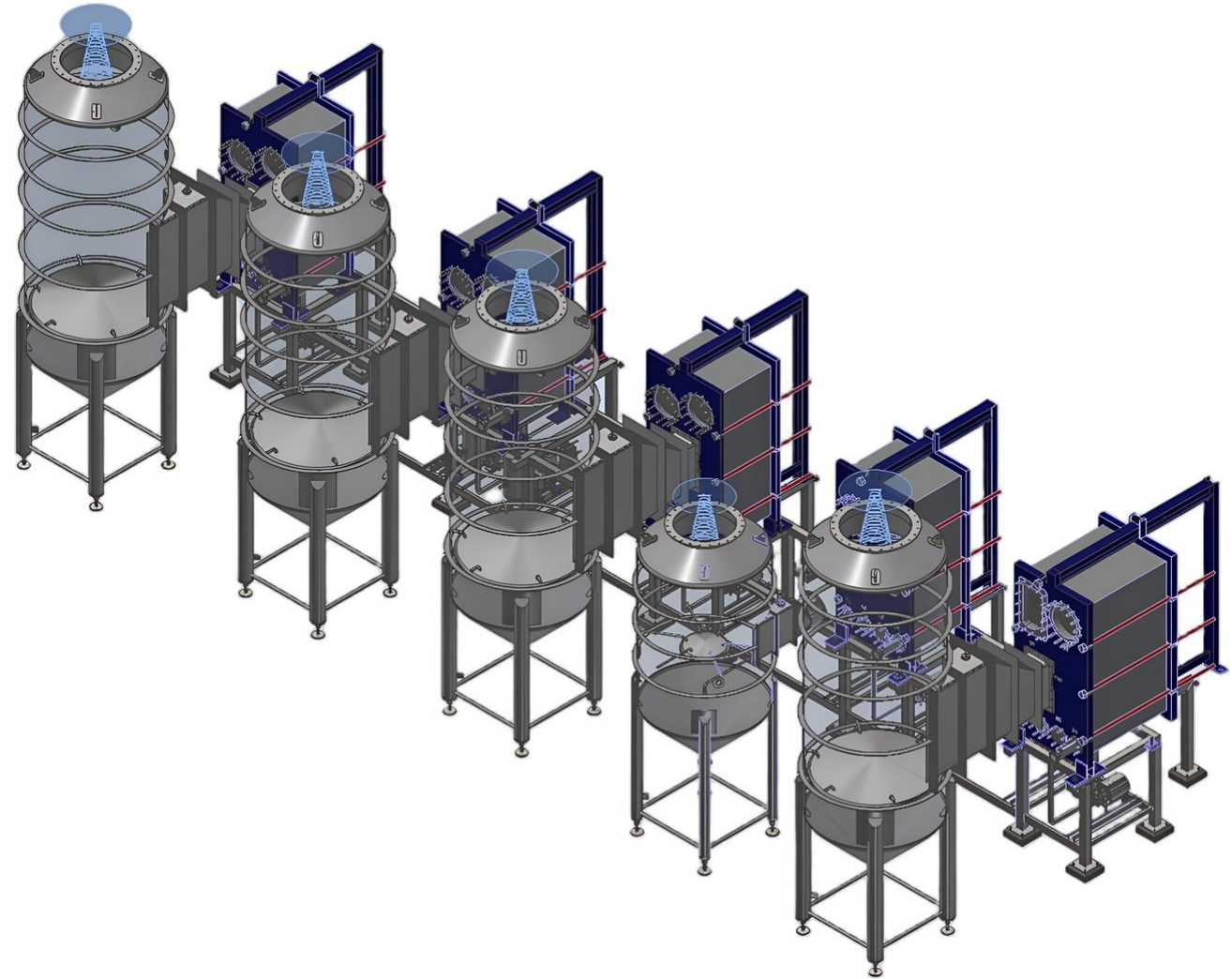


PROCESS EQUIPMENT

VESSELS · STRUCTURES · PIPING



Tanks and vessels, with the steelwork and piping around them, **built from rules instead of drawn from scratch.**

01 VESSELS AND TANKS

Pressure vessels, process tanks, separators and their internals, to EN 13445, ASME VIII and other industry standards.

02 STRUCTURES

Platforms, ladders, skids and machinery frames, built with Inventor Frame Generator, including steelwork for factory layouts.

03 PIPING

Standardized piping and routed layouts in the Inventor Tube and Pipe environment.

