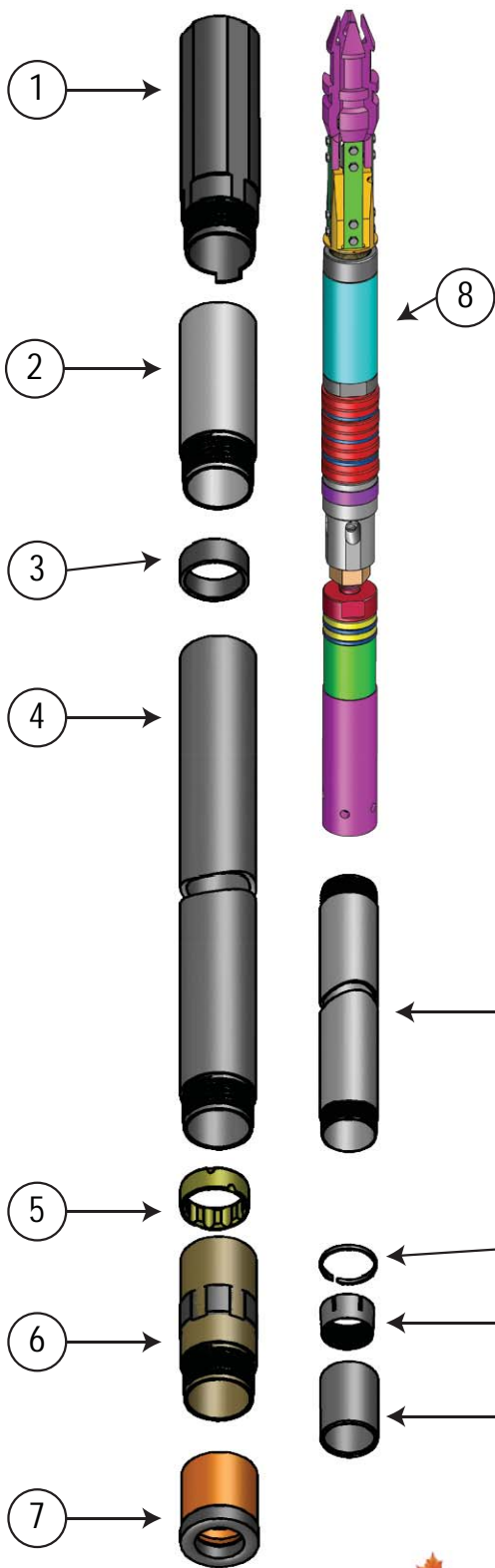


Drilling & Exploration - Q/L Core Barrels

Quad Latch Core Barrel



Quad-Latch Head Assembly features and benefits:

1. Greater latching strength
2. Ideal for drilling in sand and dry conditions
3. Ideal for drilling in back pressure
4. More latching surface to reduce the chance of miss-latches

8 The Quad-Latch head assembly features four (4) fingers used to lock the inner barrel into drilling position. The four finger latching system of the Quad-Latch head assembly provides positive latching with 60% more latching surfaces than other latching systems in the market. This larger latch area and rugged construction allow the assembly to withstand greater force from back-pressure in the hole and impact blows.

The Quad-Latch head assembly is designed with fewer moving parts than other wireline systems, making it ideal for drilling in sandy, abrasive formations and dry conditions. This design features a large open area that is less likely to "sand up around the overshot latching area", while at the same time allowing for greater flow of drill fluid during drilling operations.

The overshot tool functions without "external triggering hardware". The overshot features a step type mechanism to retrieve the inner barrel from the drilling position. The four Quad-Latch fingers cannot be released until the overshot tool compresses them for inner barrel recover, thus, ultimately reducing the chances of a miss-latch.

