

Renechip

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www.renechip.com

Engineering Services & AI-Powered Solutions



ENGINEERING PRECISION. DELIVERED.



✓ **500+**
PROJECTS DELIVERED

✓ **5+**
YEARS EXPERIENCE

✓ **72H**
ENGINEER DEPLOYMENT

✓ **15D**
AVG TURN AROUND

✓ **100%**
CLIENT SUPPORT

✓ **50+**
DESIGN ENGINEERS

✓ **100%**
QUALITY CHECK

Who We Are

India's Premier Engineering Delivery Partner

Renechip is a specialist engineering services firm combining AI-powered automation with senior human engineering oversight. We serve GCC contractors, consultants, EPC companies, and developers across the full project lifecycle – from structural detailing and rebar scheduling to BIM coordination, piping design, and engineering staffing.

Our India-based delivery centres operate on GCC project timelines, enabling faster execution without compromising on quality or compliance.

AI-Powered Rebar Scheduling, Structural Detailing & Engineering Staffing for GCC Projects. Built for contractors, EPC firms, and developers who demand speed, accuracy, and cost efficiency.



Our Services

RENECAD

RENECAD is an AI-powered CAD automation solution that generates accurate structural reinforcement drawings from JSON data while ensuring full Saudi Building Code (SBC) compliance.

Key Benefits

Up to 90% Faster

Auto Drawing

SBC Compliant

RENE-BM

RENE-BM transforms PDF and CATIA drawings into an accurate, consolidated Excel BOM—automatically and in minutes.

Deliverables

PDF to Excel

Auto BOM

Error-Free

RENETEMP-V5

RENETEMP-V5 automates CATIA V5 drawing template creation and title block generation for faster, error-free documentation.

Deliverables

Auto Templates

95% Faster

CATIA Ready

Design Engineer Staffing

Rapid deployment of GCC experienced engineers on contract, permanent, or project-team basis. 72-hour mobilisation.

Deliverables

Contract

Permanent

Offshore Desk

Rebar Detailing & Scheduling

RC and steel rebar shop drawings, BBS, and AI-driven scheduling for accurate, on-time site delivery — covering foundations, columns, and beams.

Deliverables

Shop Drawings

BBS

Auto Schedule

Mechanical Design Engineering

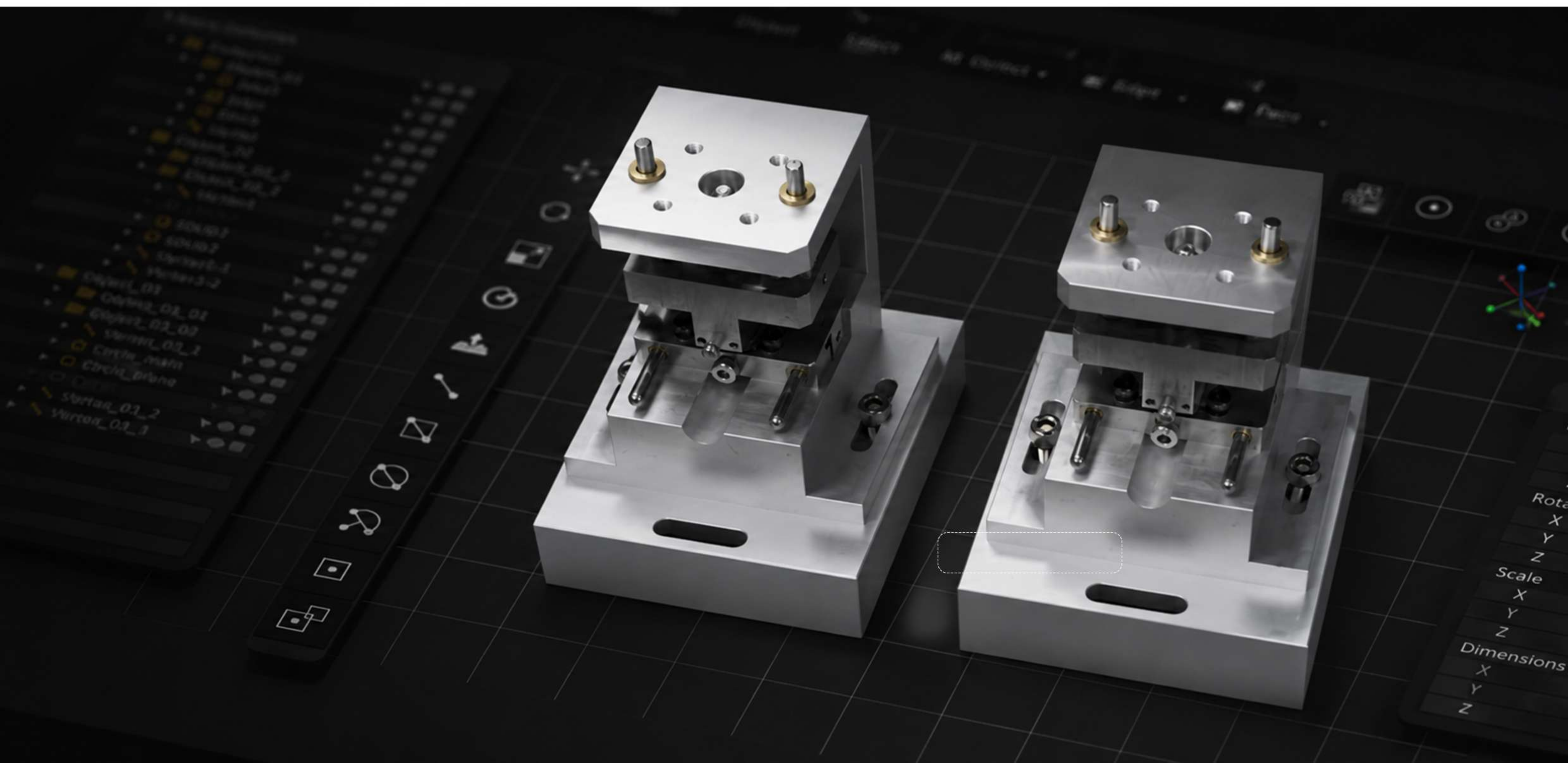
End-to-end mechanical design support — 3D modelling, GA drawings, jigs & fixtures, and FEA-ready documentation for rail, automotive, and industrial clients.

