Quality Digitization - Success Study of a Globally Trusted Aerospace Partner!

Overview

The customer's REACH project ensures compliance with REACH regulations for parts and assemblies. The customer provides assembly numbers for analysis. Offshore teams gather BOMs and part drawings, which associates review to extract material, finish, and special process details. They then assess each part's REACH compliance.

Challenge

The current process requires manual entry into the customer delivery template, leading to labor-intensive tasks and errors. Repetitive parts in sub-assemblies increase the risk of inconsistency. This results in lower quality deliverables and longer execution times. The leadership team seeks an automation solution to streamline the process, improve quality, and reduce execution time.

Solution

The automation team introduced a UI tool that extracts part information from PDFs, TIF, and JPEG files using OCR and NLP. Users can select materials, finishes, and special processes, and the tool automatically populates this data into the customer delivery template, streamlining the process and reducing errors.
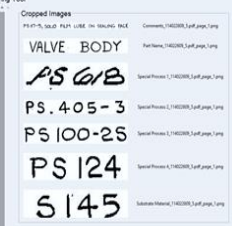
Benefit

- The **quality** of deliverables improves by **90%** due to reduced manual errors

- **Processing time** for REACH analysis decreases significantly, leading to faster delivery of customer templates

- Improved process efficiencies allow the team to analyze more drawing files, increasing overall productivity