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QUICK DESCENT™ ROLLER LATCH™ HEAD ASSEMBLY

Product Overview



1 MKII™ SPEARHEAD

MKII™ Spearhead assembly provides 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. A new heavy duty spring provides a 30% increase in detent positioning strength and is treated for consistent, extended performance.

2 ROLLER LATCH™ TECHNOLOGY

Ultra-reliable Roller technology eliminates the low strength, play and jamming associated with traditional 'swing-out' latch mechanisms. Roller latches detent into retracted position to eliminate latch drag for increased tripping speed, particularly in V-Wall™ Rods. Roller latches overcome the detent upon landing, or alternatively can be positively driven to deployed position with fluid pressure, or with drill rotation centrifugal force. Under drilling rotation, roller latches self-lock into the locking coupling integrated latch seat to drive the head assembly, eliminating adapter couplings and locking coupling tangs.

3 LATCH INDICATION

Redesigned fluid control valve provides positive latch indication signal, and also provides patented 'Dry Hole Valve' functionality for lost circulation conditions in deep holes, when used with optional 'Fluid Retention' valve springs and bushings.

4 FREE FLOW DESIGN

Patented design with hollow spindle, latch body integrated check valve, axial grooves and tapered profile is optimized for fluid flow directly from the inner tube through the head assembly, offering dramatically reduced fluid drag for increased tripping speed. Up to 50% faster tripping when combined with enlarged V-Wall rod midbodies.

5 DOUBLE THRUST BEARINGS

A new spindle bushing provides direct lubrication and full enclosure of double thrust bearings, for increased load capacity and maximum bearing life at high rpm, ensuring reliable performance when pushing through difficult drilling conditions.

ESSENTIAL OPTIONS

Available 'Fluid Retention' valve kits and 'Dry Hole Lowering' overshot kits are ideal for lost circulation drilling conditions. When used with the Quick Descent™ Roller Latch™ head, patented 'Dry Hole Valve' functionality drains the retained column of fluid allowing wireline retraction in deep holes.

QUICK DESCENT™ ROLLER LATCH™ BARREL TECHNICAL OVERVIEW

PERFORMANCE

UP TO
50% FASTER*

*Using Quick Descent
Roller Latch Core Barrel
and V-Wall Coring Rod

Other Manufacturer's
In-hole Tooling

AVAILABILITY

		BQ/BQTK	NQ/NQTK	HQ	PQ
Feature	Roller Latch	▶	▶	▶	▶
	Latch Indication	▶	▶	▶	▶
	Hollow Spindle	▶	▶	▶	▶
	Double Thrust Bearings	▶	▶	▶	▶
	Fluid Retention**	▶	▶	▶	▶

**Optional Fluid Retention valve springs and bushings with patented 'Dry Hole Valve' functionality

Parts List	
Part Number	Description
Head ASM Parts	
5007740	HEAD ASM, BQ R/L Q/D
5007745	HEAD ASM, BQTK R/L Q/D
5007750	HEAD ASM, NQ R/L Q/D
5007755	HEAD ASM, NQTK R/L Q/D
5007760	HEAD ASM, HQ R/L Q/D
5007770	HEAD ASM, PQ R/L Q/D
Full-hole Locking Couplings	
5007902	L/CPLG, BQ F/H R/L Q/D
5007901	L/CPLG, BRQ F/H R/L Q/D
5007900	L/CPLG, BRQTK F/H R/L Q/D
5007897	L/CPLG, NQ F/H R/L Q/D
5007896	L/CPLG, NRQ F/H R/L Q/D
5007899	L/CPLG, HQ F/H R/L Q/D
5007898	L/CPLG, HRQ F/H R/L Q/D
Stabilized Locking Couplings	
5007910	L/CPLG, BQ STAB R/L Q/D
5007909	L/CPLG, BRQ STAB R/L Q/D
5007908	L/CPLG, BRQTK STAB R/L Q/D
5007905	L/CPLG, NQ STAB R/L Q/D
5007904	L/CPLG, NRQ STAB R/L Q/D
5007907	L/CPLG, HQ STAB R/L Q/D
5007906	L/CPLG, HRQ STAB R/L Q/D
5007799	L/CPLG, PHD STAB R/L Q/D

LEGACY OF INNOVATION

The Quick Descent™ Roller Latch™ head assembly continues to build on Boart Longyear's legacy of innovative drilling technology and offers precise compatibility with all genuine Q wireline systems.





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MINING AND EXPLORATION DRILLING PRODUCTS



Diamond Coring Rigs



Diamond Coring Bits



Rods and Casing