Deliverables

3D Modelling

GA Drawings

FEA Ready



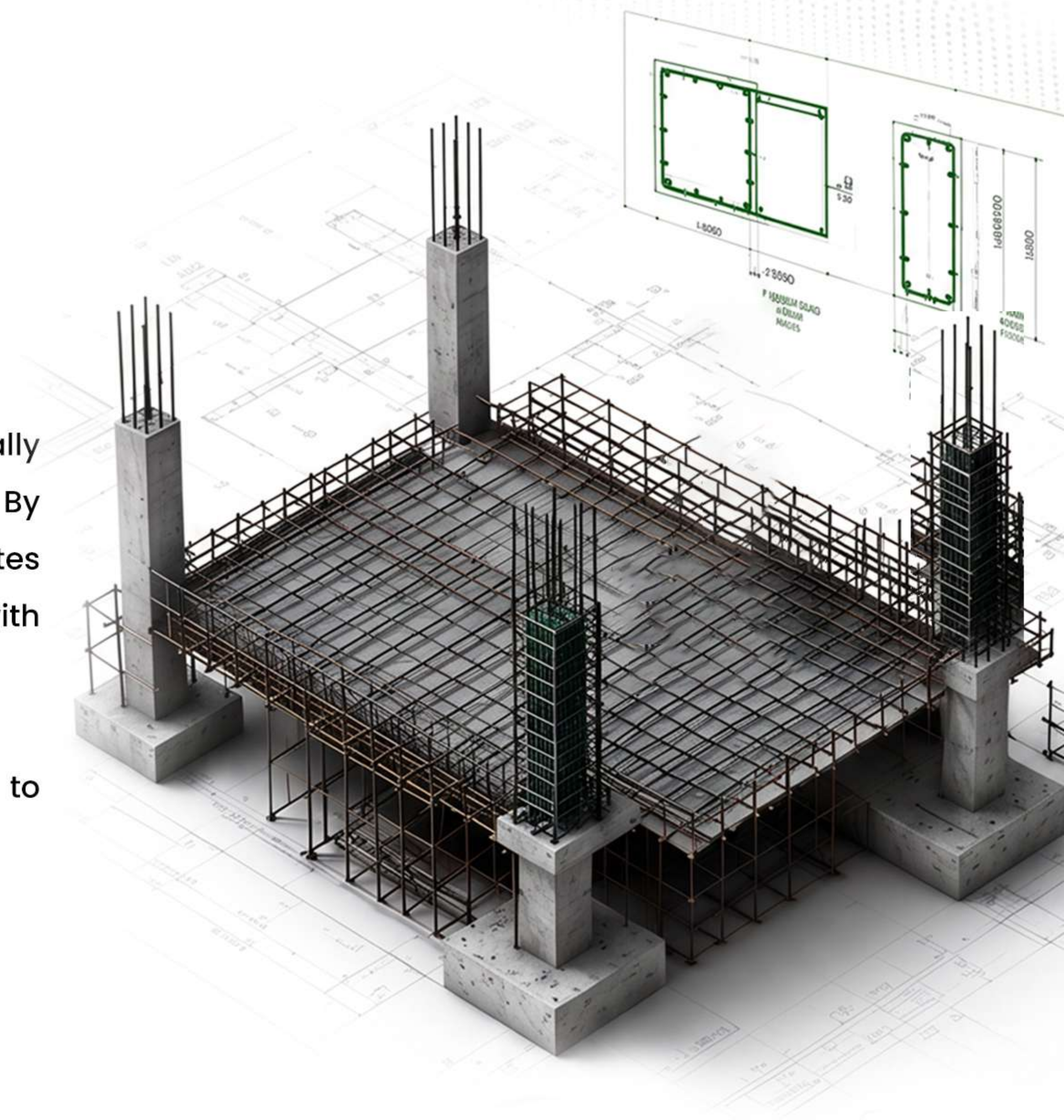
RENECAD

AI-Powered Structural Drawing Automation

Input. Generate. Deliver.

RENECAD is an intelligent CAD automation agent that automatically generates structural reinforcement drawings from JSON input data. By reading reinforcement bar values and structural parameters, it creates accurate engineering drawings while ensuring full compliance with Saudi Building Code (SBC) standards.

RENECAD eliminates repetitive drafting tasks, enabling engineers to produce high-quality structural drawings in a fraction of the time.



Key Features



JSON-Based Data Processing

Reads reinforcement bar data and structural parameters directly from JSON files.



SBC-Compliant Detailing

Generates drawings following Saudi Building Code (SBC) requirements and drafting standards.



Automatic Structural Drawing Generation

Creates reinforcement drawings for structural elements automatically.



