

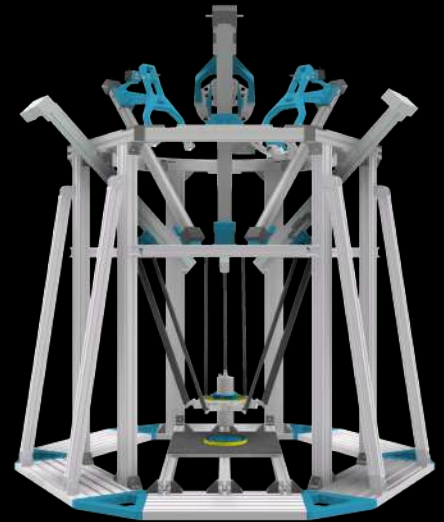
# SERVICES PORTFOLIO:



## EMPOWERING RESILIENT ORGANIZATIONS THROUGH ADVANCED ADDITIVE AND HYBRID MANUFACTURING

SmartZavod offers a comprehensive portfolio of services that empowers organizations to become resilient and future-proof through cutting-edge additive and hybrid manufacturing technologies. Our key innovation lies in hybrid manufacturing equipment with a patented automatic tool change system and a parallel kinematic moving system. This breakthrough enables diverse technological capabilities, such as subtractive post-processing and the fusion of various material groups within a single setup, including composites, engineering polymers, silicones, and ceramics.

As a result, SmartZavod's services strategically address challenges faced by high-tech SMEs, focusing on mass customization, flexibility, worker skill enhancement, supply chain transparency, and circular processes.



### 1. ADDITIVE AND HYBRID MANUFACTURING SOLUTIONS AND SERVICES:

- Providing end-to-end additive manufacturing solutions tailored to the unique needs of our clients
- On-demand service of customizing hybrid 3D printers for specific use cases in medium and large companies by adding other unique tools and technologies to the modular architecture of the printer
- Hybrid 3D printing in-house service for complex polymer parts (composites, silicones, compounds, ceramics)

### 2. RESILIENCE-DRIVEN CONSULTING:

- We help organizations integrate visibility and transparency throughout their supply chain using our PaaS solution
- Hybrid and additive manufacturing consulting for SMEs

### 3. CIRCULAR MANUFACTURING STRATEGIES:

- At SmartZavod, we emphasize the implementation of circular processes that promote sustainability and resource efficiency. We support businesses in adopting practices that reuse, repurpose, and recycle resources, minimizing waste and environmental impact, in specific, polymer materials.

### 4. SKILLING AND TRAINING PROGRAMS:

- To ensure our clients' workforce is equipped with the necessary expertise, we offer skilling and training programs in digital rapid prototyping, FEM analysis, CAD design, and hybrid manufacturing.

## USE CASES:



### MACHINERY AND INDUSTRIAL EQUIPMENT SECTOR

Manufacturing on demand of customized end products and spare parts from engineering polymers with high accuracy using a hybrid printer. (A project with OSV Tech Poland)



### MEDTECH

Remote production of complex models of human brain and skull for neurosurgical preoperative planning. Different materials are combined in a single tech cycle. (Project with national children's specialized hospital Okhmatdyt Kyiv)

## OUR CORE COMPETENCES

SmartZavod is the **highly skilled team** with expertise in digital rapid prototyping, machine tool design, industrial marketing, FEM, MBS and CFD analysis, CAD design and software development.

The Cofounders **Oleksii Solntsev (CEO)** and **Anton Yakhno (CTO)** have a unique combined experience and education in machine tool design (KPI, Kyiv, M.Sc.) and simulation techniques (Hochschule Hof, M.Eng).



## CONTACT US

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