04 AUTOMATION

iLogic configurators that build the model, the parts and the drawings from a few inputs.



REPRESENTATIVE PHOTOGRAPH

INDUSTRIES

The equipment is much the same from one industry to the next, but every company has its own standards, procedures and systems. We adapt our design pipelines to yours.



01 OIL AND GAS

Separators, pressure vessels and skid-mounted process units.



02 PHARMACEUTICAL

Hygienic stainless vessels, fermenters and their frames.



03 FOOD AND BEVERAGE

Process tanks, evaporation lines and extraction plants.

AUTOMATION WITH ILOGIC

iLogic puts engineering rules inside Inventor. A few inputs drive the whole job: the model sizes itself, parts are created and named, assemblies are built, and drawings with parts lists are generated to the same standards every time. The same rules can sit behind a web-based form, giving clients an instant configurator.

RULES	Sizes, standards and checks, written once
OUTPUT	Models, parts, drawings and BOMs
CHANGE	Edit one input, everything follows

01



INPUTS IN
A FORM

02



3D MODEL
SIZED

03



PARTS
CREATED

04

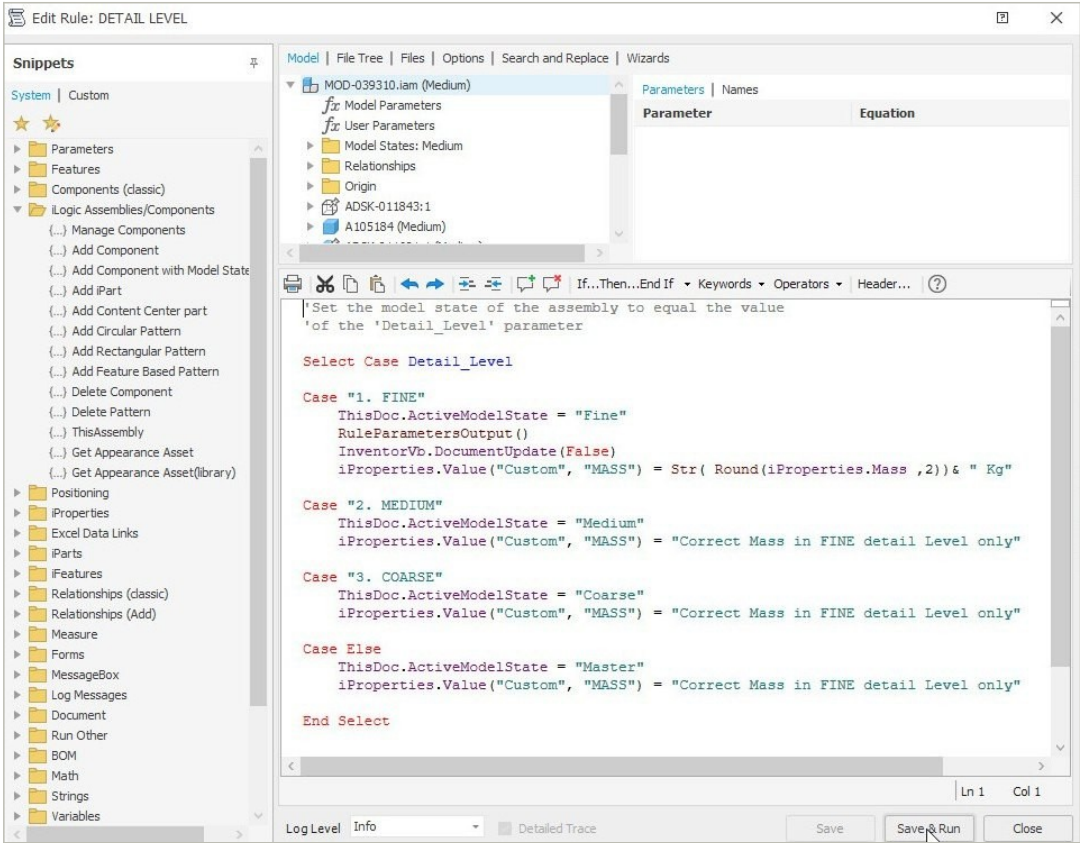


ASSEMBLY
BUILT

05



DRAWINGS
AND BOM

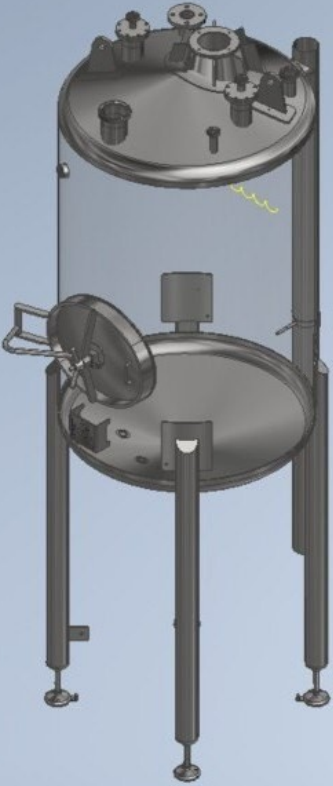


AN ILOGIC RULE IN INVENTOR

THE VESSEL CONFIGURATOR

