



Safe Operation of Rock Drilling Machine

The Rock drilling rig is to work according to the principle of impact crusher. High-frequency reciprocating movement of the piston continues to impact on drill tail. Under the impact, a wedge-shaped sharp drill head will crush the rock and chisel it into a certain depth, to form a dent. When the piston returned, the drill turned a certain angle, the piston moved forward once again, and impacted the drill tail to form a new dent. The fan-shaped rock between the two dents was cut by the horizontal component of the drill head. The Pistons continue to impact the drill tail, and continuous input compressed air and water into the hole from a center hole of drill, and discharge rock slag from the hole then to form a certain depth of a circular drilling hole.

1. Inspect the integrity and rotation of the various drill components (including drilling machines, brackets or drill rig) before drilling, add necessary lubricating oil, check the air duct way, water flow, make sure them unimpeded and all connectors firm.
2. Do the wall tapping and roof sounding near the working section, check the working section if there are unfirm and unfixed stones, and make necessary processing.
3. The embrasure location of the working section should be make flat before drilling, preventing embrasure position skidding or shift.
4. To drill dry hole is strictly forbidden, wet drilling operation should be adhered to. When starting drilling, turning on water should be before the wind, when stop drilling turning off water should be after the wind. at the start of drilling should be operated in low-speed, when getting into a certain depth could be drilled in at full speed.
5. When drilling the drill man was not allowed to wear gloves.
6. When using the air-leg rock drill , pay attention to the standing posture and position, never rely on physical pressure and do not stand under the drill rod in front of the rock drill, to prevent broken drill wounding.
7. In the process of drilling if unusual sound, unusual discharge slag and water emerges, you should stop to check, identify the causes and eliminate them to continue drilling.
- 8 When pulling out of the rock drill machine or replacing the drill rod, the drilling machine can be operated in a slow speed, and pay attention to the drill rod position, to avoid the drill rod automatically off and assaulting, and promptly shut down the gas line.
9. When using air-leg rock drill, the drill top should be earnestly drilled tight to prevent the top slip wounding.



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