

SolidWorks interface showing the creation of an extrusion feature.

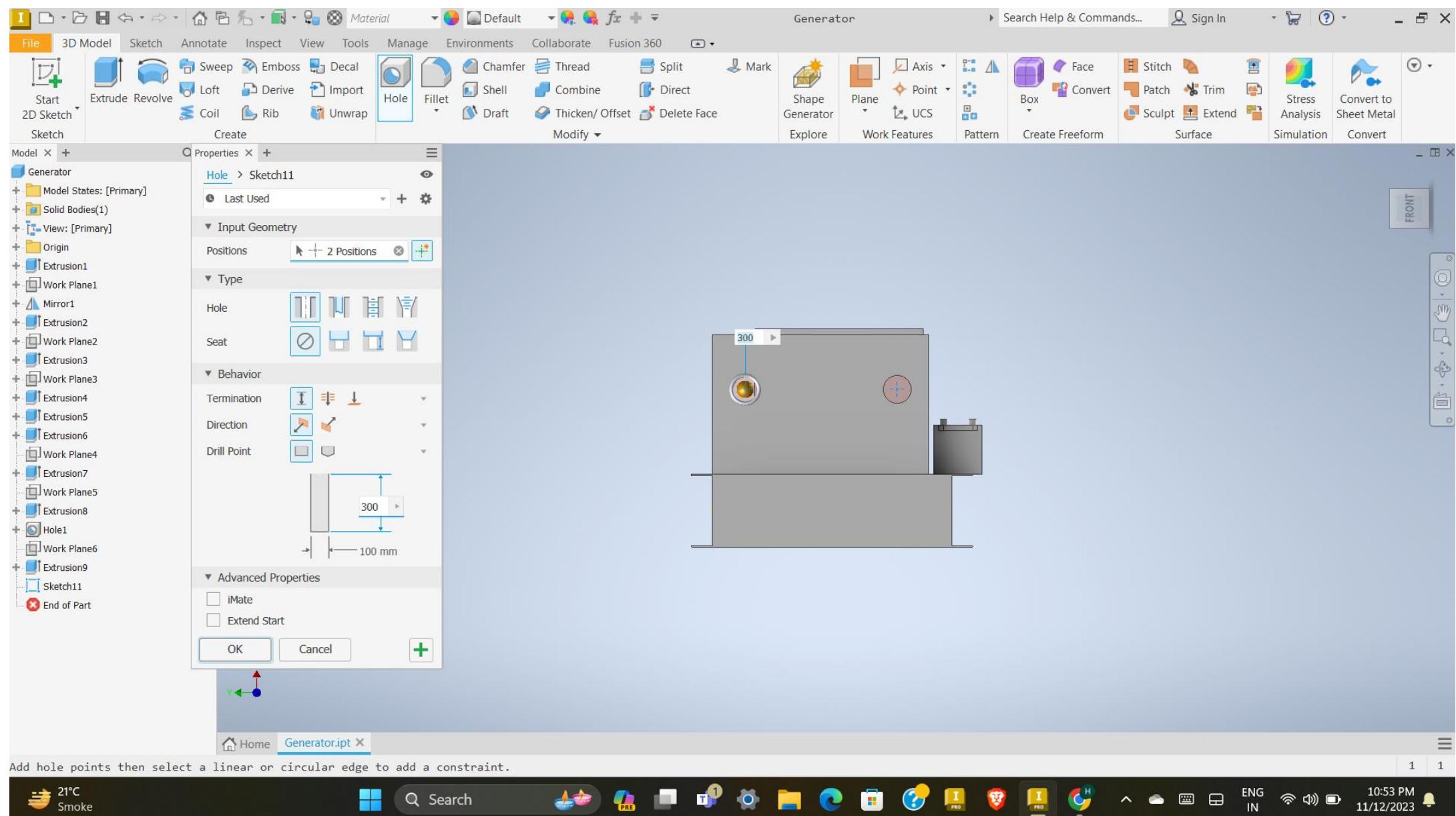
Properties Panel (Extrusion8):

- Input Geometry:** 1 Profile selected from Sketch8, From 1 Sketch Plane.
- Behavior:** Direction is set to **Distance A** with a value of **400**.
- Output:** Boolean operation is set to **None**.
- Advanced Properties:** Taper A is set to **0.00 deg**.

Model View: The model shows a base feature and an extruded feature. The extrusion has a height of 400 units. A dimension line indicates the height from the top face of the base to the top face of the extrusion.

Status Bar: Select profiles. To deselect, press [Ctrl] or [Shift] + Click.

System Tray: Shows system icons including battery level (21°C), search, taskbar, and system status.