Each vessel is set up in one form. Process data, nozzles and design limits sit on their own tabs. One click rebuilds the model, and a mass update rebuilds a whole batch, down to the shop-floor drawings.

STANDARDS	EN 13445-3, ASME VIII Div. 1
MATERIALS	Stainless and carbon steels
UPDATE	Full, quick or mass update
VERSION	Every configurator version-stamped



Settings

ITEM Version: Version: 1.2.0

Basic Tank Information

Vessel Type

Fiber and Concentrated Wf

IDX Code

C031_G001_T001

Design Code:

EN 13445-3

Customer Tag No.:

Customer name:

Material (Main):

1.4404

Mfg. Year:

2025

Serial No.:

Project Name

Pea Protein Extraction Plant

Project Number

Project Type

Protein

Service:

-

Notified Body:

NA

Process info

BodyNozzlesSpecial settingsDesign DataLimitations

Shell Parameters

Shell ID:

1000 mm

Shell Height:

1400 mm

Shell Thickness:

5 mm

Top Parameters

Top Type:

Conical w. Radius

Top Thickness:

5 mm

Center Nozzle OD:

0 mm

Top Angle:

15 deg

Top Radius:

50 mm

Bottom Parameters

Bottom Type:

Conical w. Radius

Bottom Thickness:

5 mm

Center Nozzle OD:

70 mm

Bottom Angle:

15 deg

Bottom Radius:

50 mm

L-Profile (s) Parameters

Holes in Top L-Profile and Head?

True

L-Profile Size:

100 mm

Number of Holes:

20 ul

Holes in Bottom L-Profile and Head?

True

L-Profile Thickness:

5 mm

Holes Diameter:

