



Blumenbecker Prag s. r. o.

CZ – 108 03 Praha 10 • Počernická 96

Tel. (+420) 296 411 610 • Fax (+420) 296 411 620

www.blumenbecker.cz • E-Mail: info@blumenbecker.cz

Dredge machine K 2000

Reference



Description

Project Drive for a wheel of the dredge machine K 2000

Investor Severočeské Doly a.s., Czech Republic

Site Bílina, Czech Republic

Year 2001

Delivery scope *AC regulated drive* (2 changers SIEMENS)
Communication with a control system of ZAT comp.

Specification

Communication

§ PEER-To-PEER high speed communication line in the technical regulator of converters

§ PROFIBUS DP communication

§ Control and data collection for the control system of ZAT



Drives

- § 2-motor drive 2400 kW with SIEMENS-MASTERDRIVES 1200 kW, 690 V changers
- § Regulation of torque split between motors on a common gear
- § Automatic by-pass in case of breaking-down one motor
- § Technological regulations directly inside of VECTOR CONTROL control units
- § Trouble less running of drives in the operational conditions of the dredge machine



Machine

- § Dredge machine UNEX K2000 with a \varnothing 8 m wheel and 15 buckets scoop wheel
- § Frequency changers SIEMENS used for the drive of frame torsion, elevation of cantilever, move of the dredge machine and for drive of wheel

Technology

- § Long-term operation under max. current and heat parameters
- § Great difference and magnitude, high powder pollution on the dredge machine
- § Permanent intensive and random, not regular vibrations