

New Part Creation

Purpose : To generate new Profile/structure and sheet metal file as per BEC standard

Functions:

- This tool create the sheetmetal and structure part file based on BEC standards
- Users can select the category and file properties from dropdown menu and it will apply to the newly created part
- The tool will also link the gage table in newly created sheet metal parts through this tool.

Constraint:

- Any changes in BEC Material Data excel can cause possible failure in the tool.

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User Interface Guide:

1. Open the Automation tool and new part creation by clicking on it.
2. Assign Template and BEC material data excel path, skip this step if already assigned.
3. Click get BEC material data to fetch data from BEC material excel.
4. Assign desired file name to file
5. Select a category from the dropdown
6. Select the type and material from a dropdown
7. Click on create part to generate a new file with assigned properties
8. Close the tool to use other tools if needed

The screenshot shows the 'New Part Creation' window of the Brookville software. The interface includes a sidebar on the left with navigation options: 'Add/Update' (with sub-options 'Structure', 'New Part Creation', 'Part/ Sheet-Metal Update', and 'Assembly Validation'), 'Design', 'QC Report', and 'Configuration'. The main area is titled '+ New Part Creation' and contains the following fields and controls:

- 3**: Solid Template Directory: Z:\Technosoft Engineering\BEC\DataBase\Part Template
- 2**: BEC Material Excel Path: Z:\Technosoft Engineering\Excel\BEC_Material.xlsx
- 4**: Get BEC Material Data button
- 5**: File Name: BEC part
- 6**: Category: Structure
- Type: ANGLE
- BEC Code/Material Used: 185-00144
- Material Spec.: ANGLE, 1/2, L8X4, STL, A588
- Thickness: 0.5
- BEC Material: A588
- Template: ANGLE_inch
- Mat Library: BEC MATERIAL LIBRARY
- Length: 9
- Width: 9

At the bottom right, there is a 3D model of an L-shaped part with dimensions: 1.000, 25, R.138, R.079, 250, and 1.000. Below the model are 'Close' and 'Create Part' buttons. A callout **7** points to the 'Create Part' button. The version number '1.0.130' is displayed at the bottom left.