8 mm

Full Update

Quick Update

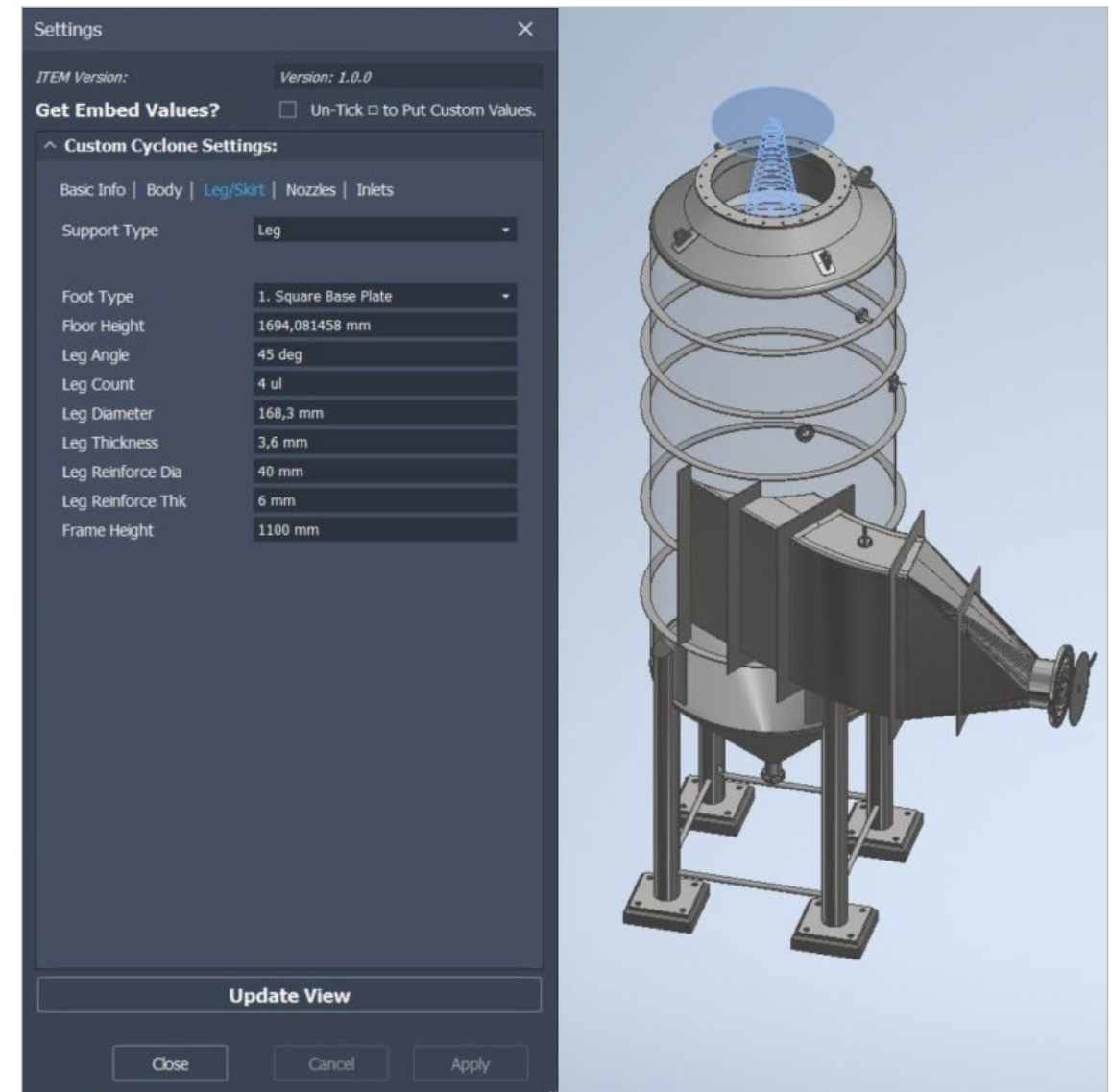
Mass Update

Done

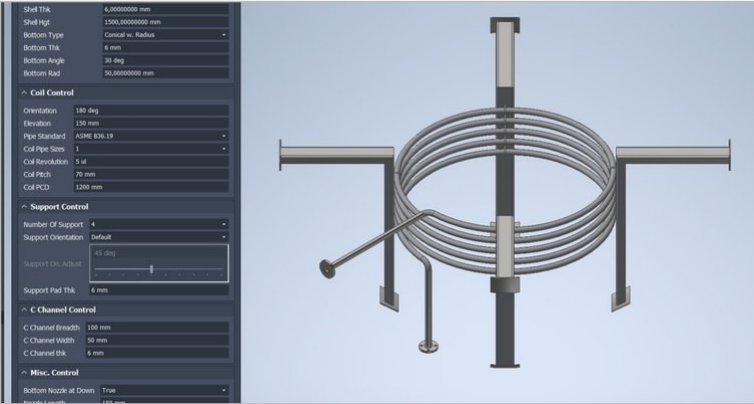
A FORM FOR EVERY EQUIPMENT TYPE

The same approach extends to every equipment type. Each form builds the whole assembly parametrically from frame catalogs and Inventor's Content Center library of standard fasteners, tubes, sections and fittings.

- 1 Vessels and tanks
- 2 Cyclone separators
- 3 Coils, trays and internals
- 4 Nozzles and pipework
- 5 Legs, lugs and skirts
- 6 Platforms and ladders



