

Manuli Hydraulic Hose for Mining

A Case Study at a Canadian Gold Mine

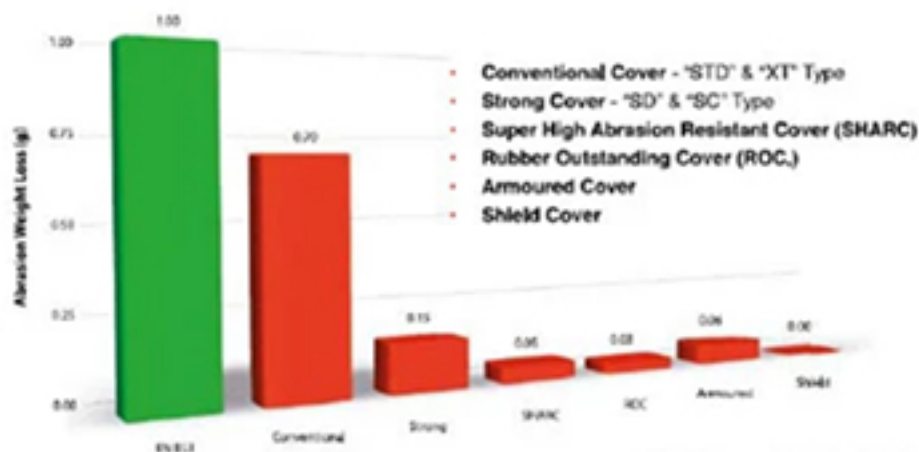
Manuli Hydraulics has been hard at work engineering their hydraulic hose and fitting offering and maintaining their name as a leader in the mining industry for many years now. Focused innovation centers and a collaborative culture with their distribution network makes this possible. Fluid Hose has represented Manuli in Canada longer than any other partner, building our supplier/technical distribution relationship with the goal of bringing clear value to specific industries. It is important to note that *Fluid Hose is the only Manuli approved distribution channel in Ontario or Quebec, Canada.* In the case of this study we set out to verify the effectiveness of the Manuli ROCKMASTER brand of hose in a very aggressive application in the mining industry. The mission was to find a gold mine seeking more value in a flexible hydraulic connection than the typical "replace it when it wears" out approach. Thanks to a cooperative Canadian mine this mission was accomplished and we wish to share the results.

First lets understand Manuli hydraulic hose covers. Below is a chart showing abrasion test results on the various Manuli hose covers. The tests performed are listed below the chart for transparency. The type of Manuli hose cover is listed along the bottom below the red value and the left side refers to value representing the amount of material that was abraded away during the test. Referring to the Manuli chart below the hose we field tested was a ROCKMASTER hose with spiral reinforcement shown below as having a "Strong" or "SD" type cover.

RESULTS

EXPLAINED:

The higher the value the more material was abraded away during the testing.



Second is the application. Known as a "Jumbo Drilling Machine", (seen to the top right and next page), this machine resembles a tractor with two arms, in this case, having hydraulic actuation off the front of it. As the machine drills away at the rock in an underground mine, the rock and other abrasive materials tend to fall on the hydraulic hoses that are constantly in motion as each arm

