



OVERVIEW

Use

The Logan HE "AJ" Reversing Tool is used to unscrew and recover sections of right-hand strings of pipe that are stuck or lodged in the well. Using the Reversing Tool on right-hand drill pipe or tubing eliminates the need for a complete string of left-hand pipe to recover lost tubing or drill pipe string.

Construction

The Reversing Tool is a combination of planetary gearing and anchoring systems. It's capable of converting right-hand torque from the surface to a powerful left-hand torque below the tool to the fish. Internal diameters give complete freedom to perform other fishing operations such as washing down, engaging and disengaging the fish, releasing the tool and the fish and permitting the use of string shots.

Operation

The Logan HE "AJ" Reversing Tool is designed to run only inside well casing, and under no circumstances should it be operated below the casing in open hole. A left-hand fishing assembly is made up on the lower end of the Reversing Tool. Left-hand tools required for fishing assemblies are available. Please contact your local Logan Oil Tools representative for details. Specific operational procedures should be followed when engaging the fish and setting the Reversing Tool. After engaging the fish and setting the Reversing Tool, right-hand torque is applied from the surface while left-hand torque is slowly developed below the tool until the fish is unscrewed and recovered. The Reversing Tool can be released from its setting position and disengaged from the fish if necessary.

SPECIFICATIONS

Nominal size (inches)	3	4	6	6 (With wing extensions)	8	8 (With wing extensions)
Outside Diameter	3-3/4	4-1/16	5-13/16	5-13/16	7-3/4	7-3/4
Inside Diameter	5/8	1-1/8	1-1/4	1-1/4	1-1/4	1-1/4
Length	106	116	147	147	157	157
To operate in casing sizes	4-1/2" up to 13 lbs thru 5-1/2" up to 13 lbs	5" up to 18 lbs thru 7" 38 & 40 lbs	7" up to 35 lbs thru 8-5/8" All Wts.	9-5/8" All Wts.	9-5/8" thru 10-3/4" All Wts.	11-3/4" thru 13-3/8" All Wts. or 15" thru 16" All Wts.
Complete Assembly	Part No.	16084	15690	16082	16083	
	Wt. (lbs)	210	375	-	-	

Contact:

Sales and Manufacturing
 Logan Oil Tools, Inc.
 11006 Lucerne Street
 Houston, Texas 77016
 Tel: 281.219.6613
 Fax: 281.219.6638

Email: sales@loganoiltools.com
www.loganinternationalinc.com



ENGINEERING DATA

Nominal size (inches)		3	4	6	8
Maximum yield tensile strength (static)(lbs)		90,000	150,000	200,000	400,000
Pull up tensile load (lbs) for rotary right hand release and RPM		20,000-50,000 90-100 RPM	50,000 100 RPM	60,000-80,000 120 RPM	Up to 100,000 120 RPM
Maximum torsional yield (lbf-ft) Ratio 1-78:1	Input	4000	10,000	14,000	22,000
	Output	7,120	17,800	24,920	39,160
Maximum pump pressure (internal)		5000 PSI	5000 PSI	5000 PSI	5000 PSI
Minimum pump pressure (to lock tool static)		200 PSI	150 PSI	150 PSI	150 PSI
Minimum pump pressure (to lock tool in hole)		600 PSI	500 PSI	500 PSI	500 PSI

Contact:

Sales and Manufacturing
Logan Oil Tools, Inc.
11006 Lucerne Street
Houston, Texas 77016
Tel: 281.219.6613
Fax: 281.219.6638

Email: sales@loganoiltools.com
www.loganinternationalinc.com