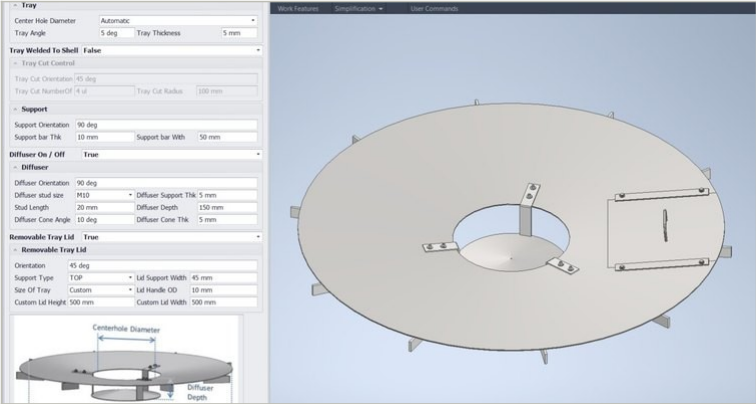
COILS, TRAYS, LEGS AND LUGS



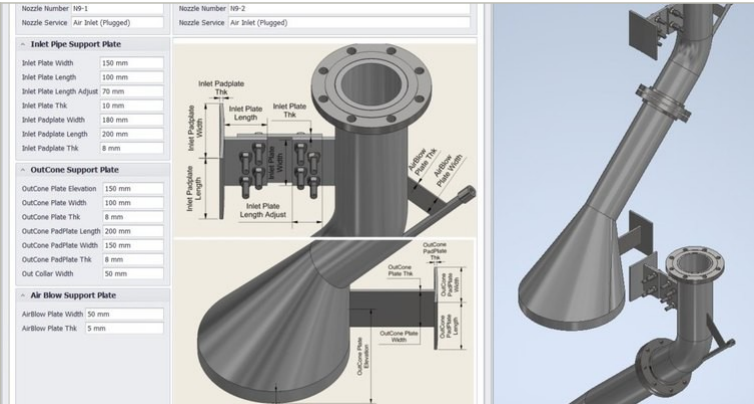
HEATING COIL



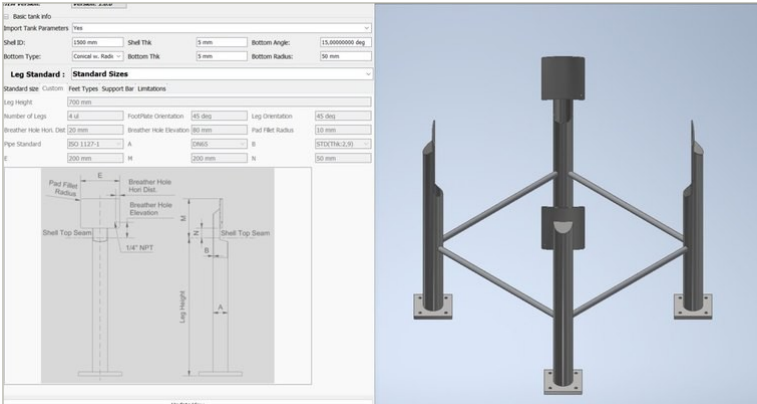
