Logan HE Releasable Washover External Tubing Cutter

OVERVIEW

Use

The Logan HE "DH" Cutter has been designed to Washover, cut and recover stuck tubing in lengths of cuts up to 1,500 feet. Unlike most external cutters, the initial run of the rotary shoe and Washover pipe is eliminated, thus saving as much as fifty per cent of valuable rig time ordinarily required for such operations. The releasability feature virtually eliminates the expensive repair charges normally incurred when the cut cannot be made.

Features

Principal parts of the "DH" Cutter are: Top Sub, Drive Sleeve, Actuator Sleeve, Knives, Drive Body and either a Slip Dog Overshot or T-Dog Overshot Assembly. The type overshot assembly used is governed by the type of tubing to be cut.

Both dependable Slip Dog and T-Dog overshot assemblies will catch and release their respective tubing. All releasing operations require only right-hand rotation, while lifting. The overshots will automatically return to the catch position after releasing.

The cutting elements of the "DH" cutter are well supported and can be either tool steel or tungsten carbide inserted to assure numerous cuts. The knives are protected by the knife actuator until put in the cutting position, and then spring fed to assure proper feeding, eliminating the possibility of excess loading. The lower connection will allow the use of Washpipe and/or a rotary shoe below the cutter if necessary.

SPECIFICATIONS

Nominal size (inches)	**4**	**4-1/2**	**5-1/2**
Outside diameter	4-1/8*	4-9/16	5-9/16
Inside diameter	3-3/16	3-3/8	4
Approximate weight (lbs)	53	94	140
Approximate length	52	54	70
Complete Assembly must specify T-Dog on Slip Overshot Assembly	Part No. 14094	Part No. 14095	Part No. 14096
Tubing to cut	1.9" to 2-3/8" EUE or Int. Joint	1.9" to 2-3/8" EUE or Int. Joint	2-3/8" to 2-7/8" EUE or Int. Joint
Maximum load (bearing)(lbs)	15,000	20,000	30,000
Maximum length Tubing cut	1,000' (2-3/8" EUE) 1,500' (1.9" EUE)	1,500' (2-3/8" EUE) 2,000' (1.9" EUE)	1,000' (2-7/8" EUE) 2,000' (2-3/8" EUE)
Maximum cutting load (lbs)**	3,000	3,000	4,000
Cutting speed	20-100 RPM	20-100 RPM	20-100 RPM
Approx. cutting time	1-5 min.	1-5 min.	1-5 min.

* Optional 4-1/16" O.D. Maximum cutting load is in excess of the weight of the fish.

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