

Blasting machine for Nonel[®] detonators Nonel[®] Start DS2



The *Nonel[®] Start DS2* is a further refined electronic blasting machine for the safe initiation of Nonel[®] detonators. It consists of an energy source (battery), a voltage converter, a capacitor for energy accumulation, an electrode and pushbuttons to effect initiation. The electrical energy is converted to a powerful spark, which the electrode emits into the inside of the Nonel[®] tube to initiate the shock-wave reaction.

The *Nonel[®] Start DS2* is powered by an ordinary 9 V alkaline battery that lasts for at least 1000 initiations. When the charging button is pressed, the capacitor is charged up to 2500 V. Pressing the firing button then emits a powerful spark that initiates the Nonel[®] tube. Note that the charging button must be kept depressed throughout, or else the capacitor will be discharged over an internal resistance. It is easy to change the electrode.

How to use the Nonel[®] Start DS2

Cut off the sealed end of the Nonel[®] tube using the *Nonel[®] Start DS2* built-in tube cutter. Place the end of the tube on the electrode, and push in the tube completely. Press the button marked "CHARGING", and keep it depressed. When the green LED lights, the blasting machine is ready to initiate the round. Keeping the "CHARGING" button depressed, press the button marked "FIRING". This discharges the energy in the capacitor into the electrode, which emits a powerful spark that initiates the Nonel[®] tube.

If, for some reason, the initiation has to be aborted, simply release the "CHARGING" button and pull the Nonel[®] tube off the electrode. The capacitor will discharge automatically.

Nonel[®] Start DS2	
Function range	From -25 °C to +70 °C
Charging time	Less than 10 seconds
Voltage	2500 V
Capacitance	0,2 uF
Weight	275 g
Dimensions (W x L x H)	65 x 155 x 36 mm
Service life of electrode	Approx. 1000 initiations
Battery type	9 V alkaline (6LR61)

Changing the electrode

The electrode should be replaced after every 1000 firings (approx.). To replace the electrode, unscrew the chuck completely. Observe how the old electrode is fitted, and then remove it.

Fit the new electrode, making sure it is inserted correctly. Fit back the chuck and tighten well by hand. The machine is now ready for use.

Blasting machine for Nonel[®] detonators Nonel[®] Start DS2

Changing the battery

The battery cover is on the back of the machine. Using a Phillips screwdriver, remove the 4 screws that secure the battery cover.

Remove the old battery and fit a new 9 V alkaline battery type 6LR61, or corresponding type. Take care not to pinch or jam the conductor.

N.B. If the *Nonel[®] Start DS2* is to be used in very cold weather (down to -40 °C), Orica Mining Service recommends using a type U9VL lithium battery instead.

Fit back the cover and tighten the 4 screws properly.

Changing the blade in the tube cutter

Unscrew the two screws on the machine's protective arm, and remove the cover that holds the blade in place. Remove the old blade and replace it with a new one. Screw back the cover securely.

General preventive maintenance

Keep the *Nonel[®] Start DS2* blasting machine clean and dry. Dirt and moisture on the electrode can cause initiation to fail. Each time a round is fired, traces of carbon black from the tube are deposited on the electrode. Such deposits should be removed regularly using a small, soft brush wetted with methylated spirit, for instance.

Spare parts

Spare parts such as electrodes and blades for the *Nonel[®] Start DS2* can be ordered.

Trademarks

The word Orica, the Ring device and the Orica mark are trademarks of Orica Group Companies.

Disclaimer

The manufacturer reserves the right to modify products without prior notice. All information in this data sheet is believed up-to-date at the time of publication. Because Orica cannot anticipate or control the conditions under which this information and its products may be used, Orica does not take any responsibility for their suitability for use in any particular application other than liabilities implied mandatorily by law and which cannot be disclaimed. The user is expressly responsible to verify the suitability of the information and the product for use in any particular application. Orica's general terms and conditions of contract, a copy of which is available upon request, apply to all sales and are incorporated by reference.

Orica Slovakia, s.r.o.

26. Novembra 1510/3

066 01 Humenné

Slovakia

Phone: +421 57 7754059 / +421 57 7755692

Fax: +421 57 7750200

Email: pavol.sokol@orica.com

Emergency Telephone Numbers

Within Slovakia: 057 7756727

Outside Slovakia: +421 57 7754059 / +421 57 7756727

Mobile: +421 905 900617

