SAMVEA

DESIGN STUDIO

Design. Build. Collaborate.



SAMVEA / COMPANY & SOFTWARE BROCHURE

One workspace for engineering.

3D models. Engineering data. Technical documents.
Connected in SAMVEA Design Studio.

One workspace. Six connected capabilities.

Bring industrial models, editable engineering data and technical documents into one Windows application. Move from project parameters to geometry, review and deliverables.



Keep the project together.

Start with a representative area of your facility. Reuse libraries and templates as you develop the model, its associated records and the documents your team needs.

SDS · SAMVEA DESIGN STUDIO

01 / MODEL

3D engineering

Bring equipment, piping and structures into a shared facility model.

02 / DEFINE

Engineering data

Organize parameters, calculations and records in linked TJS workbooks.

03 / CONNECT

Piping & equipment

Develop components and routes from parameters and reusable libraries.

04 / REVIEW

Model review

Explore geometry and point clouds together, and inspect objects in context.

05 / PUBLISH

Documents & publishing

Prepare technical documents, engineering datasheets and PDF deliverables.

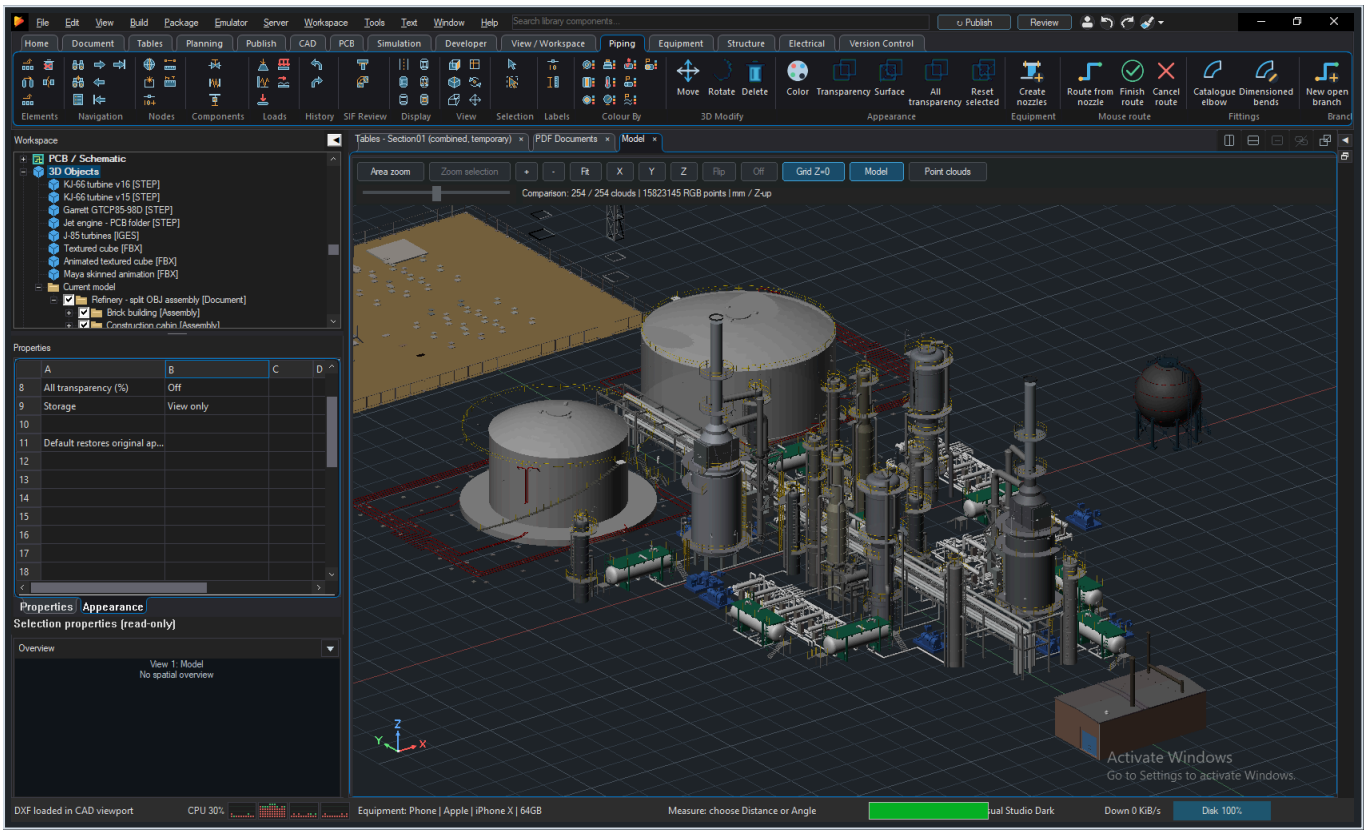
06 / COLLABORATE

Collaboration & AI

Organize project information, revision workflows and configured AI assistance.

