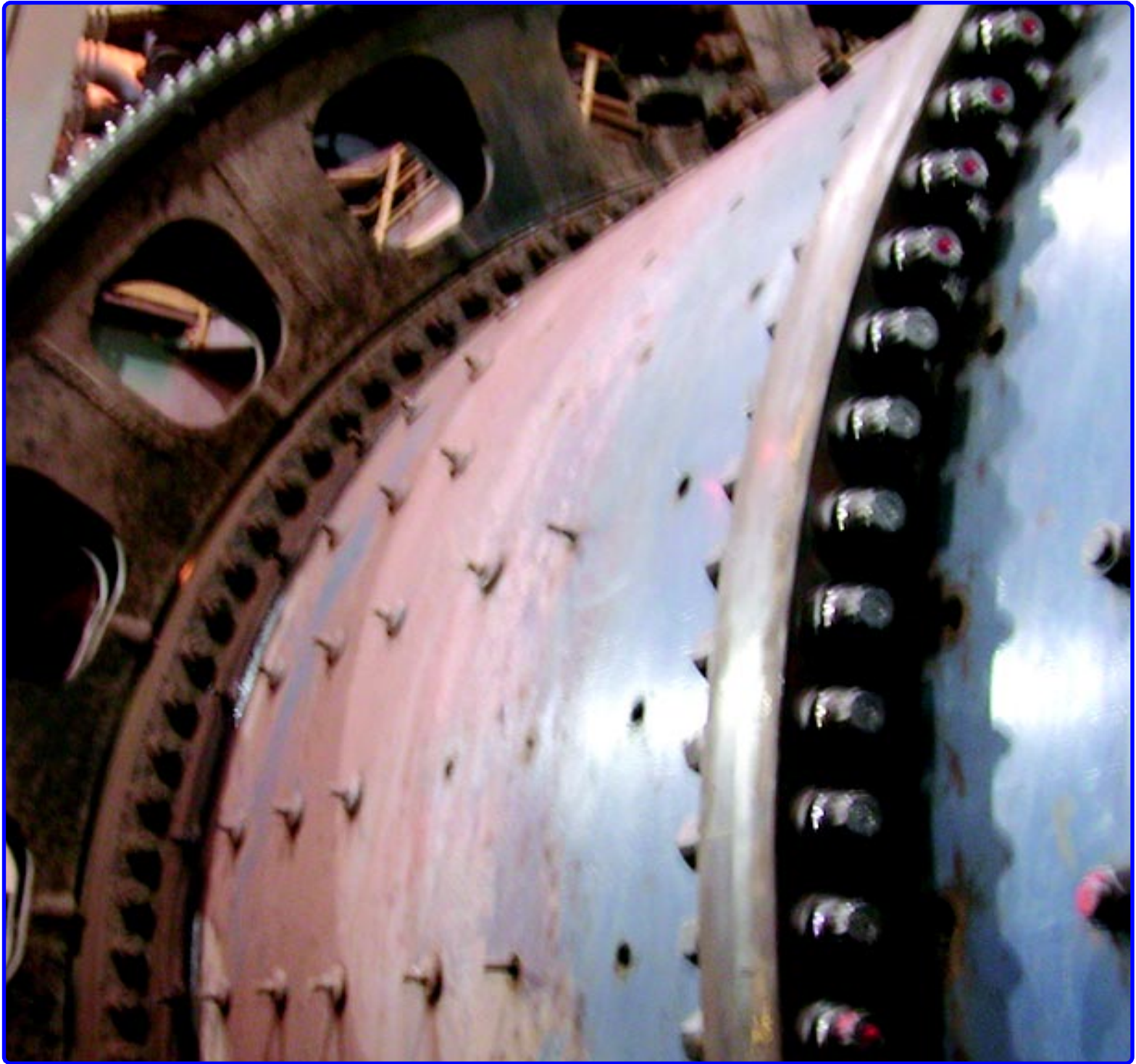


CALL US TO
INCREASE MILL UPTIME



WE HAVE THE SOLUTION TO:

- Bolts Loosening
- Bolts Breaking
- Slurry Leakage
- Flange Replacement

VALLEY FORGE & BOLT MANUFACTURING CO.

Phone: (602) 269-5748 Fax: (602) 269-7851 Email: sales@vfbolts.com

Bolts Loosening



Standard liner bolts when installed causes all the pressure to be absorbed by only two points of contacts. With this extreme condition, a liner bolt will yield very quickly causing premature loosening of the nut or bolt breakage requiring a shut down of the equipment for replacement or tightening to prevent damage.



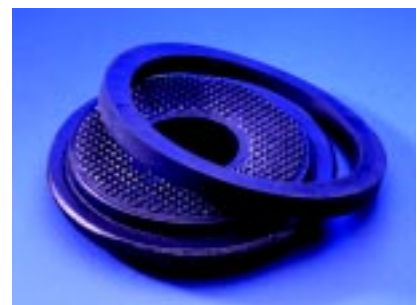
Our Ridgeback™ Liner bolt is manufactured with ridges along the tapered bearing face of the bolt. These ridges are designed to plastically deform during installation while tightening and assume the shape of the tapered liner seat to support maximum load. With a completely secure joint the probability of bolts coming loose or breaking is significantly reduced.

