

Mobile impact crusher MF 16 S convinces with high throughput in recycling

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The Belgian recycling specialist Gyro has put a new mobile impact crusher MOBIFOX MF 16 S into operation in Antwerp. With a high-performing combination of plants from **Kleemann** slag is processed which occurs as a by-product during the recycling of precious metals.

Integrated approach to the recycling of precious metals

For 15 years now Gyro has been working together with Umicore at its site for recycling precious metals in Hoboken. 17 different metals are processed at the world's largest and most complex precious metals recycling facilities. As Umicore is increasing its capacity, Gyro decided to expand its machine fleet. Various processes were tested to guarantee a high-quality product. In the end the mobile impact crusher MOBIFOX MF 16 S from **Kleemann** was selected. "With the combination of a MC 125 Z and the MF 16 S we achieve the best result with high cubicity and 30% content of fines", states Guy Kempeneers, Managing Director of Gyro. "At the same time we have a high hourly output of 350 tonnes."

Efficient treatment of slag

The rough grain sizes of 300-900 mm are used as armourstones. The finer material is crushed in the primary phase by the MC 125 Z jaw crusher and the grain size of 0 - 125 mm is then fed to the MF 16 S by direct loading. There the fine material 0 - 4 mm is thoroughly classified by the triple deck vibrating screen and the oversize grain is crushed to 4 - 28 mm. Both final grain sizes are used for concrete applications instead of gravel and sand. "The requirements for recycling material are becoming more stringent. In order to observe the CE and COPRO certification, we regularly take product samples", states Jef Kempeneers. In order to check the quality of the products on an ongoing basis, Gyro examines these samples in its own lab.

Plant design tailored to customer specifications

Thanks to the high performance of the MF 16 S, Gyro is able to produce higher tonnage rates in a shorter time and thus save on operation costs in the long run. But it was not only the product quality and performance which were deciding factors in the purchase of the MF 16 S. Gyro already owns 15 Kleemann crushing and

screening plants and places a high level of trust in **Kleemann**. Together with the **Wirtgen Group** subsidiary in Belgium and the technical development department at Kleemann, the machine was designed especially for this recycling application. Useful options were also installed in the plant: The MF 16 S is equipped with a spray system in order to have minimal dust formation. There is also the option of an external power supply for low-consumption operation.

Source: Wirtgen GmbH