SLM Innovation aus Edelmetallen, Kobalt Chrom und Titanlegierungen auf ReaLizer SLM Maschinen

Dr. Andreas Redler, ReaLizer GmbH, Borchen

Schmuck Produktion

Material : Gold 75K

Material: Platin

Material: Rotgold

ALLOYS & MASTER ALLOYS

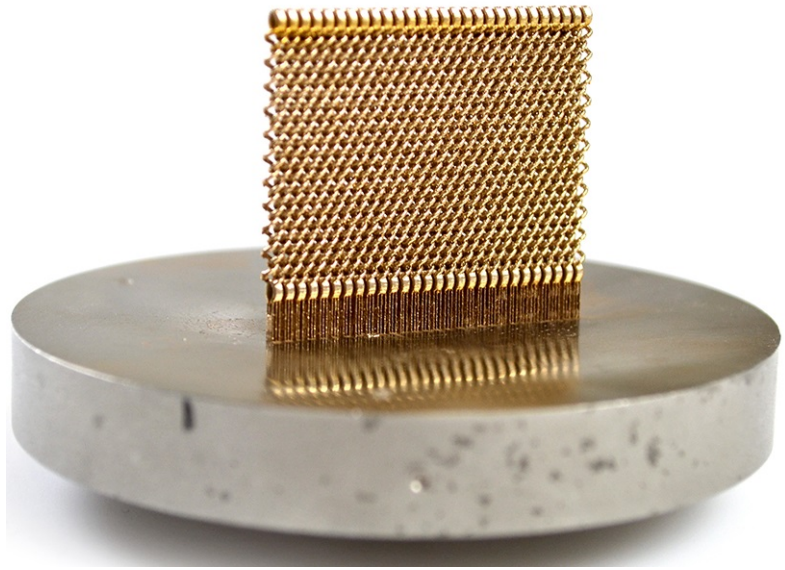
progold master alloys

Know Quality Choose Progold

Schmuck Produktion

POWDER ALLOYS

SLM by Progold



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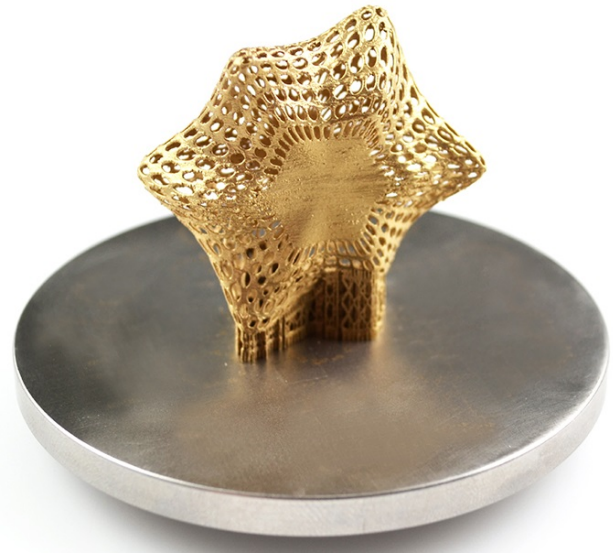
SLM by Progold



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SLM Produktion von Schmuck sinnvoll

- Die Serienproduktion von Goldringen (>5000 Stk.) wird schon durchgeführt
- Materialdurchsatz pro Monat 5 bis 20 kg Gold
- Vorteile sind Volumenersparnis durch Hohlstrukturen, Herstellung von komplizierten Gitterstrukturen, hohe Gefügedichte und damit gute Polierbarkeit.
- Schnelle Verfügbarkeit in allen Ringgrößen

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Produktionsmaschine
ReaLizer SLM50

