VTT 3DMetalprint

Cost-effective and optimised products through digital revolution
VTT 3DMetalprint concept brings top level expertise and unique infrastructure to support your 3D printing development activities. It enables a new, economical way to produce optimised and cost-effective products with digital process. Overall process efficiency as well as application-specific aspects are taken into account.

**Applications**

**Competitive products and new business models**
- New optimised designs
- Clever management of spare part inventory
- Embedded intelligence and functionality

**Production**

**Commissioning support for the new technology**
- Quality assurance
- Post-processing strategies

**Materials**

**Increased quality and component performance**
- Additive manufacturing integration into production
- Powder printability
- Application driven materials
- Computational material development
We bring your ideas to life

Everything is tested in practice by manufacturing prototypes and concept parts. The whole production chain from design and raw materials to field-testing of finished parts is covered.

By pilot production, raw materials that are not yet industrially available can be generated. The real manufactured parts offer concrete examples of the concept potentiality as well as the technology risks. The prototype gives the first idea on the business feasibility. The actual product enables a genuine user experience.

- Gas atomisation
- Plasma spheroidisation
- Powder characterisation
- Selective laser melting
- Direct write
- Post processing
- Component testing

VTT 3DMetalprint concept helps you with new and rapidly evolving technologies by minimising risks and opening up new opportunities using the latest technologies.

Your decision making is supported by facts and strong know-how

3D CHALLENGES
Financial feasibility
Applicability
Material restrictions
Quality assurance

3D BENEFITS
Digital spare parts
Local operation
Weight, size and structure
Embedded intelligence
Printed assembly
VTT is a visionary research, development and innovation partner. We drive sustainable growth and tackle the biggest global challenges of our time and turn them into growth opportunities. We go beyond the obvious to help the society and companies to grow through technological innovations.

VTT is at the sweet spot where innovation and business come together.

**VTT beyond the obvious**

Get in touch with us:

**Tuomas Pinomaa**  
Product Manager, CAL  
+358 40 687 3054  
tuomas.pinomaa@vtt.fi

**Mika Malkamäki**  
Solution Sales Lead  
+358 40 502 8586  
mika.malkamaki@vtt.fi

**Pasi Puukko**  
Research Team Leader  
+358 40 687 3054  
pasi.puukko@vtt.fi

www.vttresearch.com/3d-printing