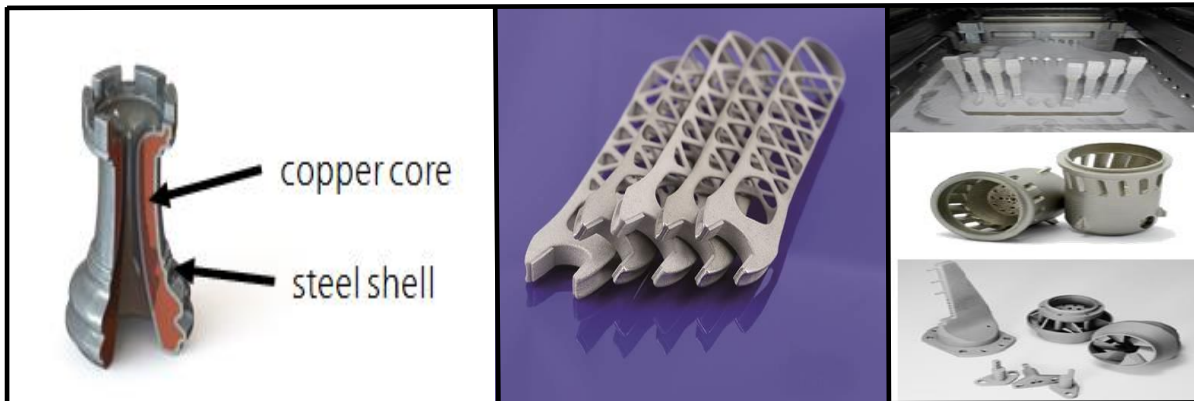


Tech Flash



Fraunhofer-Gesellschaft is the leading organization for applied research in Europe. Its research activities are conducted by 69 institutes and research units at locations throughout Germany with an annual research budget totaling more than 2.1 billion euros. We have an International collaborations with excellent research partners and innovative companies around the world ensure direct access to regions of the greatest importance to present and future scientific progress and economic development. We have very strong technology capabilities

Additive Manufacturing:

The end user knows it as 3D printing, it has reached industrial production development and it is generating end-product from mechanical engineering to medical technology. The layer-by-layer generation material is only applied at the area where it is needed. The new manufacturing technology allows degrees of freedom for functional optimization and flexibility beyond the limits of conventional manufacturing technology. Fraunhofer has competencies in the area of Engineering (Design & Development, Simulation) Technology (Printing, Laser-Based Processes, Process Chain) Material (Metal, Ceramic, Polymers) Quality (Process Quality, Product Quality, Quality System).

- Process development for additive multi-material fabrication.
- Metallic components in batch production.
- Process chain for the production of highly complex turbine.
- Platinum rhodium combustion chamber for space application.
- Laser beam melting.
- Additive manufacturing for plastic components.
- Printing of fiber plastic components.

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