

The current crushing plates have teeth with the constant radius, spacing and height along the entire length of a plate. The crusher chamber is fed with fragments of different sizes, the fragments are broken in different sections of the chamber owing to its wedge-like shape, and the rational relationship between the size of the material and the crushing plate teeth holds only in a certain section of the crusher chamber while crushing is inefficient in the other sections.

This article describes the tests on the influence exerted by the radius and spacing of crushing plate teeth on the crushing efficiency. Based on the research performed, the current parametrization procedure for the crushing plate teeth has been improved. According to the proposed procedure, crushing plates should have teeth with different radii, spacing and height along the length of a plate.

Different parameters of crushing plate teeth promote an increase in crushing efficiency in terms of higher capacity and lower power consumption of a crusher. The crushing capacity is achieved owing to the reduced idle rocking of the swing jaw, and the energy consumption is lowered due to decreased content of fine particles in crushed product.

Keywords: jaw crushers, crushing plates, tooth parameters, varied values, parametrization procedure, crushing efficiency, improvement.

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ПАМЯТИ ЛЕЙЗЕРОВИЧА СЕРГО ГЕНРИХОВИЧА



С прискорбием сообщаем, что на 81-м году жизни скончался Серго Генрихович Лейзерович, заведующий лабораторией подземных горных работ ОАО НИИКМА им. Л. Д. Шевякова.

После окончания в 1959 г. Московского горного института С. Г. Лейзерович начал работать на шахте им. Губкина, а затем, получив производственный опыт, перешел в НИИКМА, где прошел путь от младшего научного сотрудника до заведующего лабораторией. За время работы в институте он опубликовал более 100 статей, сделал 15 изобретений. Он был постоянным автором «Горного журнала», входил в состав его регионального представительства на КМА.

Особенно большой вклад Серго Генрихович внес в развитие комбината КМАруда, с его участием удалось разработать и внедрить немало инвестиционных проектов. С. Г. Лейзерович вел активную общественную работу, его добросовестный труд отмечен многими наградами, он обладатель премии Правительства РФ в области науки и техники.

Выражаем глубокие соболезнования родным, друзьям и коллегам Серго Генриховича, светлая память о нем сохранится в наших сердцах.

ОАО «Комбинат КМАруда»,
ОАО НИИКМА им. Л. Д. Шевякова,
редколлегия и редакция «Горного журнала»