

polycom[®] Expert Service for high-pressure grinding rolls



Optimization of your high-pressure grinding roll for best production results

In many cement plants around the world, our polycom[®] high-pressure grinding roll is a proven, reliable, and energy-saving solution for grinding raw materials and cement. First sold in 1986, more than 95 % of all polycom[®] high-pressure grinding rolls ever built are still in service today. With, in some cases, several decades of production behind them however, some of these HPGRs no longer achieve their full capacity, which leads not only to reduced throughput but also to increased specific energy consumption. How can full capacity be achieved again?

The polycom[®] Expert Service provides clarity on the condition of the entire grinding plant and focuses on process-technological and mechanical limitations of the production. Direct optimization possibilities are already implemented during service. A detailed report with recommendations provides you with a sound decision-making basis for your medium-term and long-term strategies. The service is carried out by our experienced experts from the department process technology and generally comprises the following:

- Analysis of plant operation
- Inspection and sampling along the entire process chain
- Process-technological measurements
- Troubleshooting and ad-hoc optimization of the operational settings
- Consulting with regard to maintenance, stocking of spare parts and process engineering

Our experience has shown that several service steps can also be executed as "remote service" in the first step and at very short notice if required, and that online live support is possible. In general, the service is flexibly and individually adapted to your needs.

The optimization possibilities are developed on the basis of the collected data and measurement results, as well as the analysis

of material samples. In a report or in the form of a presentation, you will receive a summarized audit of the plant situation including a detailed listing of the mechanical condition of your grinding system, an evaluation of the functioning of the hydraulic system, as well as recommendations for short-term and medium-term possibilities for further optimization of the polycom[®] HPGR, with due consideration to the entire grinding plant and the product portfolio.

According to experience, an increase in production and a reduction of the energy requirement of 5-25 % can be expected in just one week – which is the time we need to inspect and optimize the HPGR. In almost all cases, initial optimization successes can be achieved directly.

Your service advantages

Field of mechanical components

- Professional inspection of the grinding plant by our thyssenkrupp Service experts
- Assessment of wear parts
- Recommendations on spare parts and modernization

Field of process engineering

- Process-technological audit of the plant situation
- Optimization of plant operation
- Recommendations for further optimization steps
- Advice and training for your personnel

Results

- Increase in production output
- Minimization of energy consumption
- Optimized HPGR operation
- Increased service life of mechanical elements
- Calculable stocking of spare parts