

## **DEVELOPMENT OF BELAZ MINING TRANSPORT**

**Punko P. M., Kiselevich A. S.,** students

Scientific supervisor – Slesaryonok E. V., senior lecturer

Belarusian National Technical University

Minsk, Republic of Belarus

The development of the mineral resource complex is possible due to the improvement and creation of new equipment and the development of new technologies. One of the most prominent representatives of Belarus in the field of mining equipment is BelAZ. At the moment, BelAZ, in addition to mining dump trucks, also produces equipment for servicing quarries – front loaders, wheeled bulldozers; equipment for underground work – shaft carriage and other heavy transport equipment. This company is constantly improving and creating new equipment for work in the mining industry. With the development of electric motors, BelAZ began to apply them in its equipment. It is of great interest the application of new technologies for BelAZ equipment using the example of a mining dump truck. In mining dump trucks, in addition to the main internal combustion engine, separate electric motors begin to be installed for each wheel. The principle of operation of the electric motor is as follows, the diesel engine sets the generator in working condition, the generator generates current, which is supplied to the electric motors that turn the wheels. This leads to the fact that this enterprise has the opportunity to develop and produce mining dump trucks of large and extra-large payloads. A consequence of the use of electric motors is a number of advantages, such as smooth running, no surges of the dump truck that occur when shifting gears of a mechanical transmission, braking is achieved with minimal wear of parts. The development of dump trucks has an important role in the development of the mining industry, because. because of how well it is assembled, how convenient and understandable the management is, how safe, modern and technologically advanced it is, the quality of work depends on all this. And, accordingly, the final result of the mining enterprise.