

A Drill is Only as Good As it's Parts

At best a rock drill has a rough life. It is designed to take air pressure and turn that energy into rotational pounding force transferred through drill steel and drill bit ultimately to a carbide insert to break rock. The guts of the drill are designed to work in extremely tight tolerances where every movement is the result of a component's movement before it. The

components of a rock drill all have different life expectancies, some parts like the rifle nut are made of brass and are designed to be worn during normal operation. The piston is made of a hardened steel which actually impacts the drill steel and although extremely strong will also distort in shape over time. The conclusion is relatively simple, a rock drill that is drilling is in the process of breaking. How you accept and deal with that fact makes all the difference in the world.

Rockdrill oil is the simplest and cheapest form of maintenance that you can do.

It lubricates all the components offering a film to act as a buffer between parts. It also helps to dissipate heat allowing the components of your drill to run at its best. The key with rockdrill oil is to ensure your using the correct fluid. Typical rockdrill oil is actually described as a semi-fluid grease, designed to be used in a football style oiler like that found on the MacLean MDA drills. It is designed for the mist applications of underground use where air quality is of the utmost importance, using enough lubrication to protect the components of the drill without excess. Running a pneumatic rockdrill without oil will cause hotspots, scoring and galling resulting in damage to the front head and chuck driver. Pawl springs can break and corrode causing the

pawls themselves to fail hampering the rotation of the drill steel. Under normal wear the pawls will lose their edge and round and although they can be flipped, a simple replacement as they wear will keep you running at peak performance. The chuck will also wear over time and is crucial to ensuring the drill steel shank is in proper alignment with the water tube and piston. Damage to both is almost a given when the shank not snug. Although the piston itself has a long life it should also be checked for cracks, chips and distortion as these can all affect drill performance and life. The balance of the wear parts to manage are the brass parts, the rifle nut and chuck driver nut both transfer force through the components and will wear. Over-time the spline will gain more and more play resulting in a loss of drilling performance until they ultimately fail. With regular maintenance, proper lubrication and a small inventory of replacement parts your rock drill can pay for itself hundreds of times over, and be the reliable equipment you need it to be.



Can you see the wear?





What's New

Our Support is Unmatched

With the warmer weather jumping right into summer-like conditions everything has started up early. Anyone who does any gardening or planting can attest to the early start this year, mining and construction included. The old saying "Make hay when the sun shines" is as true as it gets and if you have projects underway that require rock removal, you know who to call. You have choices when it comes to rock-breaking cartridges, but are you getting the most return on your money? Are you unsure on where or how to start a project. Is your supplier knowledgeable enough to help you throughout the job? At Coogar Sales & Services we are blasters. We have over 60 years combined experience in construction blasting, surface quarrying and underground mining. We also have a worldwide network of blasters to call upon with thousands of Nxburst blasts in combined experience. When you work with Coogar Sales and Services and the Nxco Mining family of products you are well supported in making your rock removal a success. You become part of the Nxburst™ family. We want to ensure that you are successful, safe and profitable. if you are not succesful, then we are not succesful, simple.



Want Some Bragging Rights?

Do you have blast footage using Nxburst™ or the Fragmentor™ that you would love to show off? Perhaps you just finished up a complicated blast that went great and just want to brag about it? At Coogar Sales & Services we love to celebrate our customers great work. Let us know how great you are and maybe we can feature you and your company in our next newsletter or on our social media channels. Feel free to reach out and send us a message on our social media pages or sshand@coogarsales.com. We would love to hear from you!!

Coogar Sales & Services is the proud distributor of Nxco's **Nxburst™** and **Fragmentor™** throughout Canada, US and Mexico as well as the full line of MacLean Engineering's **MDA Rock Drills** and the **QuikDraw Mine Hang-up Relief System**. With our staff having a practical drill and blast experience we can guide you through even the most delicate of jobs safely and effectively helping you and your bottom line.

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