



Dewatering of abrasive granite stones

Product group: Dewatering screens

Industrial process: screening, classifying, dewatering

Industry: Construction, Quarries, Pits, Mining, Cement

Type of drive: Unbalance motor



capacity (t/h): 200 | **bulk:** granite | **density (t/m³):** 1,6 | **grain size (mm):** 2-20

function:

A French handling company has designed and built a complete granite processing plant for his end customer based in the France. Within the processing plant, the granite stones have to be drained of excess water at various points. For this they sought an efficient solution. It was important that the screen media can be changed, so to reduce downtime.

solution:

The granite stone material is generally greater than 2 mm grain size. This is the perfect situation for the AViTEQ dewatering Screens, which is developed for granulates. They offer the advantage that they can be constructed more easily compared to conventional dewatering screens for sand. As a result, small unbalanced motors can achieve very good performance and also dewatering results. The total of 6 dewatering screens are driven by robust AViTEQ unbalanced motors, which are specially designed for longevity and difficult conditions. The outlet area is protected against wear with Hardox 400 liner plates. The screen decks consists of polyurethane screen

media with a mesh width of 4mm x 23mm, which are arranged transversely to the conveying direction. A special easy change system has been installed, which allows a quick and easy change of screen decks. In addition, the complete dewatering screen are completely galvanized. So to reduce corrosion through their service life.

usability:

Through the use of the AViTEQ dewatering screens, the plant builder was able to offer his end customer a dewatering solution that corresponds to his expectations regarding the desired moisture value. The special screen system was also able to meet the requirements of a quick screen deck change. This is complemented by the AViTEQ unbalance motors, which is a perfect investment in the longevity of the plant.

place of installation: France