Excel Premium Components
Sandvik® Cone Crushers
H-SERIES | CH-SERIES | S-SERIES | CS-SERIES
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**TOP SHELL ASSEMBLY**
- Spider Cap
- Arm Shield
- Topshell
- Spider Bushing
- Oil Seal
- Concave Support Ring
- Concave Retaining Bolt & Washers
- Jacking Bolt

**BOTTOM SHELL ASSEMBLY**
- Bottomshell
- Dust Collar
- Bottomshell Bushing
- Arm Guards

**ECCENTRIC ASSEMBLY**
- Retainer
- Hub
- Eccentric Wear Plate
- Gear
- Locating Bar
- Eccentric Bushing
- Eccentric Key
- Eccentric

**STEP PLATE ASSEMBLY**
- Mainshaft Step Plate
- Step Washer
- Piston Wearing Plate

**MAIN SHAFT ASSEMBLY**
- Main shaft
- Mainshaft Sleeve
- Inner Head Nut
- Head Nut with Burning Ring
- Concave Ring
- Head Center
- Dust Seal Ring
- Dust Seal Retainer

**PINION SHAFT ASSEMBLY**
- Pinion
- Pinion End Bearing
- Pinionshaft
- Pinionshaft Housing
- Sheave End Bearing
- Pinionshaft Oil Seal
- Seal Plate

**HYDROSET™ ASSEMBLY**
- Piston
- Hydroset™ Cylinder Bushing
- Chevron Packing
- Hydroset™ Cylinder
- Packing Clamp Plate
- Hydroset™ Cylinder Cover
**Support Ring for Sandvik® Cone Crushers**

- Improved retention system
- Heavy-duty pins
- Easy to modify existing topshell with Excel's technical drawings and dedicated support
- Minimizes risk of broken rings
- Reduces crusher downtime
- Maximizes cost savings

**H8000 Inner & Outer Head Nut**

Large Buttress Threads

Our custom buttress thread head nuts offer more strength than the standard unified thread. This keeps your mantles tighter and your threads in better condition.

- Increased casting cross-section
- 45% more surface area in contact
- Designed for extended life

**Heavy-Duty Retention Pin**

- Eliminates removal of broken, threaded dowels in topshell
- 10% increase in outer diameter for added strength
- Bolts to concave support ring, eliminates threads
- Increases support for added overall wear life
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 the master and must meet the precise specifications of the gear’s contact criteria. Simply put, the benefit to our customer is consistency.

Excel Bronze Bushings... Simply the Best!

Fit, Form, and Function - that’s what we guarantee in every replacement part we deliver. Our Quality Assurance Department scrutinizes every dimension with exacting tolerances to be sure your bushing is perfect in every way, giving your operation an unbelievable value. Less expensive than the OEM, with the highest quality in the business...sounds too good to be true, doesn’t it?

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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.
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.