Excel Premium Components

GP Series® Cone Crushers

G8™ | G11™ | G12™ | G15™ | GP100™ | GP200™
GP300™ | GP500™ | GP550™
Excel Bronze Bushings... Simply the Best!

Excel's castering processes start with the highest quality steel forgings. Our gear “gasher” mill at the beginning of the process and the gear checking center at the end of the process help ensure that Excel delivers high quality gears and pinions efficiently and consistently.

- **Higher Tensile Strength**
  - Metallurgical Consistency Yields High-Strength Components
  - In order to maximize tensile strength, Excel certifies our crusher bronze to the top end of the CDA specification for tin. Tougher bushings mean less down-time and fewer replacement cycles. Tin is the most expensive ingredient in the metallurgy of crusher bronze alloys.

- **Uniform Lead Dispersion**
  - Unique Chilling Process Stops Migration
  - Our foundry utilizes a unique chilling process that assures even dispersion of lead throughout the casting. Standard foundry molding techniques allow uneven, non-directional cooling that can cause lead migration. Even dispersion of lead provides consistent lubricity and heat dissipation which increase bushing life and reduce unexpected failures.

- **Optimum Concentricity**
  - Simultaneous “4-Axis” Turning Ensures Concentricity
  - Extensive investment in our equipment, our people, and our process gives Excel many unique capabilities, including a special “pinch turning” method in the machining of our crusher bushings which simultaneously cuts the OD and ID. Using this technology guarantees absolute concentricity.

- **Porosity-Free/ Uniform Grain Structure**
  - Centrifugal Casting Technique Ensures Alloy Integrity
  - The purity of our raw materials, coupled with controlled, directional solidification during the casting process creates a tighter, denser grain structure in our alloys while eliminating 99.9% of the gas pockets that produce porosity. The integrity of Excel’s grain structure ensure strong, long lasting replacement parts.

Excel Gears and Pinions

Excel Uses the Latest Technology

From straight bevel teeth to spiral bevel teeth, Excel offers direct replacement gearing that exceeds OEM quality, starting with the highest quality steel forgings. Our gear “gasher” mill at the beginning of the process and the gear checking center at the end of the process help ensure that Excel delivers high quality gears and pinions efficiently and consistently.

- **It’s All About the Contact Pattern**
  - The contact pattern is the single most important factor to control when manufacturing crusher gears. Without good tooth-to-tooth contact, the load transfer can point-load the tooth face and result in premature or uneven wear or tooth breakage. Poor contact also creates excessive noise. The load must be distributed properly on the tooth face, and Excel rigorously assures this condition is met through contact-testing with our master gears.

- **Master Gears and Bluing Process**
  - We ensure field performance and wear life when it comes to gear manufacturing by retaining a high quality set of “master gears” to be used in the production process. Each gear or pinion made is contact-tested against our master and must meet the precise specifications of the gear’s contact criteria. Simply put, the benefit to our customer is consistency.
Dedicated to Outstanding Customer Support

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For emergency after-hours support, call +1.309.202.8300 to speak to an Excel Professional at any time.