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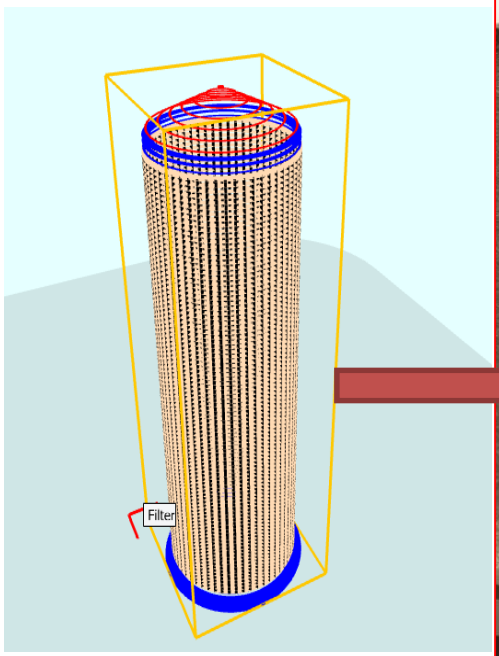
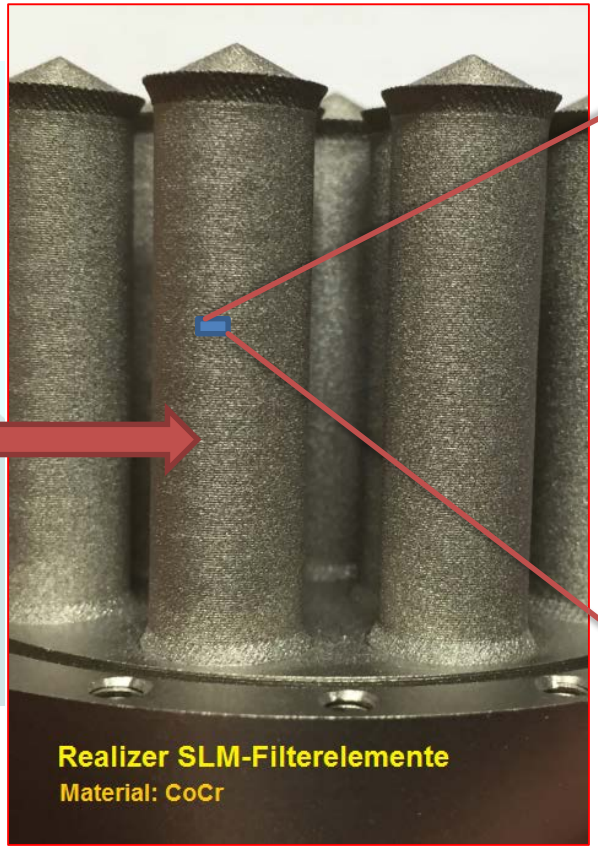
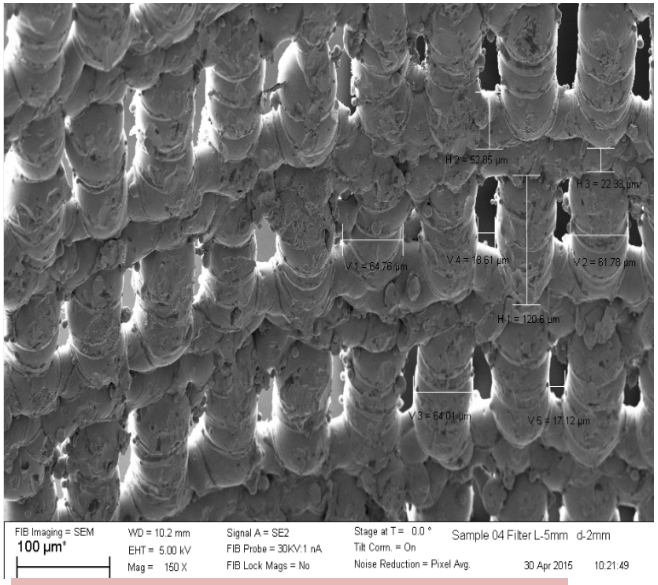
Filter Produktion

