

# WHY SIMULATE YOUR FACTORY?

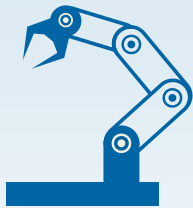
The need for efficiency in today's factories has never been greater with equipment and labor costs continuing to rise each year. Successful companies need to ensure that every aspect of their operation is being carefully considered and optimized. Factory simulation is an inexpensive, risk-free way to put your facility to the test, ensuring that you are meeting production goals and quality standards at the lowest possible cost.

 **GO GREEN INITIATIVES:** WAYS THAT SIMULATION MAY SUPPORT YOUR COMPANY'S CARBON FOOTPRINT REDUCTION GOALS

## PROCESS OPTIMIZATION



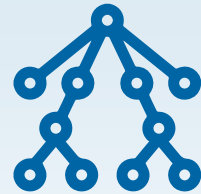
Simulations help optimize production processes by identifying bottlenecks, inefficiencies, and idle times. This leads to streamlined operations and better resource utilization, ultimately reducing costs.



## RESOURCE ALLOCATION



Simulations enable effective allocation of resources such as labor, machines and materials. Proper resource allocations reduces idle time, prevents overstaffing or underutilization, and optimizes resource costs.



## PREDICTIVE ANALYSIS

Simulations provide a platform to run "what-if" scenarios, allowing businesses to anticipate outcomes and make informed decisions without the expense of implementing changes in the real production environment.



## ERROR REDUCTION

By identifying and rectifying potential errors in the design or processes through simulation, the costs associated with fixing errors during actual production are significantly reduced.



## REDUCED DOWNTIME

Simulations aid in proactive maintenance planning, which minimizes unexpected breakdowns and reduces unplanned downtime. This directly impacts production efficiency and revenue generations.



## WASTE REDUCTION



Simulation can implement lean manufacturing principles, thereby designing efficient process flows, improving work ergonomics, minimizing waste, and reducing non-production time that all contribute to a more sustainable and streamlined operation.



## ENERGY EFFICIENCY



Simulations can model energy usage within a factory, allowing for analysis and optimization to reduce energy consumption, resulting in lower utility costs.



## CAPITAL INVESTMENT DECISIONS

By simulating the effects of different capital investments, companies can make informed decisions regarding facility upgrades or expansions, ensuring the investment is justified and cost-effective.

