

CRT

Hydraulic collet running tool for COLOSSUS CMT and COLOSSUS UNC systems



Rated up to 140,000 ft.lbf
[190,000 N.m]



Rated up to 2,036,000 lbm
[923,500 kg]

APPLICATIONS

- High-inclination wells
- Liners requiring drilldown capabilities
- Liner rotation after liner hanger is set
- Tight wellbores
- Long and heavy liner deployment
- Running a liner hanger with or without a liner top packer

BENEFITS

- Reduces risk of premature liner release and enhances well stability and safety by adding backlash protection
- Reduces risk of pulling liner out of the well and saves associated time and costs by adding secondary release
- Minimizes completion time by enabling liner rotation while running into the well
- Improves cement integrity and enhances well stability and safety by enabling liner rotation while cementing

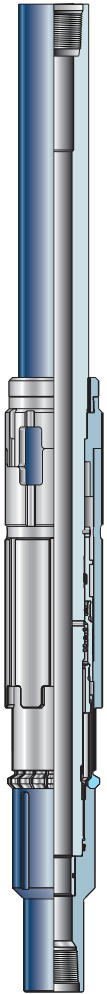
FEATURES

- Capability of carrying heavy liner loads
- Clutch design that transmits high torque to liner
- Variable shear-pressure settings for liner systems comprising numerous hydraulic actuating components
- Backup mechanical release (one-quarter left-hand turn) to ensure liner release
- Optional standing valve profile in bottom sub for contingency release

The collet running tool (CRT) is a hydraulically released running tool that requires no rotation to be released from the liner, making it suitable for applications in high-inclination wells. The clutch and premium tool joint connections permit high-torque rotating and drilldown capabilities throughout the liner system. When a rotational liner hanger is deployed, the CRT also enables the liner to be rotated after the liner hanger is set.

The CRT has a backup mechanical-release mechanism to ensure its release from the liner. The mechanical release is achieved by a one-quarter left-hand turn and placement of the tool in compression.

The CRT is used to run liner hanger systems that use the LTP Max* high-pressure liner top packer or the setting adapter, such as the COLOSSUS CMT* cemented liner hanger system and COLOSSUS UNC* uncemented liner hanger system. The setting string assembly comprises a CRT running tool, 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 also be included if an LTP or LTP Max packer is run.



CRT collet running tool.

CRT Specifications

Liner × Casing Size, [†] in [mm]	Casing Size [†] , in [mm]	Temperature Rating [‡] , degF [degC]	Torque Rating, ft.lbf [N.m]	Max. Tensile Load, lbm [kg]	Max. Compressive Load, lbm [kg]
5.000 [127.0]	7.000 [177.8]	325 [163]	20,000 [27,000]	356,000 [161,500]	172,000 [78,000]
5.500 [139.7]	7.625 [193.7]	325 [163]	20,000 [27,000]	392,000 [177,800]	182,000 [82,550]
7.000 [177.8]	9.625 [244.5]	325 [163]	50,000 [68,000]	750,000 [340,200]	357,000 [161,900]
7.625 [193.7]	9.625 [244.5]	325 [163]	50,000 [68,000]	650,000 [295,000]	313,000 [142,000]
7.625 [193.7]	10.750 [273.0]	325 [163]	50,000 [68,000]	710,000 [322,000]	401,000 [181,900]
9.625 [244.5]	11.750 [298.5]	325 [163]	90,000 [122,000]	941,000 [426,800]	558,000 [253,100]
9.625 [244.5]	13.375 [339.7]	325 [163]	137,000 [186,000]	1,540,000 [698,500]	971,000 [440,400]
10.750 [273.0]	13.375 [339.7]	325 [163]	120,000 [163,000]	1,300,000 [589,700]	959,000 [435,000]
11.750 [298.5]	13.375 [339.7]	325 [163]	90,000 [122,000]	969,000 [439,500]	524,000 [237,700]
13.375 [339.7]	16.000 [406.4]	325 [163]	130,000 [176,000]	1,151,000 [522,100]	832,000 [377,400]
16.000 [406.4]	20.000 [508.0]	325 [163]	140,000 [190,000]	2,036,000 [923,500]	1,092,000 [495,300]

[†]Other sizes are available on request.

[‡]Temperature rating of 400 degF (204 degC) available on request