

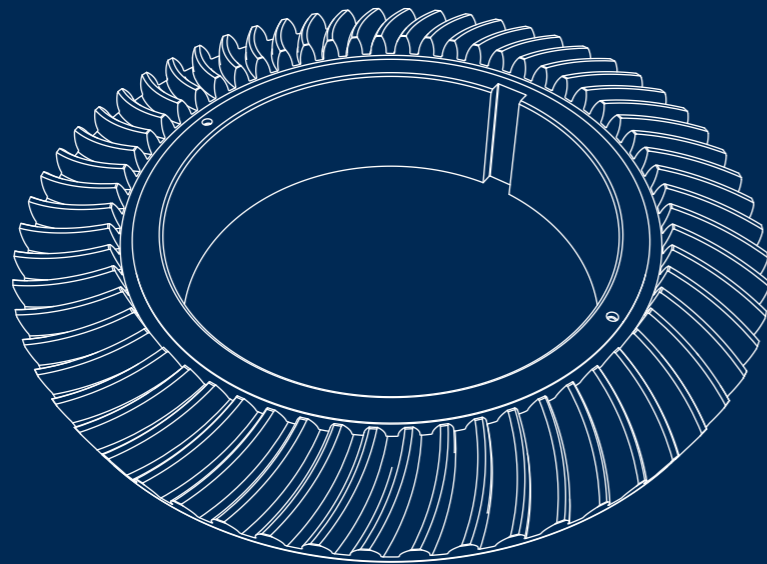
EXCEL™ Replacement parts for Allis-Chalmers® and Svedala® Hydrocone®



FLS

Get superior quality and innovation with the customer support you deserve

We designed our spare parts to get your equipment running as quickly as possible and keep it running longer. EXCEL™ spare parts are the solution you need for optimal function and support.



Key benefits

- Increase durability
- Increase longevity
- Consistent high quality
- Reduce maintenance and downtime

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

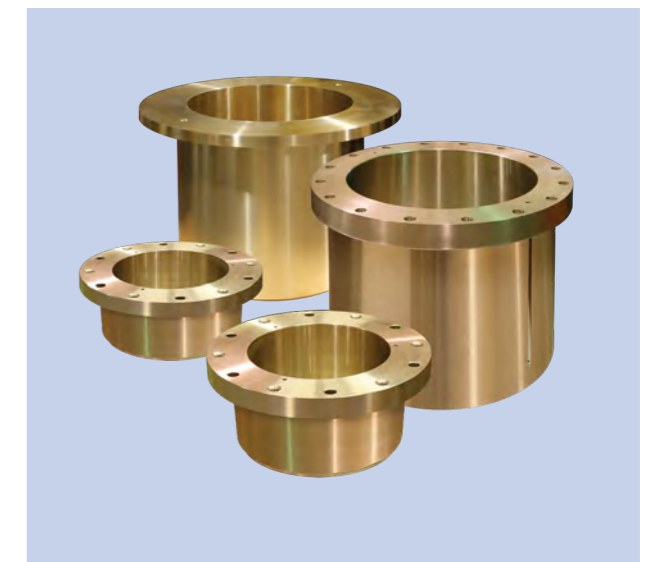
Our competitors are content with bushings that are close enough to concentric. We create perfectly concentric bushings using a unique pinch turning method during machining and cut the inside and outside diameters simultaneously. This process guarantees that your bushings are concentric with no weak spots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

Allis-Chalmers® & Svedala® Hydrocone® Cone Crushers

22", 36", 45", 51", 60", 72", 84", 500™, 600™, 700™

Component identification

Mainshaft assembly

- Mainshaft
- Mainshaft Sleeve
- Head Nut
- Head Center
- Mantle
- Dust Seal Ring
- Dust Seal Retainer

Eccentric assembly

- Eccentric Bushing
- Eccentric
- Gear
- Eccentric Wear Plate
- Eccentric Support Plate

Step plate assembly

- Mainshaft Step Plate
- Step Washer
- Piston Wear Plate

Hydroset™ assembly

- Hydroset™ Bushing
- Hydroset™ Piston
- Hydroset™ Cylinder
- Hydroset™ Seal
- Clamp Plate