See the facility as one model.

Organize the site by project, area and discipline. Bring equipment, pipe routes and structural members into a common 3D context, then inspect their placement and connections.



Refinery demonstration in the SDS workspace. Model, project tree and properties shown together.

Equipment with parameters

Describe pumps, vessels, dimensions and nozzle positions in engineering tables. Position the equipment in the site model.

Connected piping

Develop routes around equipment connections. Review bends, fittings, supports and access components in context.

Reusable components

Keep generator libraries separate from project parameters. Reuse component definitions while developing each area of the facility.

Let parameters carry the project forward.

Keep the model and the information that describes it close together. Work with linked tables, technical documents and drawings within the SDS project workspace.

Engineering data

TJS workbooks organize related records into linked tables. Edit values, use formulas and controlled choices, and reuse catalog entries for your engineering discipline.

Parameter	Example record
Equipment tag	P-101
Component	Pump
Inlet nozzle	4 in
Outlet nozzle	3 in
Placement	X, Y, Z parameters

Illustrative engineering record; values shown as examples.

Parameters → **Geometry** → **Deliverables**

Technical documents

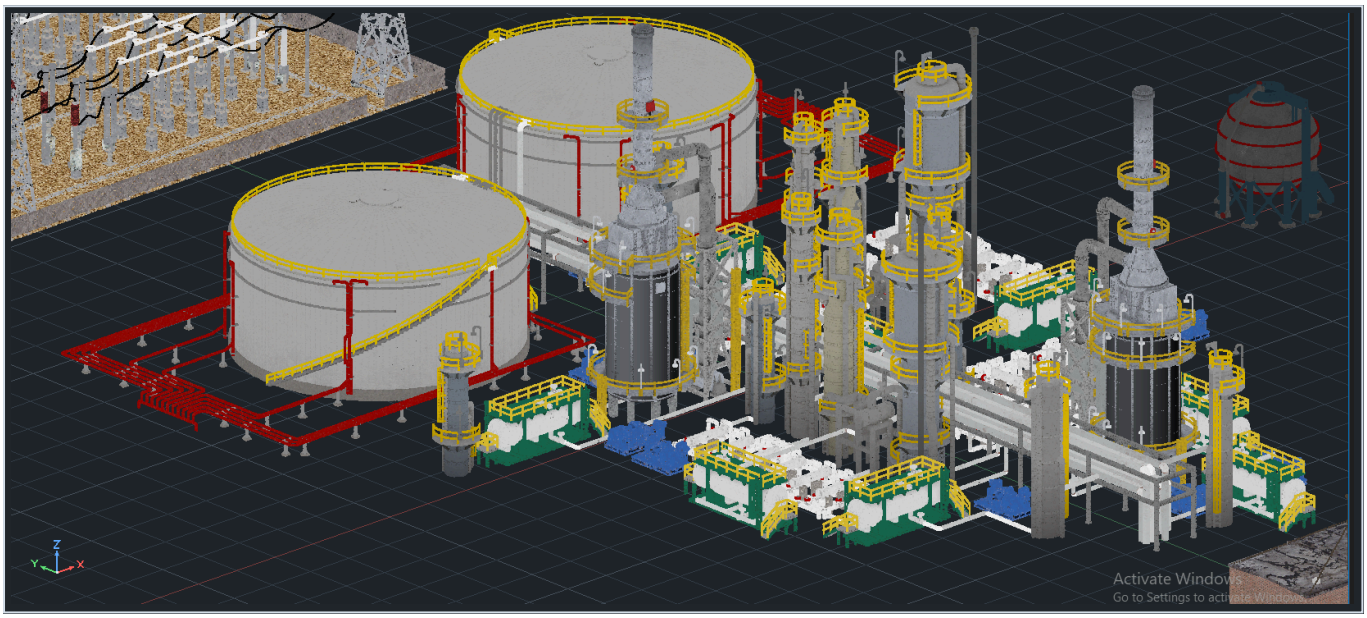
Prepare DJS documents and TJS datasheets, review page layouts and export PDF deliverables. Use reusable templates for equipment records and project documentation.



- Choose sheet formats and preview the output.
- Organize document registers and revisions.
- Agree the templates and deliverables required for engineering review and handover.

Review the model. Coordinate the work.

Explore facility models and colored point clouds together. Use geometry and associated project records to support engineering discussions and asset documentation.



Refinery model and scan comparison from the SDS demonstration.

Inspect

Select objects and review their properties in the site context.

Isolate

Use visibility controls and section planes to examine complex assemblies.

Compare

Check position, orientation and visible differences between models and scan data.

Organize shared information

Structure project files, user roles and review responsibilities around your engineering data.

Support engineering work

Explore revision workflows and AI chat assistance. Configure connectivity and the assistant for your installation.