SolidWorks interface showing a model of a generator base part.

Top Bar:

- File
- 3D Model
- Sketch
- Annotate
- Inspect
- View
- Tools
- Manage
- Environments
- Collaborate
- Fusion 360
- Generator
- Search Help & Commands...
- Sign In
- Cart
- Help

Toolbar (Left):

- Start 2D Sketch
- Extrude Revolve
- Loft
- Coil
- Rib
- Unwrap
- Create
- Hole
- Fillet
- Chamfer
- Thread
- Shell
- Draft
- Derive
- Import
- Split
- Mark
- Shape Generator
- Plane
- Axis
- Point
- UCS
- Combine
- Direct
- Thicken/ Offset
- Delete Face
- Explore
- Work Features
- Pattern
- Box
- Face
- Stitch
- Patch
- Trim
- Sculpt
- Convert
- Box
- Convert
- Surface
- Stress Analysis
- Simulation
- Convert to Sheet Metal

Model Tree:

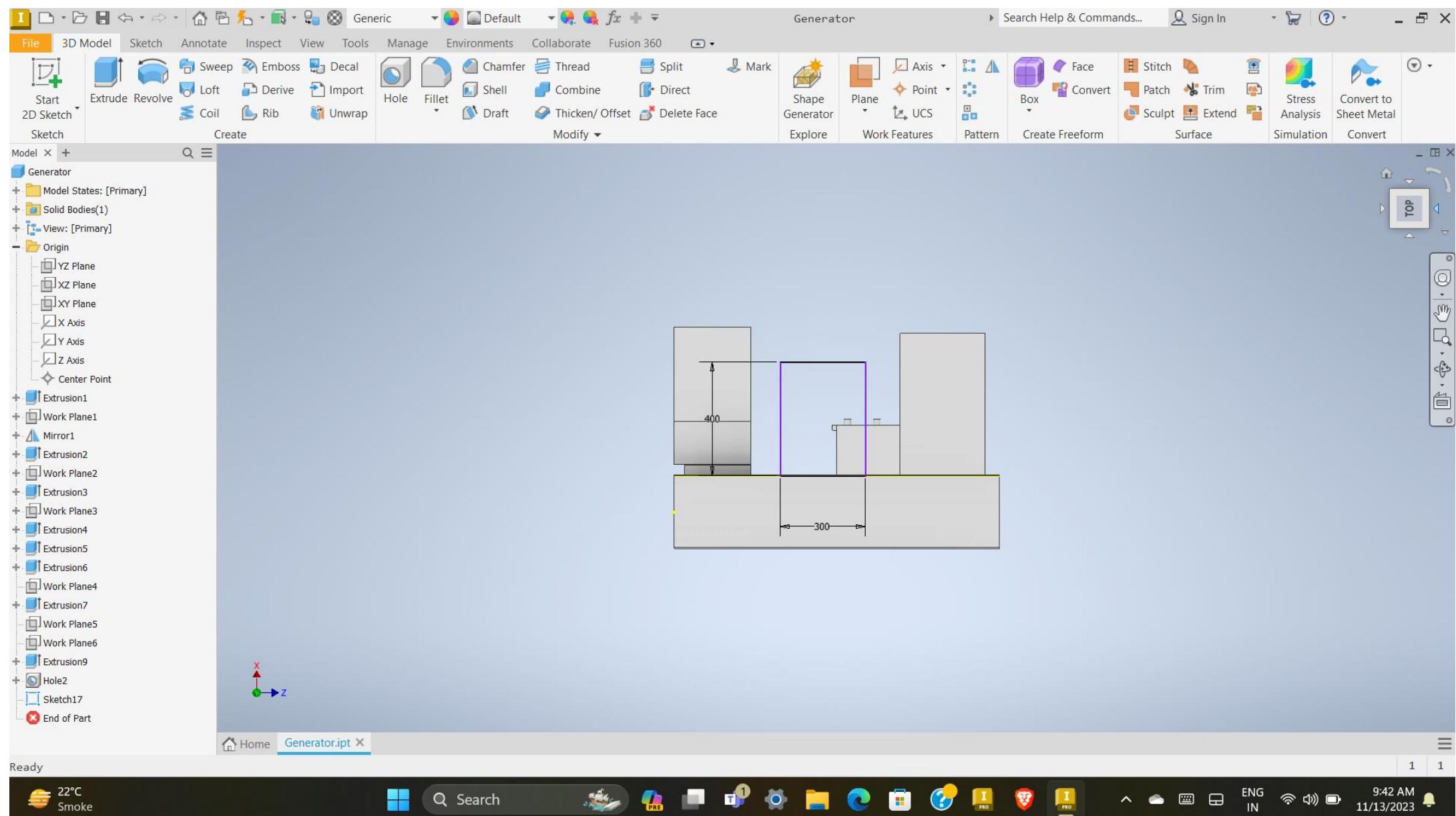
- Model States: [Primary]
- Solid Bodies(1)
- View: [Primary]
- Origin
- Extrusion1
- Work Plane1
- Mirror1
- Extrusion2
- Work Plane2
- Extrusion3
- Work Plane3
- Extrusion4
- Extrusion5
- Extrusion6
- Work Plane4
- Extrusion7
- Work Plane5
- Extrusion8
- Hole1
- Work Plane6
- Extrusion9
- Hole2
- End of Part

