

# SAPSAN

## RUNNING TOOL

### DESCRIPTION

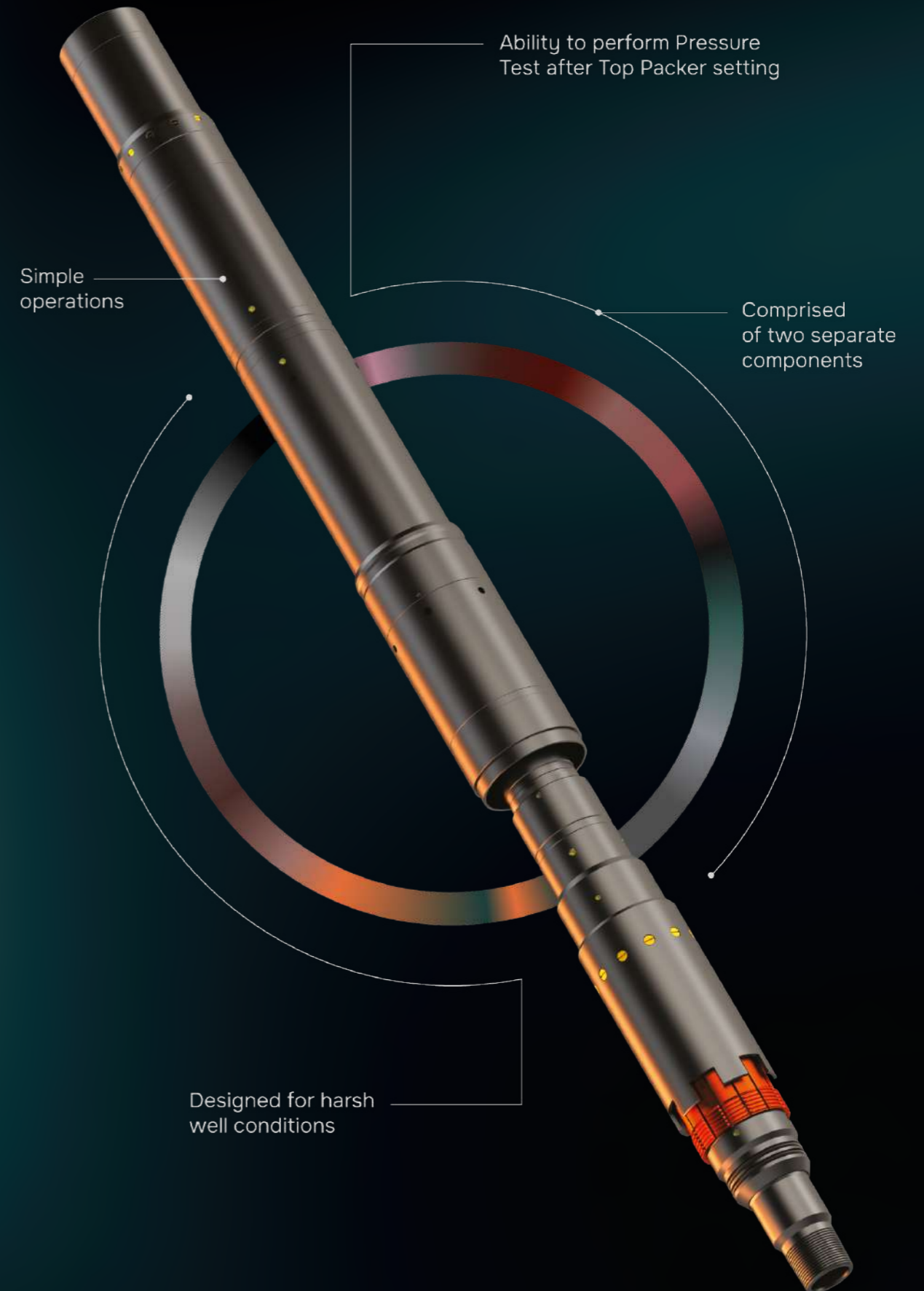
The Power Running Tool is a hydraulically actuated running and setting tool engineered for demanding liner installations requiring vigorous push, pull, drill-down, and drill-in operations. It is specifically designed to handle tension or compression loads when working liners to bottom in challenging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



<div>  SYMOIL </div>			SAPSAN RUNNING TOOL		
COMPLETION					
LH Size in – [mm]	Casing Size in – [mm]	Upper Thread Connection	Lower Thread Connection	Max 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]
SYMOIL PRODUCTS CATALOGUE					