

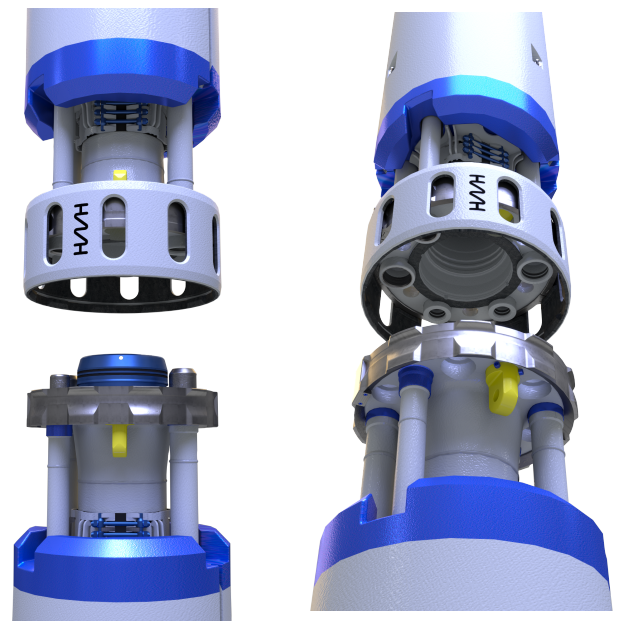
Quick-Turn Riser Connector

A Next-Generation Riser Connection System. Converts traditional bolted flanges with a fast, robust, and automation-friendly locking-ring design—engineered to improve safety, reduce downtime, and simplify riser handling operations.

Product Description

The Quick-Turn Riser Connector is designed to eliminate bolted flanged riser connections, converting them with a quick-turn lock-ring system that significantly speeds up riser makeup/breakout while improving safety and reliability. The system removes the need for bolt handling, pre-tensioning, and inspection, replacing a sensitive multi-bolt interface with a single robust mechanical lock-ring system.

The concept is supported by a multi-step load-ring + lock-ring system. The Quick-Turn Riser Connector is a major improvement over bolted riser systems, bringing advantages in **speed, robustness, automation, safety, and lifecycle cost.**



Benefits

- **Faster Operations** — Speeds up running and pulling of the BOP/riser. Enhances equipment longevity with rugged design and premium components
- **Improved Safety** — Reduces personnel and tools required on the red zone.
- **Higher Reliability** — Eliminates bolts, removing uncertainty related to improper make-up and component inspection.
- **Simpler Automation** — Uses a single rotational motion that is easy for machines to execute.
- **Lower Maintenance Cost** — Removes the need for bolt inspections and bolt-makeup tooling.
- **Reduced Rig Downtime and Operating Cost** — Speeds up riser and BOP handling, which minimizes delays and saves rig days.

Key Features

- **Lock-Ring Connection System** — Uses a rotating lock ring that engages load lugs to secure the riser connection.
- **Interlocking Load Rings** — Each flange receives a bolted-on load ring that mechanically interfaces to transfer load.
- **Indexed Lock Position** — A set screw and indexing pin ensure the lock ring lands and stays in the correct rotational position.
- **Two Design Paths** — Available as a connector-modification version or a reversible bolt-on design.
- **Reversible Bolt-On Option** — Installs without altering the original riser connector.
- **API-Driven Geometry Requirements** — Designed to maintain riser load rating and meet OD limitations for rig-floor clearance.
- **Universal Retrofit Capability** — Fits a wide range of risers without requiring any riser modification

