

MAPEX COMMUNITY

Institutes

II STIFTUNG INSTITUT FÜR WERKSTOFFTECHNIK



Scope of Research: The IWT develops technologies for the future in metalworking. The comprehensive know-how and the broad range of technical equipment are put forward with the aim of solving particular problems in material improvement, material treatment and metalworking. The IWT is a Bremen institution with a rich research tradition of more than 60 years. The overall objective is to carry out multidisciplinary basic and applied research in the field of metalworking and related technologies covering entire process chains of high strength structural metallic materials. The IWT is the only research centre in Europe with three joint disciplines of materials science, process engineering and manufacturing technologies as equal-ranking divisions under one roof. Key aspects are the research fields, “heat treatment and surface technology”, “hybrid lightweight structures”, “distortion engineering”, “ecologically efficient and high-precision machining technologies” as well as “particle technologies including sprayforming”.

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Facts and Figures

- Founding Year: 1950 (former Institut für Härtereitechnik – IHT, since 1986 IWT)
- Personnel: Approx. 160 Employees
- Main Business Areas: Automotive, Aviation, Heat Treatment, Machining and Particle Technology

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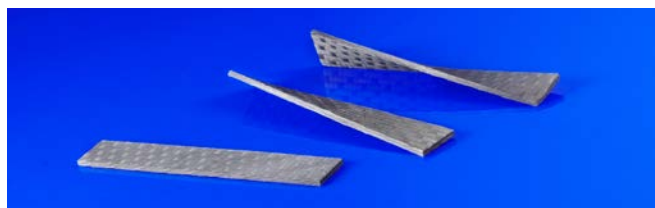
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Founded in 1968 and integrated into the Fraunhofer-Gesellschaft in 1974, Fraunhofer IFAM is one of the most important research

institutions in Europe for adhesive bonding technology, surfaces, shaping, and functional materials. At our institute's five locations – Bremen, Dresden, Oldenburg, Stade, and Wolfsburg – we put our central principles into practice: scientific excellence, a focus on the application of technology, measurable utility for customers, and ensuring the highest quality.

Our 580 employees, working in 24 departments, combine their broad technological and scientific knowledge and expertise into seven core competencies: Powder Technology; Sintered, Composite, and Cellular Metallic Materials; Adhesive Bonding Technology; Surface Technology; Casting Technology; Electrical Components and Systems; and Fiber Reinforced Plastics. These core competencies - both individually and in combination with each other – are not only the basis of our strong position in the research market but also of future-forward developments that will be useful for society.



*left) Investigation of the wetting properties of surfaces using the aerosol wetting test;
right) Strong and flexible – malleable lightweight construction materials*

Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM

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Facts and Figures

- Founding Year: 1968
- Personnel: 580 Employees

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