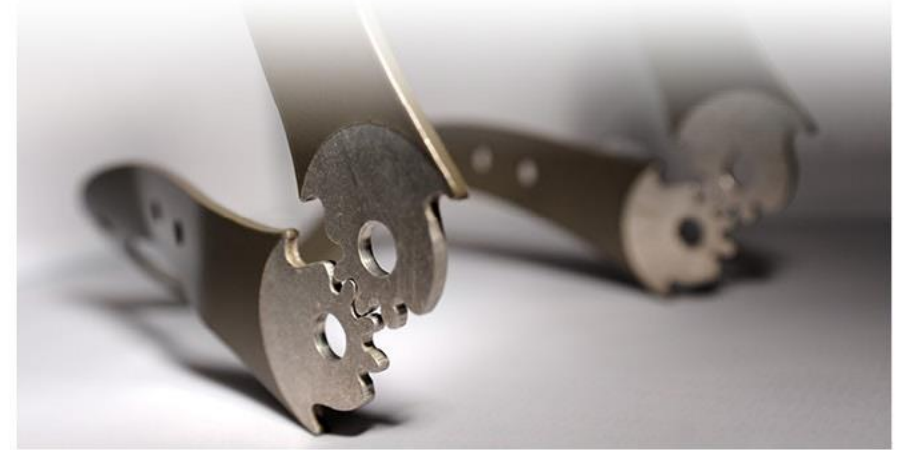
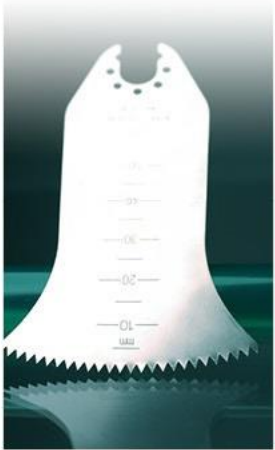


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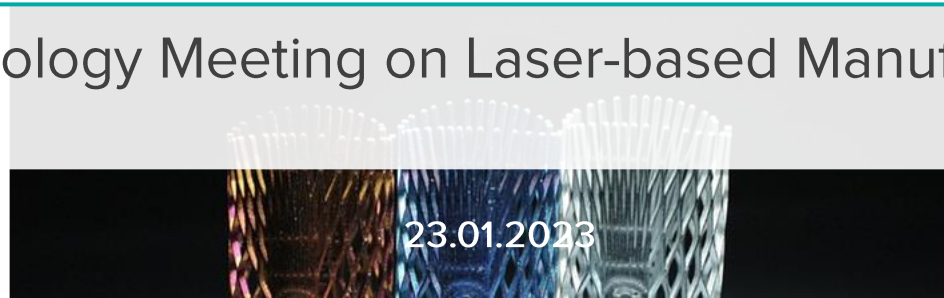
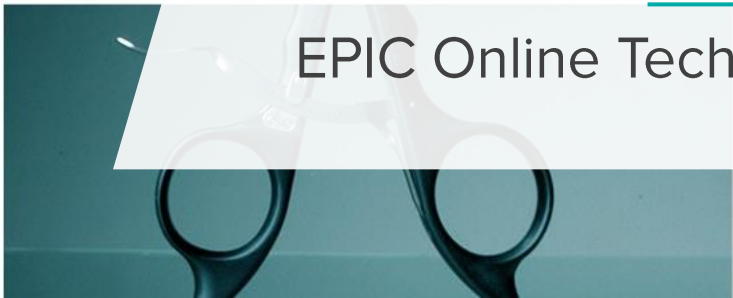
[_Meko.de](https://www.meko.de)

MeKo
MEDTECH

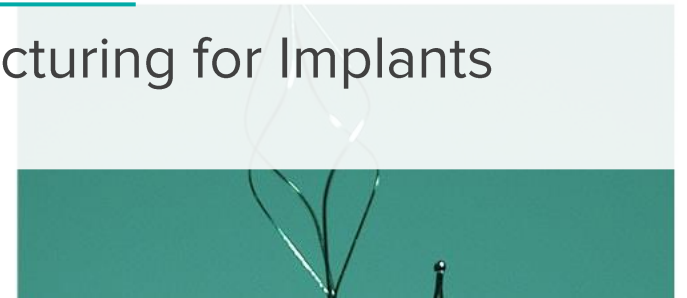


Insights into Implant Manufacturing

EPIC Online Technology Meeting on Laser-based Manufacturing for Implants



23.01.2023



MeKo Manufacturing e.K.



