



BLACKHAWK
SPECIALTY TOOLS

A division of Frank's International

ENGINEERED CEMENTING SOLUTIONS

FH CEMENT RETAINER

Blackhawk's one trip FH cementing tool combines the pump-through, single trip capability of a mechanical setting tool with the advantages of being able to work rig less and in the high angle environments that favor use of a hydraulic setting tool.

FEATURES

- Hydraulically set cement retainer and squeeze in one trip.
- Hydraulically set bridge plug and dump cement in one trip.
- Ability to circulate up to 1500 psi through tool while running in hole.
- Ability to run tool in hole with ball on seat.
- Ability to perform casing/tubing tests after setting retainer and prior to beginning squeeze operations.



FH CEMENT RETAINER

Casing Details				Tool Details		
Casing Size (IN.)	Weight (LBS/FT)	Casing Min ID Setting Range (IN.)	Casing Max ID Setting Range (IN.)	OD (IN.)	Maximum Temperature (°F)	Maximum Pressure (PSI)
2-3/8	4.6 - 4.7	1.937	2.041	1.75	325	3,500
2-7/8	6.4 - 6.5	2.375	2.5	2.187	325	5,000
3-1/2	9.2 - 9.3	2.992	3.068	2.75	325	5,000
7	17 - 35	6.004	6.538	5.687	325	10,000
7-5/8	20 - 39	6.625	7.263	6.312	325	10,000
9-5/8	29.3 - 53.5	8.435	9.063	8.125	300	8,000
10-3/4	32.7 - 51	9.85	11.15	9.50	300	5,000
11-3/4	38 - 60	9.85	11.15	9.50	300	5,000
13-3/8	48 - 72	12.347	12.715	12.00	300	3,000
16	65 - 109	14.688	15.25	14.25	300	2,000