Topshell assembly

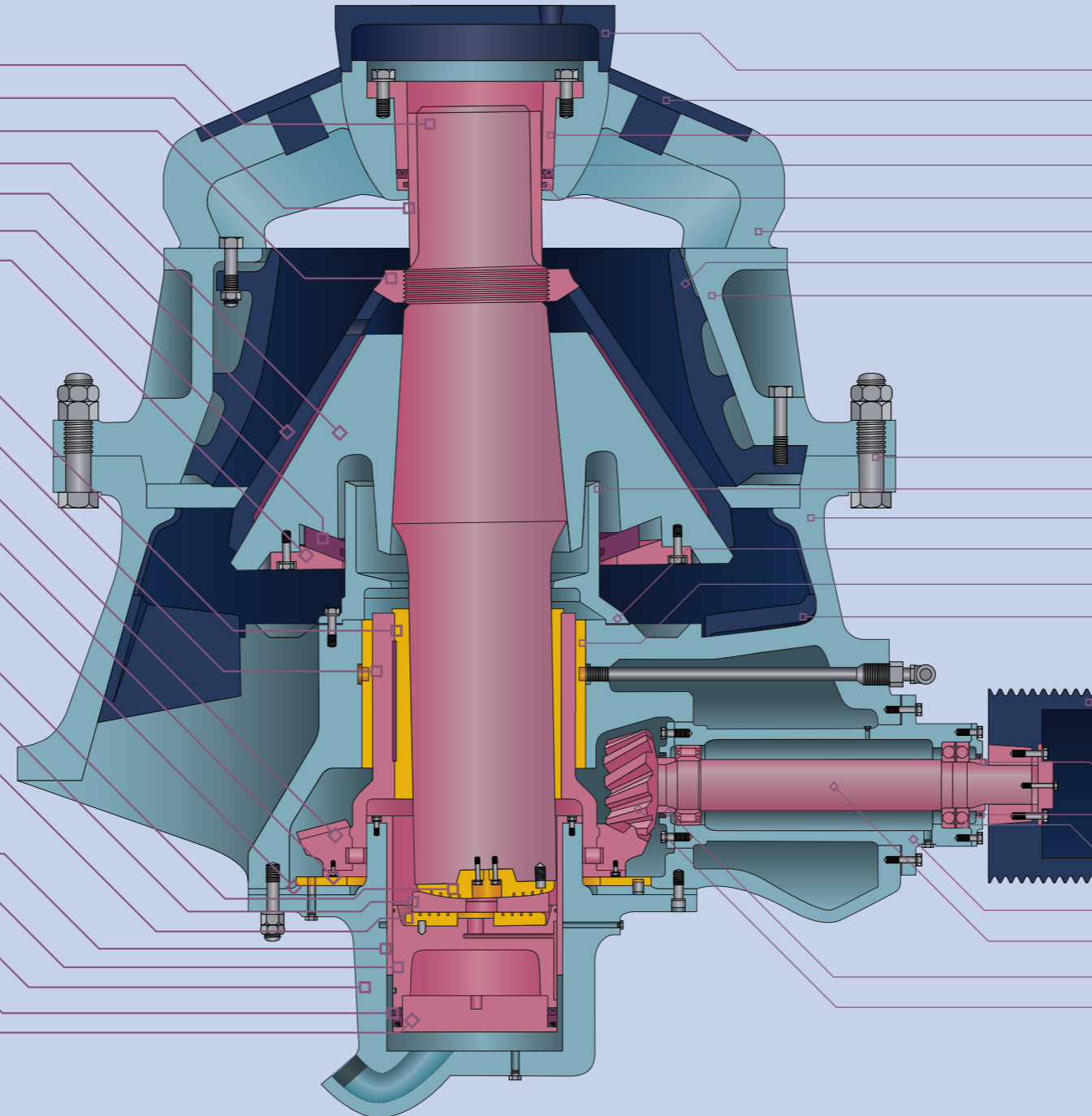
- Spider Cap
- Spider Arm Shield
- Spider Bushing
- Spider Oil Seal
- Scraper Ring
- Spider
- Concave
- Topshell