Front View:

-190.500 mm

Bottom Bar:

- Home
- Generator.ipt
- Select a dimension to reference the parameter.
- 21°C Smoke
- Search
- PRE
- 1
- ENG IN
- 11:04 PM
- 11/12/2023



SolidWorks interface showing the creation of a part named "Generator".

The ribbon menu is visible at the top, showing tabs like File, 3D Model, Sketch, Annotate, View, Tools, Manage, Environments, Collaborate, and Fusion 360.

The left pane displays the model tree:

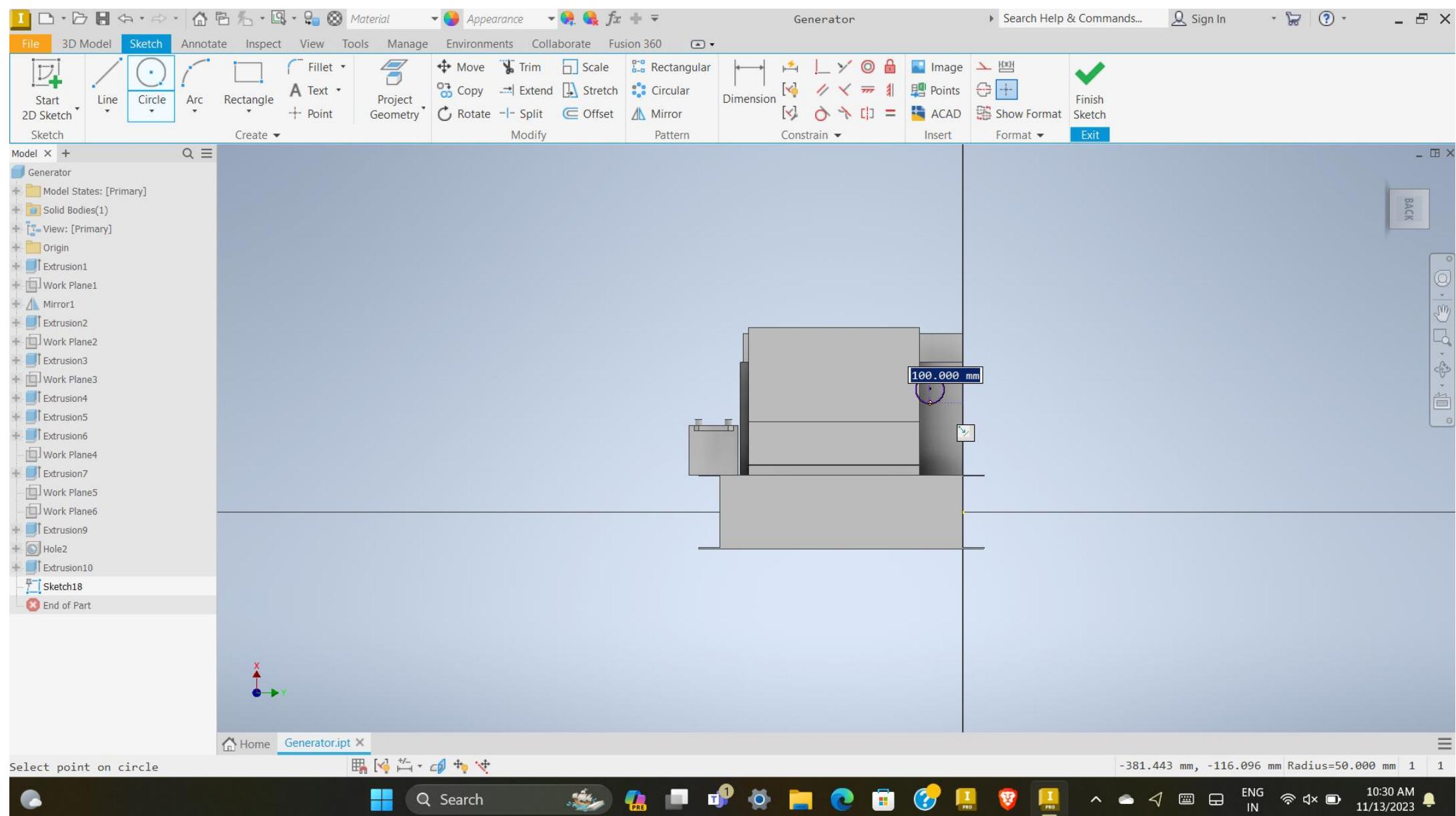
- Generator
- Model States: [Primary]
- Solid Bodies(1)
- View: [Primary]
- Origin
 - YZ Plane
 - XZ Plane
 - XY Plane
 - X Axis
 - Y Axis
 - Z Axis
 - Center Point
- Extrusion1
- Work Plane1
- Mirror1
- Extrusion2
- Work Plane2
- Extrusion3
- Work Plane3
- Extrusion4
- Extrusion5
- Extrusion6
- Work Plane4
- Extrusion7
- Work Plane5
- Work Plane6
- Extrusion9
- Hole2
- Sketch17
- End of Part