One-Man Workshop with Solid State Laser

Nitinol Stent Production

Stent Production

ISO 13485 certification

Laser Cutting of Biopolymers

30 Years MeKo

First CO₂ Laser

Post Processing Departments

200 employees

> 300 employees

100 Employees

Variety of Laser Machine Park

	Fiber macro scaled application	Fiber micro scaled application	Ultrashort Pulse
Material	Metal	Metal	Metal, Polymer
Technical Features	2-6 kW 70-100 μm	100-500 W 12-25 μm	Wavelength of 1030 / 515 / 310 nm
Precision	$\pm 10 \mu\text{m}$	$\pm 5 \mu\text{m}$	$\pm 2 \mu\text{m}$
Application	Components for orthoses and prostheses	Stents, Heart Valve Frames, Baskets	Micro Holes for Drug Delivery Balloon Catheters

Decision Making

Customer Demands

Economic Efficiency

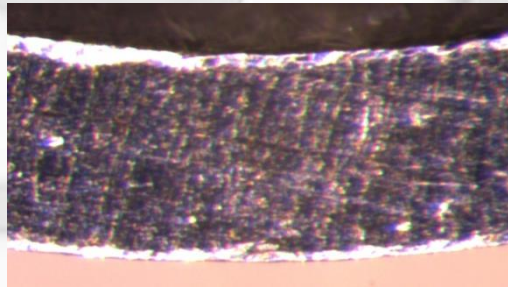
Material

Post Processing

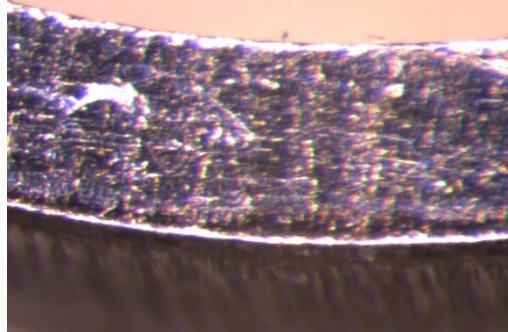
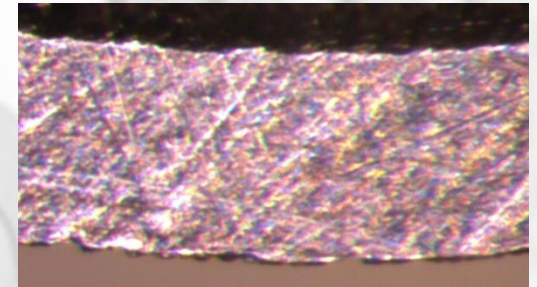
Decision Making

Material

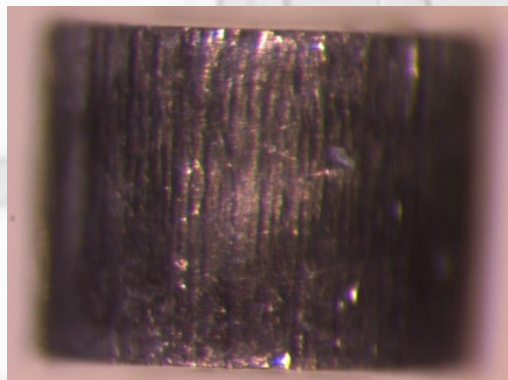
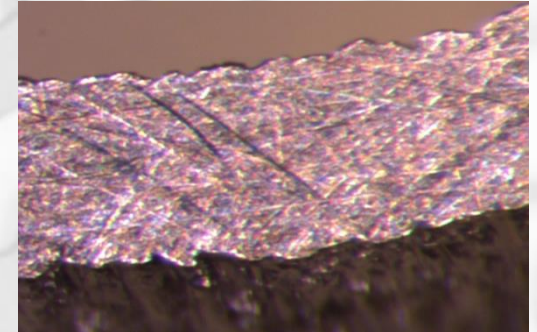
- Platinum-Iridium
- Thickness of 0,6 mm
- Cut by Ultrashort Pulse Lase (left) and Fiber Laser (right)



