

# HIGH-CAPACITY SCREENING SYSTEM FOR COAL



## APPLICATION AND FUNCTION

JÖST<sup>®</sup> delivered a High Capacity Screening System, consisting of 2 high capacity screens incl. discharge- and distribution feeders for a new port complex serving - as central distribution point - the supply of coal to the countrys' power generating plants and steel works.

Two linear oscillators, executed as vibratory banana screen type, are used for the screening function. The two high-capacity screens have a screening area of 4.0 x 8.3 m (33.2 m<sup>2</sup>) each. A special slotted grid system is used in this special application to meet the very individual requirements of this project.

This slotted grid system assures high throughput rates and can be quickly replaced due to the segment-shaped design.

Different conveying rates on the screen are achieved by means of various screen deck angles. Thus the product layer remains thin so that a bridging as a result of material pressure is avoided. At discharge side the conveying speed is reduced sufficiently to ensure, that a grading of the limit particle fraction is assured.

The high-capacity mechanical screens with an oscillating mass of 33 t, are optimized by JÖST<sup>®</sup> designers using the FEA-method. Therefore only 2 JÖST<sup>®</sup> Exciters type JR 1008 each with a max. total working torque of 40800 kgcm are sufficing.

## YOUR BENEFIT:

- Quickly replaceable slotted grid system
- Optimized construction by using the FEA method
- Only 2 drive modules are required
- Smooth product layer on the screen deck
- Screening area 33,2 m<sup>2</sup>

## MACHINE DATA:

Type of machine:	SRGN 4000 x 8300
Year of construction:	2006
Drive:	2 x JR 1008
Weight:	33 t
Declination:	30°/15°/5°
Frequency :	750 min <sup>-1</sup>

## PRODUCT DATA:

Product:	coal
Capacity:	4.000 t/h
Density:	0,85 t/m <sup>3</sup>
Grain size:	0-250 mm
Screen cut:	60 mm
Product temperature:	ambient
Moisture:	14 %