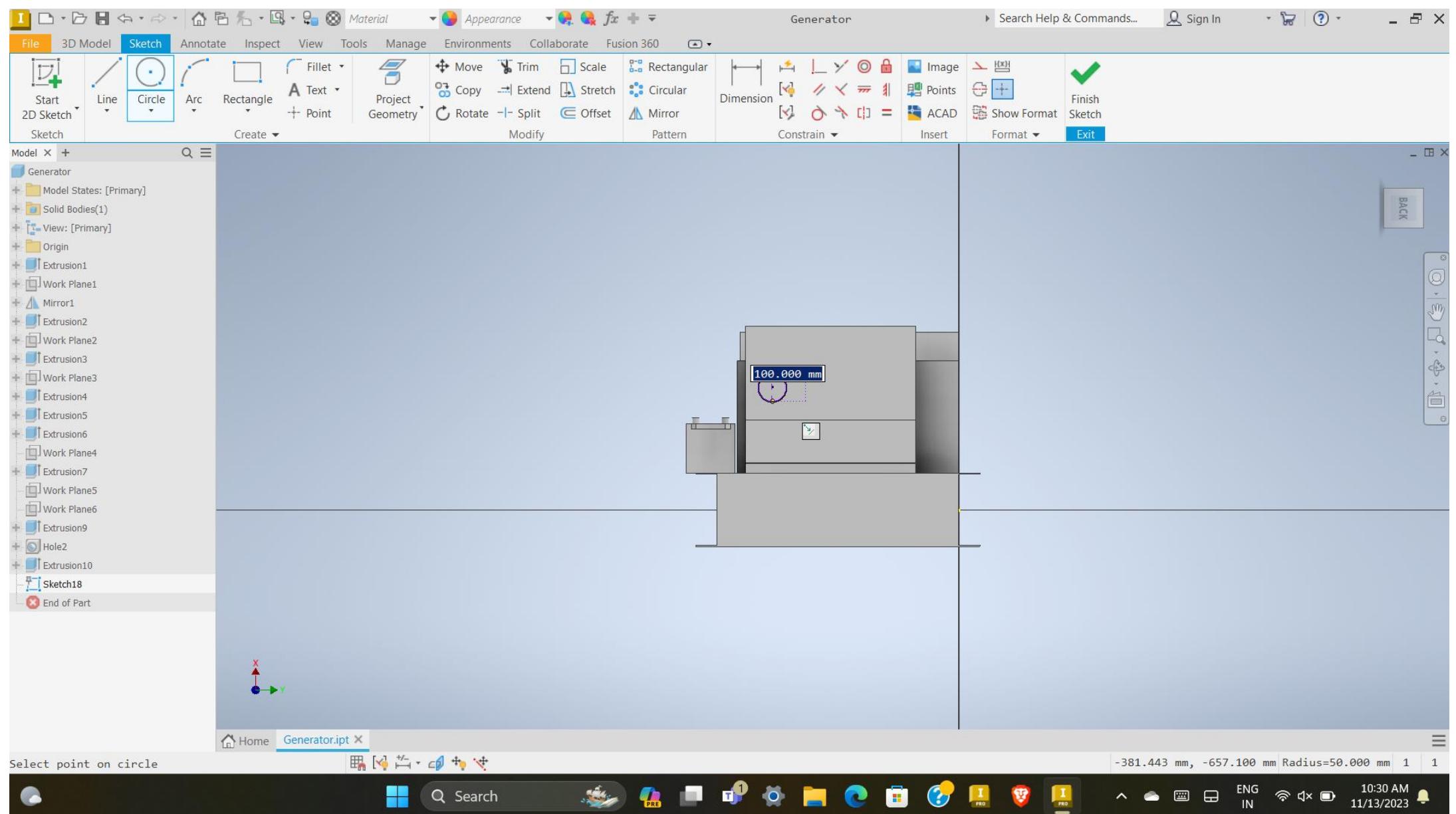
The Properties panel shows the settings for the current extrusion:

