

# CONCEPTLASER

hofmann innovation group

## Summary

Industrial laser machines for additive manufacturing of metal components for various industries.



 made in Germany

[www.concept-laser.de](http://www.concept-laser.de)

## Company Profile

Concept Laser GmbH is an independent company based in Lichtenfels, Germany. Since its founding in 2000, it has been the world's leading manufacturer of industrial laser machines for fabricating components from metal powder using the LaserCUSING® layer construction method across many industries, such as jewelry, medical, dental, automotive and aerospace, and mechanical engineering. The term LaserCUSING®, a combination of the C from CONCEPT Laser and the word FUSING (to fully melt), describes the technology: the fusing process generates components layer by layer using 3D CAD data. The method allows the production of complex component geometries without tools to create parts that are difficult or even impossible to achieve through conventional manufacturing.

The systems reduce development time and costs substantially while offering much greater flexibility in product development. The high quality standards, level of experience and successful track record of Concept Laser guarantee reliable and cost-effective solutions with proven performance in daily production, with a particular focus on unit cost reductions.

## Products

### Our Products:

Software: Materialise, 3Shape, Marcam, LCM+

Machines: Mlab cusing, Mlab cusing R, M1 cusing, M2 cusing (Multilaser), X line 1000R

QM System: Available for process component meltpool, coating, documentation atmosphere, powder and temperature

Materials: Controlling the grain size and chemical composition, through an external testing laboratory

Accessories: Furnace for heat treatment, sieving station

### Training & Service:

Machine training courses: Theoretical and practical training

Technology integration: For example, CAD "conformal cooling" training to allow you to learn the patented cooling channel, design

Maintenance concepts: Advice on which maintenance concept is suitable for you

Application support: If you have any specific questions, our team is always available to offer practical advice and assistance

## References

Aerospace: NASA Aerojet Rocketdyne, DLR Deutsches Zentrum für Luft- und Raumfahrt e.V., Honeywell, Poly-Shape SAS, GE Aviation, MBFZ toolcraft GmbH

Automotive: BMW AG, Daimler AG

Dental / Medical: The Argen Corporation, Dentsply, Fine Line Prototyping Inc., Edwards Life Science, Chengdu Dent Dental Lab. Co., Ltd, Daegu Technopark, Pro dental, CADSPEED GmbH, Fresdental

Jewelry: Romanoff International Supply Corporation, Pandora, Eichenberger Futuretech AG, Legor Group S.p.A.

Mould: DIMLASER, Festo AG & Co. KG, Werkzeugbau Siegfried Hofmann GmbH, Sauer Product GmbH

Research / Institutes:  
many worldwide: ask us for references.

## Target Group

Jewelry, Medical and dental technology, Aeronautics and space industry, Tool and mold construction, Automotive and racing, Mechanical engineering

## Purpose of Visit in China

Establishing contacts with potential clients in the Aerospace Industry, Research and State Institutions, as well as the automotive, traffic and transport industry.

## Concept Laser GmbH

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Languages: German, English, Chinese.