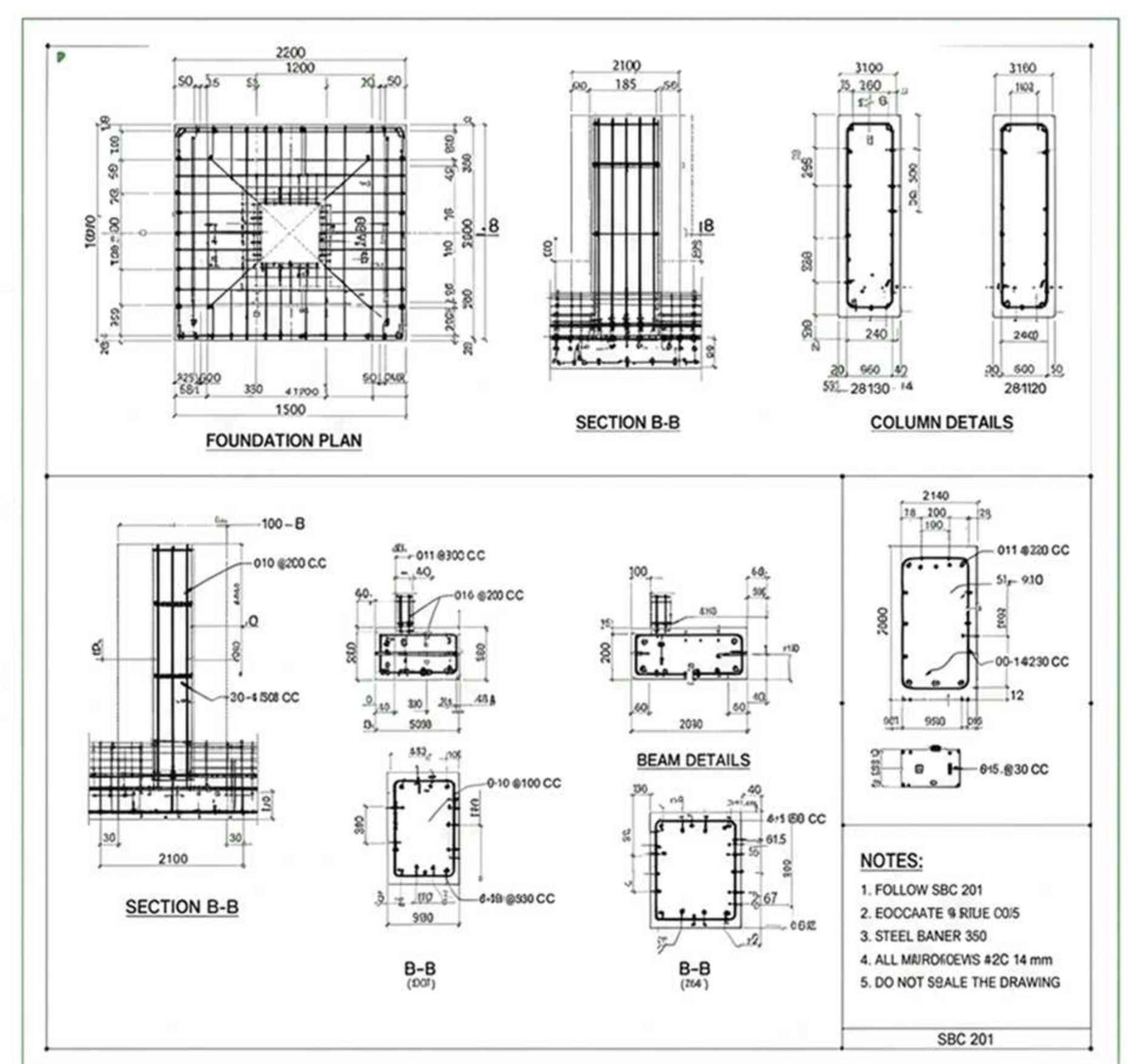
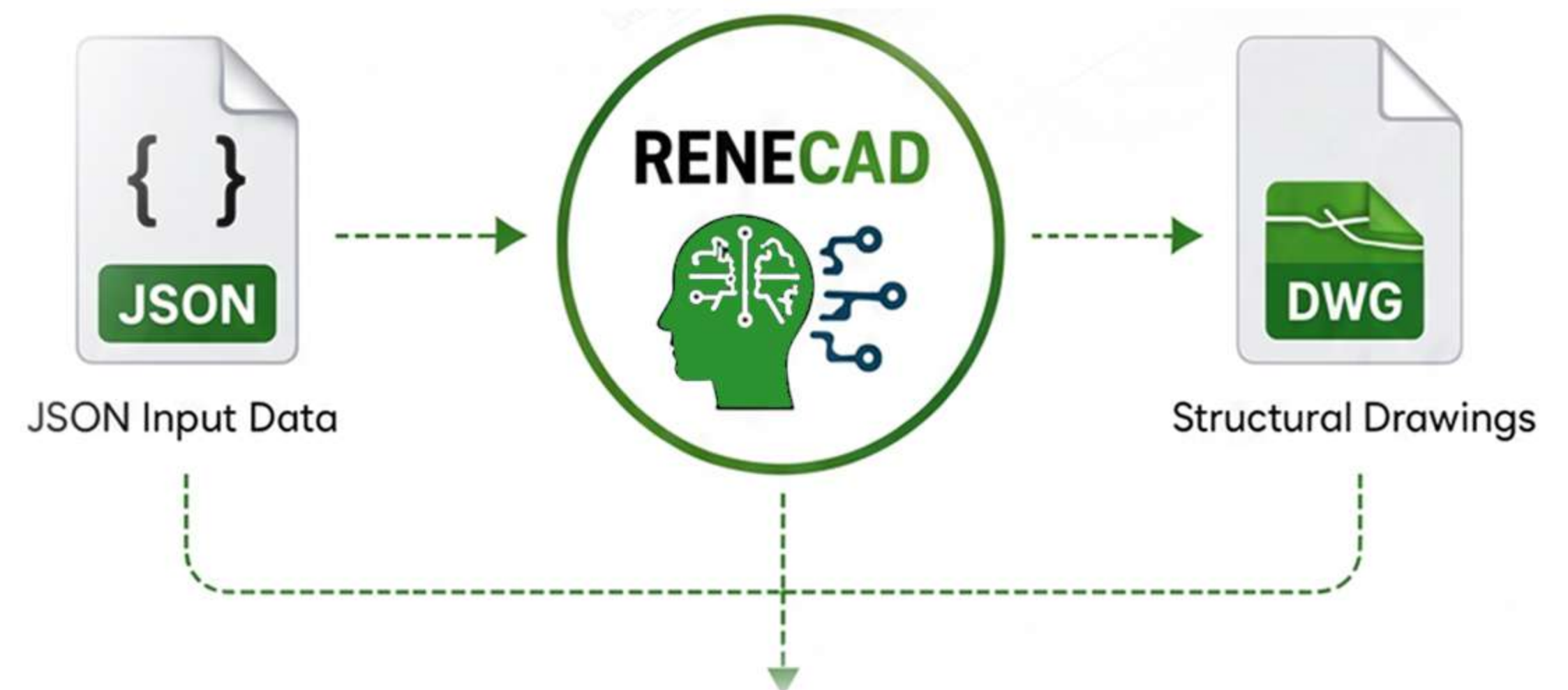
Intelligent Reinforcement Placement

Automatically places reinforcement bars, labels, dimensions, and annotations with precision.



Standardized Engineering Drawings

Produces consistent, professional-quality structural drawings across all projects.



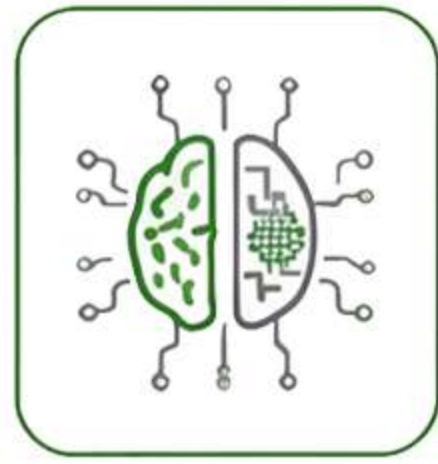
15-20
minutes of data
generation

How It Works



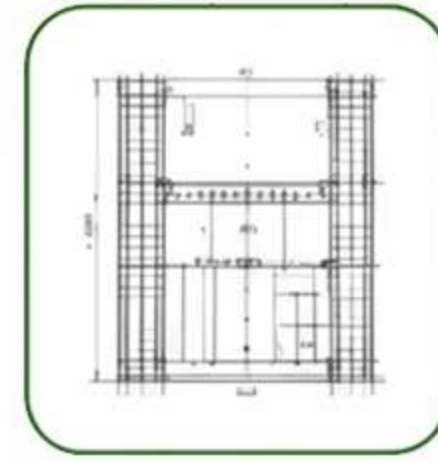
1 Import

Import the structural **JSON** file containing reinforcement data.



