

We elevate our clients' integrity management **PERFORMANCE**By combining cutting-edge containment **TECHNOLOGIES**With engineering and operational **KNOW-HOW** 

# BoltEx Flange Clamp

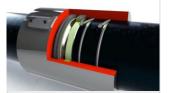


Safe online bolt replacement

Flange reinforcement

No damage to flange gasket

# SRJ Weld-free Pipe Coupling



Weld-free pipe connection

Spool tie-in or replacement

**Multiple configurations** 

#### Multi-Shell Repair Clamp



Emergency pipe repair

**Proactive application** 

Reusable and compact to store

## **Bespoke Solutions**



Enclosure repair units

Composite wrap solutions

Elbows, tees, flanges, nozzles & valves

## **BoltEx – Flange Clamp**

- Designed to ASME PCC-2, ASME VIII, and ASME B16.5
- Enables safe bolt replacement during normal operations
- · Ensures flange integrity until the next shutdown opportunity
- Validated by FEA to perform at 1.5 times rated line pressure with all flange bolts removed

#### INDUSTRY CHALLENGES

- Corrosion of piping systems
- Flange and weld failures
- Safety risks
- Costly repair works
- Shutdowns Penalties
- Loss of containment Loss of production



### **BoltEx – Flange Clamp**

#### **IMMEDIATE INTERVENTION**

Corroded bolts replaced immediately in accordance with ASME PCC-2 (Hot Bolting)

#### **EXTENDED FLANGE LIFETIME**

BoltEx can be left installed as a preventative measure on defected flanges with bolts that are impossible to retrieve/replace





#### **BENEFITS**

#### Quick and safe to install

- + 1-2 installers
- + Available at short notice
- + Optimised weight for ease of use
- + No damage or disturbance to gasket

#### Compact and reusable

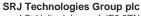
- Countersunk bolts in one side for limited access applications
- + Open design allows access to the nut splitter for removing corroded flange bolts
- Designed for fast and efficient installation and handling
- + Easy to remove and reinstall multiple times
- + Space-efficient storage and transportation

#### **Cost effective**

- + Eliminates the need for plant shutdown
- + Extends asset lifetime and reduces maintenance costs

#### **Innovative Gasket Protection System (GPS)**

- + GPS prevents over-compression or release of sealing pressure of flange gasket
- BoltEx bolts are pre-loaded against the GPS with an equal tension to the flange bolts; compression load on the gasket is therefore maintained as the flange bolts are removed
- In the case of bolt failure BoltEx will safely take the load preserving joint integrity



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