

Professional exchange and ongoing cooperation between TOMS and KÖPPERN in the field of iron ore concentrate re-grinding with HPGR

In March this year specialists and colleagues from TOMS Institute and KÖPPERN met for a workshop on the re-grinding of iron ore concentrates using HPGR.

Since 2015 TOMS INSTITUTE works in close cooperation with the German HPGR manufacturer KÖPPERN and operates a testing facility for HPGR grinding. This test facility is unique in the CIS and allows both TOMS and KÖPPERN to test, develop and advance new technologies for ore processing, especially in the CIS countries. In March 2020 engineers of TOMS and KÖPPERN met in Irkutsk to exchange about the challenges in iron ore concentrate re-grinding with HPGR and to perform a collaborative test work series on iron ore concentrate.

Due to their fine particle size and high moisture contents, iron ore concentrates present special challenges for a re-grinding process with help of HPGR. The HPGR is very well suited for an application on iron ore concentrate re-grinding. By re-grinding in the HPGR, the specific surface increases and the iron ore concentrate becomes more homogeneous compared to iron ore concentrates from "classical" ball mill grinding processes. As a result, the downstream pelletizing process is more uniform. The quality of the pellets increases, while the specific energy requirement for the pelletizing process decreases.

During the workshop and the test work TOMS and KÖPPERN exchanged their experiences and knowledge on the field of iron ore concentrate processing and unified their high testing standards for iron ore concentrate re-grinding including all necessary material preparation and analysis procedures. This ensures that the quality of the tests is consistent and meets the high standards of both companies, regardless of whether the tests are carried out in Germany or in Russia.

With this workshop, both companies continue strengthening the cooperation and their position of being "knowledge leaders and leading technology suppliers" for the iron ore industry in the CIS states and worldwide.

Interested? Then contact the experts for the regrinding of iron ore concentrate with HPGR at TOMS Institute (senchenko@tomsmineral.ru) or KÖPPERN (contact@koepfern.de).



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