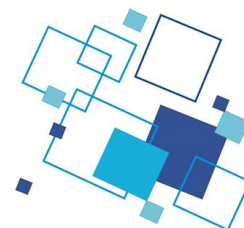
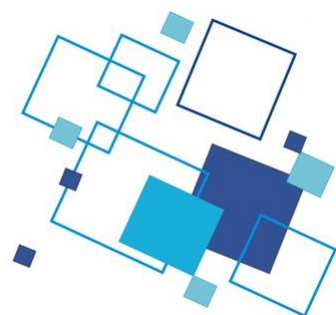
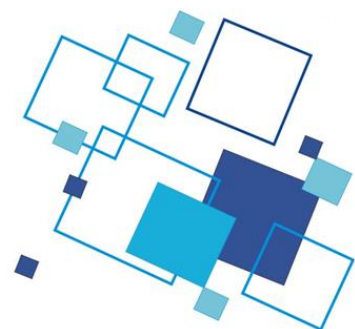


CAPACITIVE BLASTING MACHINE

HZK-100, HZK-100M



Catalogue card



DESCRIPTION

Capacitive blasting machine is a portable device designed to firing the electric detonators in serial connection. Device is made in the following versions:


- Capacitive blasting machine HZK-100 0.2A - for 0,2A detonators (class I according to the EU classification)
- Capacitive blasting machine HZK-100 0.45A - for 0,45A detonators (class II according to the EU classification)
- Capacitive blasting machine HZK-100M 0.2A - for 0,2A detonators (class I according to the EU classification) with additional methanometric lock
- Capacitive blasting machine HZK-100M 0.45A - for 0,45A detonators (class II according to the EU classification) with additional methanometric lock.

The device has an internal Li-Ion battery for autonomous power supply. The device must be charged outside the hazardous area using a dedicated power supply (one position battery charger SCS-1 or five MCS-5). HZK-100, HZK-100M are made of high quality plastic and it is additionally protected with a leather case.

Capacitive blasting machine has a built-in ohmmeter which allows to measure the resistance of blasting circuit. It is also protected against accidental firing of blasting circuit by a firing sequence (an external key and corresponding sequence of two buttons on the housing). Resistance measurement and firing the blasting circuit are performed by use of the same clamps. The HZKT-100 tester is used to check the blasting machine.

Capacitive blasting machine HZK-100, HZK-100M can be used in all underground mines and quarrying plants.

BASIC TECHNICAL DATA

Capacitive blasting machine HZK-100, HZK-100M	
Power	Internal lithium-ion battery
Battery charging time	4 hours
Clamps max voltage	700V ±10V
Ohmmeter measuring range	0 – 999,0Ω
Ohmmeter measuring resolution	0,1Ω
Ohmmeter measuring accuracy	0,2Ω for the range from 0Ω to 4Ω 5% for the range from 4,1Ω to 20Ω 1,5Ω for the range from 20,1Ω to 999Ω
Auxiliary device (tester)	Capacitive blasting machine tester HZKT-100 (Explosion-proof mark:  I-/M2 Ex ib I Mb)
Blasting efficiency for configuration 0.2A	220 detonators of 0,2A class (max. line resistance: 685Ω)
Blasting efficiency for configuration 0.45A	180 detonators of 0,45A class (max. line resistance 260Ω)
Pulse time / Maximum pulse energy	t ≤ 4ms / 20J
Working temperature range	-20 °C ÷ +40 °C
Relative humidity range	from 0% to 99% without condensation
Charging time of the capacitor	< 10s
Time to press the FIRE button	15s
Dimensions	210 x 80 x 63 mm (version HZK-100) 255 x 80 x 63 mm (version HZK-100M)
Ingress protection	IP65

EXPLOSION-PROOF MARK

 I-/M2(M1) Ex eb mb [ia Ma] I Mb

EU-Type Examination certificate: TEST 17 ATEX 0030X (HZK-100, HZK-100M)

 I-/M2 Ex ib I Mb

EU-Type Examination certificate: TEST 17 ATEX 0029X (tester HZKT-100)

Technical opinion: KDB 17 EXP-D 163