

Product datasheet

EXCEL™ Ultrabolt

Jack bolt tensioning system

Our patented design locking bolts ensure precise, uniform preload and eliminate the need for a torch ring. Our engineering group has created a solution that makes your liner changes faster, easier and safer. The unique design protects the threads of the locking bolt and head.

Innovative design

- Rebuildable with EXCEL™ replacement components
- AR400 sleeve protects the UltraBolt from wear
- Silicone seal protects head threads from dust
- Precision preload

Benefits

- Cost effective
- Extended life
- Quick and safe mantle maintenance
- Easier assembly and disassembly
- Eliminates the need for a torch ring
- Eliminates dangerous slug wrench

Safety you deserve at every liner replacement

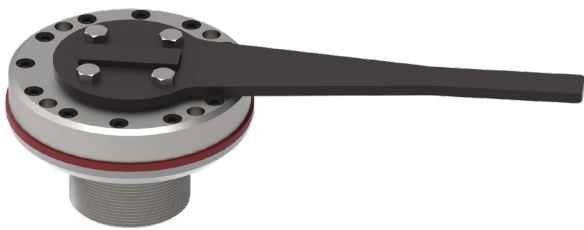
Problems with traditional design

The traditional jack bolt tensoning design is hazardous every time maintenance is required. During removal and installation, it requires people to swing a weighted object against a slug wrench, which can lead to injuries. It also involves a consumable torch ring that must be cut to remove it, typically while the ring is under compression.

Upgrade Solution

Our UltraBolt™ design makes your safety a priority. We have eliminated the need for a slug wrench by instead using a uniform preload system of bolts to tighten the jacking bolt.

Torch rings are a thing of the past with the UltraBolt. Our design uses a unique thrust plate that is not consumed during installation. The thrust plate protects the bolt from impact to ensure a long lasting product designed to save you money in the long run with minimal spares needed for a liner change.

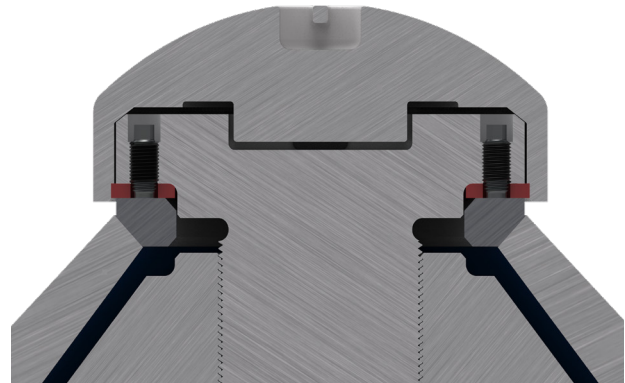


UltraBolt wrench used to lower locking bolt before tightening the jack bolts

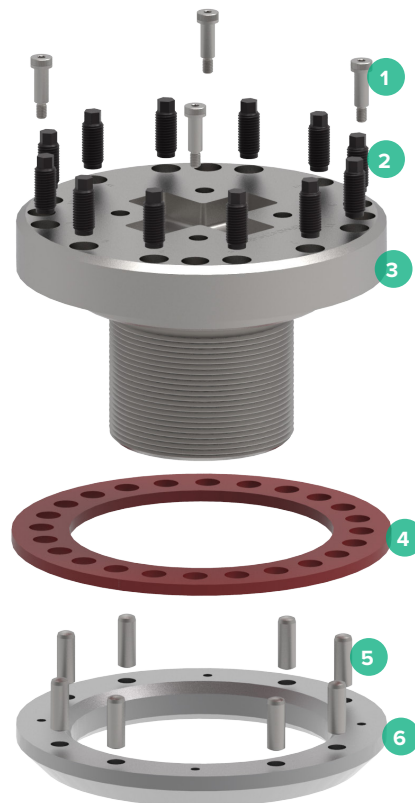
Quality redefined

We know that your success depends on reliable, high quality tools and components. We design our UltraBolt - jack bolt tensoning system for OEM gyratory and cone crushers with the same dedication and commitment to quality as we do for our own crusher tools.

Trust our expertise and strict standards in metallurgy and machining process. Our rigorous quality assurance protocols ensure that you get the dependability you deserve. We are ISO 9001 certified.



Section view of complete UltraBolt™ assembly with feed plate



- | | |
|------------------|------------------|
| 1. Shoulder bolt | 4. Silicone seal |
| 2. Jack bolt | 5. Dowel pin |
| 3. Locking bolt | 6. Thrust plate |

FLSmidth A/S
2500 Valby
Denmark
Tel. +45 3618 1000
info@flsmidth.com

www.flsmidth.com

FLSmidth Inc.
Salt Lake City Operations
Midvale, UT 84047
USA
Tel. +1 801 871 7000
info.sl.c@flsmidth.com

Copyright © 2023 FLSmidth A/S. All Rights Reserved. FLSmidth and FLS are (registered) trademarks of FLSmidth A/S. This brochure makes no offers, representations or warranties (express or implied), and information and data contained in this brochure are for general reference only and may change at any time.