

## CASING SCRAPERS

### Overview

Obstruction-free casing is critical for the efficient operation of many downhole tools during drilling, fishing, completion, or wireline jobs. The 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 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

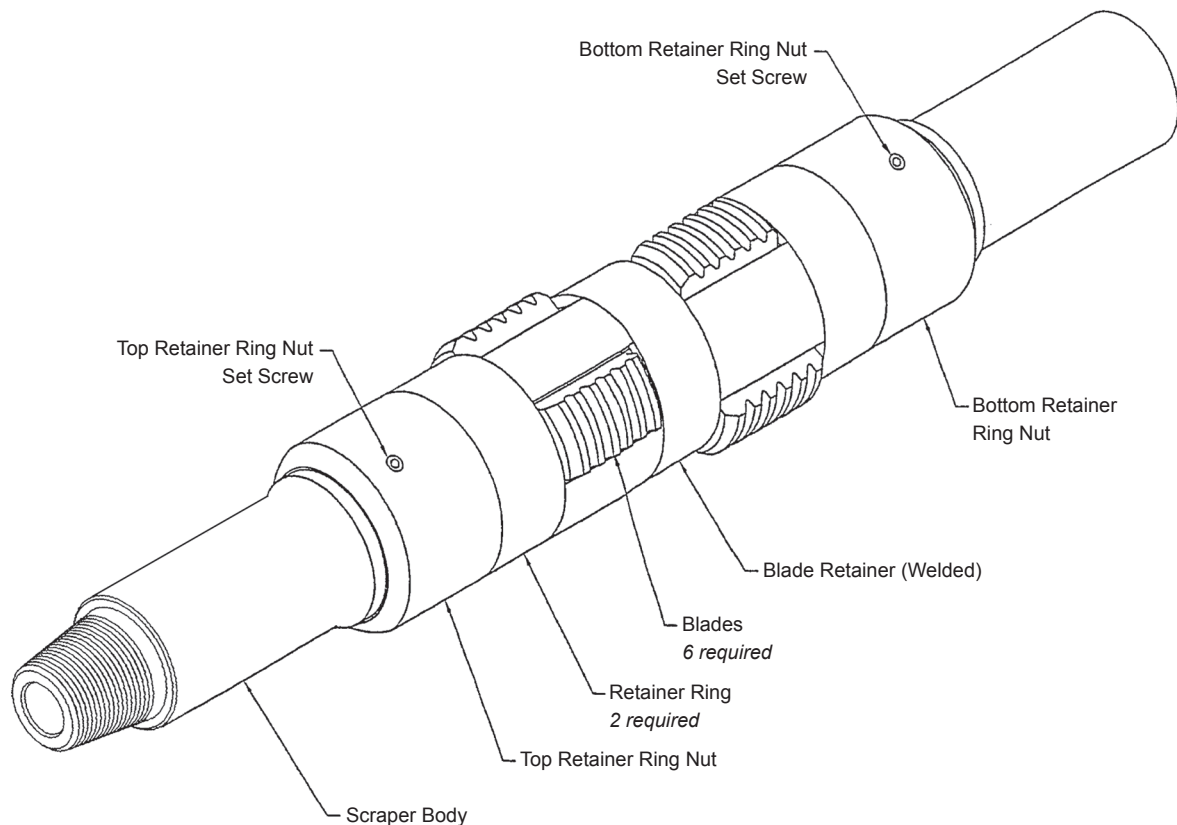
mandrel, and the retainer nut are left-hand to prevent back off downhole during right-hand rotation should the set screws loosen during operation.

### Operation

The 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





## Casing Scrapers

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

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

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

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- (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.*