

Support of bucket wheel excavator selection

Construction & procurement of world's largest Bucket Wheel Excavator



Location

Hungary



Client

Matra Erömü, Hungary



Expertise

Bucket wheel excavator, mining equipment, tender documents, bid qualification, factory acceptance tests, construction audits, mining

Our Services



- Bucket wheel excavator selection
- Preparation of tender documents
- Preparation of technical specifications
- Cost estimation
- Selection and qualification of suppliers
- Expediting for a large, technical procurement project
- Supervision of construction audits
- Supervision of factory acceptance tests

Project description

Matra Erömü is a significant provider of domestic energy supplies, especially energy from lignite coal. Located in the north-east of Hungary, Mátra runs the opencast Lignite Mine Bükkábrány. As the shovel-and-truck operation for overburden (4 to 5 mn cbm per year) was highly capital intense, Mátra was seeking ways to realise efficiencies and cost reduction programmes.

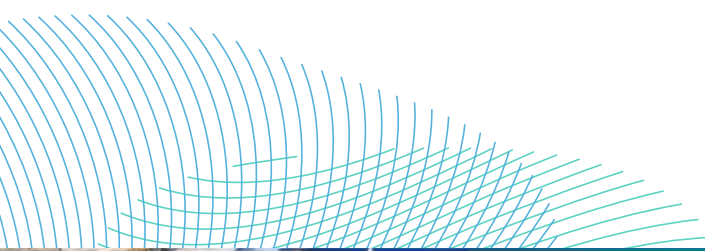
We were appointed as lead engineer and consultant to realise the tendering, purchase and installation of a new compact bucket wheel excavator. Our role included the preparation of concept and basic engineering designs as well as expediting throughout construction and implementation phase. We also produced tender documents, preparation of a cost estimate and a selection and qualification of suppliers. During construction we supervised regular construction audits and factory acceptance tests for key components.



As one of the world's most experienced operator of continuous opencast mines, RWE played a key role in the successful realization of this project in Hungary. We helped transfer knowledge of international practices and standards in the areas of heavy equipment and continuous operation in opencast mines to the client.

Technical Data

- World's largest compact bucket wheel excavator
- Capacity 6,700m³/h
- Installed power 3,000kW
- Belt width 2m
- Belt speed 5m/s
- Bucket wheel diameter 12m
- Number of buckets 16
- Bucket capacity 1,600l
- Ground pressure 121.3kPa



Europe & Central Asia

