



# Weatherford®

## SafeGuard™ Single-Joint Elevator for Drillpipe



### Well construction

- Cementing products
- Cementing services
- Drilling fluids
- Drilling tools
- Inflatable packers
- Liner systems
- Mechanized rig systems
- **Tubular running services**
  - Bucking systems
  - Casing running & drilling systems
  - Handling tools
  - Monitoring & testing equipment
  - Pick-up & lay-down machines
  - Tongs

### The safer alternative

Make lifting drillpipe a safer, more efficient process with our innovative *SafeGuard* single-joint elevator for drillpipe



Drilling



Evaluation



Completion



Production



Intervention

## Answering the call for a safer single-joint elevator.

Weatherford's **SafeGuard™ single-joint elevator** is built to maximize safety and efficiency while lifting single joints of drillpipe. Industry statistics point to several risks in conventional single-joint elevators and lift operations including safety- and hinge-pin failures, which can result in dropped-object and near-miss incidents. Leveraging our extensive tubular-running experience, we designed the *SafeGuard* single-joint elevator to overcome these shortcomings.

**Key design features.** Manufactured to API 8C specifications, the *SafeGuard* single-joint elevator is equipped with multiple performance-enhancing features.

**Dual locking pins.** The placement of locking pins on each side of the elevator allows operators to unlatch horizontal pipe from its topside, enhancing safety. Additionally, the double-hinged design of the locking pins makes installation and removal of joints easier and safer.

**Locking-pin retention system** ensures that the locking pins cannot be fully removed from the elevator. A small insert prevents the pins from being fully withdrawn. In addition to minimizing the risk of dropping objects, this simple innovation enhances operational safety and efficiency by eliminating the need for secondary retention devices, such as chains and wires, which can cause injury to wellsite personnel.



**Positive-latch indicator.** A button on top of the locking-pin mechanism confirms that the pins are in the *locked* position, reducing the risk of accidental drops.

**Tapered contact shoulder.** The elevator's 18- or 12-degree tapered shoulders optimize alignment while lifting standard drillpipe or tubing, which in turn enhances operational safety.

**Overtly displayed size.** The elevator's size is hard-stamped on the tool body, which facilitates identification, consequently reducing the risk of errors that may result in dropped objects.

**No inserts.** The absence of variable-sized block inserts, common in conventional single-joint elevators, eliminates the possibility of lifting with incorrectly sized inserts, thereby minimizing the associated safety hazard of dropping objects.

### Typical Causes of Conventional Single-Joint Elevator Failures

- Block-pin failure
- Broken slings
- Hinge-pin failure
- Improper latching
- Incorrect block size
- Safety-pin failure
- Tool-joint wear





## Meeting your equipment needs the world over.

One of the world's largest casing/tubing running companies, Weatherford offers an extensive selection of advanced tubular-running equipment to enhance the safety and efficiency of your drilling operations, including our *SafeGuard* single-joint elevator for drillpipe, as well as *SafeGuard* single-joint elevators for casing and tubing. Our portfolio of drilling tools—available for rent or purchase—also includes pressure-control, torque-and-drag-reduction, and blowout-prevention equipment; as well as drillpipe. With more than 800 facilities in approximately 100 countries, we are well positioned to get you what you need, when you need it, no matter where you're operating.

### Minimizing dropped object incidents in the North Sea.

The development of our innovative *SafeGuard* single-joint elevator is closely tied to a client request. In recent years, several single-joint elevator failures resulted in dropped objects, near-miss, and lost-time accidents. Recognizing the need to improve safe operating procedures, BP sought Weatherford's assistance in designing a safer elevator. Pursuant to that effort, BP conducted a study of 30 similar incidents, revealing multiple limitations of the single-pin type elevator. Using data acquired from the study and our extensive tubular running experience, we designed, tested and delivered the *SafeGuard* single-joint elevator for drillpipe that addressed the root cause of those incidents. Now available for worldwide deployment, the elevator is currently being used on BP operations in the North Sea and other regions, and we are deploying it on our own rigs and decommissioning platforms.



Weatherford UK was awarded the IADC North Sea Chapter Safety Award for its *SafeGuard* single-joint elevator.



Size (in.)	Tubing/ Drillpipe	Part Number	Contact Shoulder	Load Rating (ton/kg)	Weight (lb/kg)	
3-1/2 UIJC	Tubing	1227212	12°	5 5,080	32.2 14.6	
3-1/2 EU	Drillpipe	1204918	18°		31 14.1	
4 IU		1204919			32.1 14.6	
4 EU		1250108			33.7 15.3	
4-1/2 IU					1204920	35.5 16.1
4-1/2 IEU		1203868				36.5 16.6
4-1/2 EU						1204921
5 IEU		1204922				
5-1/2 IEU						
5-7/8 IEU						
6-5/8 IEU						

Weatherford provides worldwide service and support from approximately 800 locations in more than 100 countries. To learn how our *SafeGuard* single-joint elevator can make lifting drillpipe a safer, more efficient process, contact an authorized Weatherford representative at [SSJE@weatherford.com](mailto:SSJE@weatherford.com), or visit [weatherford.com/ssje](http://weatherford.com/ssje).