BOTTOM COIL



INTERNAL TRAY



INLET PIPES



LEGS

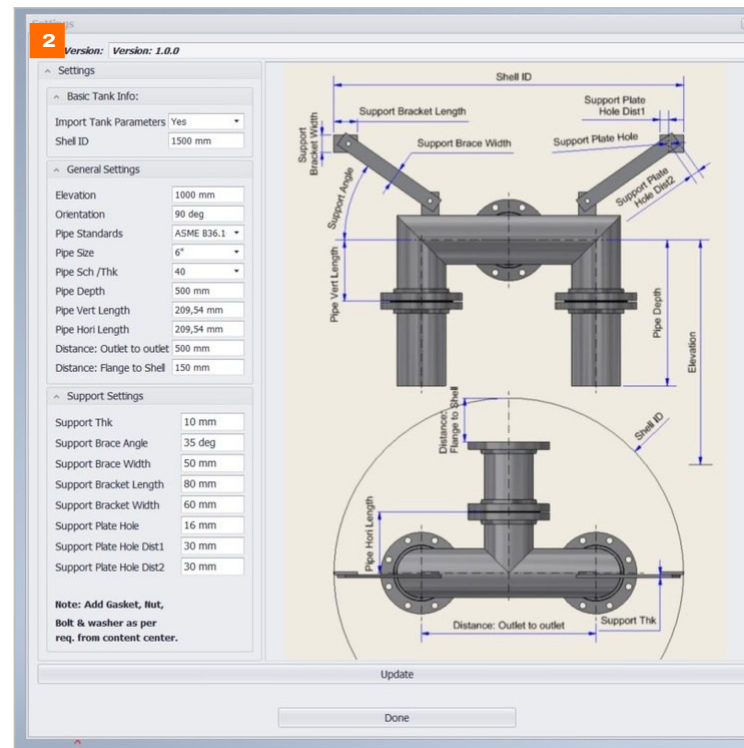
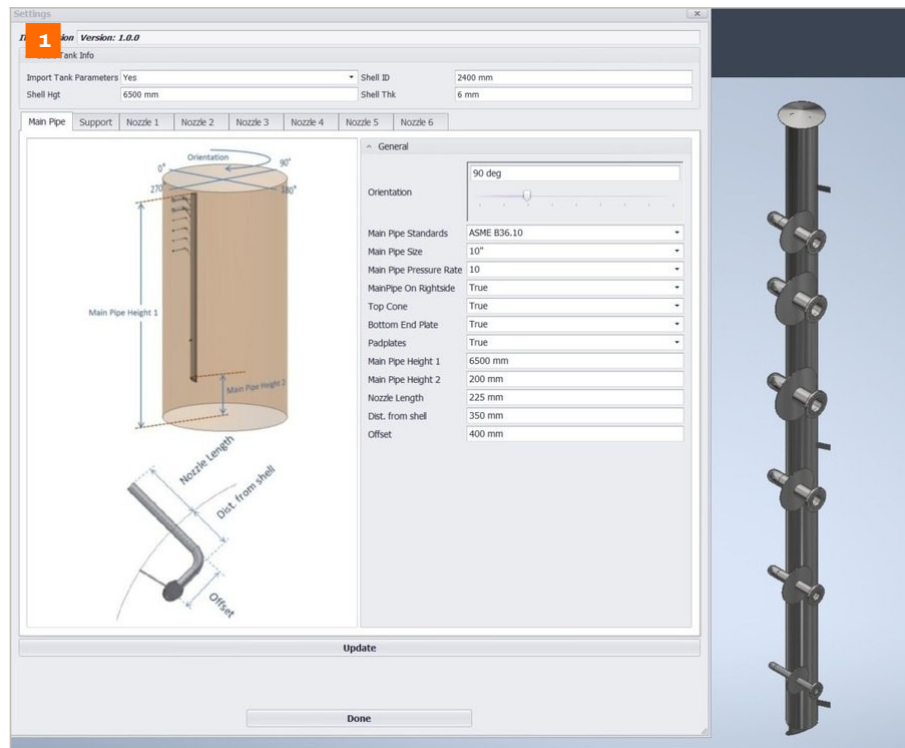


