



# Bucket Wheel Excavator 2000.28/3.0+VR

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Customer	MIBRAG, Theißen
Plant Location	Open Cast Mine Schwerzau (Germany)
Scope of work	Transfer / refurbishment of a SRs 2000 + VR (~2900t) from Czech Republic to Germany (built by TAKRAF) (Turn key – project)

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## Project description

Engineering/documentation, disassembly and reassembly  
Redesign and supply of:

- \* New bucket wheel head incl. extension
- \* New bucket wheel drive and ESR
- \* New tie rod, misc. mechanical components
- \* New electrical- ,hydraulic- and fire-extinguishing installation (according TGL – DIN/EN)
- \* Disassembly, signature, component's reconditioning
- \* Transports: normal trucks ~85  
special truck (Czech partner) ~ 50  
from Sverma (Czech Republic to Schwerzau (Germany))
- \* reassembly of bucket wheel excavator and the loading unit incl. corrosion protection
- \* function test, trail operations, approval, performance test

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## Project Figures

Specific digging force:	100 kN/m
Theoretical Capacity:	4,900 bm <sup>3</sup> /h
Cutting height:	28 m
Cutting depth:	3 m
Max. outreach of bucket wheel :	44 m
Distance centre of excavator – Centre of discharge pulley:	107.6 m
Bucket wheel diameter:	11.2 m
Bucket wheel drive power:	1 x 800 kW
Number of buckets:	14
Nominal bucket volume:	1,700 l
Discharge rate:	46 l/min
Belt width:	2.0 m
Service weight:	2,850 t

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## Project Schedule

Commissioning in 2005

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## Contacts

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