

CATALOGUE

Blasting Equipment

2018



Always at your service !

MCEP DISTRIBUTION offers you with its partners a range of blasting equipment including:

- ↻ Dewatering pump to prepare the blast holes for loading,
- ↻ ANFO mixers to prepare the explosive on site,
- ↻ Lightning detectors for safety during loading of the blast holes,
- ↻ Various accessories for loading the explosive,
- ↻ Portable sound alarms to indicate the blast,
- ↻ Ohmmeter and electric exploders for initiation of the blast,
- ↻ Seismographs to control vibrations and air pressure,
- ↻ Scanner for fragmentation analysis of the blast.





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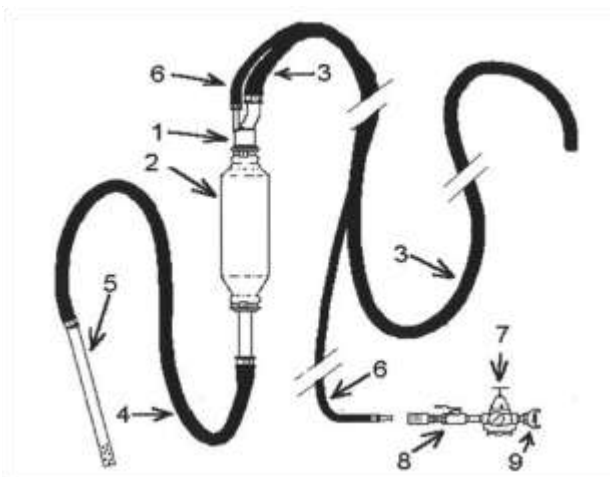
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With the dewatering pump, water in the blast holes is no longer a problem !

When you have water in the blast holes, you have to replace ANFO with packaged explosives: costs are increasing, and the blasting results can be bad.

The dewatering pump allows you to evacuate water from the blast holes and to use ANFO, or if water comes back too quickly, packaged explosives without risk of charge discontinuity.

The dewatering pump can treat blast holes up to a depth of 30m, with diameters from 64 mm to 172 mm according model, just with an air compressor of 600 l/min at 7 bars.



- 1 - Pump body in stainless steel
- 2 - Extensible rubber sleeve
- 3 - Discharge hose length 15 m
- 4 - Intake hose length 2.50 m
- 5 - Stainless steel tube screen
- 6 - Air supply hose length 15 m
- 7 - Pressure regulator
- 8 - Operating valve
- 9 - Assorted fittings

The dewatering pump works in any type of rock, provided the ground has not too many cracks. A braided stainless steel cable will help you retrieve the pump in bad quality holes.

The kit is supplied with a collar saver tube to protect the top of the blast hole, and three extensible rubber sleeves. The air will inflate the sleeve against the blast hole walls, and then will force the water of the blast hole through the discharge hose.

The rubber sleeves are the only wear part and last anywhere from several weeks to several months. They are available as spare parts.

ANFO mixers meeting your requirements !

Our ANFO mixers are adapted to the requirements of quarries and mines in Africa, in a fixed workshop or directly on the blasting site. These equipment are only supplied for exportation, and provided the client has all the necessary authorization to produce its own ANFO.

Our range includes 4 models:

- ↪ Range 30 : mixer with capacity 30 kg/min, on frame, electrical drive.
- ↪ Range 50 : mixer with capacity 50 kg/min, on frame, skid or trailer, electrical, hydraulic or pneumatic drive. This mixer in its electrical version can be supplied with a diesel generator for **electrical supply, control panel and electrical wiring, inside a 20' sea container.**
- ↪ Range 200 : mixer with capacity 200 kg/min, on frame (electrical drive), skid (hydraulic drive) or trailer (hydraulic or pneumatic drive).
- ↪ MB 120 : mixer with capacity 120 kg/min, on frame with feeding hooper 1500 kg and bagging hopper 200 kg.

We can also design and manufacture specific models according to your specifications.



Detection of lightning can prevent accident !

Whatever the type of detonator you use, and more specifically if you use electric detonators, the arrival of a storm during loading of the explosives means a risk of initiation by lightning and resulting stray currents. Detection in advance of the proximity of a storm can avoid severe accidents.

We offer two types of lightning detectors, according to the safety level you require:

STRIKE ALERT HD

STRIKE ALERT HD detector has a reach of 60 km and indicates the proximity of the storm with a system of diodes.

It works with two standard AA batteries, with an autonomy of about 80 hours.



STORM PRO II

STORM PRO II detector has a reach of 120 km and will estimate when the storm will arrive where you are.

It works with a rechargeable battery of 9 V, and can be supplied with a strong transport case.



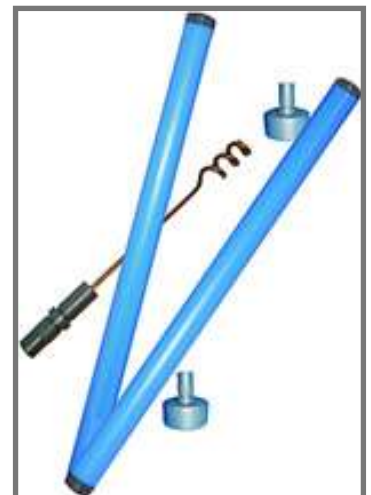
The two models work with a low magnetic field, and the detection results can be interfered with a mobile phone. Keep your phone at least one meter away for a better detection.

