From Idea to Innovation

InfraTech

Product Development Process

Our product development process is based on a thorough research approach and constant collaboration with the client. Every stage is carefully designed to ensure the highest quality and precision in the final product.

- **Your inquiry and initial meeting**

  In the initial phase, we analyze your inquiry and arrange a meeting to fully understand your requirements. We discuss the type of product, its application, and specific market needs.

- **Design discussion**

  During the meeting, we discuss possible designs – we can either work with your design proposals or analyze the competition to create a product that stands out in the market.

- **Material selection**

  We define the appropriate material for the product, aligning it with functional, aesthetic, and application-specific requirements.

- **Compliance with standards**

  We check whether the product meets the relevant industry and regulatory standards to ensure it is safe and accepted in the market.

- **Design proposals**

  After analysis, our experts prepare several design proposals that best match your needs and requirements.

- **Development of the final solution**

  Based on the agreed proposals, we proceed with the final development of the product, optimizing it for functionality, aesthetics, and production efficiency.

- **3D model and technical drawings preparation**

  We create detailed 3D models of the product, along with technical drawings with tolerances that provide a clear visualization and insight into every aspect of the product.

- **Prototyping and 3D printing**

  We manufacture a product prototype using 3D printing, allowing you to physically test and analyze the form before moving to final production.

- **FEM analysis**

  The product undergoes Finite Element Method (FEM) analysis to assess its strength, durability, and performance under different loading conditions.

- **Finalization of documentation**

  We prepare the complete technical documentation, including drawings, specifications, and other relevant data needed for manufacturing and product implementation.

- **Final product**

  We create professional render images of the product to visualize it in real-world conditions. You will also receive STP/STL models, PDF technical drawings, and 3D printed models.

Translational displacement ma
mm
0.686
0.618
0.549
0.48
0.412
0.343
0.274
0.206
0.137
0.0686
0

On Boundary