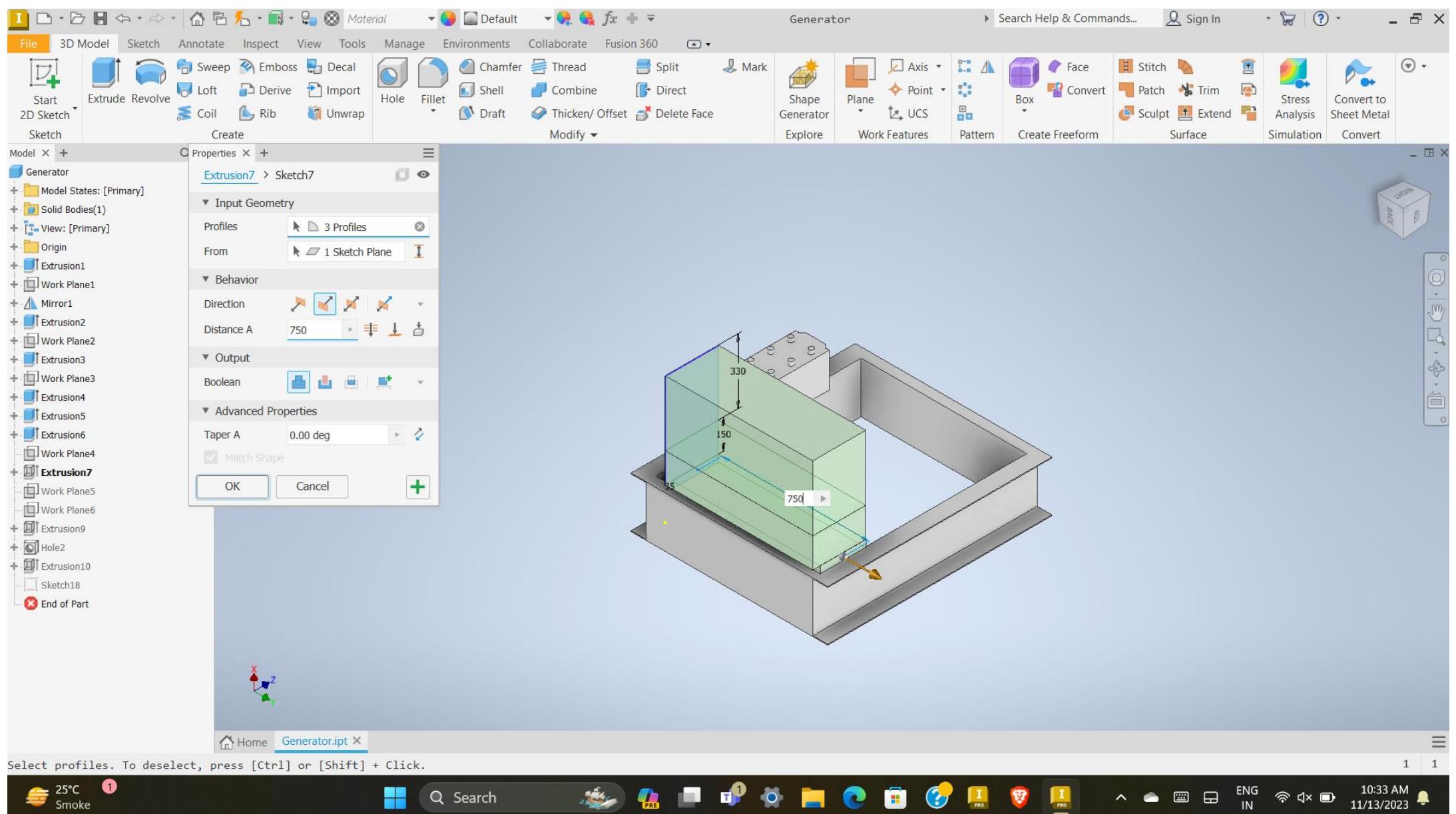
- Extrusion > Sketch17
- Input Geometry:
 - Profiles: 1 Profile
 - From: 1 Sketch Plane
- Behavior:
 - Direction: Up (780 units)
 - Distance A: 780
- Output:
 - Boolean: None
- Advanced Properties:
 - Taper A: 0.00 deg
 - iMate: None
 - Match Shape: Checked

