

# HCHR

## High-capacity hydraulic rotating liner hanger for COLOSSUS liner hanger systems



**Rated up to 2,400,000 lbm**  
[1,088,621 kg]



**Rated up to 204 degC**  
[400 degF]

### APPLICATIONS

- Deepwater and deep onshore wells
- High-pressure, high-temperature environments
- Well applications requiring hanging heavy liners
- Drilldown applications
- Vertical and horizontal wells

### BENEFITS

- Reaches target depth on schedule, minimizes completion time, and reduces well costs by deploying hanger in drilldown applications
- Minimizes risk of setting the hanger prematurely with antipreset mechanism and avoids associated operational costs
- Improves cement integrity and enhances well stability and safety by allowing long, heavy liners to be rotated during cementing

### FEATURES

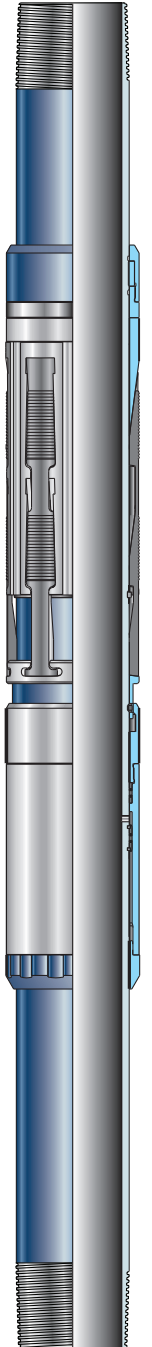
- Slip-cone design that delivers lower and more uniform stresses in casing and mandrel, providing enhanced hanging capacity
- Hydraulic setting mechanism
- Slip-cone design that eliminates cone collapse
- Slip design and hardness compatibility with high-grade casing
- Antipreset mechanism that aids in completion of challenging wells
- High-performance bearing that allows rotation of heavy liners during cementing
- Fully pocketed slips that reduce running and rotating interference in drilldown applications
- Standard premium connections

The premium high-capacity hydraulic rotating liner hanger (HCHR) is a hydraulic-set, hydraulic-release hanger designed for deepwater, high-temperature, and high-pressure applications. Its slip-cone design distributes axial and radial loading through the hanger body and provides increased hanging capacity over cone-type hangers.

The HCHR liner hanger features high-torque capacity and pocketed slips to facilitate drilldown operations under challenging wellbore conditions. An antipreset mechanism prevents the hanger from being set prematurely until the hydraulic setting mechanism is activated. When enough pressure has been applied to the system and the slips have been set, a high-performance bearing allows long, heavy liners to be rotated during cementing to improve cement integrity.

The HCHR, part of the COLOSSUS\* liner hanger systems, is run with the PV-3 liner top packer or setting adapter. The CRT hydraulic-release collet running tool or RRT-HM right-hand release hydromechanical running tool provides rotational drilldown capabilities.

The HCHR uses standard materials with yield strengths from 80,000 to 125,000 psi [552 to 862 MPa]. Other yield strengths and materials are available upon request.



*HCHR high-capacity hydraulic rotating liner hanger.*

## HCHR Specifications

Liner × Casing Size, <sup>†</sup> in [mm]	Casing		Liner		
	Size, in [mm]	Weight Range, lbm/ft [kg/m]	Size, in [mm]	Weight, lbm/ft [kg/m]	Max. OD, in [mm]
5.000 × 7.000 [127.0 × 177.8]	7.000 [177.8]	26.0–32.0 [38.7–47.7]	5.000 [127.0]	15.0 [22.4]	5.921 [150.4]
5.500 × 7.625 [139.7 × 193.7]	7.625 [193.7]	33.7–39.0 [50.2–58.1]	5.500 [139.7]	17.0 [25.3]	6.452 [163.9]
7.000 × 9.625 [177.8 × 244.5]	9.625 [244.5]	43.5–53.5 [64.8–79.7]	7.000 [177.8]	29.0 [43.2]	8.325 [211.5]
7.625 × 9.625 [193.7 × 244.5]	9.625 [244.5]	47.0–53.5 [70.0–79.7]	7.625 [193.7]	29.7 [44.3]	8.450 [214.6]
9.625 × 11.750 [244.5 × 298.5]	11.750 [298.5]	60.0–66.7 [89.3–99.3]	9.625 [244.5]	47.0 [69.9]	10.472 [266.0]
9.625 × 13.375 [244.5 × 339.8]	13.375 [339.8]	48.0–98.0 [71.4–145.8]	9.625 [244.5]	47.0 [69.9]	11.715 [297.6]
11.750 × 13.375 [298.5 × 339.8] <sup>‡</sup>	13.375 [339.8]	68.0–72.0 [101.2–107.1]	11.750 [339.8]	60.0 [89.3]	12.144 [308.5]

<sup>†</sup>Other sizes available on request.

<sup>‡</sup>Nonrotating.