

# Drilling Riser Elevator 500

Safely and efficiently runs flanged-connection drilling riser strings

## Applications

- Running flanged-connection drilling riser strings, including stress joints, riser joints with buoyancy cans, and riser joints with or without strakes and fairings

## Features and Benefits

- The drilling riser elevator (DRE) 500 has a 500-ton (453,592-kg) load rating and is compatible with bails rated to 500 or 750 tons (453,592 or 680,389 kg).
- Remote operation with the Weatherford integrated safety interlock system removes personnel from hazardous rig-floor areas.
- The locking pin cylinder provides positive secondary retention by locking the indexing dogs and prevents unexpected release of the dogs.
- The elevator tilting system enables lifting riser joints from the V-door or tubular feeding catwalk.
- The tilting arm provides angular movements that allow for adjusting the bails.
- The DRE 500 is manufactured under the ISO 9001 certified quality system according to API 8C specifications for quality assurance.
- The DRE 500 can be customized to fit different riser requirements, sizes, and applications.

## Tool Description

The Weatherford drilling riser elevator (DRE) 500 runs flanged-connection drilling riser strings. The DRE 500 handles riser-joint types including stress joints, riser joints with buoyancy cans, and riser joints with or without strakes and fairings. The DRE 500 is rated for 500-ton (453,592-kg) loads.

Hydraulic operation of the drilling riser-sliding table and elevator eliminates the time needed to manually bolt the standard lifting gear and, ultimately, reduces overall run times.

When used with the Weatherford integrated safety interlock system, the DRE 500 can be remotely operated to eliminate manual riser-running tasks and remove personnel from hazardous zones. The interlocking mechanics prevent the elevator and spider from opening in the event of hydraulic or pneumatic failure.



*The DRE 500 enhances safety and efficiency when running flanged riser connections.*

# Drilling Riser Elevator 500

## Specifications

Operating pressure	2,500 psi (17,237 kPa)
Target angle of tool	8° in respect to horizontal
Top-drive link tilting angle	33° from vertical
Tilting mechanism angle	49° in respect to bails
Flange OD*	39 in.
Sliding table assembly pass-through diameter	60 in.

\* The OD may vary based on client customization.



When used in conjunction with the DRE 500, the drilling riser table opens to the full size of the rotary table, which enables the riser and buoyancy cans to pass through the rotary table without restrictions.

