



## ME Grinding Apps

### Overview:

This media guide is being provided by ME Elecmetal to help you make the most effective use of grinding media in your mills. It includes the following sections.

### SAG mills

- **Vp Estimation** provides three different methods for determining the mill volumetric load (Vp).
- **Mill Power Draw** models for predicting SAG mill power draw characteristics
- **SAG Ball Charge Level** can be used to provide an estimate of the percent steel in the overall charge for your SAG mill based on power draw models.
- **Mill Critical Speed** can be used to quickly calculate the mill critical speed based on mill rpm and diameter.
- **Ball Charge Characteristics** provides an estimate of the characteristics of the ball charge in your SAG mill which are important in terms of its grinding and wear performance.
- **Impact Energy** charts provides a graphical illustration of the relationship between impact energy and falling distance for various steel ball diameters.

### Ball mills

- **Vp Estimation** provides three different methods for determining the mill volumetric load (Vp).
- **Mill Power Draw** can be used to determine the ball mill power draw characteristics, which are closely tied to the nature of the ball charge present in the mill
- **Mill Critical Speed** can be used to quickly calculate the mill critical speed based on mill rpm and diameter.
- **Ball Charge Characteristics** provides various characteristics of the ball charge in the mill which are important in terms of its grinding and wear performance.
- **Ball Sizing** can be used to determine of the recommended size of grinding ball to be adding to the ball mill..
- **Ball Size Distribution** generates charts comparing the predicted ball size distribution by weight and by surface area for two different equilibrium ball charges.

### Rod mills

- **Vp Estimation** provides three different methods for determining the mill volumetric load (Vp).
- **Mill Power Draw** is used for determination of rod mill power draw characteristics.
- **Mill Critical Speed** can be used to quickly calculate the mill critical speed based on mill rpm and diameter.
- **Rod Sizing** makes use of Fred C. Bond's formula for determining the recommended diameter of rod added to the rod mill
- **Rod Weight** is a calculator used to determine the weights of individual and bundled rods.

### Unit converter

- A collection of easy to use unit conversion tools.

Access this technology at: <https://gmedia.elecmetal.com/>

