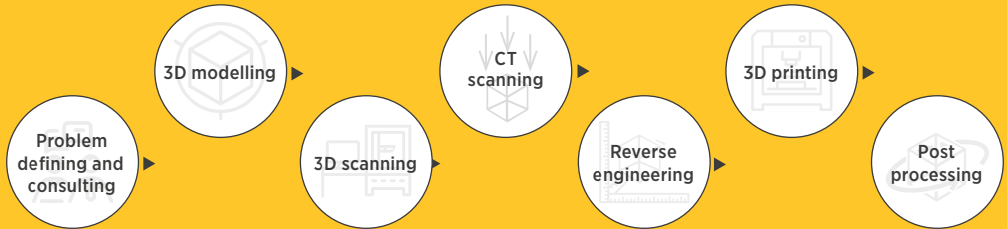




**3D PRINTING
SERVICES**

From idea to product



Problem defining and consulting:

- Support in complex R&D activities
- The option of taking over the entire product development process or starting at any phase of the process

3D modelling:

- Start from conceptual designs, 2D drawings or physical pieces
- Use of the latest 3D CAD software and 3D printing technologies
- Optimal product development process

3D scanning:

- Conversion of physical objects including all details into a virtual 3D model
- Digitalisation and archiving of technical and cultural heritage
- Creation of 3D models for use on websites
- Handheld scanner: used to scan large objects; lightweight and portable (we can bring it anywhere); 3D point accuracy up to 0,1mm
- Desktop scanner: scanning area 80x60x60mm; accuracy up to 50µm

CT scanning:

- Non-destructive defect analysis detects porosities and inclusions in components
- All located indications may be sorted according to size and visualized in colour in their 3D-volume and in single sectional views

Reverse engineering:

- CAD model reconstruction
- Comparative analysis of 3D measuring data with the original CAD model
- Improvement, correction and optimization of the existing product designs

3D printing:

- Production of prototypes, spare parts, final products, unique personalized items, scale models, tools and moulds and much more

- Similar mechanical properties as products manufactured using traditional methods, good chemical resistance
- Use of various 3D printing technologies according to the purpose of the product

Post processing:

- Tumble and hand polishing, deep painting, lacquering, sanding, puttying, lacquering, gluing
- Visual appearance of products manufactured using traditional methods
- Dirt -resistant surface

What do we print?

- Conceptual and functional prototypes
- Small scale production of spare parts and final products
- Scale models and landscape models
- Unique personalized items, jewellery, fashion accessories, promotional items and business gifts
- Tools and moulds
- Medical products

3D printing services for anyone:

- For all areas from the automotive, electronic, home appliance, tool making, defence, aviation, consumer, craft and fashion industries
- For engineers and product designers, jewellers, artists, urban planners and architects
- For research and education

Advantages of 3D printing:

- The shortest possible path from idea to realization
- Suitable for small scale production and final products
- Direct digital manufacturing
- Manufacturing of highly complex geometries
- Option of improving existing shapes
- Fast delivery
- Flexible production without stockpiling
- Optimal cost of production without any additional investments
- Supply chain simplification

Quotation requirements:

- 3D model in a neutral file format (.STL, STEP or IGES)
- Material specification
- Quantity
- Surface finish