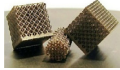


3D Printing of Metal Components Design Optimization

ENGIE Laborelec operates a fully-equipped 3D Printing Lab for the production and testing of metal parts. Existing components are digitized using a 3D scanner or we can draft components to your design. Together with our modelling engineers, the 3D Printing expert optimizes the design based on the functionality required and any constraints, taking full advantage of the design freedom offered by the exciting 3D printing technologies.

Our metallurgical lab can then test prototypes for microstructural integrity, strength, dimensional accuracy and surface finish.

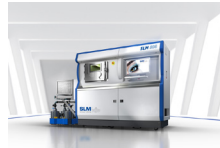


Optimal design is achieved through:

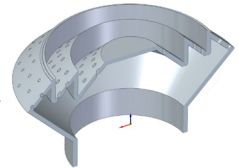
- ♥ industry-leading 3D printing design experience
- ♥ responding to customer requirements and expectations
- ♥ modelling via FEA, CFD or similar established technologies

Benefits

- ♥ Easy prototyping
- ♥ Optimized cooling channels
- ♥ Weight reduction
- ♥ Improved flow path
- ♥ Efficiency increases
- ♥ Better maintenance
- ♥ Less assembly and fewer welds
- ♥ Integrated functionalities



The complete design freedom inherent in 3D printing makes the manufacturing of complex components easy and effective, opening the path towards better part performance.



Would you like to know more?

[ENGIE Laborelec](#)

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www.laborelec.com

Five reasons for you to choose Laborelec

- Wide-ranging technical expertise in electricity generation, grids, and end-use
- Customers enjoy enhanced profitability and sustainability of energy processes and assets
- Unique combination of contract research and operational assistance
- Independent advice based on certified laboratory and field analysis worldwide
- More than 50 years of experience