Automated Sidedoor Elevator

The Weatherford hydraulically operated automated sidedoor (ASD) elevator quickly picks up large-OD casing and enables safe makeup of connections at a low height. The ASD elevator has several key features that enhance safety and operational efficiency in deepwater environments.

Applications

Used with the required bails, the ASD elevator picks up casing and handles loads of various sizes:

- 9 5/8- to 16-in. casing, 500-ton (453,592-kg) load rating
- 18 5/8- to 24-in. casing, 500-ton (453,592-kg) load rating
- 26- to 36-in. casing, 350-ton (317,515-kg) load rating

Features, Advantages, and Benefits

- The low-profile design reduces the connection height to eliminate scaffolding and the associated risks to personnel safety.
- The reduced height provides the driller a better view when stabbing joints at the rotary, which enhances safety and efficiency.
- Specially designed elevator ears enable the ASD elevator to fit and rotate easily when latching to casing in the horizontal position. This reduces cycle time and enhances rig-floor safety.
- Plug-and-play compatibility with the elevator-control-system interface enables remote hydraulic actuation, which improves cycle and run times.
- Remote operation and consistent positive latching enhance rig-floor safety and efficiency.
- The square shoulder design follows API-recommended tolerances, which enhances compatibility with standard casing connectors and some beveled connectors.
- The robust double-door and latch design provides 360° contact the casing connector without spreading the elevator body.
- Compatibility with the Weatherford integrated safety interlock system prevents simultaneous opening of the elevator and spider and the consequent risk of dropping a string.
- The ASD design enables fast rig up and minimal maintenance for greater time savings.
- The ASD complements the Weatherford Stabberless® remotely controlled pipe-alignment system to create a more efficient automated latching and stabbing process.

