

**MAXIMUS**

Completion Systems



**LINER HANGER SYSTEMS**

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**MAGNUS LONG SLIP  
HYDRAULIC LINER HANGER WITH LTP**

TECH UNIT No.	289
MODEL	MHLH-LTP
DATE	08/01/2018
REV.	00

## LINER HANGER SYSTEMS

### TECHNICAL UNIT

### MAGNUS LONG SLIP HYDRAULIC LINER HANGER WITH LTP

Authored by: RAJAT

Approved by: Jogendra Singh

#### DESCRIPTION :

Combines a high-performance packer and hydraulic-set hanger in a common body to provide long-term well integrity.

#### APPLICATIONS:

- All cemented and non-cemented liner operations

#### FEATURES, ADVANTAGES AND BENEFITS:

- Three-piece packing elements create a reliable seal that isolates gas migration in the cement below the packer from the annulus above, saving the cost of a liner-top squeeze.
- One-piece mandrel design eliminates internal connections and removes the risk of associated leaking connections, to improve production performance.
- Its high-torque mandrel accommodates premium connections that meet or exceed the torque of the liner connections, to aid in getting the liner to total depth (TD).
- Its large slip-contact area minimizes stress in the host casing, enabling the Liner hanger to support extreme loads from long liners and withstand hydraulic loads from fracking.
- Hold-down slips and an integral body lock-ring ratchet system positively lock in the applied setting forces, so that the packer remains set.
- Non-tortuous bypass channels allow for high circulation rates past the hanger assembly, to aid in removing debris and improving cement displacement.
- An optional heavy-duty bearing enables rotation of the liner after the hanger has been set and during cementing operations, to enhance the quality of the cement bond.



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#### FEATURES, ADVANTAGES AND BENEFITS:

- Key screws rotationally lock the hydraulic cylinder to the mandrel to prevent seal damage during rotation.
- A locking feature in the connector ring prevents liner hangers from setting while tripping in the wellbore, to get the liner to TD in harsh environments.
- Nitriding slips ensure that the liner hanger can be set in the hardest grades of host casing, to boost reliability.
- Premium-designed aluminum shear screws facilitate accurate, predetermined setting of pressures, enabling hydraulic events to be planned accurately and with a high degree of safety.
- The design and performance consistently meet or exceed new API 19LH standards. This system permitted no gas leakage to attain an API 19LH rating of VS1.