

The laser-sintered cable fixture reduces the cost and the time involved

Small serial production / Mass Customization

Requirement:

- price competitive cable fixture along powder feeding systems

Solution:

- Rapid Manufacturing with PA 2200 on EOSINT P

Result:

- individual design
- supreme functionality
- easy and fast mount / dismounting
- significant cost reduction



IPCM fixture

The laser-sintered version exists only of 2 parts and thus reduces the costs

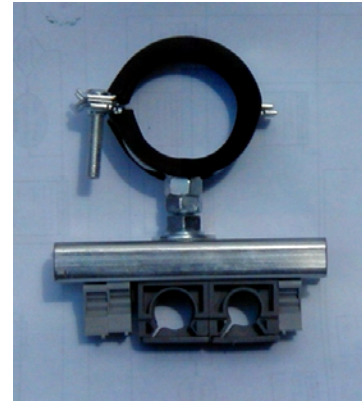
Functional integration

“Catalogue Solution”

- complicated screw design
- 20-parts
- cost: 30 Euro / piece
incl. 5 Euro for mounting
+ working time at installation

“Individual Solution”

- 2 living joints and spring catches
- 2-parts (sintered + moss-band)
- costs about 25 Euro / piece
+ negligible costs for mounting
+ negligible installation time



Laser-sintering boosts freedom of design

Use of the Direct Manufacturing

Advantages

- better design
- for customer wishes optimised
- easy to adjust

Comparison to injection moulding:

- no investment for tooling
- no risk of less pieces needed
- „Manufacturing on Demand“

Direct Manufacturing, it´s not an idea,
it´s reality



The laser-sintered cable fixtures are already used with EOS- approx. 500 # p. a.



In a P 700 theoretically more than 400,000 small parts can be built

Edge length [mm]	P385	P700
5 x 5 x 5	202.752	442.800
10 x 10 x 10	39.984	86.304
15 x 15 x 15	14.400	30.668
20 x 20 x 20	6.300	13.702
50 x 50 x 50	396	1.001
100 x 100 x 100	54	90
150 x 150 x 150	16	24

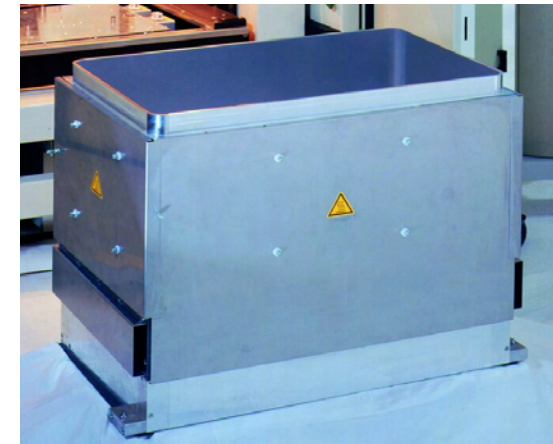
distance between two parts 2 mm

Build envelope P385 : 340 mm x 340 mm x 620mm

Build envelope P700 : 700 mm x 380 mm x 580mm



Exchange frame P385



Exchange frame P700

Laser-sintering can reduce the production costs considerably - Optimization with EOSPACE

EOSPACE / combination preterm + cost critical work

- 700 pieces without EOSPACE
- 1000 pieces with EOSPACE
- Arithmetic example:
 - cost savings of 30%
 - cost per piece about 20 Euro with RP calculation below 15 Euro possible



1000 pieces per unit / optimally packed

