Micro Laser Sintering

Micro additive manufacturing of medical grippers using the print-as-one process

We present a manufacturing concept for medical grippers based on a special print-as-one design that is produced using the additive printing process Micro Laser Sintering (MLS). The novel design approach, in combination with the high-precision MLS printing process, enables the production of fully functional metal micro grippers in a single manufacturing step.

Challenge

One component instead of six assembled individual parts plus additional fasteners and, if necessary, several suppliers

Solution

- Single part production without assembly
- Made of medical grade stainless steel 1.4542 (17-4PH)
- With printed and fully articulated joints

Different sizes

diameter	length
3.0 mm	30 mm
1.7 mm	20 mm
1.2 mm	10 mm
0.8 mm	6 mm

presented on:

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