Material : CoCr

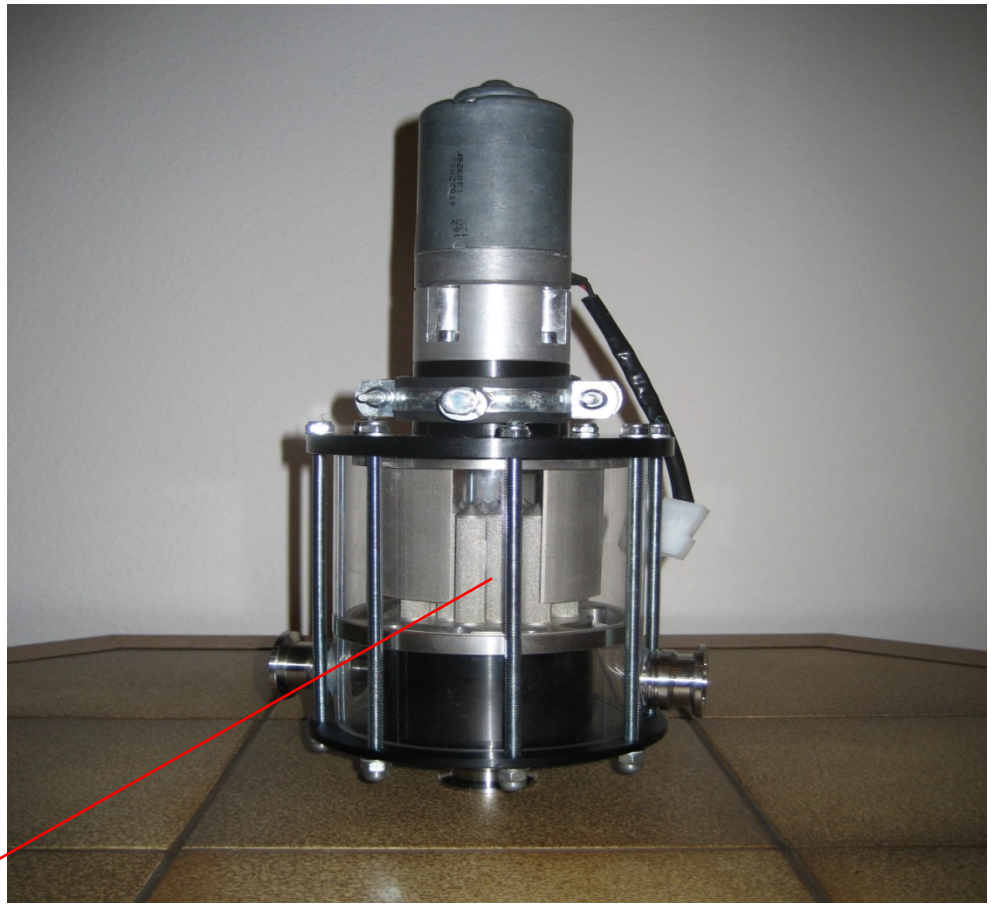






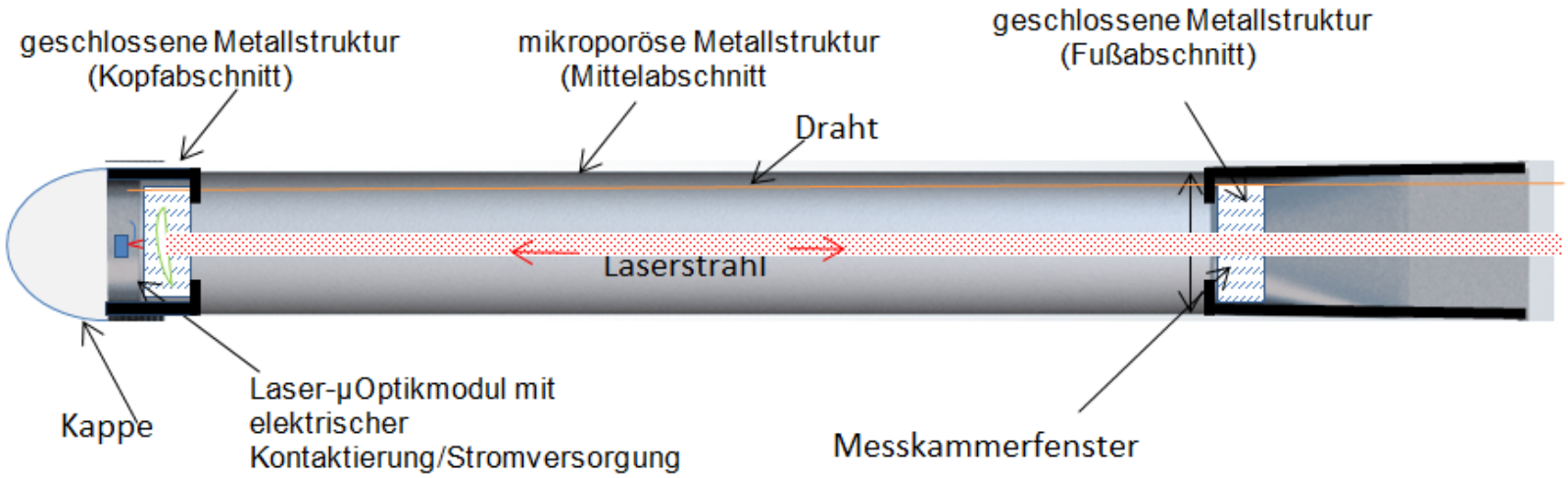
15µm Spaltbreite

SLM gefertigter Rückspülfilter



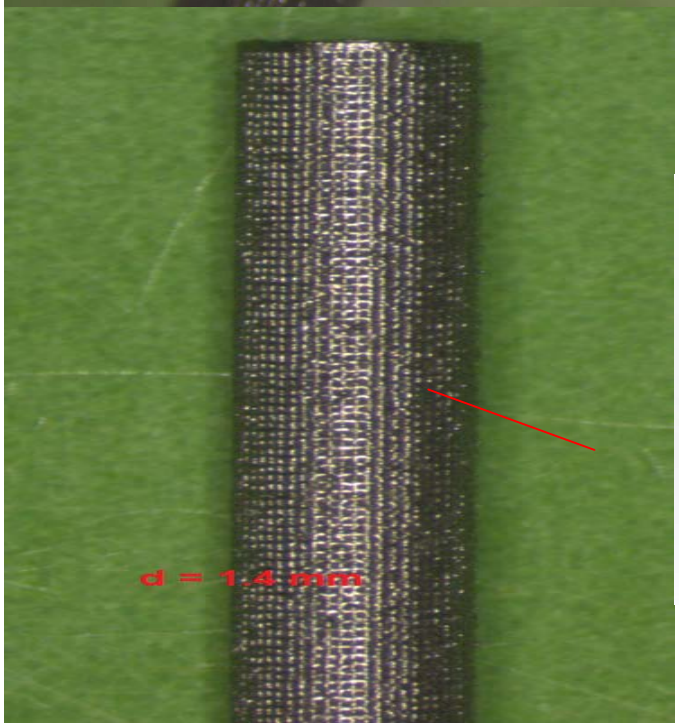
SLM Filterelement (ReaLizer SLM125)

