



Fraunhofer

IPA

FRAUNHOFER INSTITUTE FOR MANUFACTURING
ENGINEERING AND AUTOMATION IPA

**PLANNING OF
ELECTROPLATING PLANTS
AND EQUIPMENT**





OPTIMIZATION, DEVELOPMENT, OR DESIGN OF SPECIAL PLANTS

OUR PLANT ENGINEERING SERVICES

Our electroplating department looks back on many years of experience in the plant engineering business. The services we offer range from the optimization of existing electroplating lines to the comprehensive planning of new facilities right up to the development, design, and construction of special solutions for customer-specific applications.

Custom solutions tailored to your needs

Alongside the planning and development of standard electroplating facilities, there is a growing need for custom solutions for industrial applications. Here, a noteworthy trend is emerging towards energy efficiency, precision coating, high-speed coating, zero emissions and selectivity. When designing custom solutions, it is essential that the existing knowledge on the relevant procedures is considered early in the design process. Such issues can only be handled with extensive knowledge covering all aspects of the development chain.

A holistic approach to problem solving

The focus of our activities is on the special requirements of electroplating processes and on production conditions. Our interdisciplinary team ensures that we take a multifaceted approach to solving the problems of our customers.

OUR SERVICE PROFILE

Optimization of existing plants

Existing electroplating facilities often need modification. This may be caused by a change in capacity requirements, process flow, or in legal provisions. In such cases, we develop plans for our customers to reconfigure their existing plants and equipment.

Prize winner: Plant planning for Thoma Metallveredelung GmbH

After implementing a plant design developed by Fraunhofer IPA, Thoma Metallveredelung GmbH was awarded the title of KUMAS Leitprojekt (flagship project), an environmental prize. KUMAS stands for the 'Kompetenzzentrum Umwelt Augsburg-Schwaben' (environment competence center Augsburg-Swabia).





Planning of new conventional electroplating plants

Purchasing new equipment is not part of everyday business, neither for contract plating shops nor in-house electroplating facilities. We help you with the planning of capacity and space requirements and work out the technical design. We draw up the requirements specification to ask for bids by suppliers and perform a technoeconomic evaluation for you. Our neutrality ensures that our customers are provided with the best possible solution.

Development and design of special plants

Specific aspects such as high-speed plating, selective plating, or automated brush plating require specific plant solutions that go far beyond the design of conventional plants. In these cases, we design and implement custom solutions and prototypes that can be put into operation in our pilot plant.

CONTACT

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For more information please visit our website:

www.ipa.fraunhofer.de/electroplating

