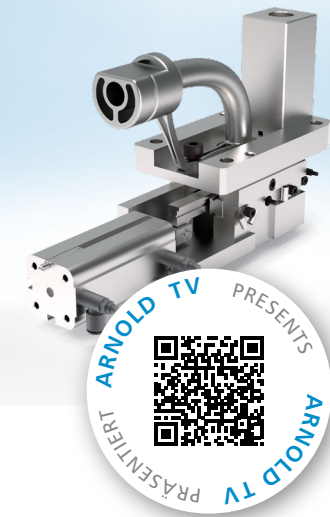
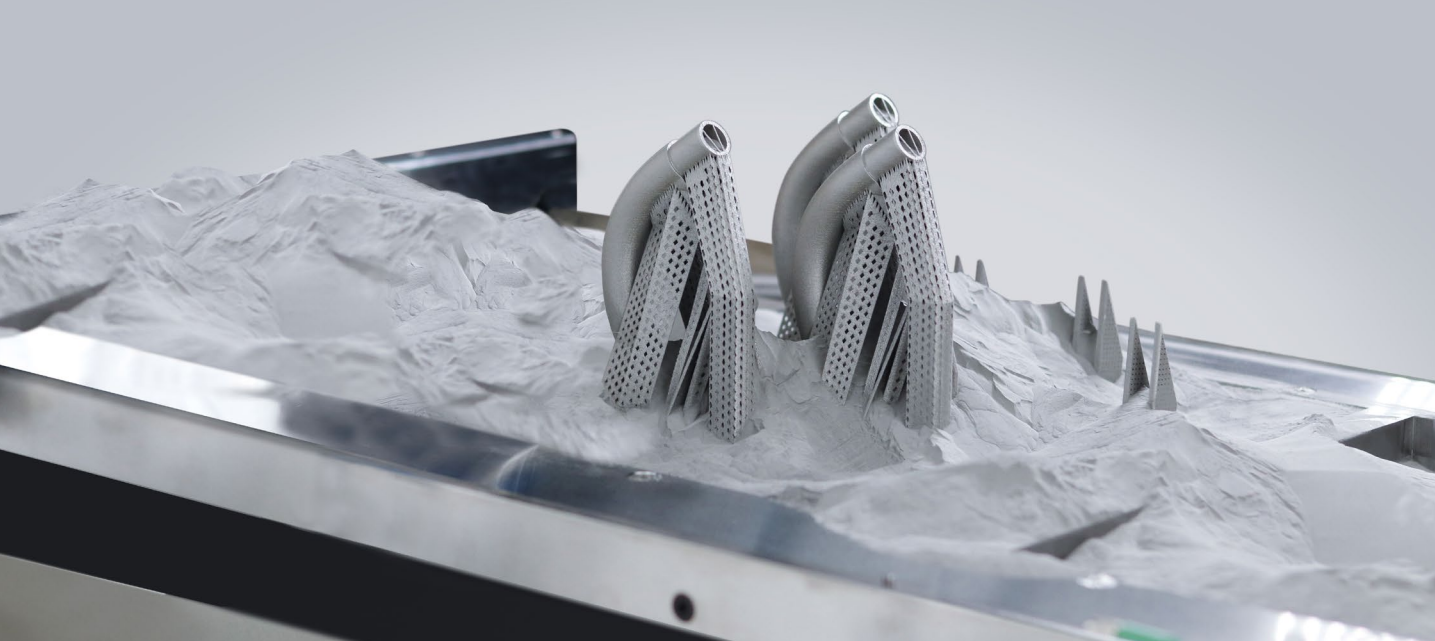




Advanced 3D Manufacturing

Consulting, development,
and full processing

The market's demands

- ⊕ Increasing use of lightweight construction and function integration
- ⊕ Stricter CO₂ reduction requirements
- ⊕ Reducing weight
- ⊕ Electrification
- ⊕ Development of materials
- ⊕ Cost savings
- ⊕ Flexibility
- ⊕ Reduce storage costs "on demand" manufacture

ARNOLD provides the solution

Advanced 3D Manufacturing



ARNOLD UMFORMTECHNIK provides an extensive selection of videos and animations. Just scan the QR code above or visit our website and click on our Youtube channel ARNOLD TV.

www.arnold-fastening.com

Advanced 3D Manufacturing

↓ SERVICES WE OFFER



01.

Analysis and individual consultancy



03.

Optional post-production work



02.

Accurate and resource-friendly production



04.

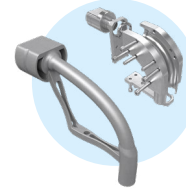
Quality Assurance

Technical advantages of Advanced 3D Manufacturing

- + Production costs regardless of complexity of the part
- + Reduces weight by adjusting topology or lightweight structures
- + Function optimisation with hybrid or integral structure
- + Greater degree of design freedom when developing the part
- + Added value in the material system due to choice of materials and parameter adjustment (material flow, thickness)
- + Reduced assembly costs
- + Minimised storage costs



THE BENEFITS OF ADDITIVE MANUFACTURING USING THE EXAMPLE OF FEED TECHNOLOGY



Optimised 90° deflector

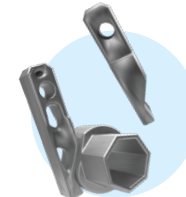
ARNOLD's first A3DM series component is no longer part of an assembly, but just one single part.

The commercial advantages

- + Cost of the part reduced by 82%
- + Weight reduced from 1100g to 290g
- + Parts list reduced from 8 items to 1
- + Delivery time reduced from 8 weeks to 1 week



THE BENEFITS OF ADDITIVE MANUFACTURING USING THE EXAMPLE OF THE GRIPPER



Benefits of topology optimization

- + Complex geometries
- + Material saving
- + Reducing weight
- + Optimum functionality

The commercial advantages

- + Cost of the part reduced by 78%
- + Reduced by 30%
- + FEM enables perfect adjustment to the gripped object

Some printable materials

- + Stainless steel
- + Tool steel
- + Case-hardened steel



Learn more
about Advanced 3D
Manufacturing.

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