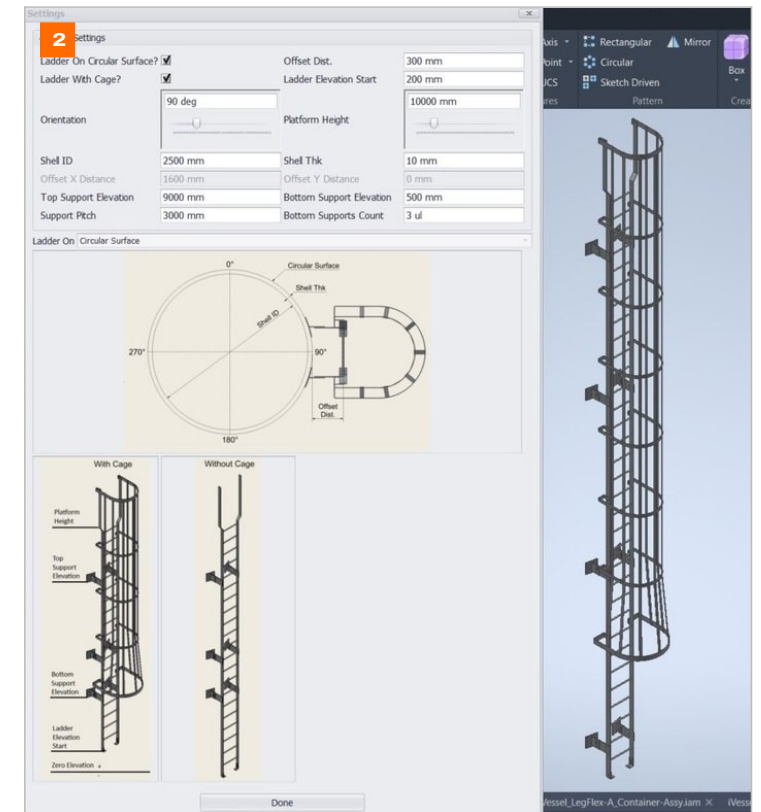
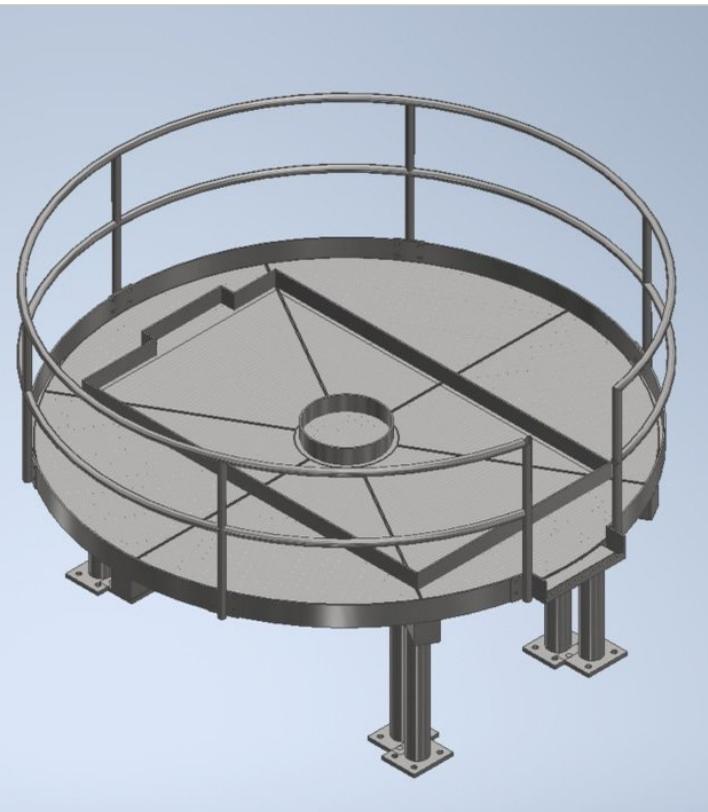
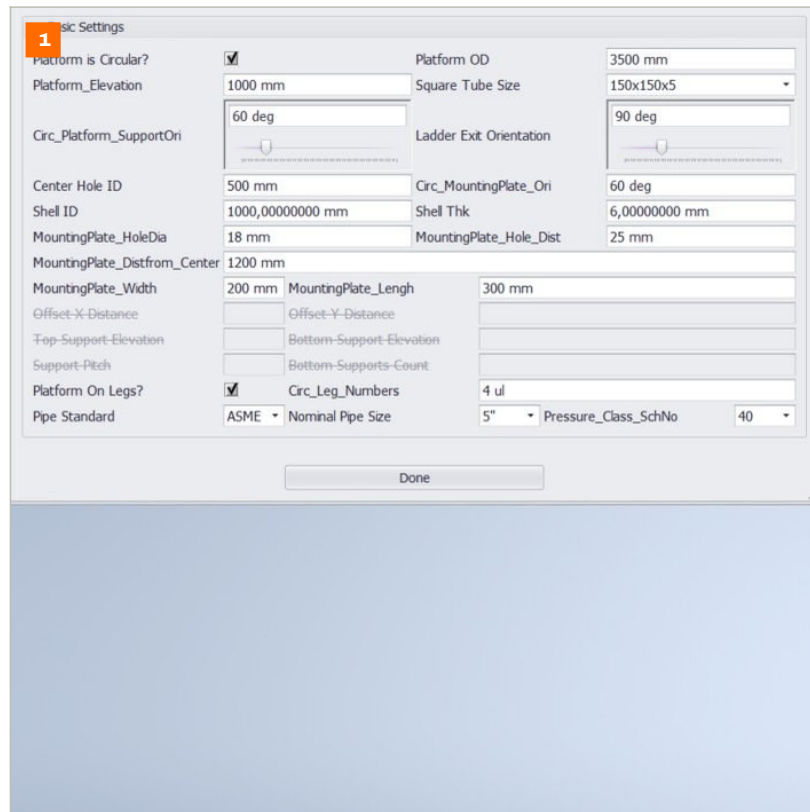
SUPPORT LUGS