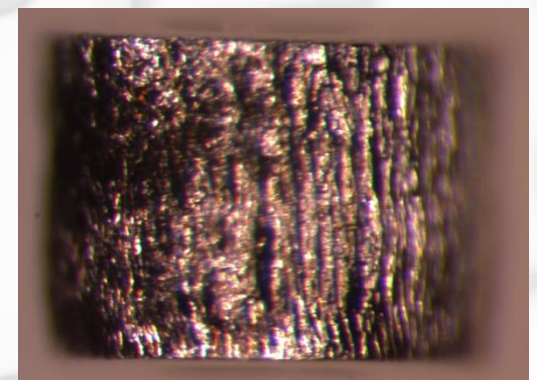
Entrance



Exit



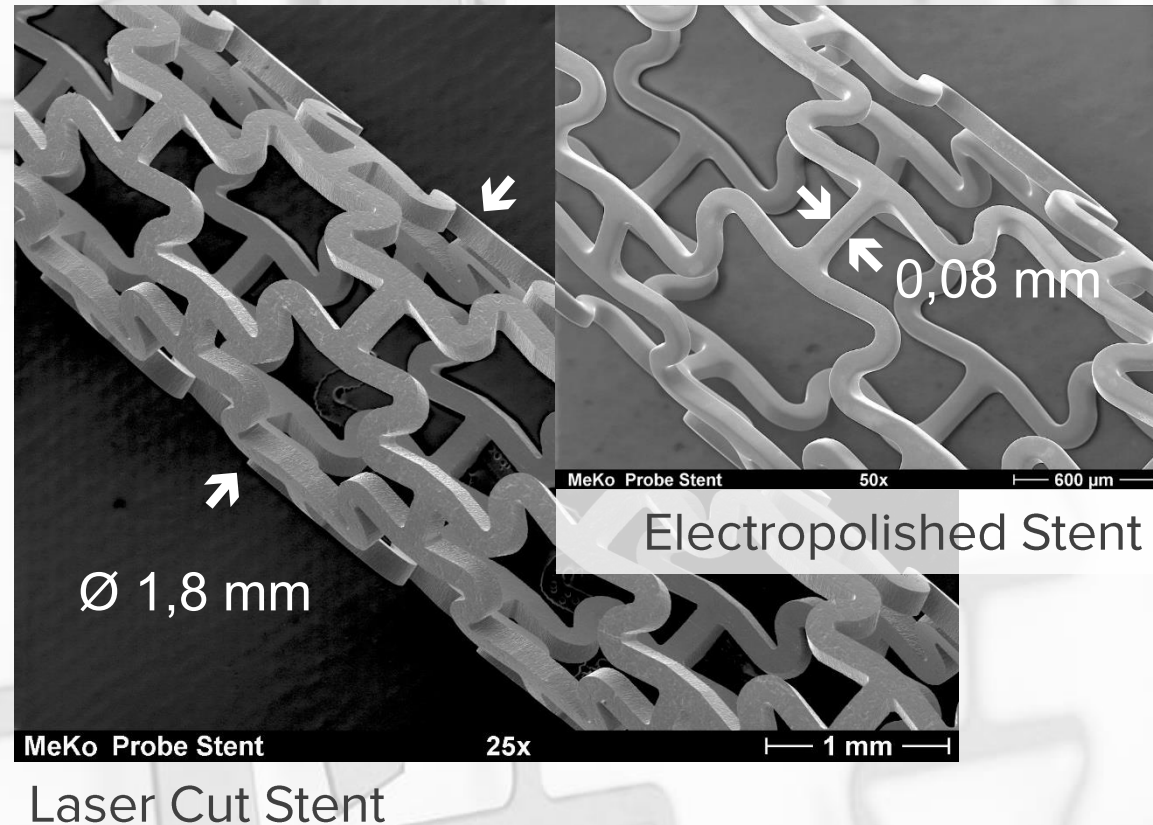
Cut Edge



Decision Making

Post Processing

- Electropolishing
- Clear-laser-cut edges needed
- Best results: round edges and smooth metal surfaces



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Contract Manufacturing

Laser Material Processing

- Laser cutting
- Laser welding
- Laser drilling

Post Processing

- Electropolishing
- Passivation
- Heat treatment
- Shape setting

Quality you can rely on!

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