TECHNICAL MANAGEMENT OF CONVEYING SYSTEMS BASED ON THE EXAMPLE OF THE SIEMAG M-TEC2 SHAFT HOISTING SYSTEM PROJECT AT THE GOTTHARD BASE TUNNEL



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ABSTRACT(max 1000 characters with spaces, font 40 pkt. ARIAL, single interline)

The predominant system of extraction used in Russia hard coal mines is the longwall system. One main gate supported by steel arches is usually used per longwall. Such a system is extremely expensive due to the price of steel. Beginning from 1998, when the government started to cut the State budget subventions to the mining industry, an implementation of bolt support as a measure to reduce the coal production cost has begun. After 10 years, the extent of bolt support usage in relation to the potential it holds is low. This is caused by restrictions of psychological nature, because inefficacy of bolt support in excavations liable to tremors and rockbursts is feared. The lack of practical solutions and examples as well as materials (bolts, lagging) was the reason the development of bolt support observed in the last years did not include the regions of coal mines liable to rockbursts (70 % of The predominant system of extraction used in Russia hard coal mines is the longwall system. One main gate supported by

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