Detectors only detect lightning connecting to earth, and no aerial lightning between two points in a cloud.

Accessories for blasting professionals !

We offer you a range of accessories that will help you realize your blasts in the best conditions:

- ↵ Antistatic stemming rods for loading the explosives,
- ↵ Electric wire one or two leads for connection of electric detonators,
- ↵ Firing line for connection to the exploder,
- ↵ Reels for electric wire,
- ↵ Shutters to protect the blast holes,
- ↵ Multimeters for positioning of the blast holes and control of the depth,
- ↵ Sleeve for protection of ANFO against water.



The most user friendly and efficient sound alarm !

The HORNET sound alarm is with no doubt the most user friendly and efficient sound alarm one can find today.

It works with a rechargeable battery and can be used in any place of the quarry.

Its powerful sound will allow anyone in the area or close by to know that the blast will soon happen.



The kit includes:

- ↪ One HORNET alarm
- ↪ One transport case
- ↪ One charger 120 or 230 V and one adaptor 12 V
- ↪ One rechargeable battery ion lithium 14 V (optional second battery)



Reliable

- Sound power > 120 dB
- Works even in cold weather
- About 500 one second alarms per charge

Safe

- No freezing by contact with gas leak
- No risk of explosion in hot weather
- Can be transported by plane
- Recharge in 30 minutes

Economical

- Can be used thousands of times
- Return on investment in a few months

Environment friendly

- No metallic waste
- No greenhouse effect gases in the atmosphere

All you need for electric initiation !

We offer you a digital ohmmeter and a range of electric exploders to initiate any size of blast.



Ohmmètre OD-3

The ohmmeter OD-3 is designed to measure electric resistance of blasting circuit. It starts automatically when the firing line is connected; The LCD screen indicates the resistance and the status of batteries (3 AAA batteries).

It can measure resistances from 0 to 2000 Ω , with an accuracy of 0.2 Ω up to 1000 Ω and 1 Ω above. It conforms with European directive EN-13763-26 and comes with its protection sleeve.



Exploder AI -1200

The exploder AI-1200 is started with one charging button and one firing button. It is adapted for initiation of low and medium intensity detonators (for circuits with maximum resistance of respectively 853 Ω and 398 Ω).

With a weight of 2 kg, this exploder has a capacity of 110 μF and a voltage of 1200 V. Beware, this equipment is not allowed for use in the European Union.



Exploders AI -2600

The AI-2600 exploders range has a capacity of 70 μF , 140 μF or 210 μF according model, for a voltage of 2600 V. These exploders are adapted for all type of detonator, with a circuit maximum resistance of 1800 Ω in low intensity and 70 Ω in high intensity for the bigger model.

With a weight of 6.4 kg to 8 kg, these robust exploders conform with European directive EN-13763-26.

Control vibrations to avoid disturbances !

The seismographs we are offering will allow you to control the vibrations resulting from the blast. An analysis software is provided free of charge with each equipment:



VIBRACORD FX

This is the most complete of our seismographs. It allows measures on 4 or 7 canals (one microphone and one or two 3D sensors). Transfer of data is done with USB card or cable, SD card or using internet (with report e-mails or automatic alarms), according to the settings of the equipment. Optionally, an external printer allows printing directly the results on site, and a strong transport case will protect the equipment during transport.



VIBRACORD TX

VIBRACORD TX seismograph is a compact and mobile equipment, adapted to construction sites. It allows recording with one 3D sensor.

Its 2,5" screen allows displaying results with an user friendly menu.

Transfer of data to a computer is done with a SD card.

VIBRACORD TX comes with a protection sleeve.



Remote alarm system

For continuous control (for example to monitor vibrations due to hauling trucks), we can offer you a wireless remote alarm system.

As soon as a vibration limit is exceeded, a visual or sound alarm is started on the equipment, which can be fixed in a building or mobile with an operator or a machine. The standard reach is 20 to 50 m according environment, and can be increased up to 1 km.

Measure fragmentation to evaluate blast results !

The scanner PortaMetrics is a portable equipment for analysis using stereo image technology to calculate size of rocks in a selected area, without having to use a reference scaling object or to work close to the free face.



The equipment will calculate very quickly the slope of the rock pile. For each measure, 3D sensors record the size of the rocks. By doing several measures of the rock pile, PortaMetrics will establish in a few seconds a fragmentation curve, according to Swebrec or Rosin Rammler standards, directly on the equipment screen. The integrated GPS allows positioning and combining measures to each blast, and the Cloud connectivity ensure an instantaneous share with other users.

Fragmentation analysis allows to evaluate the results of a blast, and compare the different optimization tests that have been performed. This optimization is essential to reduce production costs, and PortaMetrics gives to blast designers a quick and efficient validation of the results that have been obtained.



MCEP DISTRIBUTION also offers you the following tools, equipment and accessories:

- ↻ Drilling tools top hammer, down the hole and CopRod,
- ↻ Drilling grease,
- ↻ Self-drilling anchors from R25 to T103,
- ↻ Wearing tools for buckets and blades (teeth, protections, etc.),
- ↻ Picks for trenching, milling and surface mining,
- ↻ Tools for special foundations and wells and piles drilling,
- ↻ Hydraulic and pneumatic drill rigs,
- ↻ Hydraulic hammers and hand-held hammers,
- ↻ Points and accessories for hammers,
- ↻ High pressure power washers,
- ↻ Tire sealant for heavy equipment.

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