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ROLLER LATCH™ UNDERGROUND HEAD ASSEMBLY

Product Overview



1 MKII™ SPEARHEAD

MKII™ spearhead assembly for added strength and safety, features self-lubricating nylon to reduce wear, self-centering spearpoint with multiple detent positions, and an innovative design to eliminate pinch points

2 HOLD-BACK BRAKING

Unique hold-back brake retains inner-tube assemblies in the drill string for safer operations in inclined and up-angle holes, as well as optional two-handed latch retraction for use without loading sleeves

3 ROLLER LATCH™

Roller Latches allow greater pump-in speed and productivity with diminished wear. The self-locking Roller Latch eliminates the need for adapter couplings and utilizes a newly-designed locking coupling

ROLLER LATCH™ U/G HEAD ASSEMBLY

Roller Latch™

Boart Longyear introduces Roller Latch™ technology on Quick Pump-In™ Head Assemblies for underground applications. This revolutionary design offers an improved alternative to the conventional link latch mechanism, featuring rolling latches that allow greater pump-in speed and lead to increased productivity.

Safe & Efficient Operations

Roller Latch underground head assemblies utilize large ball bearings for reliable latching and hold-back braking to retain inner tube assemblies in the drill string for safer operations. The new head assemblies incorporate the MKII™ spearhead for added strength and safety. NQU™ and HQU™ Quick Pump-In Roller Latch underground head assemblies are equipped with new variable lip pump-in seals that are compatible with V-Wall™ drill rods, offering all the advantages of lightweight V-Wall rods in underground coring applications.

Longer Life

Roller Latch life is superior to conventional latches because Roller Latches eliminate drag and deploy and retract radially, without swinging like conventional pinned latch mechanisms. Excessive wear due to loose fit and slippage is eliminated and Roller Latches simply drop back into position upon wireline retraction.

Improved Design

Roller Latch underground head assemblies are optimized for fluid flow and utilize corrosion and wear-resistant components to ensure smooth and reliable functionality. The new Roller Latch locking coupling connects the drill string directly to the outer-tube, locking Roller Latches and rotating the head assembly with the rod string. This eliminates the need for any adapter coupling, drive key, or tang feature. Locking couplings for Roller Latch are available in both full-hole or stabilized carbide styles.



4 FREE FLOW DESIGN

Patented design with axial grooves and tapered profile is optimized for fluid flow and utilizes corrosion and wear-resistant components to ensure smooth and reliable functionality while offering less resistance in all hole angles

5 V-WALL™ COMPATIBLE

NQU™ and HQU™ Quick Pump-In™ Roller Latch head assemblies are equipped with new variable lip pump-in seals that are compatible with V-Wall drill rods, offering the advantages of V-Wall in underground applications
(V-Wall seal not shown above)

SAFER OPERATIONS

Roller Latch head assemblies are safer and more reliable in underground applications, which allows drillers to maximize productivity

Genuine Q™ Wireline System

The new Roller Latch head assemblies are an integrated part of Boart Longyear's genuine Q™ wireline system. The Roller Latch system retains the Quick Pump-In valve and positive latch indication, but eliminates the need for O-rings leading to faster pump-in speeds. Underground Roller Latch head assemblies are available in AQTK, BQ, BQTK, NQ, NQTK, HQ sizes and are an integral part of the genuine Q™ wireline system, including current underground overshots.

LEGACY OF INNOVATION

Boart Longyear's global drilling services and applied product development have established products that define the industry-standard while forging next-generation technology and practices. For over 120 years, we have led the industry in new product development, productivity, and safety.

Boart Longyear boasts a history of leading product technology in core retrieval and wireline systems. In 1958, Boart Longyear introduced the wireline core retrieval system, becoming the first diamond drilling exploration product manufacturer to offer this system. The wireline retrieval system increased productivity on the worksite and made deep-hole operations more efficient and retrieving core from the bottom of the hole safer. Since the introduction of the wireline core retrieval system, the Boart Longyear design and engineering team has continued to refine the initial system resulting in the launch of the industry-standard patented Q wireline system in 1966.

The Roller Latch underground head assembly continues to build on Boart Longyear's legacy of innovative drilling technology and offers precise compatibility with all genuine Q underground wireline systems. Today, Boart Longyear remains dedicated to the development of in-hole tools and wireline technology and maintaining a culture of innovation and safety. Our design and engineering team are dedicated to inventing the next technology that enable customers to maximize productivity.



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