Bottomshell / hardware

- Shell Bolt
- Dust Collar
- Bottomshell
- Dust Collar Gasket
- Bottomshell Bushing
- Arm Liner

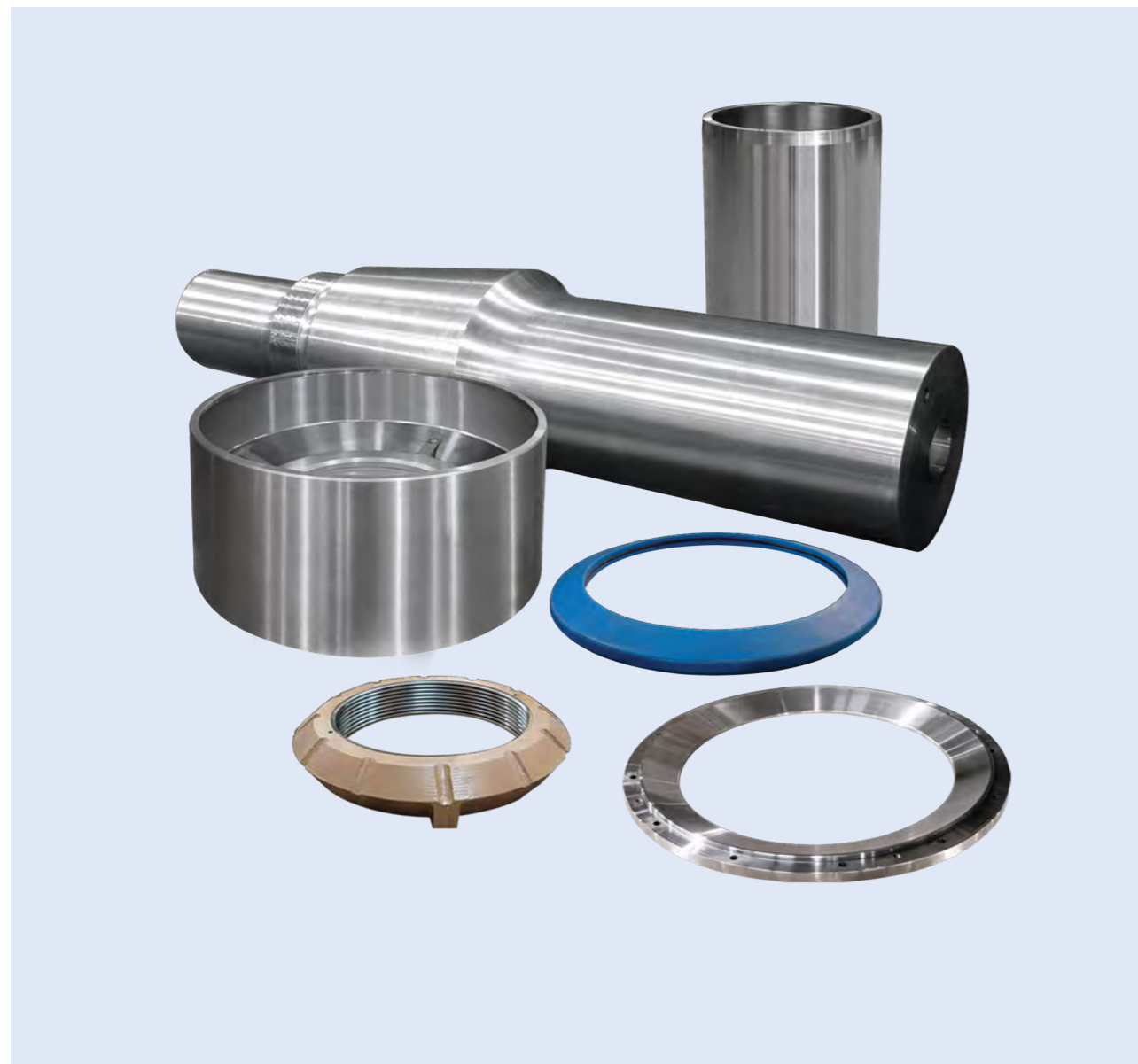
Pinionshaft assembly

- Sheave
- Lock Nut Spacer
- Pinionshaft Oil Seal
- Pinionshaft Bearing
- Pinionshaft Housing
- Pinionshaft
- Pinion End Spacer
- Pinion



Invest in the right spare parts for your cone crusher

These improved parts provide better throughput and increased revenue for your business. Better replacement parts mean longer periods of operation between maintenance downtimes.