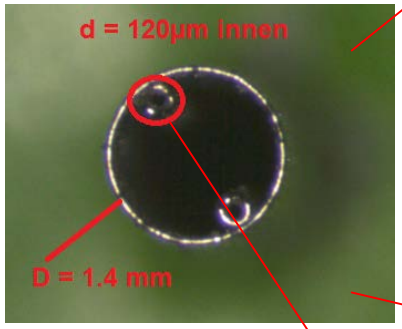
Diffusionssensor mit mikroporöser SLM Metallstruktur

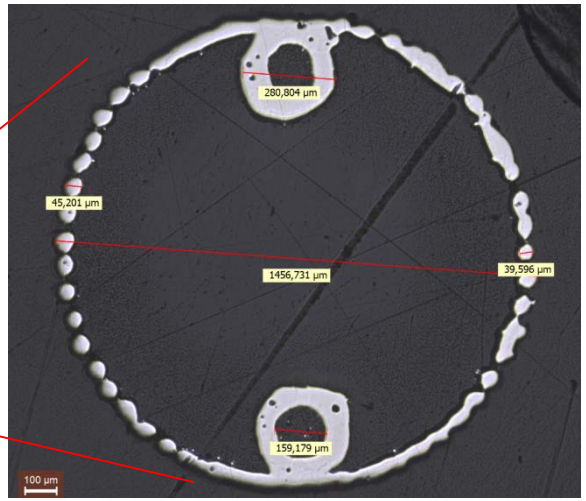


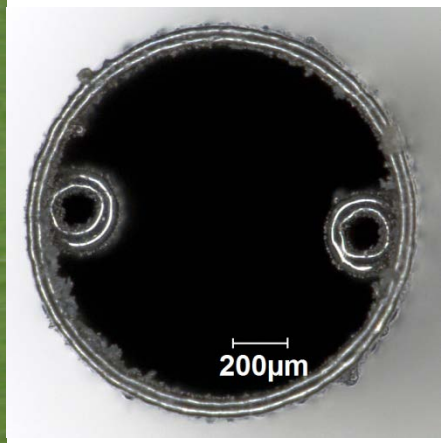
L = 28 mm , Durchmesser 1.6 mm

