Our next-gen HPGR

With numerous installations in many industries thyssenkrupp high pressure grinding rolls have a proven record in grinding mineral raw materials. Now, you can get the next-gen HPGR from a global market leader in this technology.

More high-end – more economical – more efficient – more reliable

Find out how you benefit overleaf.

ingeering.tomorrow. together.
Benefit from our next-gen HPGR

Whatever your business – copper or gold mega-concentrators, pebble crushing, lumpy or concentrate iron ore, diamonds, copper or gold heap leaching, lithium, phosphates, or coal grinding – and whatever your requirement – installation of a high pressure grinding roll in a new plant or as an upgrade or extension to your existing plant – our next-gen HPGR will bring you bigger benefits in comminution.

More high-end:
- State-of-the-art technology thanks to 40 years of experience in high-pressure grinding rolls
- Ongoing technical improvements through intensive investment in R&D
- Extensive in-house process expertise for HPGR circuits

More economical:
- Cost-conscious design featuring up to 25% less steel in weight terms
- More energy efficient than conventional SABC comminution circuits
- Less wear thanks to a carbide-studded grinding surface
- Service lives of up to 60,000 hours recorded in iron ore pellet feed
- Lower operating costs through ease of maintenance
- Cost benefits through integrated tramp metal bypass, e.g. lower building height

More efficient:
- Higher throughput and recovery rates of existing grinding circuits in conventional mineral processing plants after upgrade and/or debottlenecking with our next-gen HPGR
- Constant skew grinding capability over the entire roll width
- Maximized throughput and optimized energy consumption thanks to permanent machine data collection and process evaluation and optimization through Local Analyzer Interface (LAI)

More reliable:
- Permanent monitoring of wear and condition so preventive maintenance can be scheduled
- Permanent online monitoring of entire roller surface through our stud detection system for predictive maintenance
- Immediate operator notification of loss of studs or edge protection so the cause can be dealt with and the surface repaired to minimize downtime

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