

ATD Pressure Gas System presents

The Cardox Chronicle



ATD Pressure Gas System Newsletter

March 2014

By John Stulack

Greetings from ATD-PGS!

Welcome to our March issue of the Cardox Chronicle; green for a long awaited spring, and St. Patrick's Day.

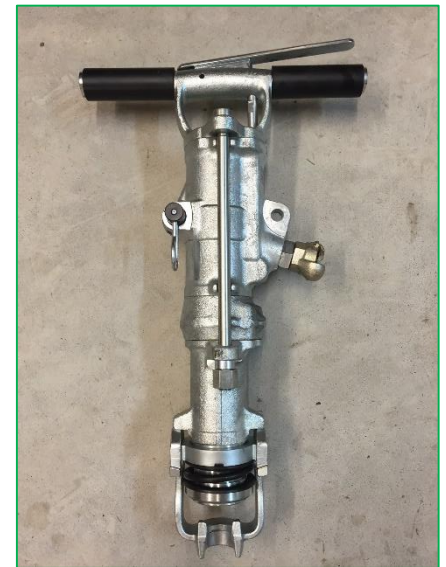
Over the years I have found that most operators enjoy using our ATD Cardox system for removing material build-up. With that being said, I think we all can agree that drilling at times can be difficult. In this issue, we will provide a few tips on how to make your drilling procedure easier, faster and safer for the operators out in the field.

❖ Percussive Rock Drills

Pneumatic Rock Drills are very effective for drilling all types of material build up. They feature a "hammering" action along with the rotating drill for creating bores in hard difficult material. Most Rock Drills come in three basic sizes: 30lbs. – 40lbs. or even 50lbs. The larger drill has an increased cylinder bore that will provide more power. This, of course, comes at a cost because the extra weight can make the drill more difficult to operate. The smaller drill is lighter and provides more percussive "blows per minute" Deciding on what drill is best for your application depends on the type and hardness of the material build up. Using our ATD Drill Guide takes a majority of the weight of the drill off the operator and ensures the hole will be straight! Our Drill Guide easily connects to the Base Socket.

The most common problem with Rock Drill performance is basic maintenance and proper lubrication. Rock drills require a constant flow of good quality oil. Rock Drills will lose significant power and stall when operated dry. Our new Bohler Rock Drill features a safety throttle on the handle. This allows the operator to safely hold the drill when starting and stopping operation.

We offer a variety of oilers and Rock Drill oil that can attach to your current Rock Drill on site.



Bohler BH 16 DT Percussive Rock Drill with safety throttle
Part No. 80006



ATD-Drill Guide – Ensures the hole is straight and reduces the weight of the Rock Drill during operation.
Part No. 47000

❖ Percussive Drill Rods and Bits

The Rock Drill's performance can only be as good as the Drill Rod and Bit being used. I often see operators using worn or inferior bits spending a lot of additional time drilling. This results in frustration and fatigue. For cold applications and relatively softer material, a standard Drill Steel and Rock Bit can be used successfully (we offer this type as well). When drilling difficult hard material or hot material, this is when you need a superior Drill Rod with a high temperature Drill Bit. The high quality Rods and Bits will reduce time, and last under the adverse conditions. The Drill Rod has a hole that runs completely through it, providing air out of the four air outlets on the Drill Bit. These air holes help clear the debris while drilling in addition to cooling the bit.

Here are a few additional tips:

- ✓ Use the "buddy system" and take turns drilling. Accidents usually happen when the operator becomes fatigued.
- ✓ Always make a mental note on where the airline shut off valve is located. If it is not within proximity, simply attach an in line valve close by for safety.
- ✓ Be sure the airline providing air to the Drill is at least $\frac{3}{4}$ "-1" for adequate air flow. Most drills require 80-100 CFM.
- ✓ While drilling, the operator should pull the Drill Rod back out of the material periodically, this helps cool the bit and removes debris.
- ✓ Be sure to apply an anti-seize compound such as "Never-Seez" (high temperature grade) to the Drill Rod threads before installing the Bit.



Percussive Drill Rod - Auger type flights help remove material. Rods come in a variety of lengths and are great for tough high heat applications.

Part no. 47405 shown above at 47" long



Percussive Drill Bit

Our G60 "Sharp" Bit has an aggressive sharp carbide cutting edge for adverse conditions. This bit does well for cutting anchors when drilling refractory.

Part No. 48108

Team ATD-Pressure Gas System USA

There is a lot more information regarding drilling build-up and refractory that we would like to share that simply would not fit in this newsletter. Please feel free to contact us for more detailed information or to answer any of your questions.

We understand how critical your operations are and ATD is committed to supporting your production. We encourage your feedback as we are continuously making changes to suit our customer's needs. Please see our contact information below.

ATD Pressure Gas System
7634 Southrail Rd., #601
North Charleston, SC 29420
(843)553-2374

For placing orders or quote request:
shop@atd-pgs.com

tom.spaits@atd-pgs.com cell (908)601-9167
mike.thomas@atd-pgs.com cell (210)616-1824
john.stulack@atd-pgs.com cell (843)830-8488
kathy.spaits@atd-pgs.com office (843)553-2374
michael.baldwin@atd-pgs.com cell (816)859-4652
www.atd-pgs.com