Mainshaft assembly



Eccentric assembly



Hydroset™ assembly



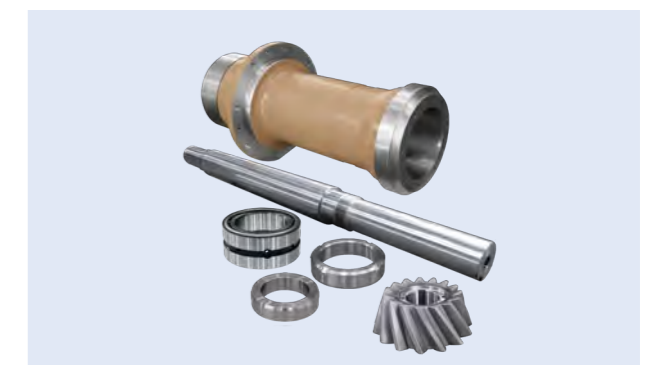
Topshell assembly



Step plate assembly



Bottomshell components



Pinionshaft assembly

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/FLS and are not manufactured by, purchased from or warranted by the original equipment manufacturer.

Making a difference through engineering and unbeatable service

We offer superior parts. Then we go a step further by backing our parts with a team of specialists to answer your technical questions and work with you in the field to get your equipment working better than new.



Engineering you can count on

Original equipment manufacturers often leave room for improvement when it comes to part performance and site-specific considerations on the machines they design. EXCEL™ replacement parts are designed to get you better performance, longer wear life, improved safety, higher quality, complete compatibility and more durability. The only things you will see less of are maintenance and expense.

Yes, we use state-of-the-art, 3D-based design technology. But we also take advantage of the experience of former miners and quarry engineers who are on our staff and feedback from customers like you to make sure that what we are designing is relevant in the real world. We have been developing and manufacturing replacement components for more than 80 years, and we have produced a wide line of parts that surpass what you can expect from the equipment manufacturer.

Sales and technical support

We have you covered with world-class service before, during and after the sale. Whether you need help finding a part for your application, have a custom request, need a metallurgical analysis or need any other technical assistance, we are here to help. Our talented and accessible team of design engineers and technical service engineers are ready to offer support because your time is too valuable to spend trying to find answers on your own.

Dependable field service

Our field service team is here to take care of you. We want to hear about any problems that you encounter in the field and will show up to help you resolve them. Many of our new part designs have come about as we work with customers to find solutions to common problems.



"Our goal is to give our customers the greatest possible usage out of their equipment with high quality replacement components. Many customers see replacement parts as big hunks of steel and assume that they will function under abuse and any circumstance. We see our parts as precisely honed instruments that can be optimized for better performance and longevity."

BRADEN PRICE

Design Engineer, Product Design & Enhancement
FLSmith Inc. - Pekin Operations

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 contact testing process ensures Excel gears are manufactured to a level above the OEM.

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

Improve your existing rock crusher by using our high quality EXCEL replacement parts. Our parts provide better, more efficient performance to keep your business going strong.

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 manufacture, we can confirm all possible production details that are needed.



"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

Follow us here



flsmidth.com/linkedin



flsmidth.com/twitter



flsmidth.com/facebook



flsmidth.com/instagram



flsmidth.com/youtube

Contact us

FLSmidth A/S

2500 Valby
Denmark
Tel. +45 36 18 10 00
info@flsmidth.com

FLSmidth Inc.

Pekin Operations
Pekin, IL 61555
USA
Tel +1 309 347 3031
excelparts@flsmidth.com



flsmidth.eco/contact

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 of any kind (express or implied), and information and data contained in this brochure are for general reference only and may change at any time. FLSmidth does not guarantee or make any representation regarding the use or the results of the information or the data provided in the brochure in terms of its correctness, accuracy, reliability or otherwise, and shall not be liable for any loss or damage of any kind incurred as a result of the use of the information or data provided in the brochure.