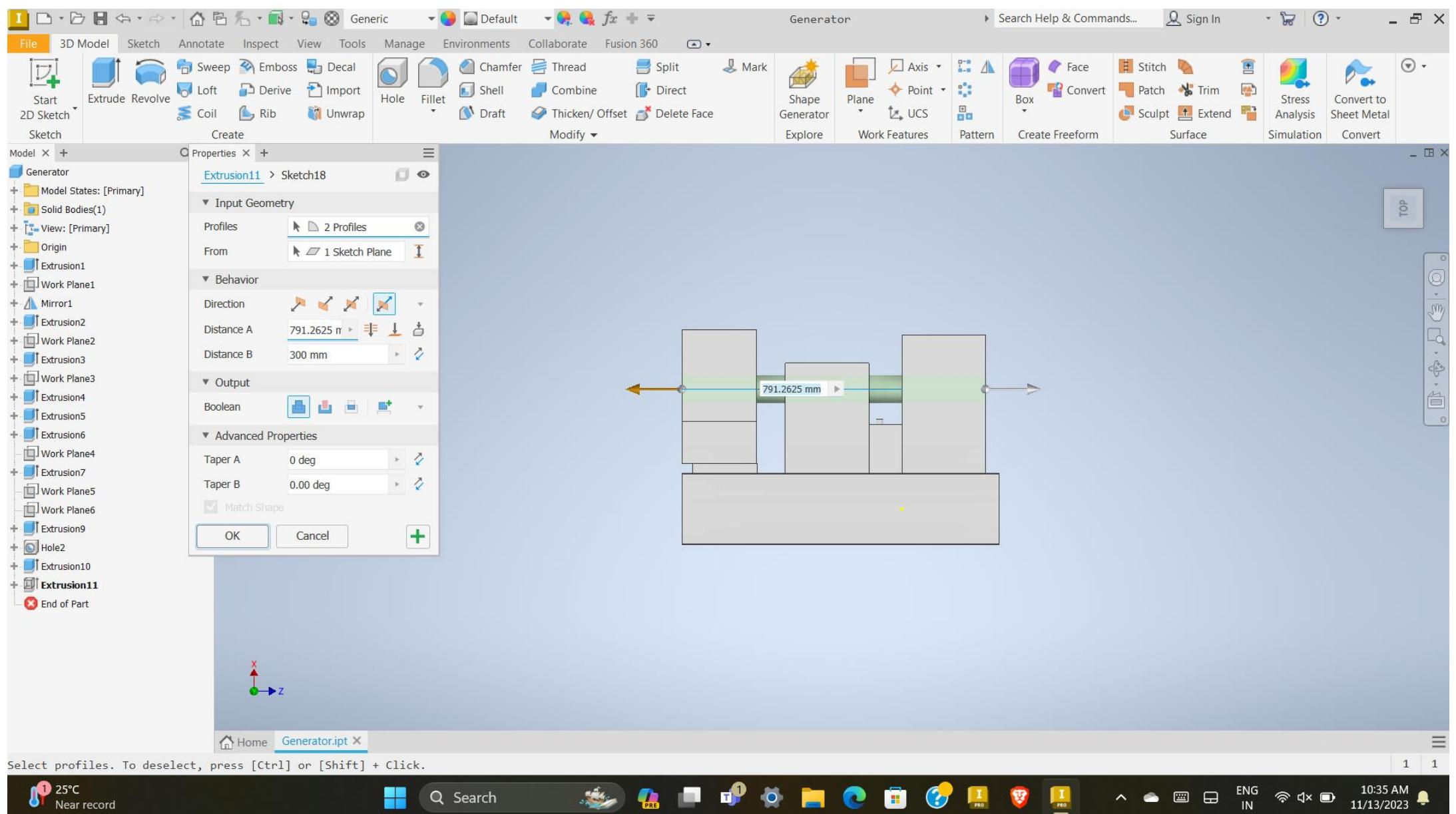
The main workspace shows the 3D model of the generator part. A green sketch plane is highlighted, indicating it is the current active sketch plane for the extrusion operation.

The status bar at the bottom shows: 22°C, Smoke, Search, and system icons for network, battery, volume, and date/time (9:42 AM, 11/13/2023).









