



DISCRETE EVENT METHOD (DEM) SIMULATION





Discrete Event Method (DEM) Simulation is a tool that replicates a real or projected system to evaluate its behavior and performance under different operating conditions over time. By using these simulation tools, BRASS can model industrial processes to analyze various factors, such as how the system would perform under different production scenarios, increases in failure rates, changes in equipment availability, and many other variables.

The potentiality of Discrete Event Simulation

01

Analyzing system behavior allows you to simulate the entire process over time.

This software has been used to fully model systems such as a concentrate pipeline, extending from the head thickener to the filter plant at the port, and includes specific modeling of the positive displacement pump.

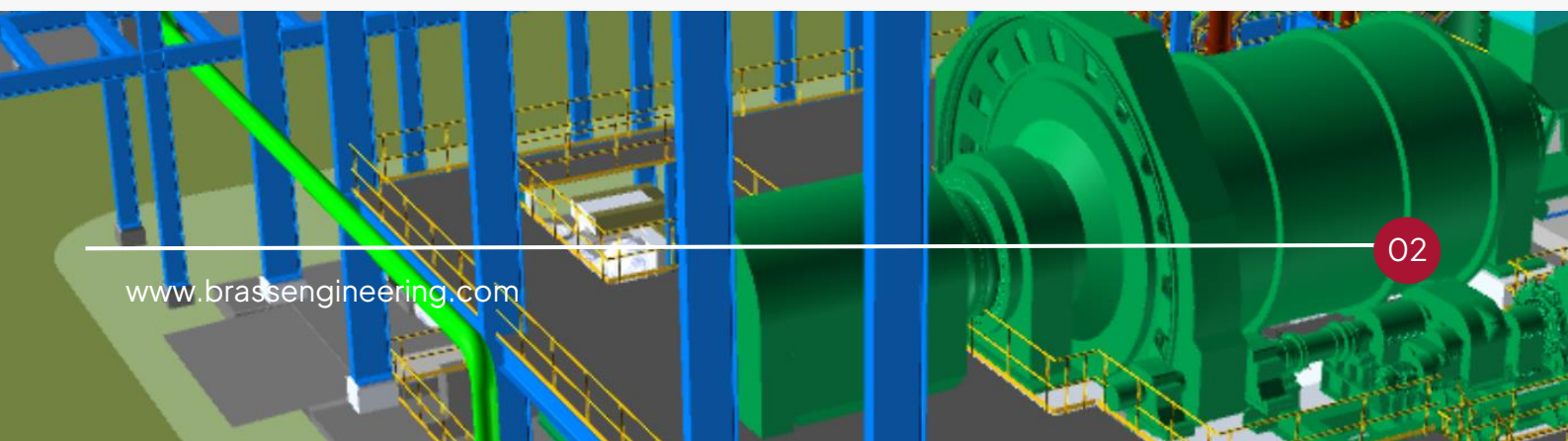
02

Provides accurate production estimates, allowing the customer to evaluate different operating processes to achieve production objectives.

The modeling results allow for the generation of loading and unloading cycles in three concentrate tanks (usable volume) over a year of operation, reflecting the concentrate flow within the system's defined operating range, including maintenance events at the stations.

03

System modeling makes it possible to identify restrictions and evaluate modifications, providing greater certainty and reliability. It is applicable to both new and existing designs.





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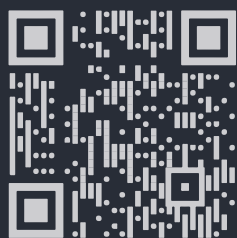
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