STANDARD PIPING, ROUTED IN 3D

Piping is laid out in Inventor's Tube and Pipe environment, with standard pipe, fittings and flanges to ISO, ASME, ASTM, EN and DIN.

- 1 Side column with branch nozzles
- 2 Twin outlet with support bracket





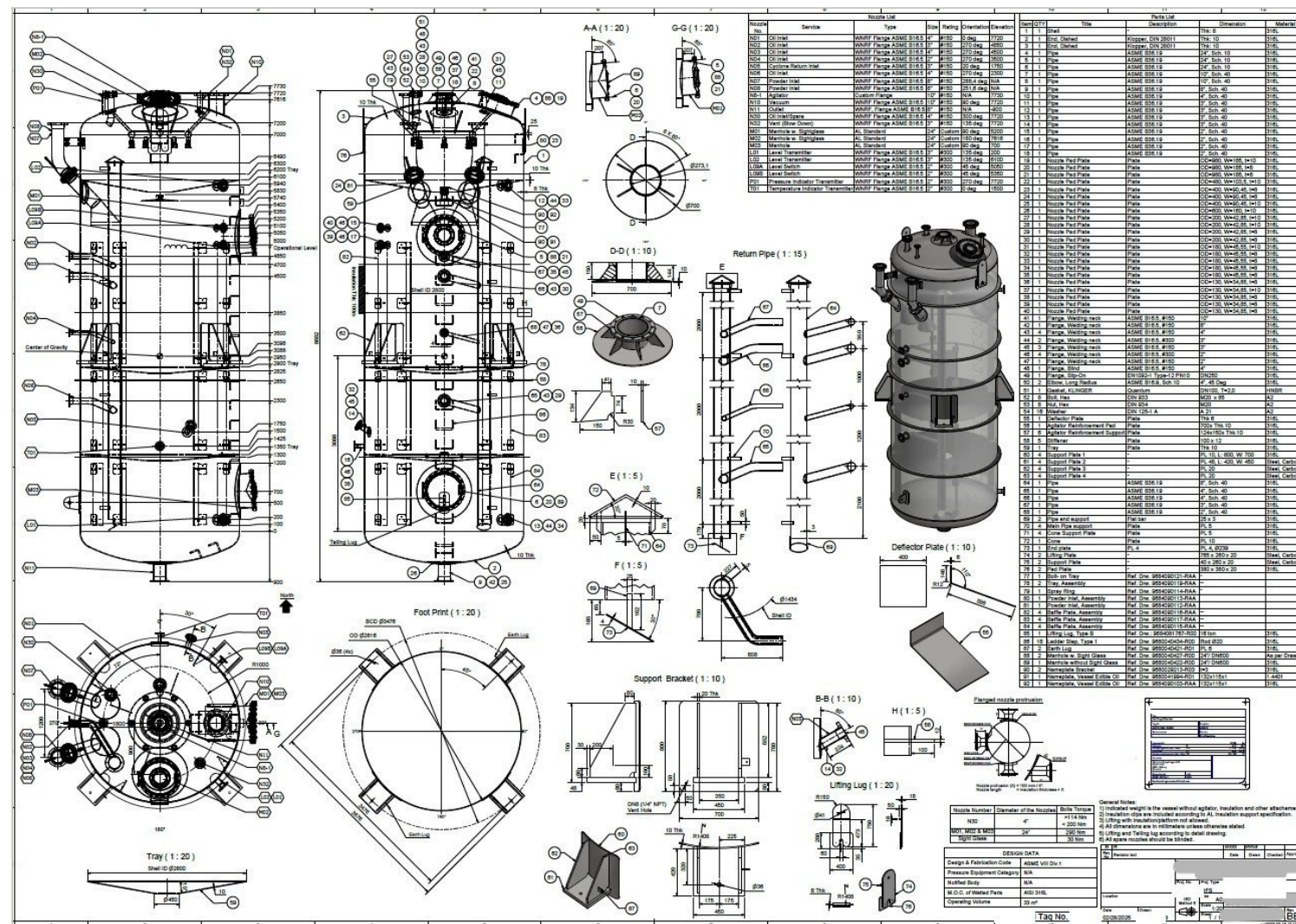
FRAMES AND PLATFORMS

Structural steel is built with Inventor Frame Generator: standard sections are placed on a skeleton, and the tool handles joints and end cuts. Platforms, ladders, skids and large machine frames come out with cut lists ready for fabrication.

- 1 Circular platform with handrails
- 2 Caged ladder on a curved shell

DRAWINGS READY FOR THE SHOP

Every design leaves as a full general arrangement: views, sections and details, a nozzle list and a parts list, all generated from the model. iLogic automates about 80% of the repetitive drafting.



GENERAL ARRANGEMENT, REFINERY PROCESS VESSEL

We can build your product range into a web-based configurator,
so each new order starts from a working model.

01**FOUNDATIONAL SETUP**

Understand the requirements, capture the design intent and plan the approach.

02**PARAMETRIC MAPPING**

Build the parametric framework: template parts, metadata and standards.

03**ILOGIC AUTOMATION**

Write the automation in iLogic and VB.NET.

04**TESTING AND VALIDATION**

Test the system across every input and check the output against your company standards.

LET'S BUILD THE NEXT ONE

CONTACT

EMAIL business@tactiledesign.in

PHONE **+91 7276090421** CALL OR WHATSAPP

WEBSITE www.tactiledesign.in