2 Read

RENECAD reads bar values and structural parameters.



3 Generate

The AI agent automatically generates structural reinforcement drawings.



4 Deliver

Receive fully detailed, SBC-compliant engineering drawings ready for review and construction.

Benefits

Save up to 90% of structural drafting time.

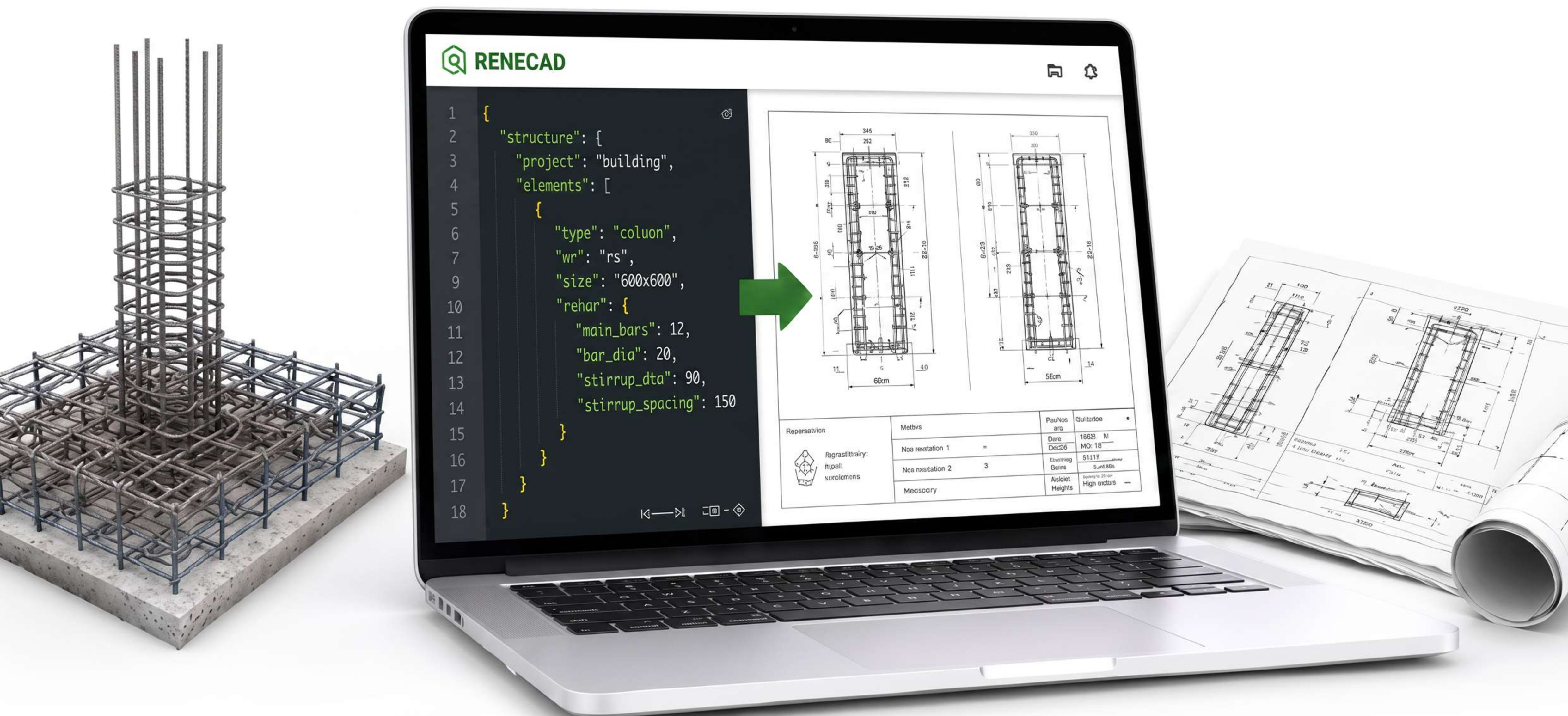
Automate the generation of accurate reinforcement drawings.

Ensure compliance with Saudi Building Code (SBC).

Reduce drafting errors and inconsistencies.

Enable higher engineering productivity.

Improve project delivery timelines.



RENE-BM

Intelligent Bill of Materials (BOM) Automation

Extract. Consolidate. Excel.

Transform hundreds of engineering drawings into a single, accurate Master Excel BOM in minutes.

RENE-BM automatically extracts Bill of Materials (BOM) data from PDF and CATIA (.CATDrawing)* files, intelligently consolidates duplicate parts, updates quantities, and generates a clean, standardized Excel report—eliminating hours of manual work.

BILL OF MATERIALS			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	12345-001	BODY	1
2	12345-002	COVER	1
3	12345-003	SHAFT	1
4	12345-004	IMPELLER	1
5	12345-005	SEAL	1
6	12345-006	BEARING	2
7	12345-007	O-RING	2
8	12345-008	BOLT	6
9	12345-009	NUT	6
10	12345-010	WASHER	6



Key Features



Multi-Format Extraction

Extract BOM data directly from PDF and CATIA (.CATDrawing) files.



Batch Processing

Process hundreds of engineering drawings in a single operation.



Smart Part Consolidation

Automatically identifies identical parts and combines their quantities into one master entry.



Automatic Excel Generation

Creates a structured Master Excel BOM ready for procurement, planning, and manufacturing.



High Accuracy

Reduces manual errors and ensures consistent BOM documentation.



PDF



CATIA (.CATDrawing)