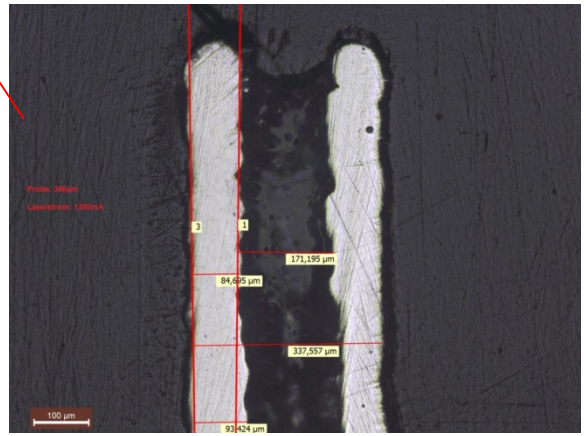
Diffusionskanüle inkl. Kabelkanäle



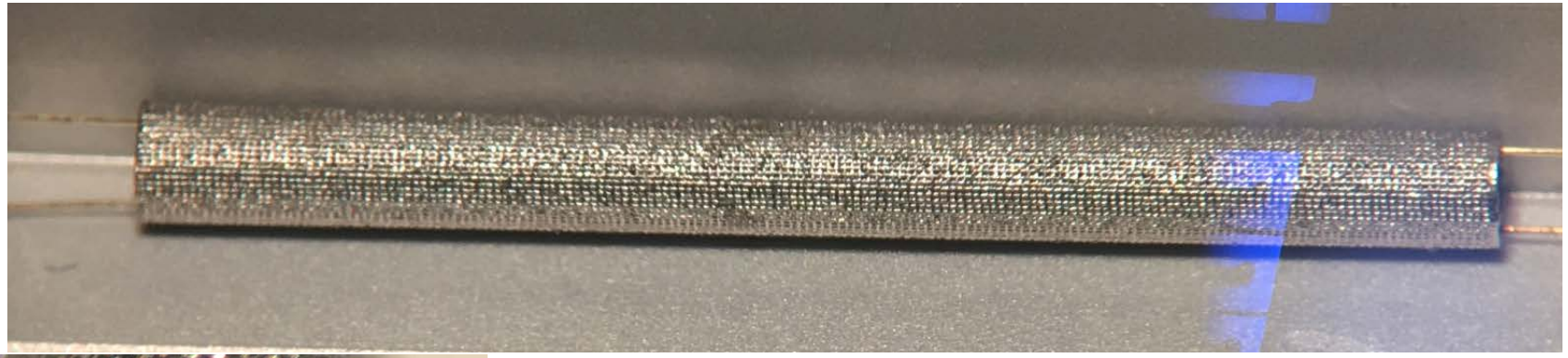


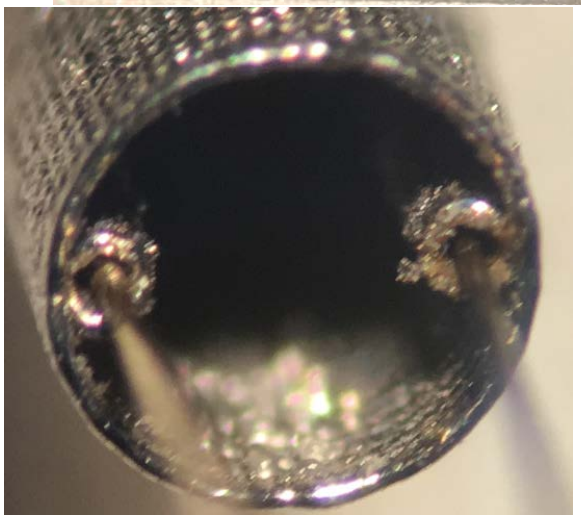


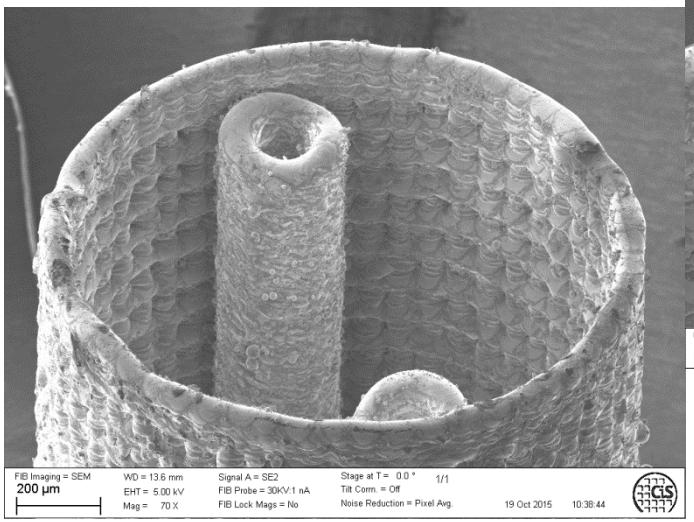


