

Raw Material Estimation

Purpose : To generate detailed raw material estimations report of assembly.

Functions:

- The tool combines metadata in a temporary BOM and generates detailed raw material estimation reports based on it.
- The report shows the total order area and length of a similar BEC number.
- It organizes the report based on categories such as plate, profile, and hardware.

Constraint:

- Tool is unable to detect the sizes if the part is modeled with the wrong practice
- In that case User may need to manually update the values in the final report.
- Tool is unable to calculate size if properties are empty or misspelled.

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User Interface Guide:

1. Open the desired assembly in Solid Edge and Activate the tool by clicking on it.
2. Assign Raw material BOM Excel data path
3. Assign the output destination of the report
4. Clicking "Get Current Assembly Data" will initiate the process.
5. Once the process is completed it will show the report in the grid
6. Clicking "Export Excel" will generate the report on the assigned destination.
7. Output report folder will automatically open in windows explorer.

The screenshot shows the 'Raw Material Estimation' window of the BROOKVILLE software. The interface includes a sidebar with navigation options: Add/Update, Design, QC Report, Interference, MTC/ MTR, KPI, Raw Material Estimation (highlighted), Routing Sequence, and Configuration. The main area contains input fields for 'Raw material BOM Excel Path' (Z:\Technosoft Engineering\BEC\DataBase\Excel\RawMaterialBOM.xlsx), 'Get Current Assembly Data' (310-00515-4.asm), and 'Output Directory' (C:\Users\dipenp\Documents\Test BEC). A table displays the estimated materials with columns: Sr, Material_Used, Material, Size, Description, and Description2. The table lists 19 items, including materials like PL3/4A36, 3 1/2" SCH40, SASPQ2RD2-4140, 1/ZLW, and PL1/2A36, along with their descriptions and drawing references. At the bottom right, there are 'Close' and 'Export Excel' buttons.

Sr	Material_Used	Material	Size	Description	Description2
1	PL3/4A36				BASED ON DRAWING 1-9708, 7/23/19 JCM
2	3 1/2" SCH40				BASED ON DRAWING 7-1190, 9/12/19 JCM
3					CREATED 5/20/04 BDC, REVISION 1, MODELED FOR UNIT 9003
4	SASPQ2RD2-4140				BASED ON DRAWING UMF0790, 7/15/19 JCM
5	1/ZLW				
6	PL1/2A36				
7					
8					BASED ON DRAWING 1-9726, 6/24/19 JCM
9					BASED ON DRAWING 1-9532, 6/24/19 JCM
10					BASED ON DRAWING 1-9497, 9/12/19 JCM
11					BASED ON DRAWING 1-9496, 9/12/19 JCM
12					
13					-
14					BASED ON DRAWING 1-9534, 9/12/19 JCM
15	PL1/2A36, 41" X 13 11/32"				-
16	PL1/4A36, 18 1/2" X 3"				
17	PL1/4A36, 9 9/16" X 10 3/4"				-
18	PL1/4A572				CREATED 7/11/04 JCM, REVISION 0, MODELED FOR UNIT 9003
19					BASED ON DRAWING 6-5637, 6/12/19 JCM