

Drawing Match AI

Geometry Based Intelligence For Multiple PLM Systems

Drawing Match AI is an intelligent search and comparison solution that scans engineering drawings across multiple PLM systems using geometry-based matching to identify similar designs in components and assemblies, with a built-in chatbot to assist part interchangeability and enhance Engineering Change Management (ECM)



Business Opportunity

- Comparing components and assemblies across multiple PLM systems.
- Comparison reports based on geometry material, weight across multiple PLM.
- Enhancing component interchangeability and reusability.



Value

- Eliminates manual effort in identifying matching and distinct components
- Increase in component interchangeability
- Improves engineering change management by providing inventory visibility by assembly with components across the Plants



Solution Package

Uses advanced AI/ML algorithms to compare engineering drawings

AI-Powered Part Matching & Comparison

Live inventory insights with Ad Hoc reports on change impact analysis for smarter decisions.

Gen AI-Powered Data Insights

PLM Integration & Multi-Vault Scanning

Connects with multiple PLM repositories and compare component data from various Engineering Drawing Vaults

Improves Part Interchangeability

Empowers smarter part reuse by leveraging insights to use inventory efficiently



Beneficial Persona

Return on Investment

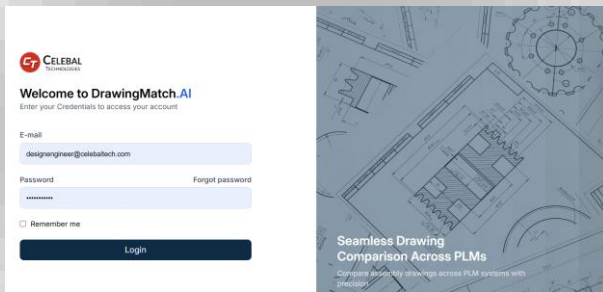
- 30% to 35% boost in engineering productivity
- Up to 80% reduction in drawing search time across different PLM system

~ 20 -24 Weeks

Timeline



Solution Snapshots



Technology Used



ADLS Gen 2



Azure Form Recognizer



Azure Search



Azure Open AI

