



**A LEADING GERMAN ELEVATOR
COMPONENT SUPPLIER HARMONIZED
ENGINEERING DRAWINGS WITH
TRUCAP+ AND TRUBOT TO IMPROVE
TURNAROUND TIME BY 40%**

ABOUT CLIENT:

The customer is a leading German company specializing in the supply of elevator components and systems. Their products are widely used across various industries and projects, ranging from commercial buildings to residential complexes. The company is renowned for its commitment to precision engineering and innovative solutions.

INDUSTRY:

Manufacturing and Engineering

REGION:

Germany

EMPLOYEES:

4,500

REVENUE:

\$5 Billion

BUSINESS NEED:

The customer sought to streamline their engineering processes by harmonizing data extracted from engineering drawings, initially created in A0, A1, A2, and A3 page formats. The objective was to consolidate this data into a unified format or source, ensuring consistency and quick accessibility for future reference.

This project aimed to enhance operational efficiency, reduce turnaround time (TAT), and provide highly accurate outcomes. After extraction, the data was moved to a database, where one can search for the part number and get the details of the part.

BUSINESS CHALLENGES

01

Data consistency issues:

The client faced challenges in consolidating engineering drawings that varied in the page layouts and formats (for example: A0, A1, A2, A3). This created inconsistencies and inefficiencies in data extraction, storage, collaboration, and exchange.

02

Manual processing bottlenecks:

Extracting data such as Bill of Materials (BOM) tables, dimension tables, and other engineering details from drawings was time-consuming and error-prone.

03

Lack of standardization:

The engineering data drawings were scattered and lacked a standard format, making it challenging to maintain a centralized repository for quick and accurate reference.

04

Turnaround time (TAT) delays:

The manual extraction and validation processes significantly increased the TAT, affecting project timelines and delivery schedules.

DATAMATICS SOLUTION

Implementation of TruCap+ and TruBot:

Datamatics deployed TruCap+ and TruBot solutions for the customer to automate data extraction from engineering drawings. These tools were configured to extract specific data, including:

- Bill-of-Material (BoM) tables
- Dimension tables
- Generic information and attributes
- Detailed dimensional and BoM data

Centralized database integration:

As part of the solution offered, Datamatics consolidated the extracted data into a centralized database for uniform access and future reference to ensure data standardization and enhanced accuracy.

Auto-validation:

The solution used cognitive automation to validate the extracted data and reduce manual errors significantly.

Scalability and flexibility:

The solution was scalable to accommodate increasing volumes of engineering drawings and adapt to new requirements as the customer's operations expanded.

BUSINESS IMPACTS

High Accuracy:

Data extraction achieved an accuracy rate of 99.5%, reducing errors in engineering calculations and designs



Reduction in Turnaround Time (TAT):

The automated process reduced TAT by 40%, enabling faster project completion



Standardized Data:

All engineering data was extracted and stored in a uniform, standardized format, improving accessibility and usability



Cost Savings:

By eliminating manual processes, the customer achieved a 25% reduction in operational costs



Enhanced Productivity:

Automation streamlined processes, boosting overall productivity



Improved Decision-Making:

The availability of accurate and consolidated data enabled more informed and timely decisions



ABOUT **DATAMATICS**

Datamatics enables enterprises to go Deep in Digital to boost their productivity, customer experience, and competitive advantage. Datamatics' portfolio spans across three pillars of Digital Technologies, Digital Operations, and Digital Experiences. It has established products in Intelligent Document Processing, Robotic Process Automation, AI/ML models, Smart Workflows, Business Intelligence, and Automatic Fare Collection.

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