

StringGuard™ Spider Load-Transfer Indicator

Reduces operational risk through an additional spider safety interlock system to prevent dropped casing and tubing strings

Applications

Hydraulically locks spider in the closed position until string weight is transferred to the elevator

Adapts to the following Weatherford and third-party spiders:

- Vario™ 350 tons
- FMS 375 flush-mounted spider
- FMS 275 flush-mounted spider
- RCS 500 rotary-mounted completion slips
- RMS 2000 rotary-mounted slips and elevator
- RMS 2400 rotary-mounted slips
- RMS 3000 rotary-mounted slips and elevator
- MSS 1500 multi-sized slips and elevator
- LSS 1250/1500 landing-strip slips

Features and Benefits

- Hydraulically locks spider in the closed position until string weight is transferred to the elevator
- Reduces risk by adding an additional layer of security to prevent dropped casing and tubing strings
- Adjusts to different surface conditions of the rig floor
- Performs independently of elevator type/function
- Eliminates reliance on procedures and human judgement

Tool Description

The Weatherford StringGuard spider load-transfer indicator can be adapted to the hydraulic spiders mentioned in the list above and provides an additional layer of security to prevent dropped casing and tubing strings. During tubular installation at the wellsite, after a joint or stand is made up at well center and the string weight is successfully transferred from the spider to the elevator (and the string is raised), spring-loaded sensors positioned at the bottom of the StringGuard indicator will indicate the elevator has successfully assumed the string weight and send a signal to the control system to open the spider. The indicator works in tandem with the existing Safety Interlock System to provide an additional layer of security.



The spring-loaded sensor is placed between the bottom of the StringGuard indicator and the rig floor to detect when the string weight has been successfully transferred to the elevator.



The StringGuard indicator can be easily adapted to existing designated spiders.

