Why should I use JKSimBlast in my site?

You can save time making blast designs with JKSimBlast.
Yes, because with this tool you can design blasting patterns faster than traditional Autocad program. Also, options to import designs from Autocad R14, Datamine, Surpac, Vulcan and others to JKSimBlast through a Design Importer.

Blasting can be simulated.
You can visualize the blast in order to detect any anomaly in the design, including detonation sequence, kind and/or quantity of inappropriate explosives, wrong delays, bad hole tying, poor spatial distribution of blasting holes bad distribution, etc. Detonation sequence simulation performed with Montecarlo simulations. Also, JKSimBlast is able to generate time contouring, graphs or detonation lines, which allow visualizing if blast sequence is correct, followed by Burden relief analysis to know if delay is enough between decks.

Create graphs of explosive energy distribution.
You can detect those zones in blasting area with low or high explosives to control fragmentation. Controlling fragmentation creates economic benefits. JKSimBlast allows companies to develop a complete blasting design and analysis before and after it is executed, allowing optimization, mistake modification, improvement of safety conditions. The goal to make blasting be a more profitable activity.

Archive each one of your blasts in an organized system.
With BMS, you will be able to record every blast you realize, identifying the pattern you used, the design engineer, blasting location, results, suggested improvements for the next blast, etc. Also, with JKSimBlast you are able to interact with Split-Desktop® to get fragmentation through digital images. So, you will have feedback about the particle size distribution saved in the system. Similar situations in the future will be better addressed with this information available. Saving the site experience will avoid loss of valuable information due to staff rotation.

Understand ground vibrations
JKSimBlast shows graphically the zones inside the blasting area that will suffer a major quantity of damage due to the effect of the vibrations based on Holmberg and Persson models.

Obtain fragmentation estimation for the created design.
JKSimBlast has two models: Kuz-Ram and a new model developed by the Julius Kruttschnitt Mineral Research Center. Difference between the models is the JKMRC has improved the Kuz-Ram model with regard to fine size estimation.

Generate quick and simple reports.
JKSimBlast allows you to save time if you must prepare blasting reports. The software generates complete reports including prices, quantities of materials, blasting accessories, explosives used per day / month / year, etc.

Edit measurement units to adapt to your mine site
In order to adapt blasting to your site, you can change measurement units of any parameter involved.