Schlumberger

RRT

Right-hand-release running tool for COLOSSUS CMT and COLOSSUS UNC systems

Rated up to 45,000 ft.lbf [61,000 N.m]

Rated up to 800,000 lbm [3.560 kN]

APPLICATIONS

- Running a liner hanger with or without a liner top packer
- Liner hanger applications where drill-down capability is required.
- Liner hanger applications where the liner is rotated after setting the liner hanger
- Running liners in tight wellbores
- Long and heavy liner deployment

BENEFITS

- Minimizes completion time by deploying drilldown liner system
- Improves cement integrity and enhances well stability and safety by rotating the liner while cementing
- Prevents risk of premature release of the liner and eliminates lost rig time with hydraulic lock mechanism

FEATURES

- Conversion kit option for mechanical or hydromechanical release
- Clutch design that transmits high torque to the liner
- Hydraulic lock feature that reduces risk of premature liner release in drill-down applications
- Right-hand running-thread-type release
- Standing-valve profile to facilitate contingency release if ball seats are washed out
- Optional packoff element that seals tieback receptacle during cementing
- High tensile and torque ratings

The right-hand-release running tool (RRT) is designed to convey liner hanger systems that require high torque to enable drilling the liner during the operation. In cases where a rotational liner hanger is deployed, the RRT also enables the liner to be rotated after the liner hanger is set. The tensile and torque ratings make the RRT suitable for challenging liner hanger applications.

The RRT can be configured into a mechanical or hydromechanical release tool. The RRT-HM hydraulic model has an antiprerelease feature that ensures the setting tool does not release prematurely in drilldown applications. After the hydraulic lock has been released by applying the required pressure, the RRT-HM is mechanically released by rotating to the right in compression. In situations where a hydraulic antiprerelease feature is not required, the RRT can be reconfigured for mechanical release only (RRT-M).

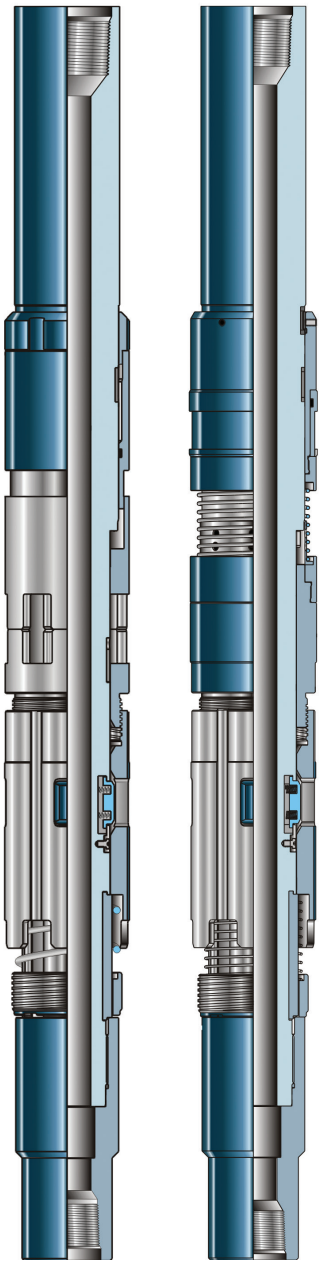
The RRT is also used to run mechanically or hydraulically set liner systems that employ the LTP Max* high-pressure liner top packer, LTP liner top packer, or, when installation is across multiple runs, the setting adapter for the COLOSSUS CMT* cemented liner hanger system and COLOSSUS UNC* uncemented liner hanger system.

The setting string assembly typically consists of an RRT, a slick joint, a cementing packoff bushing, a liner wiper-plug adapter, and an extension to connect to the running string. A packer-dog assembly can be included if a liner top packer is run.

RRT Specifications

Liner Size, in [mm]	Casing Size, in [mm]	Torque Rating, ft.lbf [N.m]	Max. Tensile Load, lbm [kN]	Max. Compressive Load, lbf [kN]
5.000 [127.0]	7.000 [177.8]	20,000 [27,000]	600,000 [2,670]	170,000 [760]
5.500 [139.7]	7.625 [193.7]	20,000 [27,000]	600,000 [2,670]	180,000 [800]
7.000 [177.8]	9.625 [244.5]	45,000 [61,000]	800,000 [3,560]	373,000 [1,660]
7.625 [193.7]	9.625 [244.5]	45,000 [61,000]	800,000 [3,560]	373,000 [1,660]

†Other sizes available on request.



Left: RRT-HM hydromechanical release running tool.

Right: RRT-M mechanical release running tool.