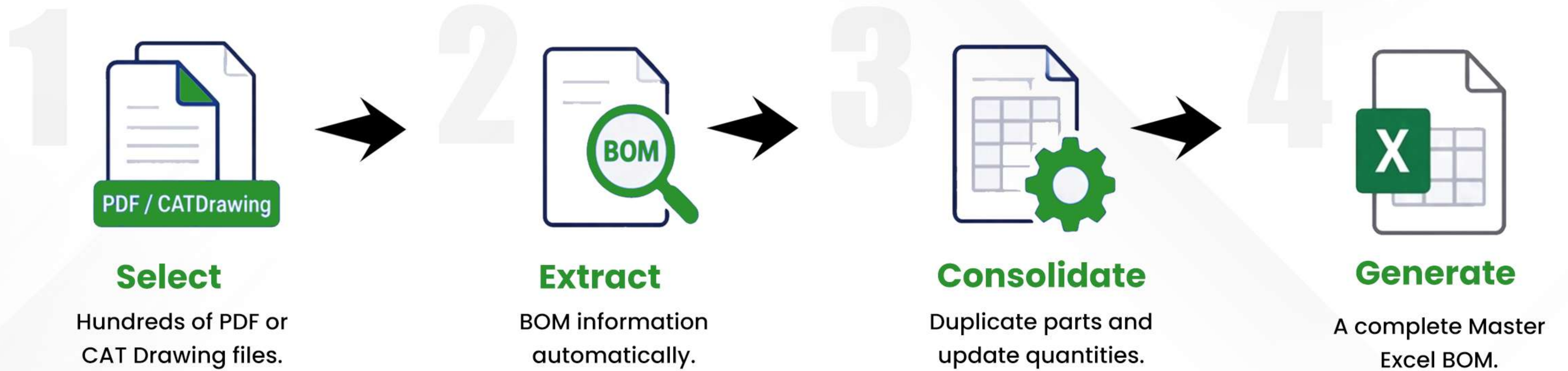
RENE-BM



Master Excel BOM

MASTER EXCEL BOM					
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	UNIT	REMARKS
1	12345-001	BODY	3	NOS	
2	12345-002	COVER	3	NOS	
3	12345-003	SHAFT	3	NOS	
4	12345-004	IMPELLER	3	NOS	
5	12345-005	SEAL	3	NOS	
6	12345-006	BEARING	6	NOS	
7	12345-007	O-RING	6	NOS	
8	12345-008	BOLT	18	NOS	
9	12345-009	NUT	18	NOS	
10	12345-010	WASHER	18	NOS	

How It Works



Benefits

Save up to 95% of BOM preparation time.

Generate one Master Excel from hundreds of drawings.

Eliminate duplicate part entries automatically.

Improve BOM accuracy and consistency.

Accelerate procurement and production workflows.

Increase engineering productivity.



RENETEMP-V5

CATIA Drawing Template & Title Block Automation

Generate Complete CATIA Drawing Templates in Seconds

RENETEMP-V5 is an intelligent automation solution that seamlessly integrates with CATIA V5 to automatically generate standardized drawing templates directly within the CATIA workspace.

Simply enter your project information once, and RENETEMP-V5 creates a ready-to-use drawing sheet with a fully populated title block-eliminating repetitive drafting and manual data entry..



Key Features

Native CATIA V5 Integration
Works directly inside the CATIA V5 workspace without interrupting your design workflow.

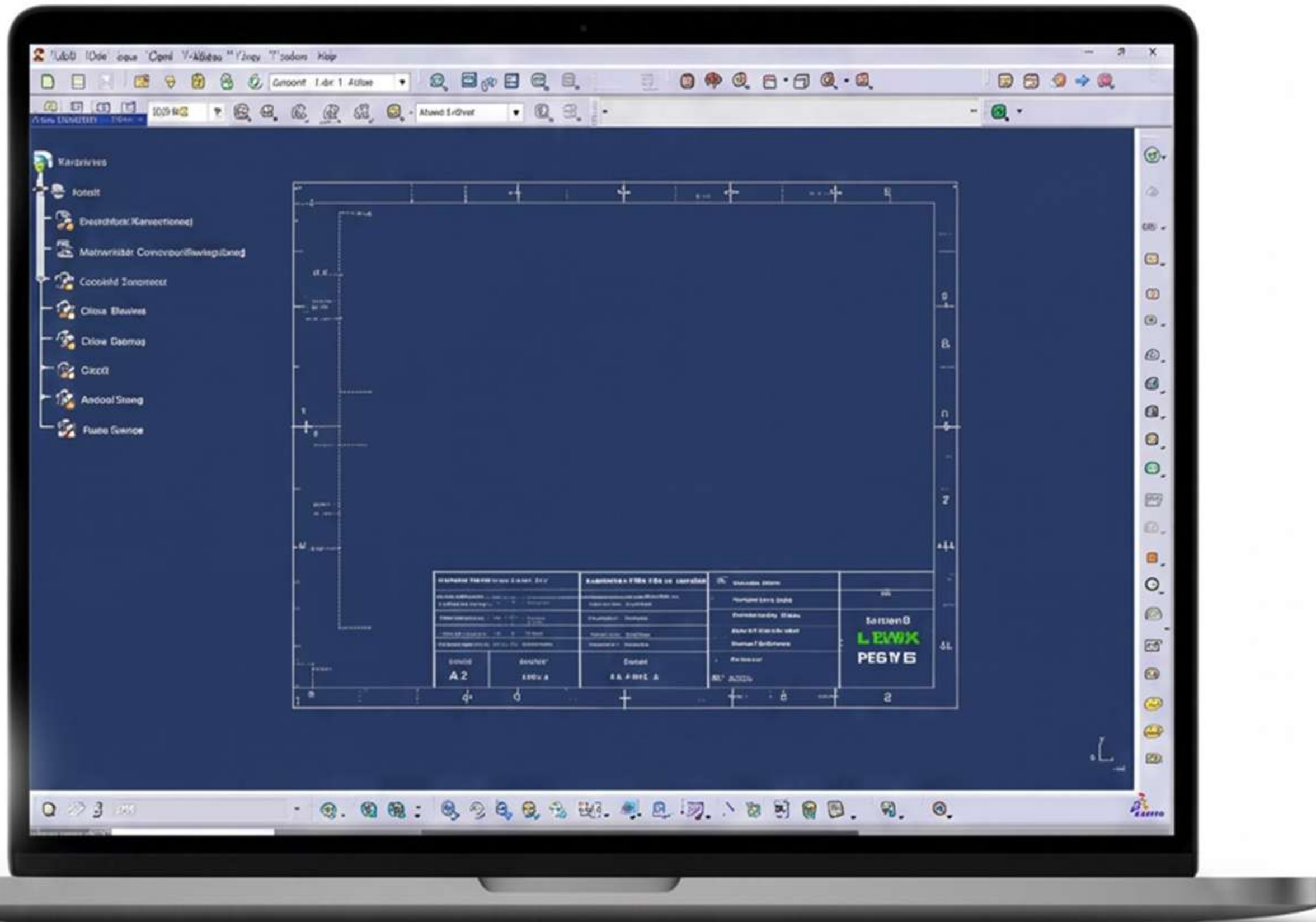
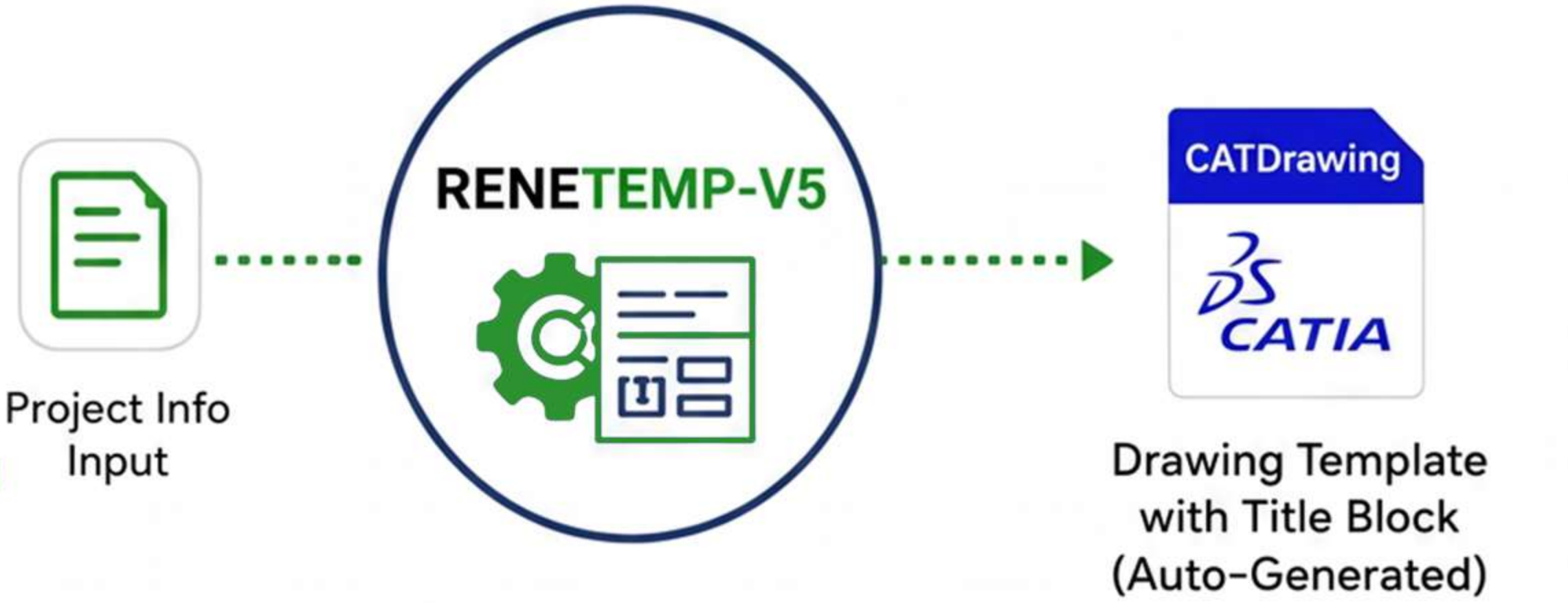
Automatic Drawing Sheet Creation
Creates engineering drawing sheets instantly using predefined company standards.

