



3D print a sensor in plastic

The temperature instrument holder is currently in operation as a GEA product. The purpose of the project is to re-design the instrument from several pieces to a single piece that fulfill a few criteria. The focus on the case can be changed based on the interests of the participants.



Design Criteria

- Instead of several pieces GEA is interested in a probe holder consisting of 1
 piece
- Temperature environment: -60° to 125°
- Surface roughness Ra < 0.8
- Sanitary design
- Simulate/test for lifetime cycles to prevent fatigue failure
- Yearly amount to manufacture: 200 pcs

Focus of the case

The case will be described for the chosen team, but includes the topics:

- 1. Optimizing the part (CAD 3D)
- 2. Understanding the Processes
- 3. Technical Properties found using test facilities
- 4. Business case

The above points are meant as an inspiration to further dialogue as we will work on a final project description in cooperation.

GEA Group is a global engineering company with over 18.000 employees.