

FLSmidth's comminution line-up leads the pack

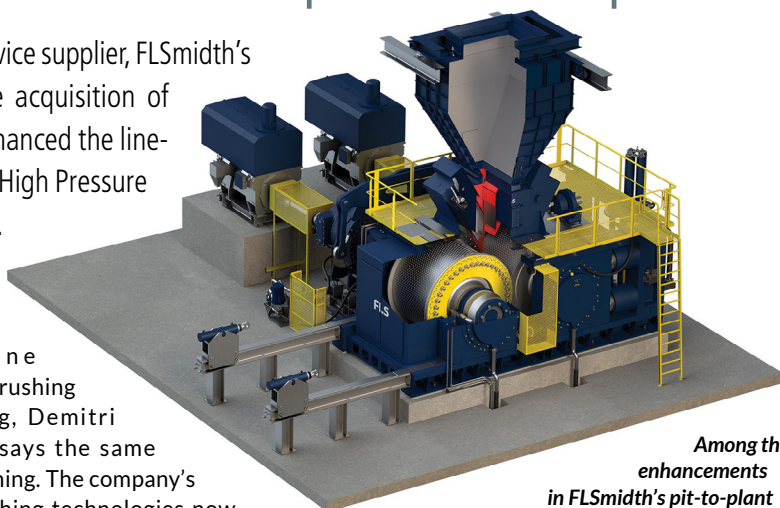
Adding to its status as a full flowsheet technology and service supplier, FLSmidth's comminution range has been bolstered further by the acquisition of thyssenkrupp's Mining business (TK Mining). This has enhanced the line-up of crushing, screening and milling products, including High Pressure Grinding Rolls (HPGR) and Eccentric Roll Crushers ERC®.

Leading comminution technology and products have been added to the FLSmidth stable with the TK Mining acquisition, arguably making FLSmidth the world leader with respect to its comminution portfolio.

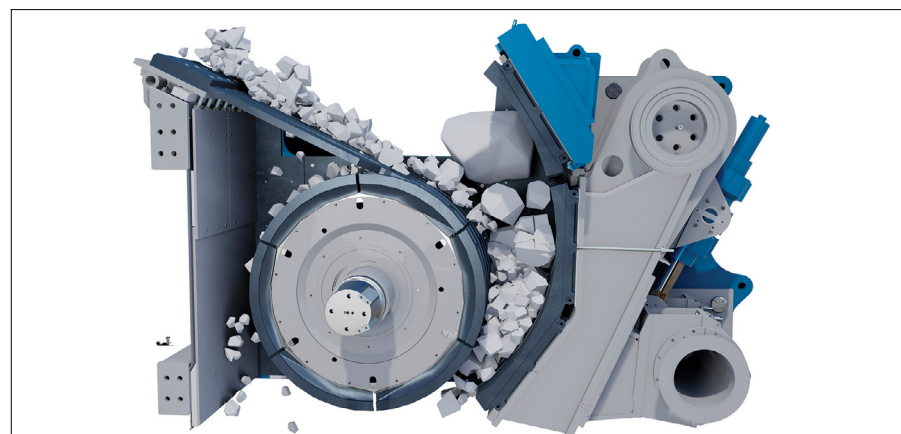
Craig Brickhill, FLSmidth's Regional Product Line Manager for Milling and HPGR, highlights that the FLSmidth brand now encompasses the best solutions, equipment and expertise from across the flowsheet. "On the grinding side, for instance, FLSmidth is a leader in solutions such as semi-autogenous grinding (SAG) mills, while TK Mining held decades of positive experience with High Pressure Grinding Rolls (HPGR)," says Brickhill.

FLSmidth Regional Product Line Manager for Crushing and Screening, Demetri Kokoroyanis, says the same applies to crushing. The company's combined crushing technologies now put it well ahead of competitors, he argues.

"Our Top Service Gyratory Crushers are advanced in their ultra heavy-duty design and the way they facilitate safe and efficient servicing," he says. He also points to the company's Eccentric Roll Crusher (ERC®), which fits between the jaw and gyratory crushers in the range and differentiates FLSmidth from the competition. The ERC®



Among the enhancements in FLSmidth's pit-to-plant range of technology and equipment are market leading High Pressure Grinding Rolls (HPGRs).



The FLSmidth Eccentric Roll Crusher ERC® can accept large rocks and produce a suitable size for conveying and secondary, or directly to tertiary, crushing if applicable.



With FLSmidth's top service range of gyratory crusher models, 95% of the servicing can be conducted from the top.

has a built-in static grizzly screen before the crushing zone to allow removal of the fine material, while large rocks are fractured at the opening of the jaw to increase throughput and reduce power consumption.

A key addition to FLSmidth's current offering is the HPGR range, says Brickhill, with an installed population of about 160 units. The technology is an energy efficient alternative to traditional milling, as it transfers energy directly into the rock. As a dry process, it is also likely to see growing uptake as mines pursue sustainability targets that minimise water use.

The wide range of crushing offerings feeds into FLSmidth's role as a provider of semi-mobile in-pit crushing plants – of which there are over 285 installations worldwide.

"Our plants can be designed for direct feed – usually from gyratory crushers – and also for indirect feed, which can be accomplished with an apron feeder before a gyratory, ERC®, jaw crusher, double roll crusher or double roll sizer," says Kokoroyanis. "We can take care of everything from the truck tip to the discharge conveyor, and the plant comes complete with auxiliary equipment for a smooth operation. The plants can be relocated to a new position in the pit using transport crawlers with minimum disassembly requirements as mining progresses," he adds.

Brickhill notes that the acquisition also means FLSmidth's engineering infrastructure now includes a world class engineering facility at Chloorkop, Gauteng, focused on refurbishing HPGRs. The facility further includes a test centre where material can be tested for suitability for processing by HPGR and for sizing of full-scale units.

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