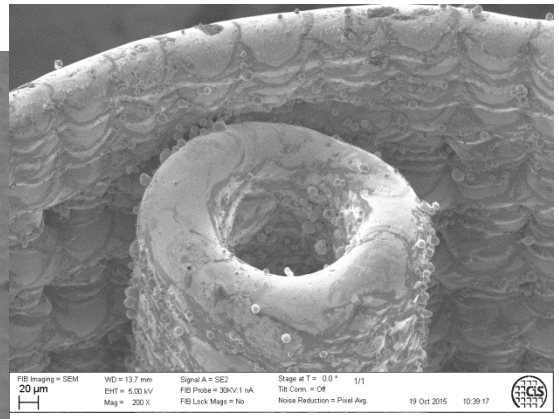


Kabelkanäle für Drahtdurchführung









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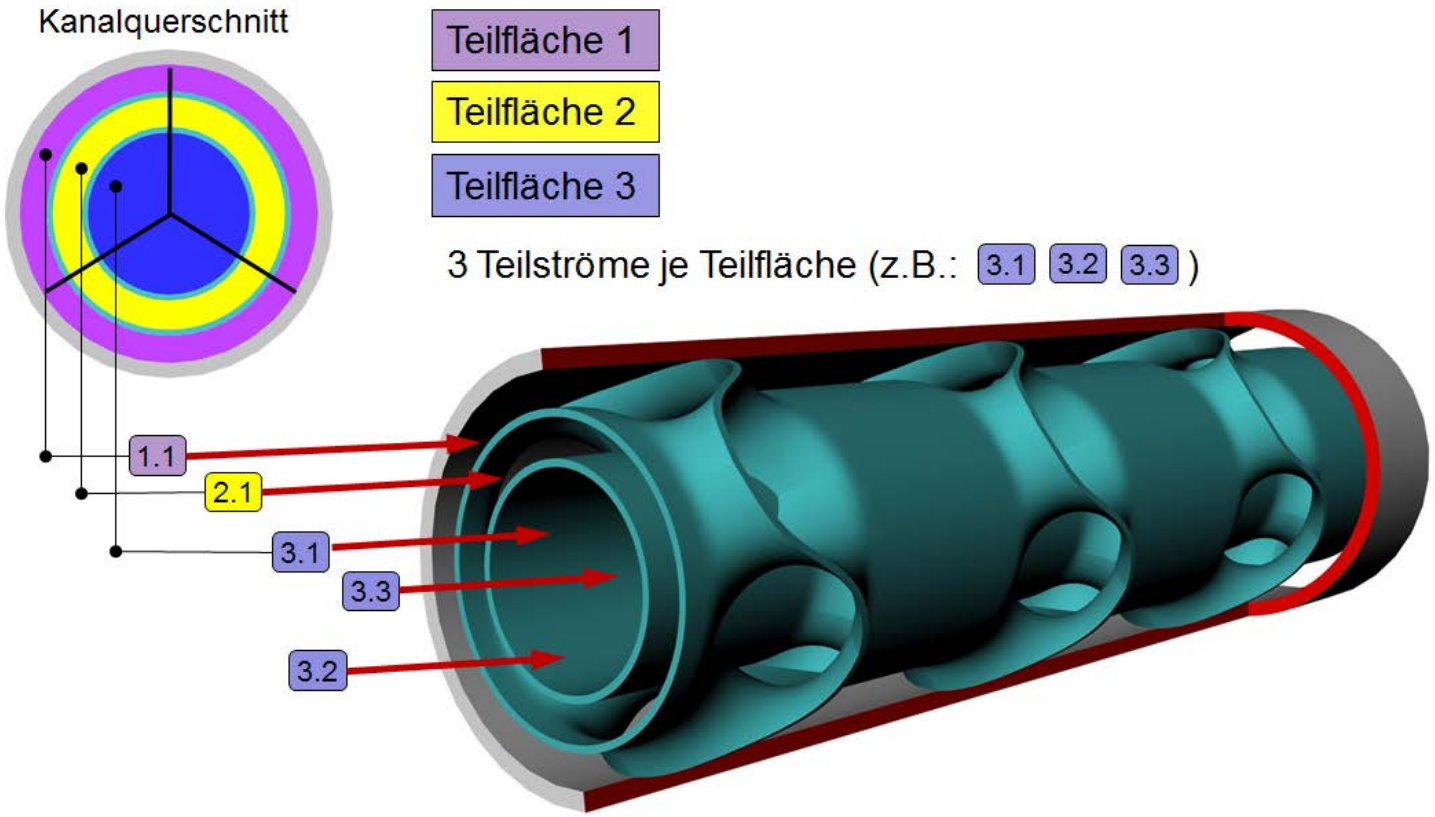
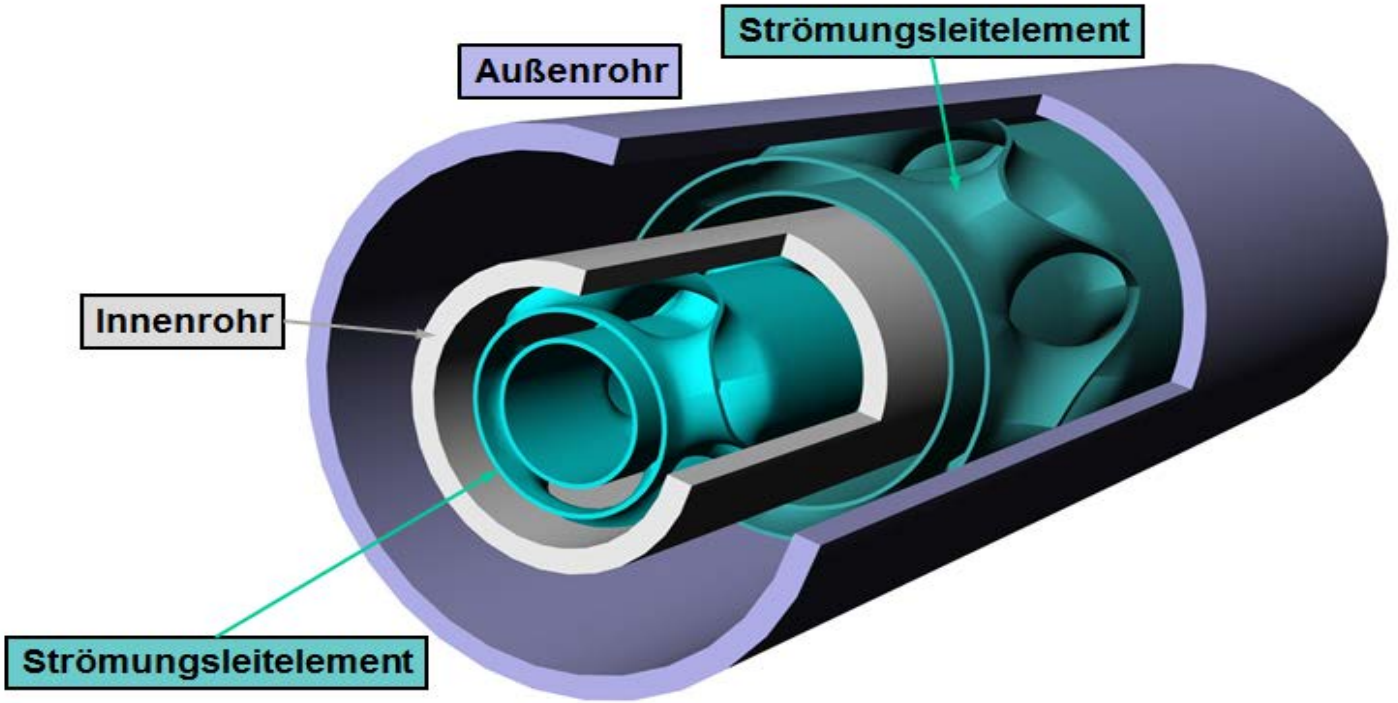
Mikrowärmetauscher

