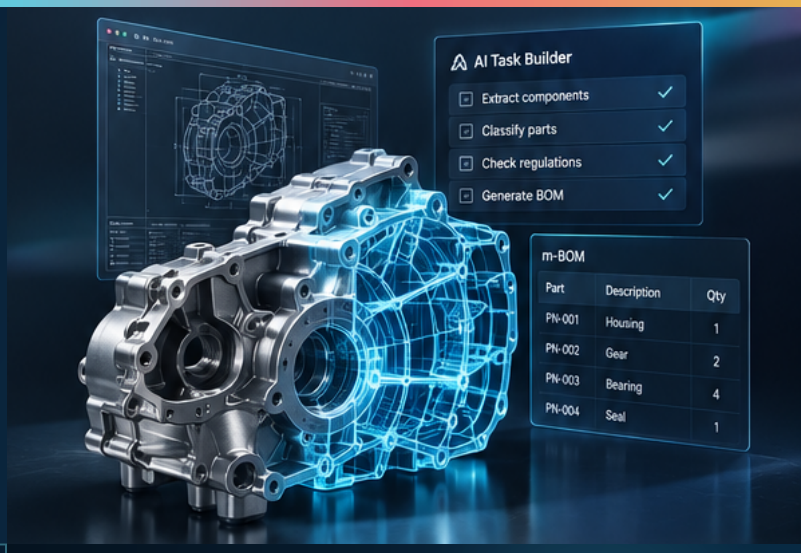
CADBOX / DRAWING INTELLIGENCE

FROM DRAWINGS TO DECISIONS.

Reads, verifies and blocks non-conforming 2D technical drawings before wrong tolerances, missing dimensions or 3D-model inconsistencies become a production problem.

DWG · DXF · PDF → STRUCTURED ENGINEERING DATA



THE PRODUCT

Automated drawing verification — built for real engineering workflows.

Drawing Intelligence extracts engineering information from technical drawings and applies consistent checks across dimensions, tolerances, title blocks and 3D-model alignment — without replacing engineering judgment.

90%
automation reported on e-BOM → m-BOM use case

< 1 min
reported processing time for ~3,000 rows

85 h
CADBOX welding support saved / month

~6 mo
typical ROI stated for AIENG deployments

01 / READ

Native drawing parsing

Extract dimensions, tolerances, notes and title-block data into structured information.

- Vector and scanned PDFs (OCR)
- DWG · DXF · PDF

02 / VERIFY

Engineering consistency checks

Find missing, duplicate or ambiguous dimensions and compare dimensional / geometric tolerances against the 3D model.

- GD&T vs 3D
- Revision & title block alignment

03 / INTEGRATE

Fits existing PLM processes

Connect to the systems of record without changing the existing release process.

- Teamcenter · Windchill · ENOVIA
- NX · CATIA · Creo · Inventor

AIENG FRAMEWORK

Foundation Layer + Use Case Layer

FOUNDATION LAYER — data · models · connectors · security

USE CASE LAYER — up to 3 use cases

- **XAI BOX** — explainable AI
- **ARGOS** — search · analyse · recommend
- **CADBOX** — drawing interpretation
- **AI TASK BUILDER** — engineering actions
- **CTDL / DCF** — technical data
- **MODEL AGNOSTIC** — open AI stack

PROVEN RESULTS

Examples from production use cases.

90%	e-BOM → m-BOM automation ~3,000 rows · <1 min · saves 4 FTE-model
90%	Export-control classification €750 → €45 / SKU
90%	Component classification accuracy
35%	Reusable-design identification increase
~50	engineers in CAF vs Stadler comparison

CONNECTORS · **CAD** NX · CATIA/3DEXPERIENCE · Creo · Autodesk → **PLM** Teamcenter · 3DEXPERIENCE · Windchill → **REQ** DOORS · Jira → **ERP** SAP · Ariba · Other enterprise sourc

AUTOMOTIVE · AEROSPACE · DEFENSE · NAVAL · SPACE · EPC
PRIVATE AI · RBAC · AD · AUDIT · GPU / HPC

www.aieng.ai

REQUEST A DEMO →