



## Technical Capabilities

**Polycorp designs and manufactures the highest quality Mill Liners, and Discharge Systems.**

**Polycorp Mining fully supports all of its products, both before, and after installation in the field. Polycorp engineering can help assess your needs, and provide solutions which are custom designed to your specific application conditions. Once installed, Polycorp offers superior after sales Technical Support to help ensure that you are getting the most from your Mill operations.**

### Polycorp offers the following technical services:

- Design optimization to maximize production throughput, grind efficiency and service life. Analyses include:
  - Mill Charge Simulation - A dynamic media charge study to model/estimate power draw and evaluate charge motion inside the mill.
  - Pulp Lifter Slurry Flow Simulation - Computational Fluid Dynamics analysis to improve slurry flow.
  - 3D Modeling Design Capabilities - 3D modeling to check the design and fit of components before they go into production and into the mill.
- Power calculations to optimize power draw for maximum throughput.
- Crash Stop study to gauge Pulp Lifter performance
- Installation assistance
- Maintenance program consultation
- Mill operation consultation
- Wear monitoring to aid in liner service life prediction and continuous improvement

The main element of the Polycorp value proposition is technical leadership in material development, product design, product optimization, and system performance.

### Process Review

- Study of slurry flow from SAG/AG mills for slurry pooling or slurry flow back issues for Mill throughput improvement.
- Study of slurry flow through grates to improve the grate wear life.
- Study of the material trajectories to determine charge motion inside the Mill to improve material grind quality, liner life, and throughput.

### Product Design

- Study of existing mill liner designs to overcome liner issues, for both rubber and steel lined mills, to improve mill availability and mill throughput.
- Study of slurry flow from SAG/AG mills to reduce pulp lifter and grate wear.
- Power calculations for maximum power draw for Ball Mill Liners for maximum throughput.

### Installation and After Sales Support

- Polycorp has trained professionals to provide supervision of Mill Liner installation.
- Polycorp has trained professionals who can study your existing Mill Liner issues and offer solutions for efficient Mill operation.
- Polycorp regularly monitors mill liner wear by measuring worn liners to plan shut downs for liner change.

