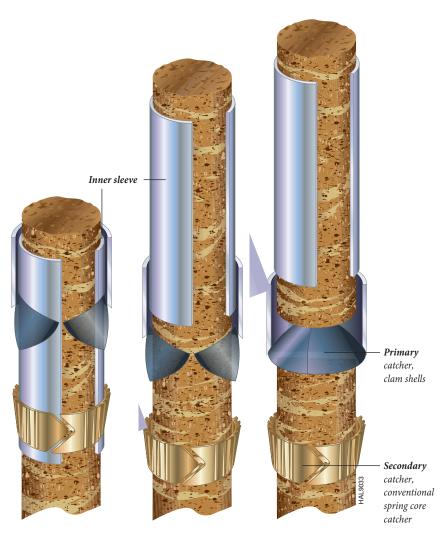
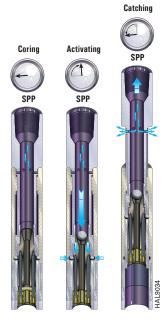
PosiClose™ System

The PosiClose™ system (patented) is designed to maximize core recovery in soft, unconsolidated formations. Unrestricted entry eliminates jamming from premature catcher-core contact. The catcher system fully closes to ensure complete retention throughout retrieval.



LEFT. Inner sleeve provides smooth, unrestricted bore for core entering the inner tube, which prevents jamming from premature contact with both core catchers. MIDDLE. Inner sleeve lifted after ball drop from surface, system ready to engage core. RIGHT. Clam shell catcher closes fully to cut and retain core, actuated by upward movement of the drillstring. If clam shells do not cut core, the conventional spring core catcher catches core in the standard method.



LEFT. At the surface, SPP (stand pipe pressure) while coring. MIDDLE. Ball is dropped from surface when coring run is complete. Clear surface indication that catcher system is unlocked and ready. Hydraulic pressure increases and lifts inner sleeve to expose core to catchers. RIGHT. Clear indication at surface when catcher is activated by stroking upper sub. Internal lower mechanism forces clam shells to shut, cut and seal-off core.

FIELD ADAPTABLE

Clam shells close for complete retention. PosiClose is available for the 6-3/4" HDT core barrel, for core size of 4 in. (101mm) with maximum core length of 90 ft (27m) for Top Drive systems, 30 ft (9m) for Kelly systems. Applications for up to 45° hole angle. All types of consumable inner tubes can be used. All company coreheads are available and are fitted with a PosiClose shank. A slotted ball valve is installed at the surface with an activating ball.





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PosiClose™ System Technical Specifications					
SYSTEM (BARREL X CORE SIZE)	6-3/4	1" X 4"			
	IMPERIAL	METRIC			
Hole Size Compatibility	8 to 9 in.	203 to 229 mm			
Maximum Flow Rate	300 gpm 1,363 lpm				
Core Size	4 in.	4 in. 101.6 mm			
Minimum Unit Length	30 ft	30 ft 9.14 m			
Core Barrel Type	HDT 6-3/4	HDT 6-3/4			
OUTER ASSEMBLY					
Top Connection (Box-API)	4-1/2 IF	4-1/2 IF			
Minimum Unit Length	30 ft	9.14 m			
Outer Barrel (OD x ID)	6-3/4 x 5-3/8 in.	171.5 x 136.5 mm			
Bit Sub (OD)	7.50 in.	190.5 mm			
Core Head Shank (OD)	7.25 in.	184.15 mm			
Pulling Capacity *	506,000 lbs	228 T			
Maximum Torque **	39,000 ft-lbs	5,300 daNm			
Make-up Torque ***	25,800 ft-lbs	3,500 daNm			
INNER TUBE ASSEMBLY					
Minimum Unit Length	30 ft	9.14 m			
Maximum OD	5.28 in.	134.0 mm			
Ball Size (1st and 2nd)	1-1/4 in. and 1-1/2 in.	31.8 mm and 38.1 mm			
Steel Inner Tube (OD x ID)	4-3/4 x 4-1/4 in.	120.7 x 108 mm			
Slick Aluminum Inner Tube (OD x ID)	4-3/4 x 4-1/4 in.	120.7 x 108 mm			
Fluted Aluminum Inner Tube (OD x ID)	4-3/4 x 4-1/8 in.	120.7 x 104.8 mm			
Fiber Inner Tube (OD x ID)	er Inner Tube (OD x ID) 4-3/4 x 4-1/4 in. 120.7 x 10				
(*) P.C. calculated with tensile stress = 80% of the y (**) Maximum Torque is about 80% of the yield torq (***) M.U.T. is based on torque test performed in Ha	ue				

Threadform Comparison							
	HEAVY DUTY THREADFORM (patented)			STANDARD THREADFORM			
1 1 5	Maximum Torque	39,000 ft-lbs	HAL9080	Maximum Torque	14,800 ft-lbs		
	Make-up Torque	25,800 ft-lbs		Make-up Torque	9,600 ft-lbs		
	Maximum Pull	506,000 lbs		Maximum Pull	471,000 lbs		
HAL9080	Static Bending	17 deg./100 ft		Static Bending	14 deg./100 ft		
	Maximum Dogleg Severity	10 deg./100 ft		Maximum Dogleg Severity	2 deg./100 ft		
	Fatigue Life	> 1,000%		Fatigue Life	100%		

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