Intelligent Title Block Generation
Automatically generates and populates title blocks with project and engineering information.

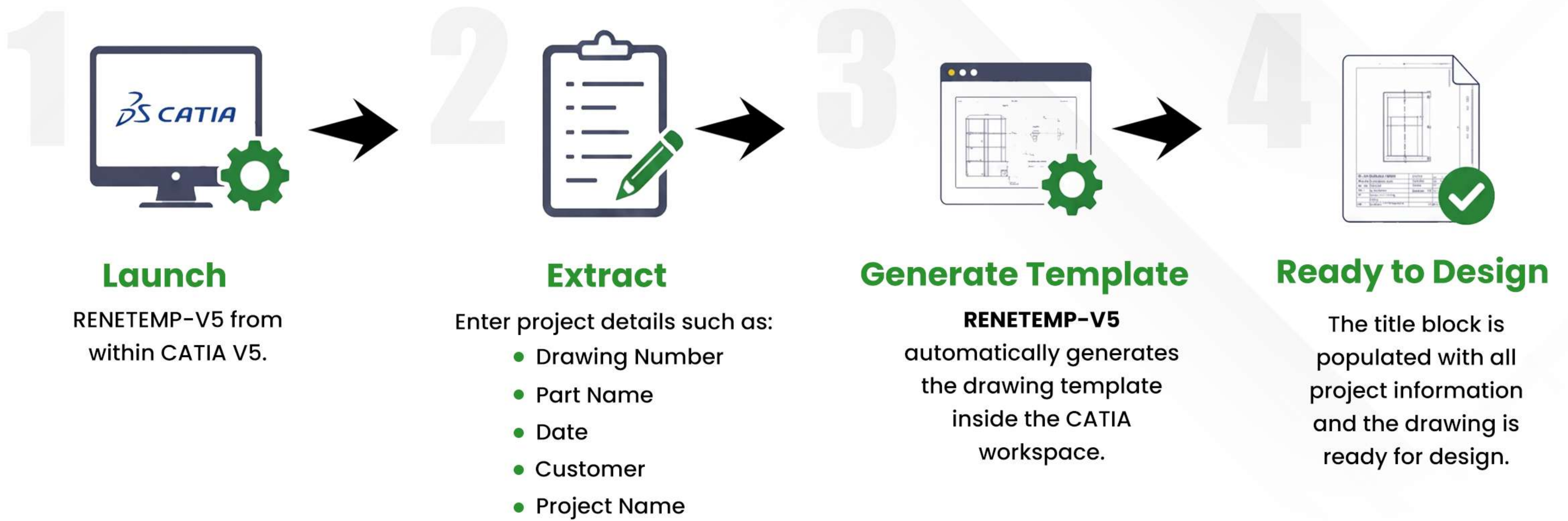
One-Time Data Entry
Enter project details once and let RENETEMP-V5 fill every required field automatically.

Company Standard Templates
Supports customized title block layouts, company logos, drawing standards, and documentation formats.

RENETEMP-V5				
PROJECT TITLE : HYDRAOLIC PUMP ASSEMBLY		DRAWN BY	RAJESH	
DRAWING TITLE : MAIN HOUSING		CHECKED BY	KARTHIK	
DRAWING NO. : HP-ASM-4001		APPROVED BY	S. ARUN	
SIZE	SCALE	SHEET	DATE	25-05-2025
A3	1:1	1 OF 1	KEU	A



How It Works



Benefits

Reduce drawing setup time by up to 95%.

Eliminate manual title block drafting.

