

## Rapid Prototyping

### Trust the experts, save time

A product evolves at each stage of the development process. Each stage brings new insights, while placing different demands on the components. At Oerlikon AM we can work with you through every stage, helping move your initial idea into a design, a prototype and on into the production model. Our service means saving your most precious resource, time. As innovation cycles are shrinking in length, and time to market increasingly determines an innovation's success, we take the "rapid" in "rapid prototyping" seriously.

#### Wide range of alloys

Today's components have to perform increasingly complex functions requiring different materials. We offer a range of component materials. Whether the ideal component is in metal, plastic or ceramic, we've got it!

#### Your choice of printers

We have a broad choice of printers at your disposal. We can help you choose the best printers for your applications based on material, size and functional requirements.

#### Manufacturing options

We can offer the best prototyping technology for the application; we are not just an AM company. We have the CNC milling and casting capabilities to service all your prototyping needs.

#### High quality parts

All our parts are printed with coupons, which are tested in-house before dispatch. Your prototype will be a functional prototype.

#### Post processing

We know that the post-processing of a part is critical to its final functionality; we offer CNC machining, hot isostatic pressing and heat treatment. Having all of this at your disposal means we can ensure the quality and lead time you need.

#### Specialists in aluminium

We are the expert aluminium AM part producers for the automotive industry in Germany. We have the widest range of aluminium alloys we can print with, including Scalmalloy.

#### Deep expertise in industrial applications

We can help our customers overcome even the most demanding design needs, whatever the application. In particular, we have deep expertise in aerospace, defence, automotive and power generation.



20+ years  
experience

Fast response

Individual  
expert advice

Quality and  
flexibility

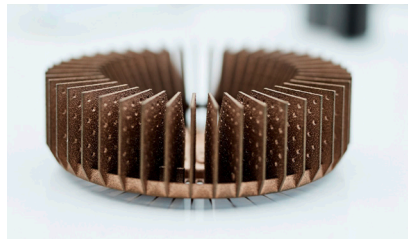


## AM Metal Production

EU / USA

### Materials

<b>Al</b>	AlSi9Cu3, AlSi7Mg, AlSi10Mg, AlSi12CuNiMg, AlMgSc (Scalmalloy)
<b>Ni</b>	Alloy 718 (2.4668), Alloy 625 (2.4856), Alloy X (2.4665), Haynes 282
<b>Co</b>	CoCrMo (F75)
<b>Fe</b>	18 Ni Maraging Steel (1.2709), 316L (1.4404), 17-4PH (1.4542), 1.4859, 1.4308 (CF8)
<b>Ti</b>	Ti-6Al-4V
<b>Cu</b>	CuNi2SiCr

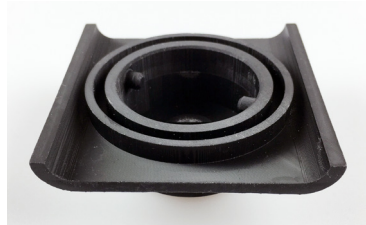
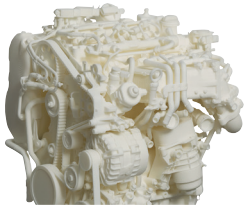


### Laser Powder Bed Fusion of Metals (PBF-LB/M) also known as SLM

<b>Concept Laser / Arcam</b>	2x Concept Laser M2 (1kW)	3x Concept Laser M2 (2x 400W)	1x Arcam Q20+	
<b>EOS</b>	1x EOS M270 (200 W)	3x EOS M280 (400W)	12x EOS M290 (400 W)	5x EOS M400 (1kW)
<b>Trumpf</b>	4x Trumpf TruPrint 1000 (200W)	3x Trumpf TruPrint 3000 (500W)		
<b>SLM Solutions</b>	3x SLM280HL (400W)	1x SLM280HL (2x 400W)	1x SLM 125HL (400 W)	
<b>Renishaw</b>	1x RenAM 400HT (400 W)	1x RenAM 500Q (4x 500 W)		

## AM Polymer Production

EU



### Laser Powder Bed Fusion of Polymers (PBF-LB/P) also known as SLS

<b>EOS</b>	1x EOS Formiga P100	1x EOS Formiga P110	1x EOSINT P390i	2x EOSINT P396i
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### Materials

Polyamides: PA12, PA12-GB, PA12-CF, PA12-Al (Alumide™)

Thermoplastic Polyurethane (TPU)

### Vat Photopolymerization (VPP) also known as CLIP

**Carbon** 3x M2 Printer / 1x Smart Part Washer

**Materials:** EPU, RPU, CE, UMA

## AM Ceramic Production

EU



### MJT – Material Jetting of Ceramics also known as NanoParticle Jetting™

**XJet** 1x XJet Carmel 1400 AM

**Material:** Zirconia (ZrO2)

## Conventional Manufacturing Technologies

EU

- Sand/ Precision Casting
- Die Casting
- HSC/CNC Milling
- Injection Molding
- Elastic Components

Let's start taking rapid  
prototyping seriously.  
**Request a quote**



**Questions?** Contact us:

**EU** +49 39203 5106 0 [am.sales.eu@oerlikon.com](mailto:am.sales.eu@oerlikon.com)

**USA** + 1 770-575-2899 [am.sales.us@oerlikon.com](mailto:am.sales.us@oerlikon.com)

[www.oerlikon.com/am](http://www.oerlikon.com/am)

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