



Quality assurance of hydraulic rock drill

What are the characteristics of a hydraulic rock drill?

The rock drill environment is characterized by mechanical abuse, temperature variations, and corrosive water. The rock drill itself causes rapid cyclic hydraulic pressure pulsations ranging hundreds of bars, and mechanical vibrations ranging thousands of G's. The hydraulic rock drill has some characteristic properties.

How does a hydraulic rock drill work?

ROCK DRILL OPERATION AND SENSORS Hydraulic rock drills are hydro-mechanical systems designed to generate stress waves able to crush rock. This is done by accelerating an Impact piston towards a Shank adapter, creating a stress wave which propagates through a connected drill steel towards the rock to be crushed. Italics refers to tags in Fig. 2.

Can a rock drill detect accumulator gas leakage?

Many articles describe methods for detecting accumulator gas leakage, see (Liniger et al., 2017) for more details, but few applications share the special characteristics of a rock drill, where the accumulator is discharged with little variation for different operating conditions.

What causes a damper fault in a rock drill?

Damper faults are introduced in the lab measurements by changing the damper flow, though in reality it is more likely caused by internal leakage with similar symptoms. 3.4 Faulty orifice, O At some locations in a rock drill, interchangeable nozzles alter pressure behaviour.

What are fault modes in a rock drill?

Fault modes includes faulty membrane, where all pre-charge pressure escapes, but also leakages from the charging valve or seals. Faults are introduced by changing the pre-charge pressure. 3.2 Internal leakage, A and B Internal leakages can and do occur at numerous points in a rock drill.

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Abstract [en] A rock drilling system always responds to variations in the mechanical properties of the



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penetrated rock mass. Combining the drill response with a detailed understanding of the ...

An overview of many quality assurance and quality control (QA/QC) methods available to the industry are discussed in "A Comparison of Quality Management for Bored Pile/Drilled Shaft ...

This work presents a method for on-line condition monitoring of a hydraulic rock drill, though some of the findings can likely be applied in other applications. A fundamental difficulty ...

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