

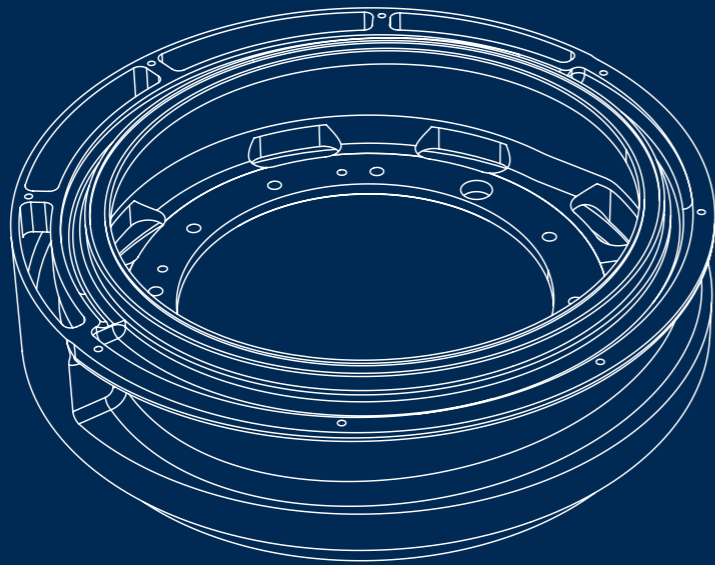
# EXCEL™ Replacement parts for Cone and Gyratory Crushers



**FLS**

# Longer wear life for your crusher's parts

Enjoy better throughput and longer duration between maintenance and repair downtimes. Optimised EXCEL™ replacement parts cover a wide range of cone and gyratory crushers and will help ensure that you get the most out of your vital crushing equipment. Our engineering and technical experts work directly with you to find innovative solutions to your problems – developing customised solutions for lasting performance in your critical equipment.



## Key benefits

- Reduced downtime
- Lower operating costs
- Improved performance
- Mine-specific design innovations

# Extraordinary components do not happen by accident

EXCEL™ bronze bushings and components perform better because our standards are higher.

## Higher tensile strength

Tin is the most expensive ingredient in the metallurgy of bronze alloys, but it creates tougher bushings that last longer. We use the maximum percentage of tin to increase your profits. We certify our crusher bronze to the top end of the CDA specification for tin.

## Uniform lead distribution

During casting, we use an innovative technique that distributes lead and other alloy grains uniformly. We then use a unique chilling process that ensures the uniform distribution is locked in. Our dedication to lead distribution means that when you use EXCEL™ cast alloys, there is less friction and more defense against heat build-up. In short, our bushings and other cast parts last longer and have fewer problems.

## Optimum concentricity

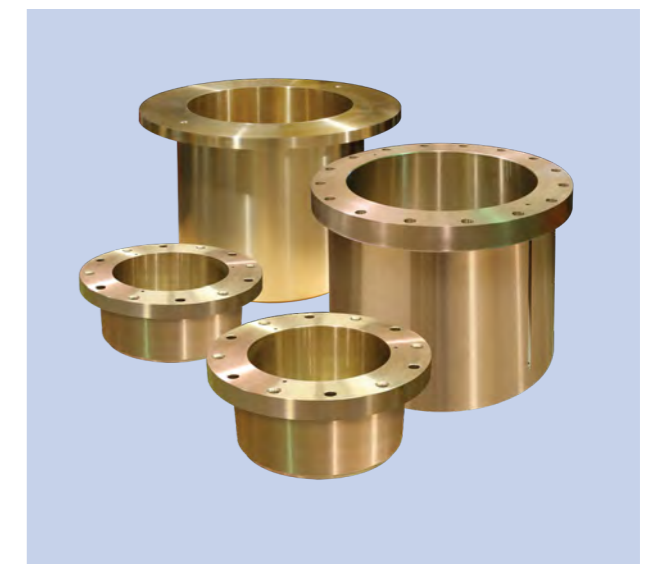
Our competitors are content with bushings that are close enough to concentric. We create perfectly concentric bushings using a unique pinch turning method during machining and cut the inside and outside diameters simultaneously. This process guarantees that your bushings are concentric with no weak spots or deformities and lowers the risk of hot spots.

## Porosity-free/uniform grain structure

We begin preparing for casting by selecting the highest grade pure raw materials. The unique centrifugal casting technique that we use produces a tighter, denser grain structure in the alloy and eliminates nearly all gas pockets. What does this mean to you? The cast alloys you buy from us last longer and have significantly fewer defects.



Standard bronze pour from furnace to ladle in our foundry for EXCEL™ parts, located in Pekin, Illinois, USA



XL40 bronze components

# Our products will have your machinery operating like new or even better!



MP® cone crushers



Allis-Chalmers® cone crushers



HP® cone crushers



Symons® cone crushers



Omnicone® cone crushers



Sandvik® cone crushers



Telsmith® cone crushers



Gyrotory crusher brands we support:

- Allis-Chalmers®
- Thyssenkrupp®
- Svedala®
- Sandvik®
- Nordberg®
- Metso®

## Component assemblies produced for each brand of cone and gyrotory crushers

- Adjustment ring
- Arm liners
- Bottom shell
- Bowl
- Countershaft
- Eccentric
- Feed plate
- Head
- Hydraulic
- Hydroset
- Liner
- Main frame
- Main shaft
- Pinionshaft box
- Socket
- Spider
- Step plate
- Top shell

All brand names, model names or marks are owned by their respective manufacturers. FLSmidth/FLS has no affiliation with the original equipment manufacturer. These terms are used for identification purposes only and are not intended to indicate affiliation with or approval by the OEM. All parts are manufactured by, for and warranted by FLSmidth and are not manufactured by, purchased from or warranted by the original equipment manufacturer.

# We provide top-quality, reliable replacement parts

Don't accept anything less than the high quality that we provide.



## Quality redefined

We know that your success depends on our quality control so we dedicate more time and people to our inspections than any of our competitors. From our strict metallurgical standards and precision machining processes to our exacting inspections, our quality assurance protocols align our processes to produce quality and dependable results. We are ISO 9001 certified, and our program is managed here along with our traceability and record retention. Our procedures allow us to trace any part that we produce, even years later. For each part, we can confirm any possible production details that are needed.

## High-value spare part solutions to repair and optimise your cone crushers

Our top-quality, reliable spare parts won't break the bank. Our spare parts offer durability and dependability, along with top value.

## Consistent and reliable precision gears

The contact pattern is the most important feature of crusher gears and pinions. Our manufacturing expertise and attention to quality creates gears with better field performance and longer wear life. We keep a high-quality set of master gears, and every gear and pinion that we produce is contact-tested against the master. No gear leaves our foundry unless it meets our exacting contact specifications.

## Enhanced performance

Let your part replacement improve your existing aggregate or rock crusher by using our high quality EXCEL™ replacement parts. Our parts provide better, more efficient performance to keep your business going strong.



"Our customers need replacement parts that operate in harsh environments. For this reason, we demand metallurgically sound castings produced through the careful control of chemistry and processing parameters for our replacement parts. Our promise is to provide our customers with the highest quality components."

**MIKE BERGERHOUSE**  
Senior Metallurgical Engineer  
FLSmidth Inc. - Pekin Operations

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