



Business-friendly Solutions

# CAD Design Automation for Leading Elevator Manufacturer (EU)

Case  
Study



## Business Challenges

- ❖ Difficulty in efficiently generating 2D CAD drawings for numerous elevator product configurations.
- ❖ Absence of standardized templates led to inconsistent placement and generation of drawing views.
- ❖ Manual updates made it challenging to maintain dimensional accuracy across different views.
- ❖ Inefficiencies in organizing and managing configurations led to increased design cycle time and potential errors.

## Proposed Solution

- ❖ Implemented a robust CAD automation solution using Creo Pro/Program for automated drawing generation and configuration handling.
- ❖ Developed automated tools for loading assembly configurations and generating drawings and PDFs with minimal intervention.
- ❖ Integrated CAD environment with a web-based input interface to allow quick configuration selection and data entry.
- ❖ Introduced validation mechanisms to ensure generated CAD data met design rules and configuration requirements.
- ❖ Enabled automated linkage between assembly variants and output formats for streamlined model and drawing updates.

## Business Benefits

- ❖ Accelerated the generation of drawings and PDFs for varied configurations, reducing lead time by 46%.
- ❖ Automation reduced manual input, reducing operational and engineering costs.
- ❖ Built-in validation ensured drawing accuracy and compliance with internal and regulatory standards.
- ❖ Facilitated quick and accurate design updates for new or modified configurations.
- ❖ Enabled standardized design practices across distributed engineering teams through integrated digital workflows.

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