LASER METAL **DEPOSITION**

What is LMD?

LMD is a laser cladding and an Additive Manufacturing (AM) process that uses a focused LASER beam to melt a coaxially-blown metal powder





Metallurgical bond

Fast

LISTEMANN

perfecting materials

Heat treating **B**razing Electron beam welding Debinding & Sintering Additive Manufacturing Material engineering



Don't throw them away anymore! We can repair or rework your broken and scrap parts



innovate and customize your components products with LMD Additive application Manufacturing

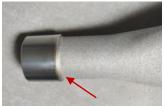


Reduce your lead time, Extend the lifetime of your owing to the protective coatings

Near net shape

Listemann helps industrials achieving:

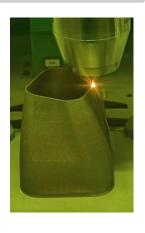
- Weight or lead time reduction
- Reduction of material waste
- Innovation in designs and customization



vacuum brazed join

Advantages:

- o 5-axis CNC LMD machine
- Low to no post processing
- Hybrid process



Repair



Manufacturing process chain can be improved by integrating repair into the life cycle of components

- Local addition of material to attain the tolerance
- Rework of machining errors
- Extension of its lifetime at lower cost
- Reduce the volume of scrap parts and lead time
- Ecological sustainability





Coating









With LMD, we can apply a layer of high-performance material onto a low-cost substrate, and only in the critical areas, thus drastically reducing the total cost of the part

- Corrosion or wear resistance alloy
- Novel designs now possible
- Reduce the cost of the part
- o Increase part lifetime

Materials



This service is provided by

LISTEMANN

perfecting materials

LIECHTENSTEIN



Listemann Technology AG Ober Au 38 LI-9487 Bendern +423 375 90 10 info@listemann.com www.listemann.com

SWITZERLAND



Listemann AG
Sulzer Allee 25
CH-8404 Winterthur
+41 52 245 18 50
info@listemann.com
www.listemann.com

POLAND



Listemann Polska Sp.z o.o. ul. Biskupińska 23 PL- 30732 Kraków +48 12 6534 230 j.brelinski@listemann.com www.listemann.com