

3D Printing and Prototyping



Every project in the field of 3D printing and prototyping begins with understanding your goals and ends with a functional solution that meets your specific needs.

- **Initial Request and Problem Analysis**

The client provides basic information about their prototyping needs, including the type of product, material, functional requirements, and any challenges related to production or design.

- **Meeting and Information Exchange**

We organize a meeting with the client to understand the prototype requirements, including specific materials, colors, and dimensions. Additionally, we explore the finishing and functionality requirements for the prototype.

- **Defining Technical Parameters**

Together with the client, we define key technical parameters such as: prototype type (visual, functional, test), dimensions, materials, and functional or aesthetic characteristics. We also discuss the necessary precision and potential testing requirements.

- **Preparing the 3D Model for Printing**

Based on the provided model, we optimize the 3D model for printing, taking into account printer specifications, as well as required parameters such as infill density, object orientation, and layer size.

- **Material Selection and Printing Technology**

Choosing the right material is critical to achieving the desired prototype characteristics. Together with the client, we select the best option in accordance with functionality and budget.

- **3D Printing of the Prototype**

Based on the final model and selected parameters, we print the prototype using the appropriate 3D printer and materials. This process can take anywhere from several hours to several days, depending on the complexity of the model.

- **Post-Processing and Finishing**

After printing, the prototype undergoes processing (sanding, painting, gluing, assembling parts) to achieve the desired aesthetic and functional appearance. This step may also include fitting and functionality testing.

- **Prototype Testing and Evaluation**

The prototype is tested under real-world conditions to check its performance, durability, and compatibility with the design. Based on the results, the client may request changes or improvements.

- **Design Revision and Finalization**

Based on feedback and testing results, we make necessary changes to the design and prepare the final prototype, ready for mass production or further testing.

- **Optional: Mass Production and Commissioning**

If the client is satisfied with the prototype, we can organize mass production, taking into account the efficiency and cost-effectiveness of the entire process.



InfraTech

Our 3D printers:

- **Bambu Lab P1s;**
- **Creality K1;**
- **Creality K1 MAX;**
- **Elegoo Saturn 3;**
- **Elegoo Saturn 3 Ultra;**
- **Elego Saturn 4 Ultra;**
- **Creality Halot Mage Pro 8k.**