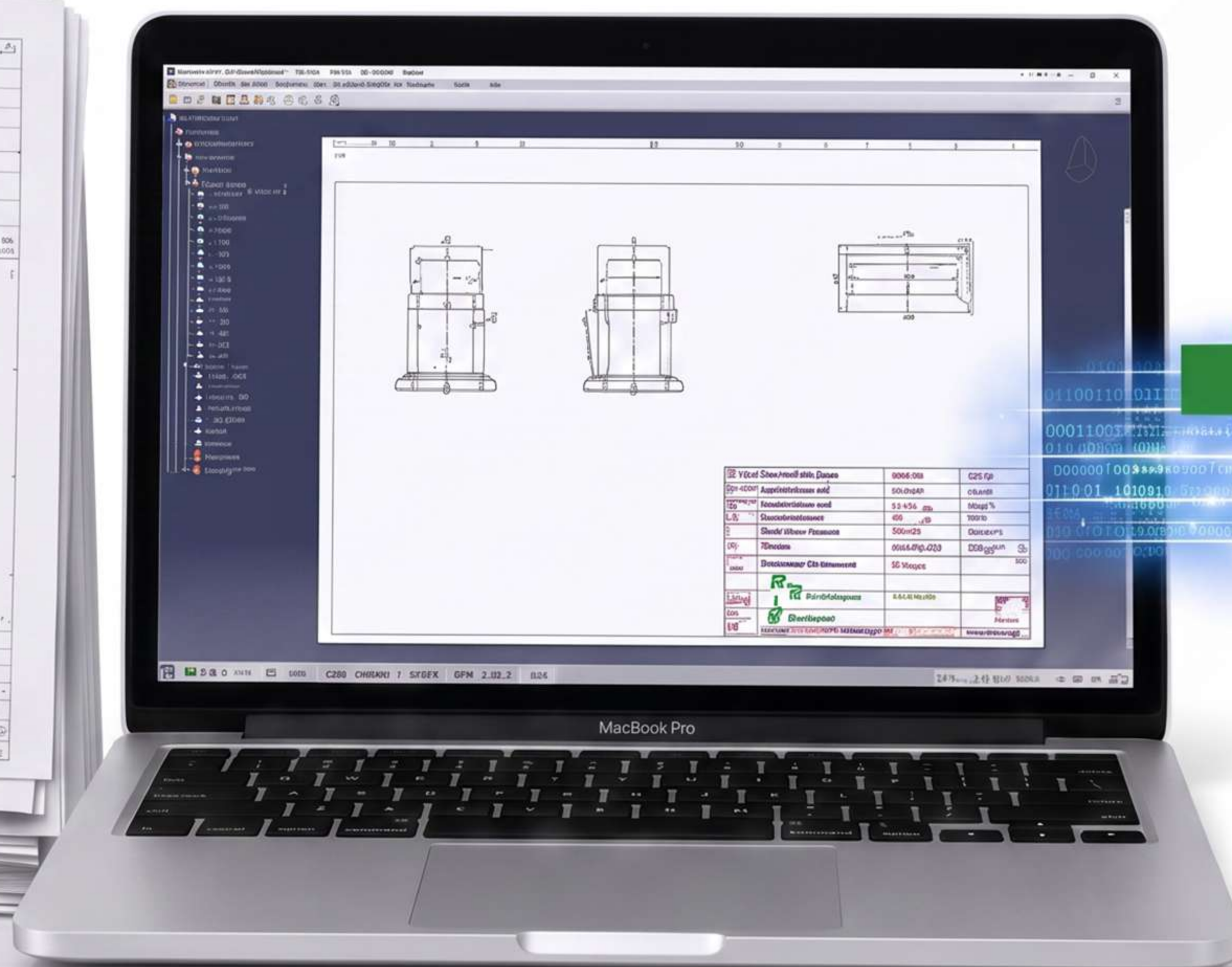
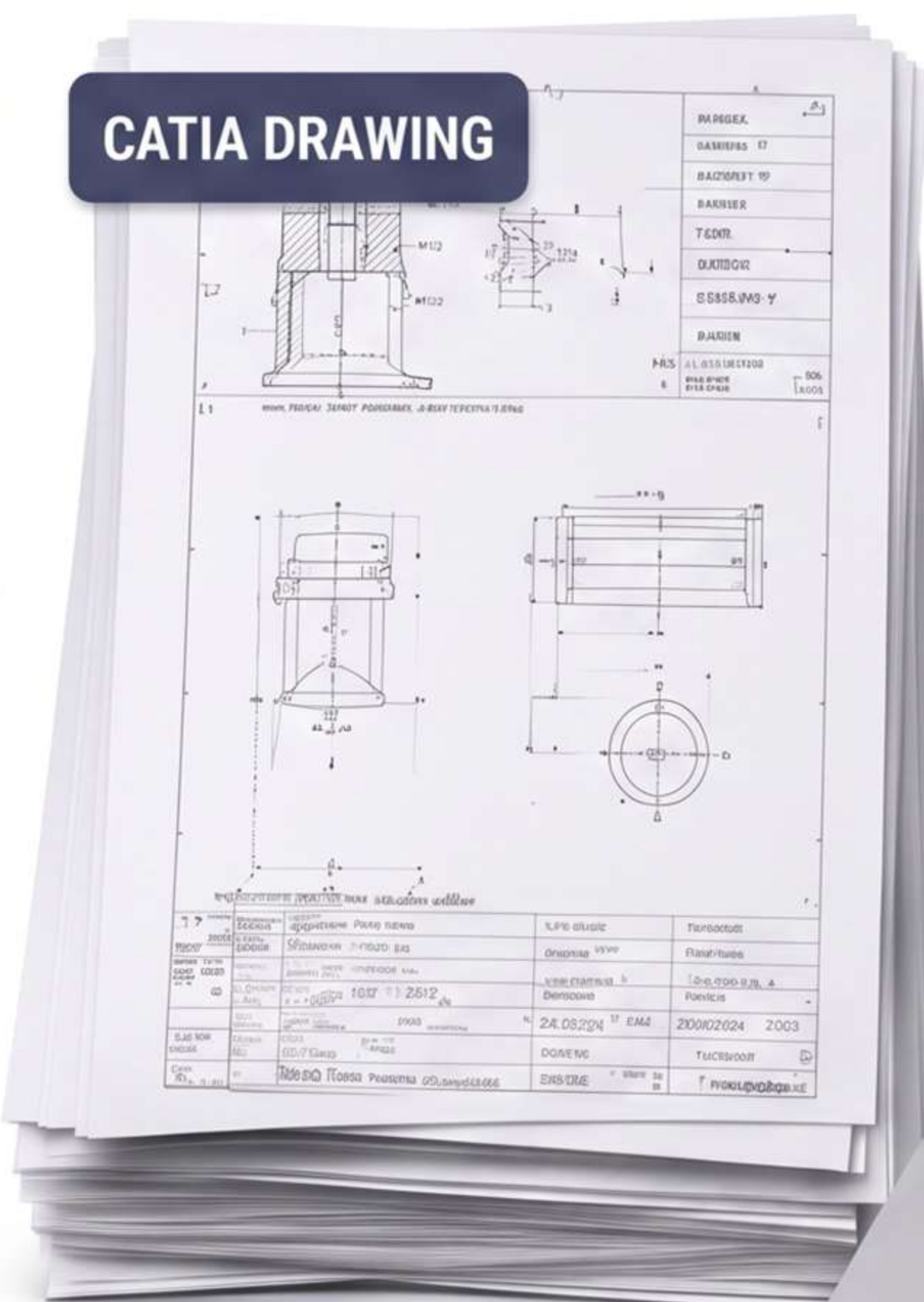
Accelerate engineering documentation.

