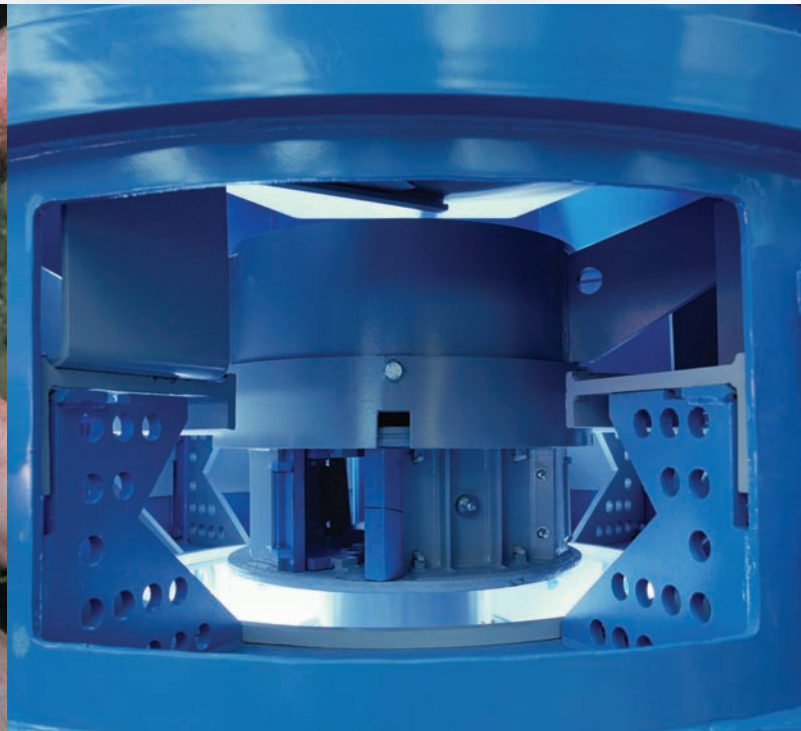
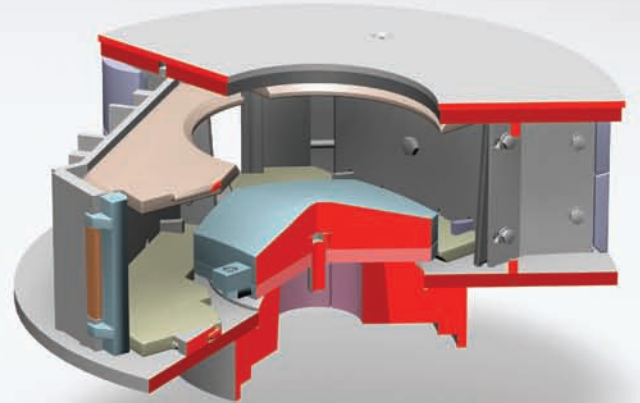
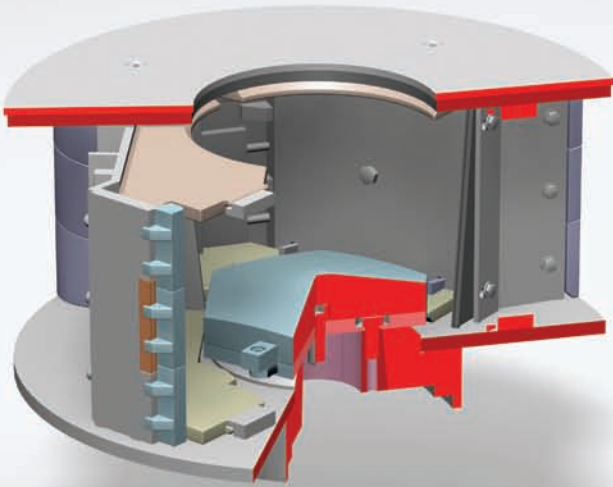


Sandvik VSI Rotors



At the heart of innovation

At Sandvik, innovation is a strong driving force. We've been providing products, services and solutions to the mining and construction industry for over 100 years. Every product is backed by extensive R&D, application expertise, a network of authorized dealers, on-site service and training, parts and services.

In 2002, Sandvik introduced its line of autogenous crushers, setting a new standard in VSI crushing. The Sandvik VSI crushers uses a rock lined rotor to accelerate material, which is then impacted in a highly energized rock lined crushing chamber.

With the Sandvik Rotor Retrofit Programme it is now possible for customers with various makes of autogenous VSI crusher to achieve the benefits of the Sandvik patented design rotor.

Sandvik's range of rotors have been carefully designed to increase efficiency of operation and will fit into most types of major VSI crushers, with the minimum of fuss and without any major adjustments.