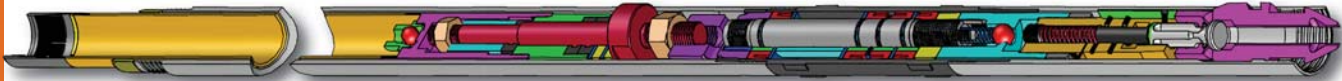
Usage guidelines:

1. Quad Latch must be loaded with a loading sleeve to avoid damaging the lips seals.
2. Close fingers when loading Quad Latch head assembly in the hole. This stops the piston from pushing downward, which prohibits the water flow through the head assembly. Thus forcing the water to flow on to the lip seals.
3. When Quad-latch is latched in the locking coupling the fingers open allowing the water pressure to push the piston downward. This opens up the water ways allowing water to flow through the inside of the head assembly down to the bit.
4. When you turn the water off the piston springs back allowing the fingers to squeeze together and receive the overshot
5. The quad latch is also features a an shaft and locking nut adapter which allows for greater adjustment over conventional head assemblies to the length of your head and inner tube assembly. This ensures your inner tube is positioned tightly to the bit and you have the best opportunity for full core recovery.



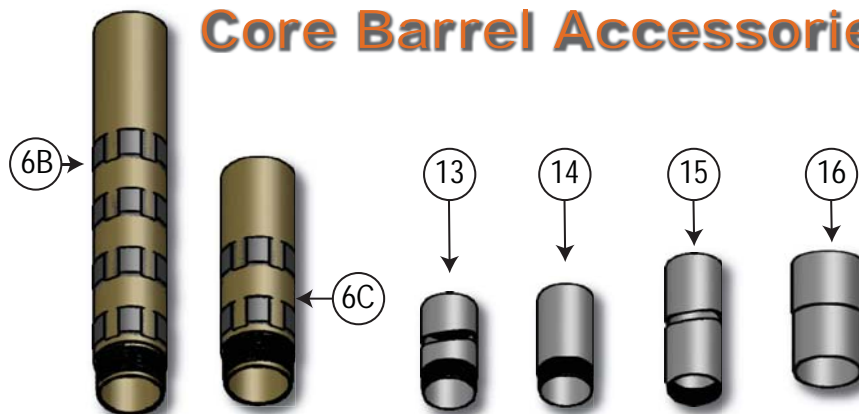
Drilling & Exploration - Q/L Core Barrels

Quad Latch Core Barrel



Item	Description	Part Numbers for Each Size			
		B	N	H	
	Assembly	92-45-300	92-45-400	92-45-500	
1	Locking Coupling	92-45-335	92-45-435	92-45-535	
2	Adapter Coupling	N/A	N/A	92-44-516	
3	Landing Ring	90-21-336	90-21-436	90-21-536	
4	Outer Tube	3m	90-21-350	90-21-450	90-21-550
		1.5m	90-21-345	90-21-445	90-21-545
5	Inner Tube Stabilizer	90-21-339	90-21-439	90-21-539	
6	Standard Shell	**	**	**	
7	Bit	**	**	**	
8	Head Assembly	92-45-302	92-45-402	92-45-502	
9	Inner Tube	3m	90-21-330	90-21-430	90-21-530
		1.5m	90-21-325	90-21-425	90-21-525
10	Stop Ring	90-21-332	90-21-432	90-21-532	
11	Core Lifter	Slotted	90-21-333	90-21-433	90-21-533
		Broached	90-21-333B	90-21-433B	90-21-533B
12	Core Lifter Case	90-21-331	90-21-431	90-21-531	
Accessories					
6B	Double Length Shell	**	**	**	
6C	Long Shell	**	**	**	
13	Extension, Inner Tube, Double Length Shell	90-21-393	90-21-493	90-21-593	
14	Extension, Inner Tube, Long Shell	90-21-392	90-21-492	90-21-592	
15	Coupling - Inner Tube	90-21-391	90-21-491	90-21-591	
16	Loading Sleeve	90-32-395	90-32-495	90-32-595	

Core Barrel Accessories



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