

## THE GRINDING OF MINERAL MATERIALS WITH DIAMOND DISCS IN CONTEXT OF SUSTAINABLE DEVELOPMENT

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**Rezumat.** *Lucrarea prezintă câteva informații privind procesul de rectificare plană a materialelor minerale (granit, bazalt) cu discuri diamantate în contextul dezvoltării durabile. Ținta propusă a fost de corelare a parametrilor de aşchiere: viteza de aşchiere, avans longitudinal, adâncime de aşchiere, temperatura de aşchiere și puterea consumată în cadrul procesului de rectificare. De asemenea, lucrarea oferă recomandări privind procesul de rectificare al materialelor minerale cu discuri diamantate fără lichid de răcire.*

**Abstract.** *The paper presents some information regarding the flat grinding process of mineral materials (granite, basalt) with diamond discs in the context of sustainable development. The proposed target was to correlate the cutting parameters: cutting speed, longitudinal feed, cutting depth and cutting temperature, power used for grinding process. The paper also gives recommendations regarding the mineral materials process of grinding with diamond discs and without cooling liquid.*

**Keywords:** Grinding, diamond discs, mineral materials, power, sustainable development

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