

CASING SCRAPERS

Overview

Obstruction-free casing is critical for the efficient operation of many downhole tools during drilling, fishing, completion, or wireline jobs. The Logan Casing Scraper removes rust, scale, cement, mud, bullets, paraffin, perforation burrs, and other obstructions or foreign material from inside the walls of casing. Logan Casing Scrapers are available to condition pipe ranging from 4-1/2 to 13-3/8 inches O.D.

Construction

The one-piece mandrel design is rugged and easy to maintain. The splined body locks each blade into an integral part of the body to insure absolute safety and security.

Two sets of blades provide maximum cutting surface area whether the tool is run for rotary or vertical operations, or run on drill pipe or wireline. The scraper blades are designed with a long taper for passing through casing connections with minimal chance of hang up. Each blade is constructed from high quality cast steel for excellent scraping characteristics and long-lasting durability.

Assembly

The Logan Casing Scraper is easily assembled using standard shop tools. No special tools are required. The blades and springs are held in place by the retainer rings and retainer ring nuts. The upper, or pin end connection on the

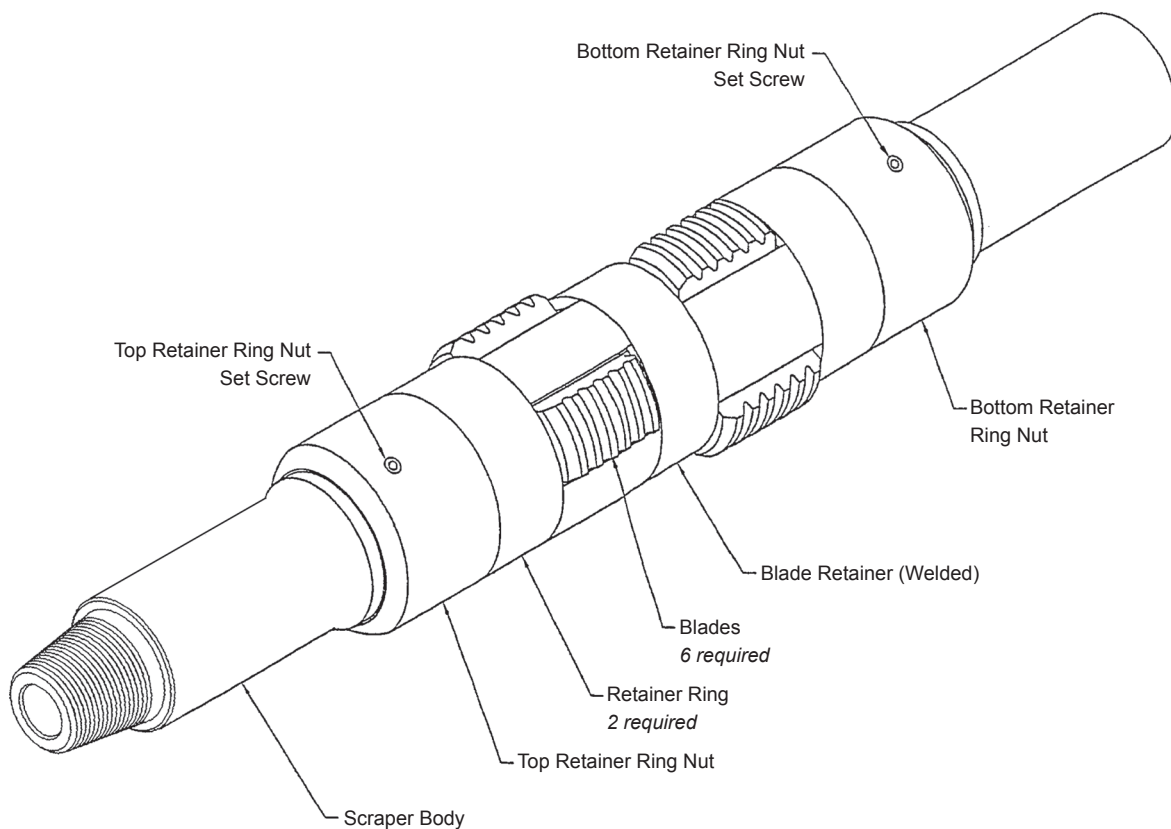
mandrel, and the retainer nut are left-hand to prevent back off downhole during right-hand rotation should the set screws loosen during operation.

Operation

The Logan Casing Scraper is normally made up to the work string with a drill bit attached to the bottom connection. Simply run the scraper into the casing or tubing using rotation or spudding to clean the inside of the pipe.

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and weight of casing
- (3) Size and type of connection



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SIZE TO SCRAPE (O.D.)		4-1/2	5-1/2	7	9-5/8	10-3/4	13-3/8	
WEIGHT (LBS)		9.5 to 15.1 5 13.0 to 26.7	14.0 to 20.0	17.0 to 38.0	32.2 to 64.9	32.75 to 73.2	48.0 to 98.0	
CONNECTION		2-3/8 API Reg	2-7/8 API Reg	3-1/2 API Reg	4-1/2 API Reg	6-5/8 API Reg	6-5/8 API Reg	
TOOL O.D.		3-5/8	4-1/2	5-3/8	7-1/2	8-3/4	11	
COMPLETE ASSEMBLY	Logan Part No.	508-361	508-450	508-538	508-750	508-875	508-1100	
MANDREL	Logan Part No.	AX800	AX10011	AX1002	AX1003	AX1004	AX1005	
BLADE	Logan Part No.	AX2000	AX2001	AX2002	AX2003	AX2004	AX2005	
	No. Req'd	6	6	6	6	8	6	
SPRING	Logan Part No.	AX802	AX40011	AX4000	AX4003	AX40013	AX4005	
	No. Req'd	18	18	30	30	32	30	
TOP RETAINER RING NUT (LEFT-HAND THREAD)	Logan Part No.	AX7000	AX7001	AX7002	AX7003	AX7004	AX7005	
BTM RETAINER RING NUT (RIGHT-HAND THREAD)	Logan Part No.	AX8000	AX8001	AX8002	AX8003	AX8004	AX8005	
RETAINER RING	Logan Part No.	AX9000	AX9001	AX9002	AX9003	AX9004	AX9005	
	No. Req'd	2	2	2	2	2	2	
SET SCREW	Logan Part No.	P12004	AX10001	AX10002	AX10002	AX10002	AX10004	
	No. Req'd	2	2	2	2	2	2	

OPTIONAL DRESS FOR SIZE (O.D.)		5-1/2	5-3/4	7-5/8	...	11-3/4	...	
WEIGHT (LBS)		20.0 to 26.0	14.0 to 24.4	24 to 47.1	...	42 to 87.2	...	
BLADE	Logan Part No.	AX2000-002	AX30012	AX3002	...	AX3004	...	
	No. Req'd	...	6	6	...	8	...	
SPRING	Logan Part No.	AX802	AX40012	AX4000	...	...	...
	No. Req'd	...	18	30	...	...	...

OPTIONAL DRESS FOR SIZE (O.D.)		...	6-5/8	...	...	...	...
WEIGHT (LBS)		...	17 to 24	...	...	...	...
BLADE	Logan Part No.	...	AX30013	...	...	...	...
	No. Req'd	...	6	...	...	...	...
SPRING	Logan Part No.	...	AX40013	...	...	...	...
	No. Req'd	...	18	...	...	...	...

Logan Oil Tools reserves the right to change or discontinue designs without notice.

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and weight of casing
- (3) Size and type of connection

Recommended Spare Parts:

- (1) 1 set of Blades for each size casing

Note: Larger sizes are available upon request.