

savings that are

Right on the Button!

When considering button bit grinding equipment look to the leader. CME Blasting and Mining Equipment has developed the most sophisticated grinding solution in the world. Since 1978, CME has focused on precision components, worldwide service ability, large spare parts inventory, and an in-house technical team to personally

answer your questions. Learn how CME can save you up to 35% in operating costs. That's big savings! And we can prove how you can do it! Call us for a personalized plan that's *Right on the Button* for you.

Overdrilling your bits does not make economic sense

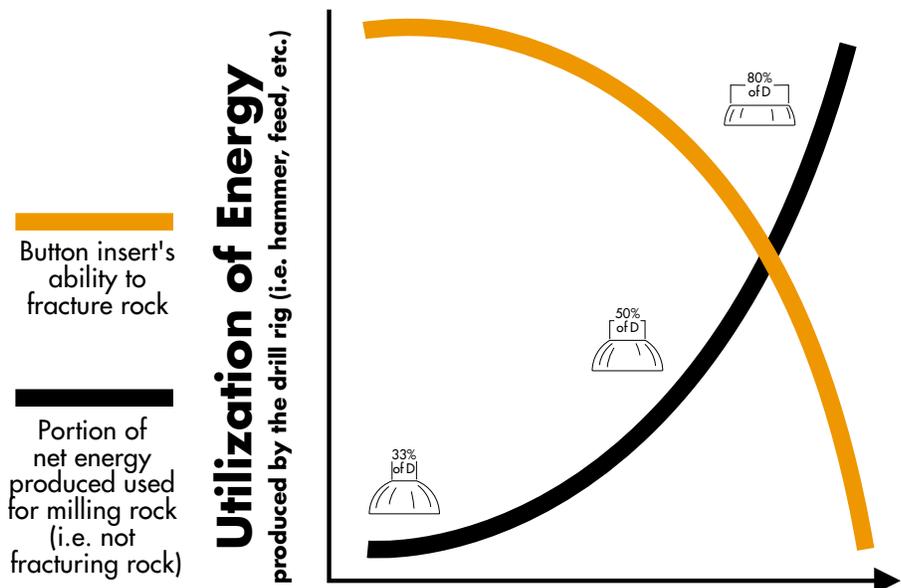
If we ignore the very real and well recognized losses in production, energy utilization, and the added wear and tear on the drill string and rig that blunt drill bits in effect cause, and instead focus on the cost of grinding, the effects are stunning.

Since there are so many actual, in practice variables in the button wear configurations of button bits, we can make some theoretical calculations that will adequately demonstrate the effect of the relationship between button flatness, the volume of carbide needed to be removed to return a button bit into service, and Grinding Cup life.

If we compare grinding of buttons with 50% wear flats versus buttons with 80% wear flats, the estimated Grinding Cup life can be 6 times greater when grinding the buttons with lesser wear. In this case, this difference in estimated Grinding Cup life is simply due to the 6

times greater volume of carbide needed to be removed from the buttons with the greater wear. The relationship between buttons with 33% and 80% wear flats is even more astounding. The graph clearly shows how the effect of over-drilling bits can

result in significant added costs in Grinding Cup consumption. It is equally important, however, to recognize cost factors such as the added time required to restore over-drilled bits, as well as the wear and tear on the Grinder and other service equipment.



Common features of all CME grinding equipment

The grinding method works on the same principle on all patented CME grinders: the grinder head, once positioned on top of the button, aligns the grinding cup over the center of the button, ensuring proper grinding of each carbide insert handsfree. Worn gauge and face buttons are

restored to their original shape fast and efficiently with the help of timed cycles.

To ensure optimum results, Super Diaroc HD for maximum performance and Super Diaroc G2 grinding cups have been developed for grinding carbide

buttons and steel in one easy step. CME Super Diaroc HD and Super Diaroc G2 grinding cups are available in ballistic, semi-ballistic/conical, and spherical profiles ranging from 6mm to 26mm. No tools are required for grinding cup replacement.