

Kleemann crushing plant MC 125 RR crushes 600 tons an hour

16 October 2017 by Kleemann (WIRTGEN Group)

Natural stone processing often requires individual solutions to guarantee the ideal preparation of special stone. At bauma 2016, with its MOBICAT MC 125 RR Kleemann GmbH presented such a special plant. The mobile crusher is equipped with a wobbler feeder for thorough prescreening of adhesive feed material. Since summer 2016, the plant has been operating in an SMBP limestone quarry near Berchères-les-Pierres in France.

SMBP has already been preparing limestone for concrete production since 1978 in the region Centre-Val de Loire. A new project for processing limestone made the acquisition of a new crushing plant necessary. Regular relocation of the plant according to mining progress led to the decision for a mobile solution. SMBP has already used a special plant from Kleemann for limestone processing: the MOBICAT MC 162 PRR. In the last 15 years, the jaw crusher plant has processed 25 million tons of material. "The MC 162 PRR is perfectly tailored to my application and I am very satisfied with its output", stated Christian Laye, General Director of SMBP. "This is why I contacted Kleemann to have another mobile special plant developed." The adhesive limestone makes particularly thorough prescreening necessary. The MC 125 RR was therefore equipped with a two-stage wobbler feeder.

Since July 2016, SMBP has been using the 160 ton MC 125 RR in the first crushing stage. The limestone is fed with a size of 0 - 900 mm to the elliptical rollers in the first stage of the wobbler feeder. At the same time, contamination and dust are removed from the stones. The material is levelled and then conveyed to the second stage of the wobbler feeder for further cleaning and better material distribution. The fines with a size of 0-80 mm fall through the rollers onto a conveyor belt and leave the process via the side discharge conveyor. Jaw crusher wear is thus reduced and a total output of 600 tons an hour is achieved. The oversize grain is crushed to 0-300 mm and then further processed by a stationary plant for concrete production.

The total area of the quarry in which the MC 125 RR is used is around 250 hectares. They anticipate that 1.6 million tons of limestone will be processed in this area in the years ahead. A stationary plant is to be used for processing as of 2018. A mobile crushing plant will therefore be used initially to develop the quarry until space has been created for a stationary plant. The MC 125 RR will then be used by SMBP in another quarry.

Source: KLEEMANN GmbH