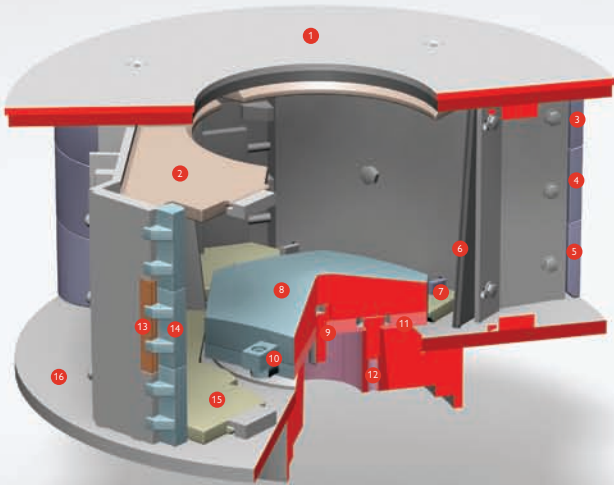
Sandvik have distinct advantages over all other makes of VSI and autogenous rotors. Sandvik's world leading technology in hard metals and rotor and wear part design combined with world renowned research and development ensures customers both now and in the future of optimum performance and customer support.

FIVE REASONS TO JOIN THE SANDVIK RETROFIT PROGRAM

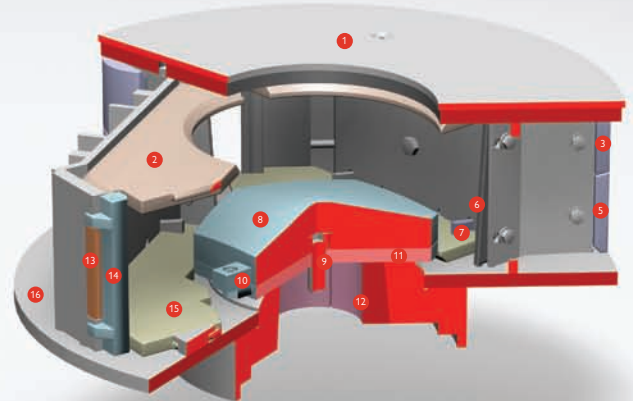
Altogether, using the Sandvik rotor result in increased crusher availability and reduced maintenance, combined with lower operating costs per tonne:

- Proven **increased rotor throughput** of up to 30% for the same power draw due to patented leading technology rotor design. Increased discharge height due to streamlined part design allows material to exit rotor more efficiently
- **Optimised/increased uptime** and availability due to reduced overall maintenance.
- **Fewer wear parts** are required on the Sandvik VSI rotor, when compared to other VSI manufacturers. This reduces the total weight, saves on maintenance downtime and reduces operating running costs.
- **Stocking benefits** due to commonality of parts. Only 39 different parts are required for all retrofits including rotors.
- **Decreased vibration levels** due to innovative patented Sandvik rotor and wear part design. This results in increased crusher bearing life combined with reduced maintenance.

HP ROTOR



LP & EP ROTOR



1. BOLT ON TOP WEAR PLATE
2. UPPER WEAR PLATE
3. CAVITY WEAR PLATE TOP
4. CAVITY WEAR PLATE MIDDLE
5. CAVITY WEAR PLATE BOTTOM
6. TRAIL PLATE
7. WEAR PLATE LOCATING WEDGE
8. CENTRE DISTRIBUTOR PLATE

9. DISTRIBUTOR LOCATING CAP SCREW
10. DISTRIBUTOR LOCKING PIN AND BOLT SET
11. ROTOR TOP PLATE
12. ROTOR TAPERLOCK BUSH
13. BACK-UP TIP
14. TIP PLATE
15. LOWER WEAR PLATE
16. ROTOR BODY

BEFORE ANY ROTOR RETROFIT IS ATTEMPTED YOUR LOCAL SANDVIK REPRESENTATIVE WILL ASSESS YOUR CURRENT OPERATING PARAMETERS AND WILL ISSUE A WRITTEN REPORT DETAILING THE BENEFITS THAT CAN BE EXPECTED.

THERE ARE SEVERAL WAYS THAT YOU CAN GAIN THE BENEFITS OF SANDVIK'S VSI ROTOR RANGE, FOR EXAMPLE THROUGH COST PER TON AGREEMENTS, ROTOR RENTALS, STRAIGHT PURCHASE OR TRY/BUY AGREEMENTS.

YOUR LOCAL SANDVIK REPRESENTATIVE WILL BE ABLE AND WILLING TO DISCUSS YOUR REQUIREMENTS AND WORK TOGETHER WITH YOU TO FIND A SOLUTION THAT FIT YOUR NEEDS.

Sandvik is a global industrial group with advanced products and world-leading positions in selected areas – tools for metal cutting, machinery and tools for rock excavation, stainless materials, special alloys, metallic and ceramic resistance materials as well as process systems and sorting systems. The Group had at the end of 2006 about 42,000 employees and representation in 130 countries, with annual sales of more than SEK 72,000 M.

Sandvik Mining and Construction is a business area within the Sandvik Group and a leading global supplier of machinery, cemented-carbide tools, service and technical solutions for the excavation of rock and minerals in the mining and construction industries. Annual sales 2006 amounted to about SEK 25,000 M, with approximately 12,200 employees.

