

We are your **competent design-in partner** in the field of **EMC & Thermal Management!** You will benefit from the **long-standing experience** and the extensive **know-how** of our specialists when developing complex and demanding applications.

We advise you personally and individually. Together we will find the **best solution** for your application and deliver the suitable product for you.

Take advantage of the services of **MTC** for the **successful implementation** of your projects. **Give us a call!**

ADVICE & TECHNICAL SUPPORT

TECHNICAL ADVICE

- Special knowledge in the fields of EMC, thermal management and metal products
- Expertise from more than 25 years of experience
- Product recommendations
- Continuing education



DEVELOPMENT SUPPORT

- Customer and practice-oriented solutions
- On-site consulting
- Optimization of existing applications
- Advice on material selection
- Decision support



www.mtc.de/en



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EMC & THERMAL SOLUTIONS

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TAILORED **EMC & THERMAL** SOLUTIONS

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GERMANY / HONGKONG / KOREA

GLOBAL SUPPLIER TO ALMOST EVERY INDUSTRY SEGMENT



mtc.de



TEST & VALIDATION



ADVICE & SUPPORT



DESIGN & DEVELOPMENT

TECHNICAL SERVICES
AT A GLANCE

In addition to our extensive portfolio of standard products, we develop and manufacture your **individual and tailor-made solution** on request. We have already proved our **great experience** and **professionalism** in many successful customer projects.

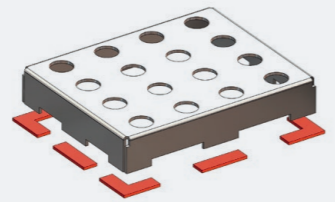
Our high quality standards, combined with the use of latest 3D design software, guarantees that **MTC** is going to be a **strong and reliable partner** at your side – from the first idea to series production.

What can we do for you?
We are looking forward to your challenge!

DESIGN & DEVELOPMENT

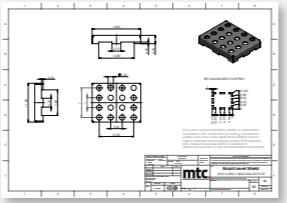
CAD DESIGN

- Concept development
- Creation of 3D models
- Construction according to customer specifications
- Customer-oriented development aid
- Project-related design support



TECHNICAL DOCUMENTATION

- Functional and manufacturing analysis
- Creation of 2D drawings
- Detailed manufacturing drawings
- Creation of guidelines



The **MTC** team of experts calculates, simulates and optimizes the construction and design of your products using latest **FEA / FEM methods**. We work with our **own material models**, which were derived from tensile tests.

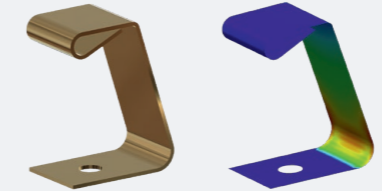
Our **analysis and calculations** provide valuable insights to increase the **safety and durability** of your products as well as to reduce time and costs in product development.

Do you have any questions or individual requirements?
We are glad to be here for you!

FEA / FEM SIMULATION

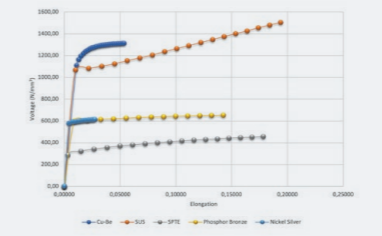
SIMULATION STUDIES

- Simulation according to customer specifications
- Simulation of the real application
- Spring force and deflection control
- Design evaluation and optimization during the development process



SIMULATION PARAMETERS

- Creation of own material models
- Material-based simulation parameters
- Taking external influences into account



Your customer-specific products go through extensive mechanical and optical test procedures in **MTC's** in-house test laboratory.

With **high-end measuring devices**, we validate and refine the calculation results of the FEA / FEM simulation using hand-made samples. We manufacture these samples for you without additional tool costs!

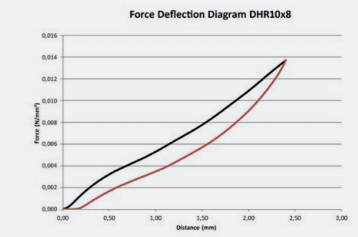
Our **exact force-deflection measurements** provide you with high-precision measurement data for an optimal implementation of the components in your application.

Our **strict quality and safety management** ensures the **consistently high material quality and dimensional accuracy** of your standard and individual products.

TEST & VALIDATION

PRODUCT TESTS

- Temperature and heat tests
- Material comparisons
- Tensile tests
- Validation of simulation results



COMPONENT ANALYSIS

- Surface analysis
- Resistance measurement
- Check of dimensional accuracy

