

SCREENING SOLUTION FOR FRENCH COAL POWER PLANT

JÖST[®] solved a special coal processing task on behalf of a German plant constructor for a French coal power plant. Due to increasing primary product costs it is now financially interesting to exploit coal that has been put on stockpile for years. Before the coal can be transported in the plant for processing it has to be pre-classified so that bigger lumps do not disturb the processing. This has to be possible regardless of weather conditions. The worst case means to even classify coal slush.

A roller grid was used by the operating company to provide a first step classification. During bad weather conditions the grains were not loose but were transported in big lumps onto the screen that could not be classified and left the screen deck mostly unsifted. Although the operating company did not believe that the bulk could be handled by vibration technology tests with a grizzly feeder lead to positive results.

The solution for this case of operation is a JÖST[®] GRIZZLY feeder type SWEG with a shaft drive and special construction details. The shaft drive was over dimensioned on purpose and not placed on the balance point of the machine to handle the extreme extra load in the feeding area. The GRIZZLY feeder reaches an acceleration value of up to 5g when the swing width is set to maximum. This enables the feeder to loosen big material lumps.

A special effort was made to avoid caking within the feeder. It was therefore equipped with plastic coatings on the steep side- and front-walls.

Originally the GRIZZLY feeder was anticipated to handle coal slush up to 300t/h. In the meantime the capacity was doubled at a screen cut of approx. 100 mm. A second assembly line is planned to be realised soon.

