EXCEL™
HIGH PERFORMANCE PARTS

Cone Crusher and Gyratory Crusher
Replacement wear parts
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

Higher tensile strength
In order to maximise tensile strength, we certify our crusher bronze to the top end of the CDA specification for tin. While tin is the most expensive ingredient in the metallurgy of crusher bronze alloys, we know that tougher bushings mean less downtime and fewer replacement cycles.

Uniform lead dispersion
Our foundry utilises a unique chilling process that assures even dispersion of lead throughout the casting. Standard foundries, with less exacting moulding techniques, allow uneven, non-directional cooling that can cause lead migration. Our dedication to even lead dispersion provides consistent lubricity and heat dissipation, which increases bushing life and reduces unexpected failures.

Optimum concentricity
Extensive investment in our equipment, our people, and our process provides us with 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
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-produced grain structure ensures strong, long-lasting replacement parts.

Excel bronze bushings and component assemblies are poured to a higher standard for exceptional performance.

Niche specialists with superior production expertise
Quality and innovation for a full range of cone crushers

Cone and gyratory crusher parts engineered for excellence

Quality redefined
We know our parts are used in mission-critical equipment, and your success depends on our quality control. From our strict metallurgical standards in our foundry to our precision turning and machining processes – all the way through to our inspection department – our staff of skilled craftsmen strive to make every part perfect in every way. As a result of more than 80 years of experience in developing and manufacturing parts, we have determined there are three critical components that ensure you receive a quality spare part: fit, form and function.

Symons® cone crushers
Sandvik® cone crushers
Allis-Chalmers® cone crushers
GP® cone crushers

HP® cone crushers
Omnicone® cone crushers

Telsmith® cone crushers
Gyratory crushers

Component assemblies produced for each brand of cone and gyratory crusher

- Adjustment ring
- Bottom shell
- Bowl
- Countershaft
- Eccentric
- Feed plate
- Head
- Hydraulic
- Liner hardware
- 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 uses its affiliation with the original equipment manufacturer (OEM) for identification purposes only and no intention 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.

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Innovating across industries; offering you world-class products

We are continually innovating and improving our technology to provide the best solutions for quality optimisation. For example, our gear bluing process ensures Excel gears are manufactured to a level above the OEM.

Consistency and reliability
The contact pattern is the single most important factor to control when manufacturing crusher gears. 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 the master, and it must meet the precise specifications of the gear’s contact criteria.

Multiple gear and pinion designs available:
- Straight tooth
- Skew tooth
- Spiral tooth
- Coniflex tooth

Quality redefined
Simply put, the benefit to our customer is consistency and reliability in a wear part that is less expensive than the OEM, manufactured to the highest quality standards in the industry.

We strive to deliver a higher level of service and support
We offer world-class sales and engineering teams to help support your operation in the field.

Learn from our experts
Subscribe to our Discover Mining magazine on www.flsmidth.com

Excel’s attention to quality exceeds industry standards
From machining to final inspection, quality is our main goal.

www.flsmidth.com

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Bringing better solutions to light

in the cement and mining industries

The future is full of possibilities and you are leading the way. But it's never a straight journey and it's easy to lose sight of true potential. With an ally by your side, who shares your ambitions and who sees the world from different angles, we can find the right way together.

For more than 135 years, we have challenged conventions and explored opportunities. Across more than 50 countries, we are 12,000 employees who combine our unique process-knowledge on projects, products and services to drive success. We develop the most advanced technology in our industries and offer market-leading product and service ranges.

Rooted in a culture of honesty, trust and transparency, we activate our knowledge and experience to navigate your complexity and bring better solutions to light. So no matter where in the world you are, we are here to help you discover new ground and achieve sustainable productivity enhancement.

We are the market-leading supplier of engineering, equipment and service solutions to customers in the global mining and cement industries.

We discover potential.