

MAXIMUS

Completion Systems



LINER HANGER SYSTEMS

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**MAGNUS DUAL CONE
HYDRAULIC LINER HANGER
WITH LTP**

LINER HANGER SYSTEMS TECHNICAL UNIT

Authored by: RAJAT

TECH UNIT No.	287
MODEL	MHLH-NR
DATE	08/01/2018
REV.	00

MAGNUS DUAL CONE HYDRAULIC LINER HANGER WITH LTP

Approved by: Jogendra Singh

DESCRIPTION :-

The Magnus Non-Rotating Hydraulic Set Liner Hanger Integrated Packer is available in most combinations of liner to casing sizes, materials and thread combinations. Hanger sizes and materials not shown in this technical unit can be furnished to fill specific requirements.

- Non-Rotating Hydraulic Set Liner Hanger
- Integrated Packer,

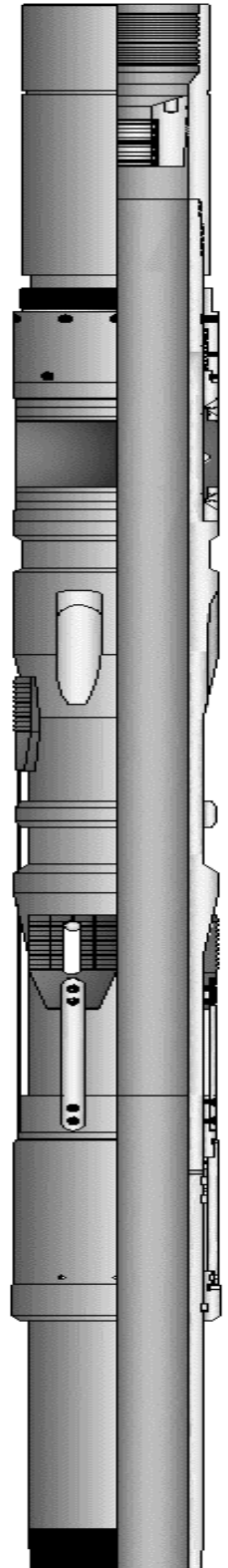
FEATURES :-

The Magnus Non-Rotating Hydraulic Set Liner Hanger Integrated Packer is set by hydraulic pressure within the running-in string; neither reciprocation nor rotation is required. The hanger has two staggered rows of slips, with three slip segments in each row. The staggered design provides large by-pass area for easy running and free circulation, and the large distributed slip contact area reduces stress in the supporting casing.

Integrated Packer is compression set that utilizes the High-Performance Packing Element design. The Packing element is actuated by applying set-down weight to the tieback extension via the setting dogs of the packer setting tool. The packing elements will Squeeze and seal off any extrusion gap, A body lock ring system holds a permanent set in the seal once actuated.

Drillable Pack Off Bushing (MDPOB) provides a method of sealing off the liner top to allow for cementing.

It has Teflon-TFE seals, moly-glass chevron seals, or O-ring seal to seal on the OD of a seal joint that is connected to the bottom of a running tool.



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BENEFITS :-

1. Body is manufactured from mechanical tubing to equivalent grade of liner 110,000 psi yield strengths is standard. Other yield strengths and materials available on request.
2. Hydraulic cylinder manufactured from material matching yield strength of liner Hanger.
3. Slips are manufactured to hardness of 57-64 Rockwell "C" scale for use in the highest-grade casing strings.
4. Double-cone type solid body construction with no welded parts and Non-rotational features of Hanger Body.
5. No pipe manipulation required to set hanger.
6. Hanger sets with applied hydraulic pressure.
7. Slips Protected- While running in, the hanger slips are mechanically contained under tool OD and protected in the Cone.
8. Premium Teflon seals for high temperature/pressure applications.
9. Large slip area supports long/heavy liner loads.
10. Large by-pass area for circulation and cementing.
11. The shear mechanism pretested for down hole reliability.
12. Integrated Packer assembly set by compression weight on tie-back sleeve.
13. Tieback 10', 12', 15' and 20' lengths standard and other lengths are available as required.
14. Suitable for Highly Deviated Wells (up to 80 degrees).
15. Seal System including packing element rated at 10,000 psi & 400°F.
16. Suitable For H2S Environment.
17. Available Sizes :- 3-1/2" TO 20".