

Whipstocks

Dual Trip System - Permanent



www.eatonoiltools.com

No Problems . . . Only Solutions!

ABOUT US

Eaton Oil Tools, Inc. was founded in 1973 as a full service casing cutting company, servicing much of the offshore oil and gas industry in the Gulf of Mexico. Growing with the rising needs of the South Louisiana oil fields Eaton expanded its area of expertise and involvement. Today, after years of growing and expanding business operations, Eaton Oil Tools, Inc. has expanded into a leading service supplier of **cased & open hole fishing, thru tubing fishing, casing cutting, section milling, whipstocks & rental tools** throughout the Gulf of Mexico and Southern US. Our organization consists of talented, knowledgeable, technical veteran managers and supervisors who bring years of hands-on experience to our firm. With headquarters in Broussard, LA and additional facilities in Ruston, LA and Carthage, TX ; Eaton has been operating for over 40 years in the US and we are proud of the fact that we have what many consider to be the *best* "hands" in the oilfield. Our reputation of all services speaks for itself!



The Eaton Dual Trip Whipstock is an economical, quality built tool designed to prepare or "cut a window" in the casing of your existing wellbore. The Eaton Dual Trip Whipstock can be utilized in a vertical or high angle hole for sidetracking the original wellbore or in preparation for directional or horizontal drilling. The Tail Trip design may be set off of a bridge plug, junk or any other obstruction in the wellbore. Due to the design of the slip teeth, once the Tail Trip mechanism is set, the Eaton Whipstock can neither be lowered nor rotated.

On the first trip in the wellbore the Whipstock is lowered by way of the Starting Mill, orientated to your predetermined direction, anchored by the shearing of the shear bolt and initial milling of the casing window is begun. The completion of the casing window is achieved on subsequent mill runs featuring a window mill & watermelon mills.

Eaton also offers a retrievable whipstock option.



Starting Mill

The Starting Mill is a specialized milling tool used for orientation of the Whipstock as well as landing and setting of the whipstock in a predetermined direction. After shearing the setting stud, the milling operation begins, guided by a tapered pilot, creating the initial cutting of the casing window.



Window Mill

The Window Mill is designed to mill the window as fast and safe as possible. The design of the mill will grind the casing like a fine metal powder instead of metal shavings or chips. With the round nose and radical round design of the window mill - it is virtually impossible to mill up the Whipstock.



Watermelon Mills

The Watermelon Mill is made to run in tandem with other mills designed and dressed in such a way that it can mill up or down. The watermelon mill is also designed to grind up casing into fine metal powder instead of metal shavings. Watermelon mills allow the window to be "opened up" to prevent future drag.

CARTHAGE, TX

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CORPORATE OPERATIONS

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Applications

- Sidetracks
- Controlled Casing Exit

Features

- Economical Dual Trip System
- Unique mill design - allowing quick milling operations
- Casing Slips provide solid anchoring
- Vertical or High Angle well exit capability

Specifications

Whipstock OD, in	3 1/2	4 1/2	5 1/2	6 1/4	8	9
Casing size, in	4 1/2	5 1/2	7	7 5/8	9 5/8	10 3/4
A, Concave angle	2°	2°	2°	2°	3°	4°
B, Concave Length, ft	10	10	10	10	10	10
C, Length to anchor, ft	12	12	12	12	14	14
D, Total length, ft	16	16	16	16	18	18
Shear bolt shear Value, lbs	10,000	13,000	17,000	17,000	20,000	24,000

****Specifications may vary slightly.**

****Specifications provided is based on our standard - permanent type whipstocks set in standard weight casings. Whipstocks can be manufactured with other specifications specific to customer needs.**

****Eaton also offers a retrievable whipstock option.**



Benefits

- Dual Trip reliable, effective and economical sidetracks
- Simple, no problem whipstock design
- Confidence in system due to years of successful track record

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