Slurry Leaking



2 Piece Sealing System

WASHER SOLUTIONS



Pitbull™ Washer

Our forged 2 Piece Sealing System used in conjunction with the Ridgeback™ bolt provides a solid leak proof joint and will solve any leakage problem that exists. For oversized holes use our Pitbull™ sealer in conjunction with our 2 Piece Sealing System. Maintenance downtime is drastically reduced or eliminated and dollars saved.

Bolts Breaking - Shell Replacement



SOLUTION! INSTALLATION OF SPC4™ BOLTS

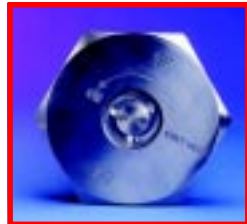
Maxbolt™ & SPC4™ Load indicating bolts are the perfect solution to trouble free Flanges. The SPC4™ load indicator was used in this application to control clamp load and resolve major problem with bolt breakage and slurry leakage. Checking time on bolts was reduced from 12 hours to three hours. The Maxbolt™ has also been used in similar applications depending on customer preference.

An installation of 2 ball mills and 1 Sag mill completed by a major Corporation attributed 14 days of installation time saved to using our SPC4™ technology. If your flange bolts need replacement, consider using this technology for a quick and accurate installation while reducing and simplifying maintenance.

Call us at 602-269-5748 x 226 for further information



MAXBOLT™



SPC4™



Verifying Clampload during Tightening



Maxbolt™ in Diaphragm pump

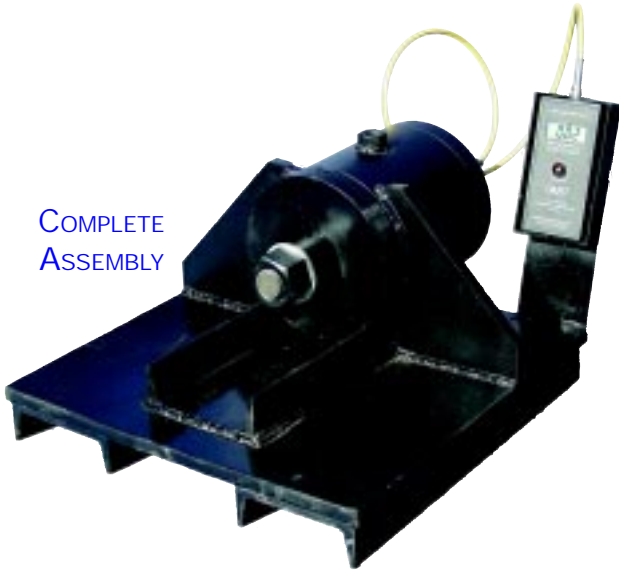
Advantages of Using Load Indicating Fasteners:

- Accurate Joint Assembly
- Tighten to +/- 5% of the True Clamp Load
- Any Tightening Tool can be Used
- Reduces Inspection Time
- Prevents Expensive Downtime
- Eliminate the Mystery of Torque Tightening

CLARKSTER™ HEAVY-DUTY TORQUE-TENSION TESTER

The Clarkster™ Heavy-Duty Torque Tension Tester is used to insure proper Torque-Tension relationship on standard fasteners during installation. Correct tension values are measured by the SPC4™ Load indicating fastener which is incorporated into the Clarkster™. The Clarkster™ achieves accurate in field torque values vs. calculated values that can have as much as a 30-50% error.

COMPLETE
ASSEMBLY



Optional Interchangeable Load Plates

For Liner Bolts

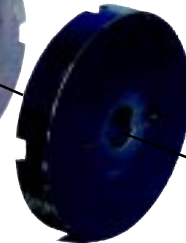
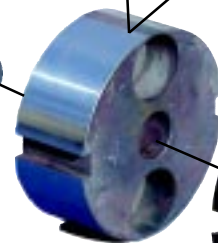
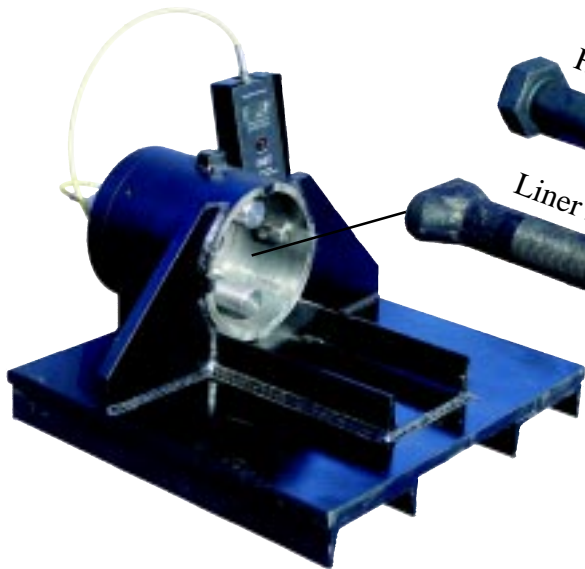
For Hex Bolts



Liner Bolt



Once the assembly is together, use your tightening tool to establish how much torque is required to reach your target clampload that can be read off the digital display.



Tightening Tool

FEATURES

- Interchangeable load plates for various head configurations, including hex head, square head and mill liner bolts
- New and replacement parts supplied overnight
- Dependable trouble-free operation without oil and pressure gages
- Eliminates inaccuracies of out-of-calibration pressure gages
- No reaction pins to shear
- Easy and quick calibration of load cell using SPC4™ technology



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