

5½ in. TrackMaster* Select

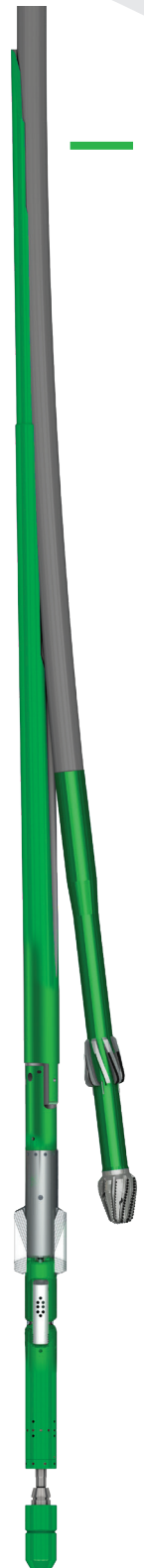
Cased Hole Hydraulic Whipstock System

The TrackMaster* Select cased hole whipstock system delivers high-quality, full-gauge windows for exiting standard steel casing in low- to medium-strength formations. Premium mills offer the ability for quality window exits in high-grade steel and chrome casings, as well as in formations with unconfined compressive strength (UCS) of over 40,000 psi. The whipstock system produces low dogleg severity across the exit, and it has a hook-retrieval slot for reliable recovery.

Running in with the whipstock, orienting and setting it, milling the window, and drilling the rathole can all be accomplished in a single trip. Alternatively, the milling assembly can be run in separately. Once the whipstock is set, the running assembly shear bolt is severed; both parts of the bolt are retained within the tool. Coiled tubing or jointed pipe can be used to deploy the whipstock.

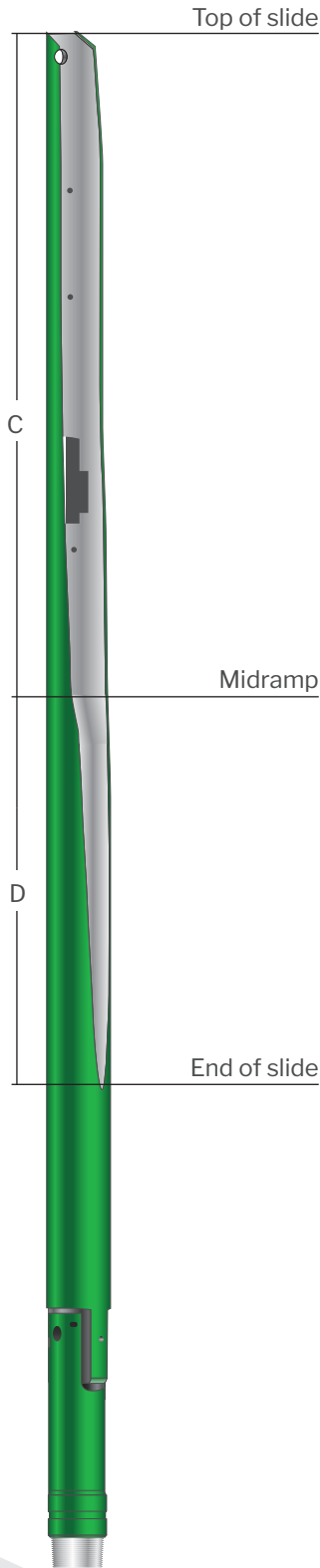
5½ IN. TRACKMASTER SELECT TT ANCHOR SUB-ASSEMBLIES SPECIFICATIONS					
5½ in. OD x 14 lb/ft through 26 lb/ft Casing					
Type	Casing Weight, lb/ft	Body OD, in. [mm]	Length, in. [cm]	Connection Size & Type, in.	Weight, lb [kg]
Thru-Tubing Expandable Anchor 4½ in. x 7 in.	NA	3.62 [91.95]	60.92 [154.73]	3.00-10-SA Box	149 [67.6]
Crossover	NA	4.18 [106.17]	12.00 [30.48]	2⅞ IF Box x 3.00-SA Pin	26 [11.8]
Running Tool	NA	3.50 [88.90]	75.00 [190.50]	2⅜ IF Box x 2⅜ IF Box	185 [83.9]
Multi-Cycle Bypass Valve	NA	3.75 [95.25]	48.17 [122.35]	2⅜ IF Box x 2⅜ IF Pin	96 [43.5]

5½ IN. TRACKMASTER SELECT WHIPSTOCK SLIDE SPECIFICATIONS	
Whipstock Slide	
Overall Length (A), ft [m]	10.06 [3.07]
Face Length (B), ft [m]	7.37 [2.25]
OD, in. [mm]	4.19 [106.43]



TrackMaster thru-tubing anchor whipstock system.

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Rotary anchoring

The hydraulically actuated expandable anchor spans multiple casing sizes and weights. It uses an anti-rotational, high-axial-load, tongue-and-groove slip design, which enables precise slip extension and provides a greater slip contact area compared with other systems. Slips are assembled in pairs, which are placed at 90° to each other, providing maximum centralization and stability. A specially designed body lock ring ensures the setting force is maintained once the slips are deployed.

Casing mills

Two different mills are available with the TrackMaster* Select system:

- TrackMaster Select one-trip mills are designed to mill casing and require less torque and weight on bit (WOB) than standard milling assemblies. They can be fitted with cylindrical carbide mill inserts or PDC inserts to suit the application.
- TrackMaster Hard Formation* mill PDC cutter steerable mills are engineered with a force-balanced cutting structure that can efficiently mill casing, and also drill formations with compressive strengths up to 40,000 psi.

APPLICATIONS

- Conventional casing exits.

BENEFITS

- Efficient rig time by deploying, orienting, setting a whipstock, milling window and drilling rathole.
- Provides consistent, fast milling with a TrackMaster Select one-trip mill.
- Milling assembly deployed with whipstock in the same run, if desired.

FEATURES

- Anchor provides solid foundation throughout operations.
- Hydraulically actuated expandable anchor for stable positioning
- Slips designed for maximum centralization and stability.

TRACKMASTER SELECT SYSTEM MILLING SPECIFICATIONS

Whipstock Slide	C	D
Length of section, in. [cm]	53.9 [136.91]	34.9 [88.65]
Weight on mill, lbf [N]	2,000 – 7,000 [8,896 – 31,138]	2,000 – 7,000 [8,896 – 31,138]
Rotary speed, rpm	60 – 120	60 – 120

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