Generator

File 3D Model Sketch Annotate View Tools Manage Environments Collaborate Fusion 360 Search Help & Commands... Sign In

Start 2D Sketch Sketch Extrude Revolve Loft Coil Rib Unwrap Sweep Emboss Decal Hole Fillet Chamfer Thread Shell Combine Direct Draft Thicken/ Offset Delete Face Shape Generator Plane Axis Point UCS Work Features Pattern Create Freeform Box Face Stitch Patch Trim Sculpt Extend Surface Stress Analysis Simulation Convert

Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Work Plane1
Mirror1
Extrusion2
Work Plane2
Extrusion3
Work Plane3
Extrusion4
Extrusion5
Extrusion6
Work Plane4
Extrusion7
Work Plane5
Work Plane6
Extrusion9
Hole2
Extrusion10
Extrusion11
End of Part

Generator

3D View of the Generator model showing a base plate with two vertical rectangular blocks and a central cylindrical component.

Home Generator.ipt Ready

25°C Smoke Search PRO 10:38 AM ENG IN 11/13/2023

File **3D Model** **Sketch** **Annotate** **Inspect** **View** **Tools** **Manage** **Environments** **Collaborate** **Fusion 360**

Generator **Search Help & Commands...** **Sign In**

Start 2D Sketch **Extrude Revolve** **Sweep Emboss Decal** **Hole Fillet** **Chamfer Thread** **Split** **Mark** **Shape Generator** **Plane Axis** **Point** **UCS** **Box Face** **Stitch Patch** **Trim** **Convert** **Work Features** **Pattern** **Create Freeform** **Surface Sculpt** **Extend** **Stress Analysis** **Simulation** **Convert to Sheet Metal**

Create **Draft** **Shell Combine Direct** **Thicken/ Offset Delete Face**

Explore

Model X + **Generator**

Model States: [Primary]

Solid Bodies(1)

View: [Primary]

Origin

Extrusion1

Work Plane1

Mirror1

Extrusion2

Work Plane2

Extrusion3

Work Plane3

Extrusion4

Extrusion5

Extrusion6

Work Plane4

Extrusion7

Work Plane5

Work Plane6

Extrusion9

Hole2

Extrusion10

Extrusion11

End of Part

BOTTOM

Home Generator.ipt

Ready

25°C Smoke

Search

10:40 AM 11/13/2023

Generator

File 3D Model Sketch Annotate View Tools Manage Environments Collaborate Fusion 360

Generic Default fx +

Search Help & Commands... Sign In

Start 2D Sketch Sketch

Extrude Revolve Loft Coil Rib Unwrap

Sweep Emboss Decal Hole Fillet Chamfer Thread Shell Combine Direct Draft Thicken/ Offset Delete Face

Split Mark Shape Generator Plane Axis Point UCS

Mark Shape Generator Plane Axis Point UCS

Explore Work Features Pattern Create Freeform

Axis Point UCS

Box Face Stitch Patch Trim Sculpt Extend

Convert Surface Stress Analysis Simulation Convert

Model X + Generator

Model States: [Primary]

Solid Bodies(1)

View: [Primary]

Origin

Extrusion1

Work Plane1

Mirror1

Extrusion2

Work Plane2

Extrusion3

Work Plane3

Extrusion4

Extrusion5

Extrusion6

Work Plane4

Extrusion7

Work Plane5

Work Plane6

Extrusion9

Hole2

Extrusion10

Extrusion11

End of Part

FRONT

Home Generator.upt

Ready

25°C Smoke

Search

10:40 AM 11/13/2023

Fusion 360 - Generator

File 3D Model Sketch Annotate View Tools Manage Environments Collaborate Fusion 360

Generic Default fx +

Search Help & Commands... Sign In

Start 2D Sketch Sketch

Create

Extrude Revolve Loft Coil Rib Unwrap

Sweep Emboss Decal Hole Fillet Chamfer Thread Shell Combine Direct Draft Thicken/ Offset Delete Face

Shape Generator Plane Axis Point UCS

Mark Split

Explore Work Features Pattern Create Freeform

Box Face Stitch Patch Trim Sculpt Extend

Surface Stress Analysis Simulation Convert

Model X + Generator

+ Model States: [Primary]

+ Solid Bodies(1)

