

Case Study

HSI Primary Crusher in Limestone Quarry



Magotteaux
cement
blow bar
One



Customer Calcit - "Plattenkalk" Limestone Plant

Location Germany 

Background Looking for a customer willing to test our new blow bar solution for a primary HSI crusher, Magotteaux approached Calcit Edelsplitt, which operates a Hazemag AP 7 primary crusher in the Calcit GmbH limestone plant. The first target was to evaluate the mechanical resistance to high feed sizes up to 800mm using Hazemag S profile blow bars. Depending on weather conditions, the lifetime of the manganese steel alloy reached between 40,000 to 90,000 tons of throughput volume. Despite the varying working conditions, the customer could evaluate the performance gap, and we agreed to run a test. The main concern for the customer was the risk of blow bar breakage.

Solution With Hazemag blow bars, known as the „S“ profile (thin), combined with high feed size, the conventional MMC approach is no longer compatible. Magotteaux had to perform a blow bar retrofit, ensuring proper fitting into the rotor and mechanical resistance against the demanding working conditions.

Results **Magotteaux's cement blow bars** „W+ HT“ solution was implemented into a new blow bar profile design. Expectations of twice the lifetime were achieved, maintaining a very flat wear profile and ensuring no breakage, which was the main concern of the customer.



+110 %
blow bar lifetime



10 %
production
cost reduction



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**Do you want to step out from manganese steel on
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