

# SAPSAN

## RUNNING TOOL

### DESCRIPTION

The Power Running Tool is a hydraulically actuated running and setting tool engineered for demanding liner installations requiring vigorous push, pull, drill-down, and drill-in operations. It is specifically designed to handle tension or compression loads when working liners to bottom in challenging well conditions.

The system is composed of two integrated components: the Power Section and the Running Tool. The Power Section relocates the hydraulic pistons—traditionally housed within the liner-top packer—into the running tool BHA, thereby eliminating potential leak paths and minimizing O-ring exposure within the liner hanger assembly. When pressure is applied, the differential acts on the internal piston, transferring the setting force directly into the liner-top packer to complete the setting operation.

The Running Tool is a robust collet-style design that includes both a primary hydraulic release and a secondary mechanical torque release, ensuring secure and reliable disengagement in all operational scenarios.

### FEATURES

- Designed for harsh well conditions to push, pull, and drill-down liners to bottom
- Adjustable hydraulic release pressure and mechanical release torque prior to deployment
- Power Section piston design eliminates the need for a hydraulic chamber in the liner hanger
- Simplified operation for efficient running and setting
- Capability to perform a pressure test after liner-top packer setting



LH Size  
in - [mm]Casing Size  
in - [mm]Upper Thread  
ConnectionLower Thread  
ConnectionMax RT OD  
in - [mm]Min ID  
in - [mm]

3,5 - [88,9]

5 - [127]

2-7/8" API IF

1.9" EUE

3,5 - [88,9]

0.5 - [12.7]

4 - [101,6]

5,5/5,75 - [139,7/146,1]

2-7/8" API IF

1.9" EUE

3.9 - [98,43]

0.75 - [19.05]

4,5/5 - [114,3/127]

7 - [177,8]

3-1/2" API IF

2-3/8" EUE

5,24 - [133,1]

1,125 - [28.58]

5,5 - [139,7]

7,625 - [193,7]

3-1/2" API IF

2-3/8" EUE

5,95 - [151,13]

1,25 - [31.75]

7 - [177,8]

9,625 - [244,5]

4-1/2" API IF

3-1/2" EUE

7,45 - [189,23]

1 - [25,4]

7,625 - [193,7]

9,625 - [244,5]

4-1/2" API IF

3-1/2" EUE

7,65 - [194,31]

1 - [25,4]

9,625 - [244,5]

13,375 - [339,7]

6-5/8" FH

4-1/2" EUE

10 - [254]

2.88 - [73.03]