

TECHNICAL BOLTING & JOINT INTEGRITY

Gemstone delivers PCC-1-aligned technical bolting services focused on seal performance, certified execution, and digital traceability, going beyond basic torque and tension to support safer start-ups and emissions reduction.

TECHNICAL BOLTING CAPABILITIES

- Controlled bolting: calibrated torque, hydraulic tensioning, hot bolting
- Stud replacement, nut splitting, and stud removal
- Ultrasonic bolt-load verification and torque correlation
- Flange management, gasket support, and bolt-load calculations
- On-site machining and flange facing when required

WHY GEMSTONE

Gemstone applies a tightness-based, PCC-1-aligned approach to technical bolting, led by qualified SMEs and supported by advanced torque, tensioning, and ultrasonic verification methods. Digital flange management ensures full traceability, while an emissions-focused mindset delivers reliable, leak-free performance at critical pressure boundaries.

PROGRAM PRINCIPLE

Treat Every Flange Like a Weld.

Qualified personnel, engineered procedures, verified loads and traceable records for every joint.

THE GEMSTONE DIFFERENCE

- Full joint integrity lifecycle under one program
- Turnaround-ready bolting and machining capabilities
- PCC-1 qualifications with powered equipment and heat exchanger endorsements

