

## 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

### **Energy and resource efficient forming technology- FORMING:**

In sheet metal forming and bulk metal forming Fraunhofer consider the entire chain from designing plant system and logistics, it includes component concept, product development, feasibility study, tool & method of engineering. The research activity focus on car bodies and powertrains, the energy and material is optimized by systematically shortening the process chain of forming technology. As a result a functional and load oriented technology. The system features are below.

- Sheet metal forming-Technologies of next generation.
- Bulk metal forming-Expertise of forming in powertrain application.
- Forming based on active media-Economic realization of sophisticated designs and complex structural components.
- Micro Forming-Large scale replication of microstructures.
- Lightweight powertrain components.
- Lightweight gear shaft.

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