

Assembly Structure

Purpose: To automate the creation of a top-level assembly structure (900 Level) based on BEC hedge/excel data.

Functions:

- The tool fetches assembly titles & numbers from hedge excel
- Generate blank assembly structure in solid edge as per hedge excel input
- User can add reference assembly under each assembly if needed.

Constraint:

- Any changes in the Hedge documents template can cause possible failure in the tool.
- The reference model can be placed at 900 and 800 levels only.
- To get a reference model at a further level- use copy and transfer tool followed by the occurrence property tool.

Assembly Structure

User Interface Guide:

1. Open the Automation tool and then the Virtual Structure tool by clicking on it
2. Click "Browse" on the hedge excel path and select the input hedge excel file for a structure.
3. Click "Browse" on the directory and select the output folder for assembly.
4. If the user wants to add a reference model then click "Browse" to add the reference model.
5. After assigning all paths, click on generate assembly button to start the process. Once the process is completed output assembly file is available in the output folder.
6. Close the tool to use other tools if needed

Brookville + Virtual Structure

+ Add/ Update

Hedge Excel Path C:\Users\dipenp\Desktop\PUMP AND GEN DOCUMENT INDEX.xlsx Browse

Output Directory C:\Users\dipenp\Documents\Test BEC Browse

☒ Add User Assembly

Reference Model C:\Users\dipenp\Desktop\User_Asm.asm Browse

Virtual Structure

New Part Creation

Part/ Sheet-Metal Update

Assembly Validation

Design

QC Report

Configuration

1.0.131

Hedge Excel

	Pump Car	Gen Car	Pump Car	Gen Car	Pump Car	Gen Car	Pump Car	Gen Car	Pump Car
CARBODY	CARBODY	OPERATOR CAB	OPERATOR CAB	HYDRAULIC SYSTEM	HYDRAULIC SYSTEM	COUPLER SYSTEM	COUPLER SYSTEM	TRUCK TO CARBODY	
BOD-7	BOD-7	?	?	?	?	?	?	?	
FRAME	FRAME	OPERATOR CONSOLE	OPERATOR CONSOLE	COMPONENTS	COMPONENTS	COUPLER	COUPLER	TRUCK	
FLOORING	FLOORING	CONTROLS	CONTROLS	PLUMBING/ ROUTING	PLUMBING/ ROUTING	COUPLER CARRIER	COUPLER CARRIER	SECONDARY SUSPENSION	
INSULATION	INSULATION	DOORS	DOORS					PLUMBING/ ROUTING	

Close Generate Assembly