Standardize every drawing across your organization.

Increase design engineer productivity.

Ensure consistent and professional documentation.

CATIA DRAWING



AUTOMATIC TITLE BLOCK

Drawing Number	RT-2024-1001
Part Name	FLANGE ADAPTER
Date	24/03/2024
Customer	ABC ENGINEERING
Project Name	PLANT UPGRADE

 **RENETEMP-VS**

Engagement Models

Contract
Staffing

Permanent
Placement

Project
Teams

Offshore
Engineering Desk

Why Choose Us

The Renechip Advantage



AI-Enhanced Speed

60% faster rebar processing. AI automation eliminates manual extraction bottlenecks without sacrificing accuracy.



Human Engineering Oversight

Every AI output is reviewed and certified by senior engineers. Technology accelerates; expertise validates.



GCC-Ready Professionals

All engineers are experienced in Gulf project codes, client standards, and contractor documentation requirements.



Significant Cost Advantage

India-based delivery at 40–60% lower cost than in-country engineering, with zero compromise on output quality.



Data Security & Confidentiality

ISO-aligned data handling, encrypted file transfer, and NDA-backed project confidentiality as standard.



Multi-Disciplinary Capability

Structural, civil, MEP, piping, and BIM under one roof – reducing vendor fragmentation across your project.

Industries Served

Commercial Buildings

Residential Towers

Automobile Industries

Infrastructure

Industrial Plants

Energy & Utilities

Oil & Gas

Our Trusted Clients

At Renechip, we believe strong partnerships are the foundation of delivering exceptional engineering and digital solutions. We collaborate with trusted technology and industry partners who share our commitment to innovation, quality, and operational excellence.

These strategic alliances enable Renechip to combine deep engineering expertise with advanced digital capabilities, helping clients design smarter systems, optimize operations, and scale with confidence. Together with our partners, Renechip delivers reliable, future-ready solutions that drive sustainable growth across global manufacturing and infrastructure industries.

digisAilor

CYIENT

Jeya

vero
spaces



Sundaram Ammal
Foundation

ALBON
METALS & RECYCLING



MERA KI
STRUCTURE

ALSTOM



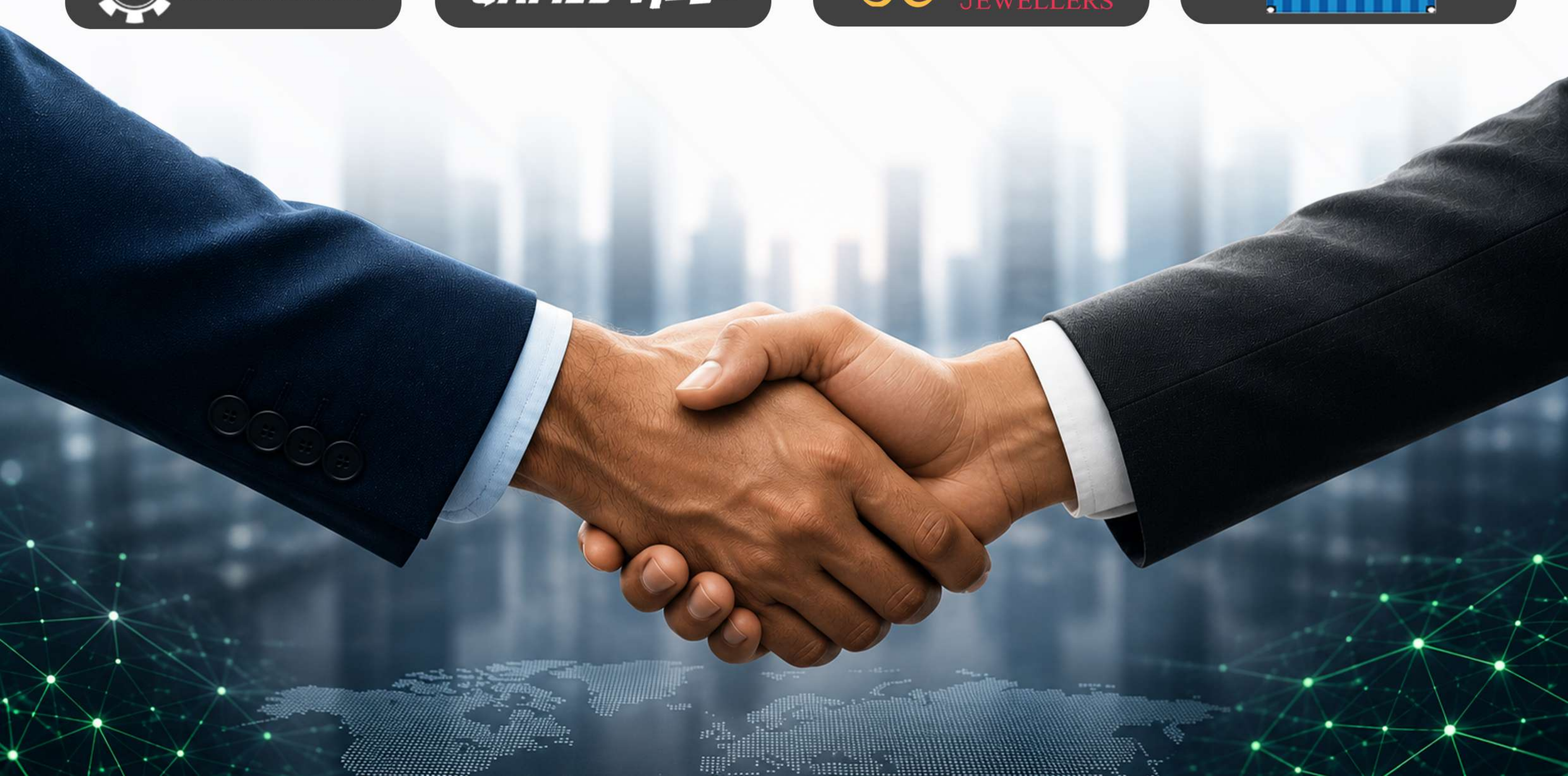
S. THARTIUS
ENGINEERING CONTRACTORS

GAMESVILLE



ANNAI
JEWELLERS

DBGT



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