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+ Origin

+ Extrusion1

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+ Extrusion2

+ Work Plane2

+ Extrusion3

+ Work Plane3

+ Extrusion4

+ Extrusion5

+ Extrusion6

+ Work Plane4

+ Extrusion7

+ Work Plane5

+ Work Plane6

+ Extrusion9

+ Hole2

+ Extrusion10

+ Extrusion11

- End of Part

RIGHT

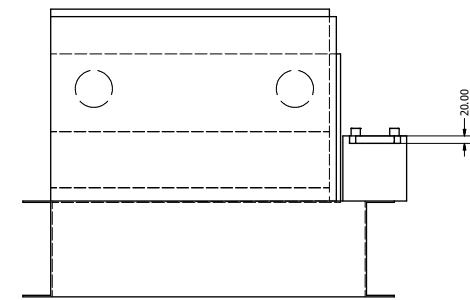
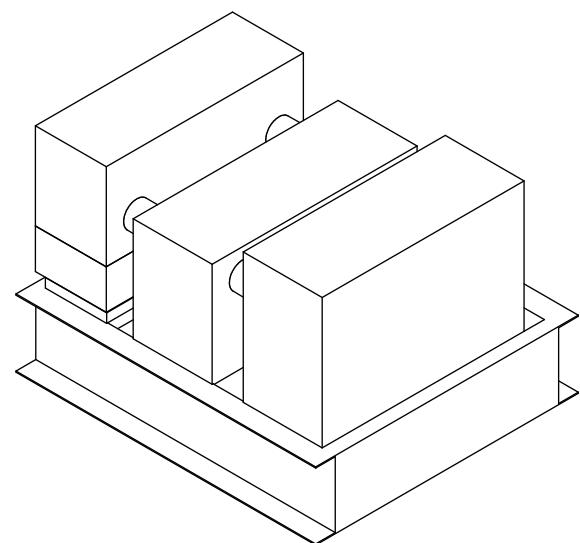
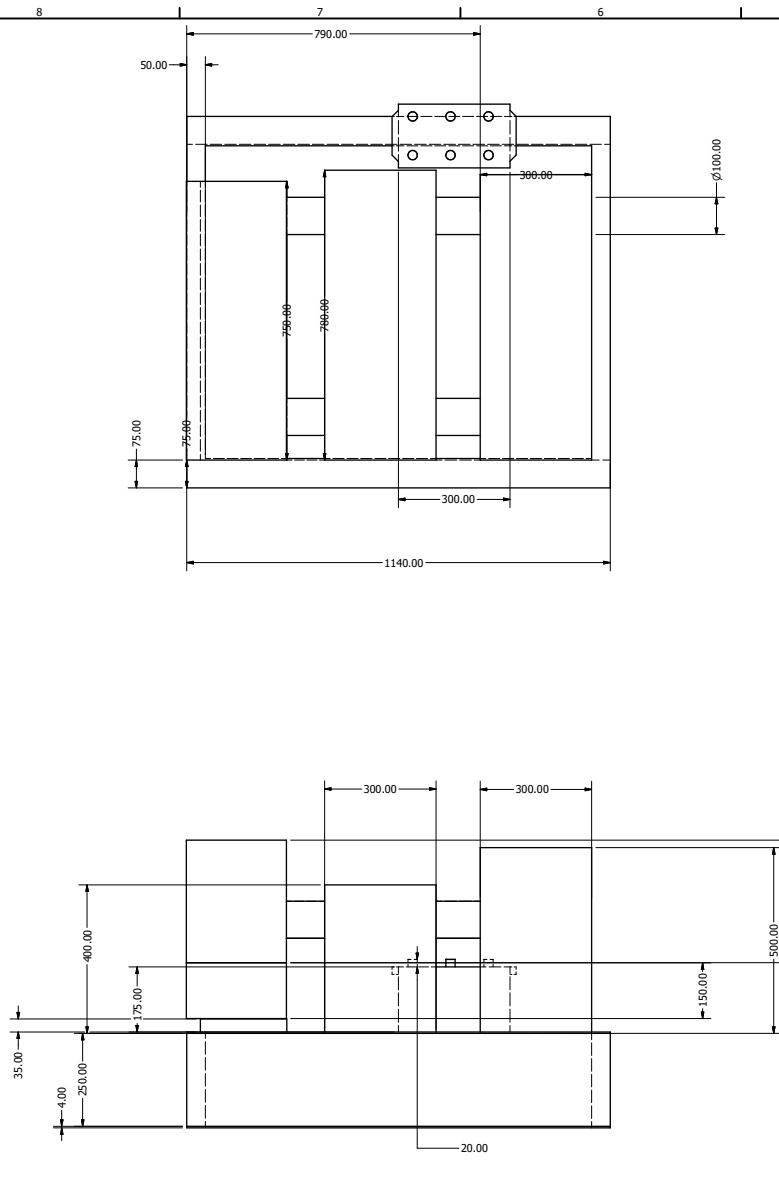
Home Generator.upt X

Ready

25°C Smoke

Search

10:40 AM 11/13/2023



DRAWN HARSH JAMGAONKAR	11/15/2023			
CHECKED				
QA		TITLE		
MFG		ELECTRIC GENERATOR		
APPROVED		SIZE D	DWG NO Harsh_Electric Generator	R
	SCALE 1 :7			SHEET 1 OF 1