



DIGITAL PROCESS CHAIN

Digital twin & Simulation

BACKGROUND

The development of complex components and processes requires a deep understanding of the underlying relationships. Physical tests alone are often time-consuming and costly. Digital twins make it possible to create virtual representations of real systems and analyze their behavior even before manufacturing or during operation.

ADDED VALUE

- Virtual Validation of Processes
- Reduction of Development Risks
- Optimization Prior to Actual Production
- Continuous Improvement Through Data
- Foundation for Automated Systems

TECHNOLOGY

At chesco, digital twins for manufacturing processes and components are being developed. This involves combining real-world data from machines, sensors, and tests with simulation models. This enables a realistic representation of processes as well as the analysis and optimization of parameters. The models can be continuously updated and serve as the basis for data-driven decisions.