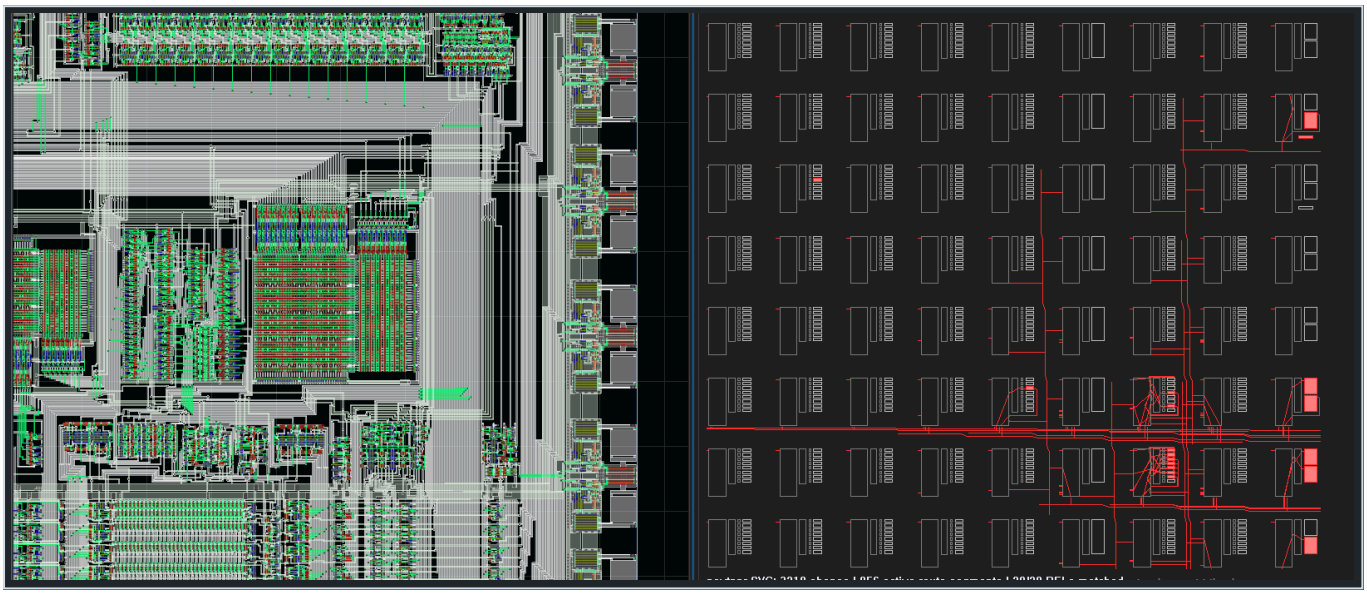
Define your deployment

Discuss local, network and peer-to-peer workflows with SAMVEA.

Live operational data connections, hosted cloud services and industrial analytics are separate integration scopes.

From architecture to system integration.

Alongside SDS engineering software, SAMVEA develops chip, SoC and motherboard designs for industrial and embedded applications.



Chip layout and routing views from the SDS demonstration.

A fabless development model

SAMVEA focuses on semiconductor design and system integration. Wafer fabrication is carried out by external semiconductor foundries.

Chip & SoC architecture	Define the functions, processing needs, power, interfaces and operating conditions required by the product.
Motherboard engineering	Consider power delivery, package interfaces, memory and connectivity together with the semiconductor requirements.
System-level requirements	Connect design, prototyping and verification with the intended application and its integration constraints.

Start with a representative project.

Define the engineering outcome first. Use a focused pilot to establish the required models, data, documents and deployment before extending the workflow.

01

Describe the facility and disciplines

Identify the equipment, piping and structures you need to design or review. Choose a manageable area for the first model.

02

Prepare the source information

List existing models, point clouds, engineering tables and component catalogs. Identify the documents and PDF deliverables you need.

03

Evaluate SDS with your workflow

Use the available Windows installer. Confirm required capabilities, templates, licensing and deployment with SAMVEA.

04

Plan the team and next stage

Set editing and review responsibilities, workstations, milestones, training and support needs for the project.

Prepare your project brief

A clear brief connects the engineering requirement with the proposed workflow.

- Facility and engineering disciplines
- Source models and file formats
- Tables and component catalogs
- Documents and PDF deliverables
- Users, workstations and deployment
- Required capabilities and schedule
- Training and support needs

DOWNLOAD THE PROJECT BRIEF →

SAMVEA
Engineered at the core

DESIGN. BUILD. COLLABORATE.

Build your next engineering project.

Connect industrial models, editable project data and technical documents in SAMVEA Design Studio.

www.samvea.com

Explore SDS

Scan or click for downloads and software resources.

DISCUSS YOUR PROJECT →

Engineering software.
Chip, SoC and motherboard development.