 Ω
Charge-up-time	approx. 7 sec
Capacitance	28,8 μF
Dimension incl. carry bag	275 mm x 94 mm x 217 mm
Weight	4,5 kg

Outer packaging will be cardboard box.

#### Charging up the machine insert the cranks

Depress the “CHARGING” button. Turn the crank until the instrument lamp indicates full charging. It takes approximately 7 seconds to charge the machine up to the maximum voltage. Do not touch the terminal screws on the blasting machine or the firing cable while initiating the round. The maximum charge-up voltage is approx. 950 V and the resultant current impulse is fatally dangerous.

#### Blasting

To initiate the round, keep the “CHARGING” button depressed and press the “FIRING” button. Remove the generator crank and disconnect the firing cable.

Number of series in parallel	Capacity Class 1*) detonators (Group 1, ET and NT)	Capacity Class 2*) detonators (Group 1 A)
1	660 Ω	345 Ω
2	470 Ω	200 Ω
3	335 Ω	-
4	250 Ω	-

\*) Resistance on the firing cable 5 Ω

\*\*) Resistance on the firing cable 2,5

Number of series in parallel	Capacity Class 3*) detonators (Group 2, VA)	Capacity Class 4**) detonators (Group 3)
1	55 $\Omega$	1 $\Omega$
2	-	-
3	-	-
4	-	-

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