Optimization of the coal-preparation plant in Linz

Thomas Abfalterer
Content

• Historic plant configuration

• Requests on a modern coal-preparation plant

• New plant configuration

• Plans for the future
coal storage 

16 coal bunkers

1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8

2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8

batteries

coal mixer

separation of impurities (magnetic separator)

3 coal crushers

from coal storage
Requirements on a modern coal-preparation plant

• Cost effective unloading and storage of coals

• Accurate blending and homogenization

• Constant blend quality:
  • Grinding
  • Moisture

• Separation of impurities
16 coal bunkers

coal scale

2 coal crushers

waste box

Separation of impurities

wagon tipper 1

magnet separator

coke - storage

coil yard

3 crane bridges

Mobile crane
16 coal bunkers

- Waste box
- Wagon tipper 1
- Star screen
- Impact mill
- Coal scale
- 2 coal crushers
- Roller screen crusher
- Magnet separator
- Coke storage
- Coal yard
- 3 crane bridges
16 coal bunkers

star screen

coal mixer

green

coal scale

online moisture measuring

yellow

automatic coal sampler and bulk density measurement

clean coal tower

blue
Plans for the future

• Renewal of the coal mixer

• Automatic sampler for single coals

• Online analysis:
  • Coal grain size distribution measurement
  • Coal type analysis
Thank you for your attention!