

## 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

### **Joining as a key technology in automotive and mechanical engineering:**

Considering resource efficient production, Fraunhofer has developed novel joining process and adept established technology for the rising demand. The mechanical joining technology offers innovative and cost-efficient technology for joining the same and different types of materials. The system features are below.

- Mechanical joining- Innovative process for lightweight construction and composite design.
- Joining by forming.
- Thermal Joining-Highly flexible welding technology for steel, light metals and material combinations (Metal, FRP).
- Laser Technology-Hybrid welding.
- Special technology- Friction welding (punctate, linear, areal).
- Magnet arc welding.

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