Forschungszentrum Karlsruhe, Edgar Hansjosten



Gegenstromwärmetauscher



SLM gefertigte Strömungselemente sorgen für einen hocheffizienten Wärmeaustausch von Flüssigkeiten im Innenrohr und Außenrohr

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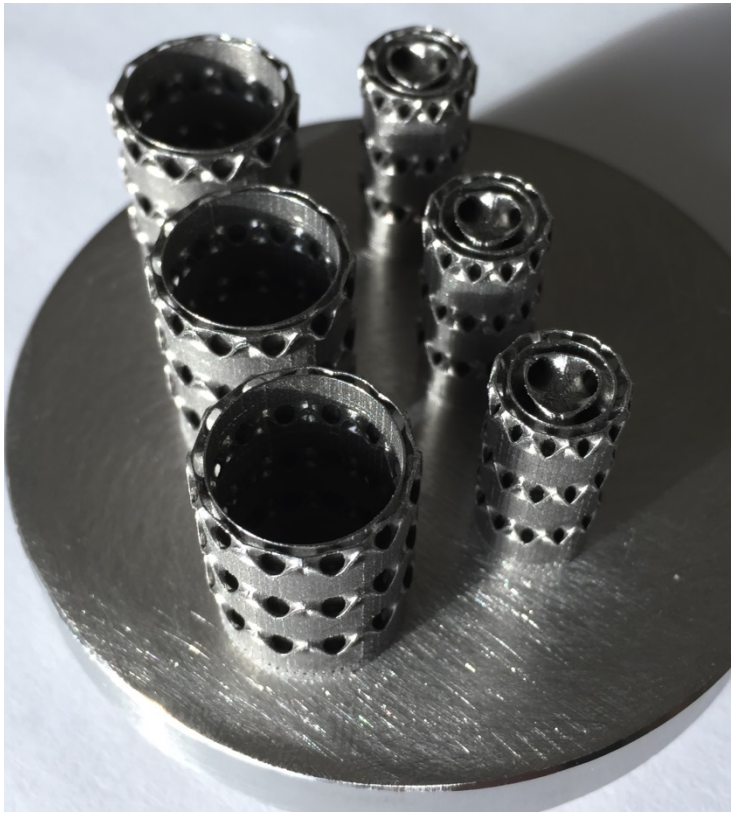
Gegenstromwärmetauscher



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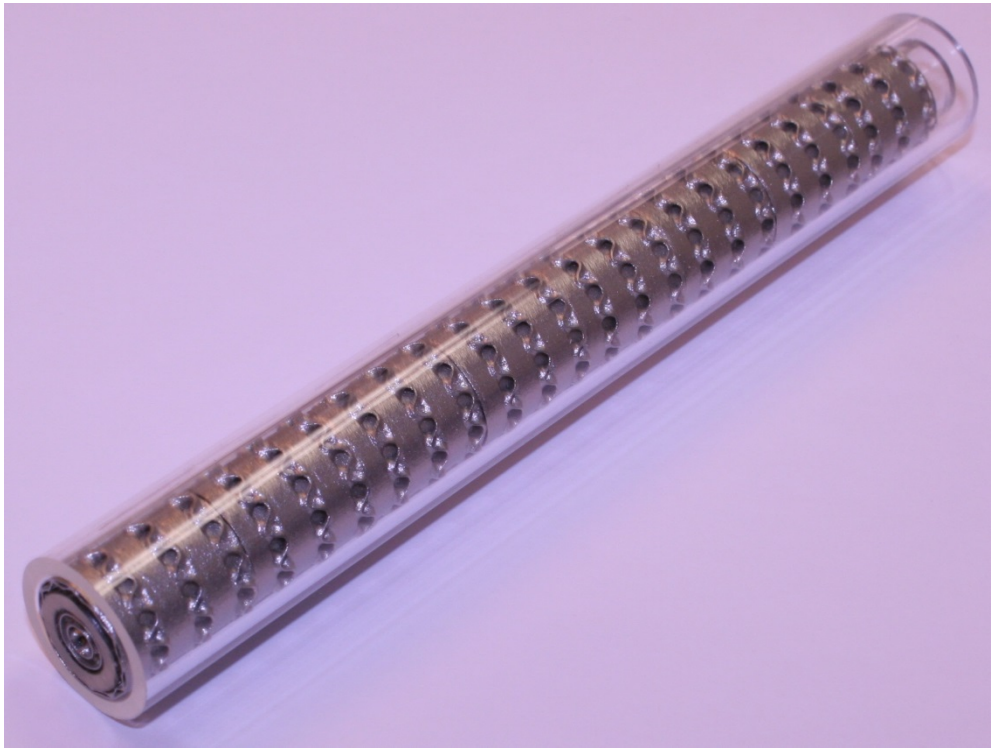
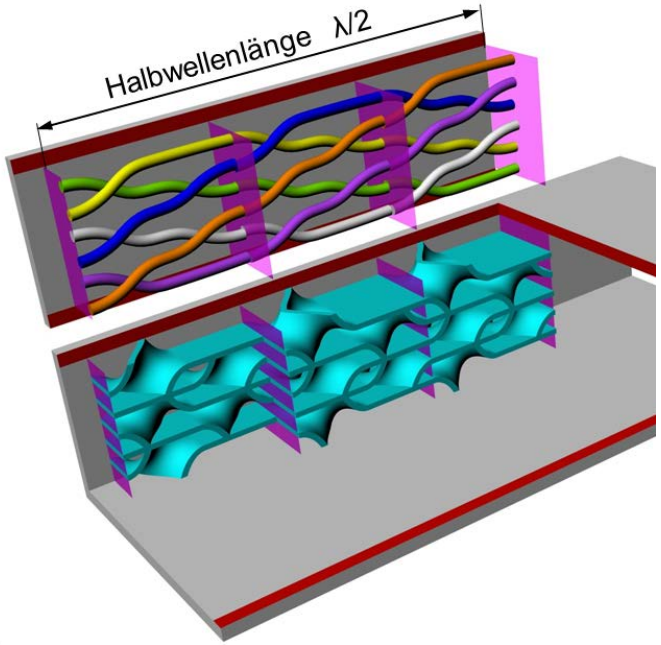
Gegenstromwärmetauscher



