Project Deliverables	Score
1. Product Description, HCD approach, Concept Sketches, Pugh Matrix & PDS	
• Complete set of documents	/3
• Clear narrative describing the ideation process and Product	/5
2. Assembly Model • Good, hardcopy shaded renderings • Exploded/unexploded states • Thoughtful choice of views, color added to parts	/5
3. Exploded Assembly Drawing with BOM • Clear, orderly, exploded state, as line drawing printed in black and white • No hidden lines • Neat, organized balloons and Bill of Material • BOM identifies off-the-shelf versus manufactured items	/5
4. Assembly Drawing with Cross-Sections • Three orthogonal views with cutting planes identified on first sheet (small isometric reference view optional) • Clear, large-scale cross-sections; each filling a separate page if clarity and scale requires it • Sufficient cross-section scale to see how parts mate together • Black and white print, format correct, hidden lines optional	/6
5. Detailed Engineering Drawings • Drawings for all manufactured parts, fully-dimensioned • Hidden lines showing in all views except 3D isometric • Center lines shown and no dimensioning to hidden lines • Appropriate tolerances (ISO fits for moving parts) • Text positioned outside part views, no overlapping text • Arrowheads not overlapping, flipped correctly and cleanly	/7
6. Tolerance Analysis • Radial/Diametral fits explained • Axial fits explained along with worst-case tolerance calcs.	/5
7. Materials and Manufacturability • Materials and Manufacturing methods with aPriori cost estimates in excel Manufacturing_BOM_Template.xls • Catalog information shown for off-the-shelf items	/5
8. Complexity, Creativity & Innovation • Clear or novel concept with innovative designs • Did the group challenge themselves with product or design complexity?	/4

Note: Total is 100 pts. An additional 10% is allocated based on individual contribution to the project via the CATME evaluation; added to the final gradesheet.

	Total Grade		/45

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