SLM gefertigter Wärmetauscher

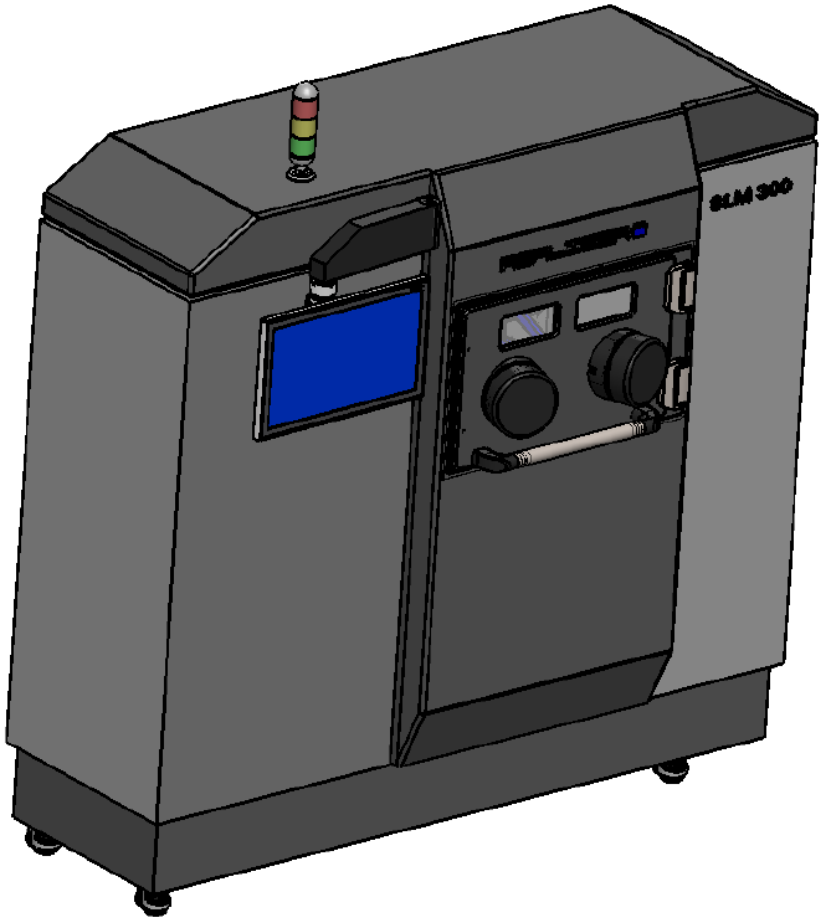
Beispiel 2: Strömungsführung (Prinzipdarstellung)

1.1	1.2	1.3
2.1	2.2	2.3
3.1	3.2	3.3
4.1	4.2	4.3
5.1	5.2	5.3
6.1	6.2	6.3



Material : Titan

Produktionsmaschinen
Realizer SLM125 u. SLM300



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Weitere SLM Produktionsbauteile

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POWERED BY
tct

17.11 - 20.11.2015
Frankfurt

Halle 3.1 E31

Vielen Dank für die Aufmerksamkeit!