THE FULL SERVICE PROVIDER

FOR INDIVIDUAL SOLUTIONS

ELECTRONICS

DMS

BLECH & METALLBEARBEITUNG

DMS BLECHBEARBEITUNG GMBH

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DESIGN CONSULTING · ENGINEERING · PROTOTYPING · SERIES PRODUCTION · ASSEMBLY · LOGISTICS

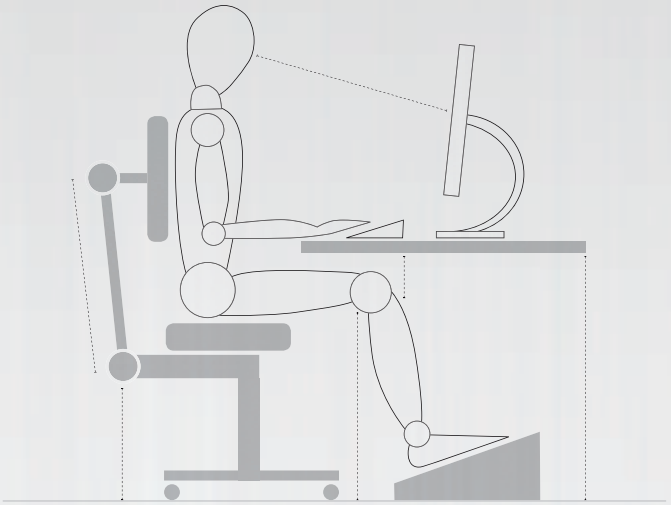
DESIGN CONSULTING

FUNCTIONAL DESIGN

DMS has been designing and manufacturing a very wide range of products and components for its customers for many years. Over this period we have developed a great amount of experience and expertise covering a huge variety of shapes, styles, colours and variants. This also covers the ergonomic aspects of operability and maintainability of products. This wide range of knowledge allows our engineers to quickly and professionally fulfil their task.

We provide our customers with advice on the following topics:

- Manufacturing options
- Selection of materials (metal, plastic, wood, glass,...)
- Shaping variants
- Surface design
- Selection of colours
- Labelling / lettering
- Use of styles
- Ergonomics of operation and maintenance

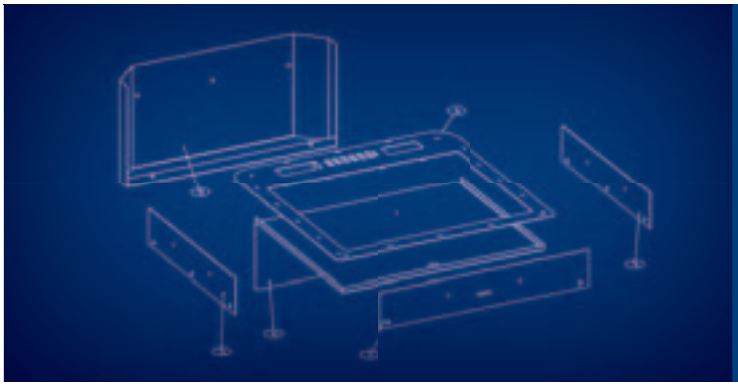


Product manufacturability is our major concern and we try to optimize costs for the customer at the later series production stage. You can use the examples from our design library as a convenient guide to find your own individual solution. We model proposed solutions in our 3D-CAD system, where colour and shape options are also visualized using these CAD models. The CAD system generates 3D models which enable you to view your future products dynamically from any angle.

INDUSTRIAL DESIGN

The aesthetic image and ergonomics of a product are of crucial importance. DMS works with internationally recognized industrial designers – DMS design and engineering team has the expertise and the tools to convert their designs quickly and efficiently into construction plans for prototyping and series production.

If the future aesthetic image or ergonomics of your product are of crucial importance for you, you should work with professional industrial designers at the design phase.



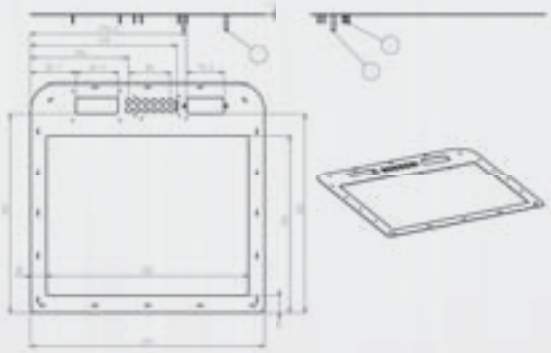
ENGINEERING

FEASIBILITY STUDY

If you have an idea for a product, our engineers can test whether the project is technically feasible. We can provide assistance in selecting the right materials and designing many small but important details. We can also provide you with support for implementation at start of production so that production costs will be optimized.

CONSTRUCTION

Our core expertise is in constructing and designing metal objects and housings as well as frame structures around electronic items (racks, cabinets, cooling plates, consoles, units for studios and control panels, units for exhibitions and trade fairs). Naturally we also combine these components with other materials (wood, glass, plastics, etc.).



CONSTRUCTION SPECIFICATIONS

There are a number of ways in which our customers send us their specifications for construction. Some come to us with a circuit board and commission us to construct the housing for it, others send us their ideas in the form of hand-written sketches which we then convert. As you would expect we also accept finished construction diagrams. We can read the following file exchange formats:

DXF, DWG • IGS, IGES • STEP, STP • VDA

WORKFLOW

DMS produces the precise CAD plans for the work pieces. These construction plans are then used to produce the geometry for the CAM processing.

CUSTOMER DOCUMENTATION

At the customer's request DMS can produce all the technical documentation for the products. This includes e.g.

- 3D CAD models from a range of perspectives
- 2D CAD plans
- Exploded diagrams
- Detailed items lists
- Verbal documentation

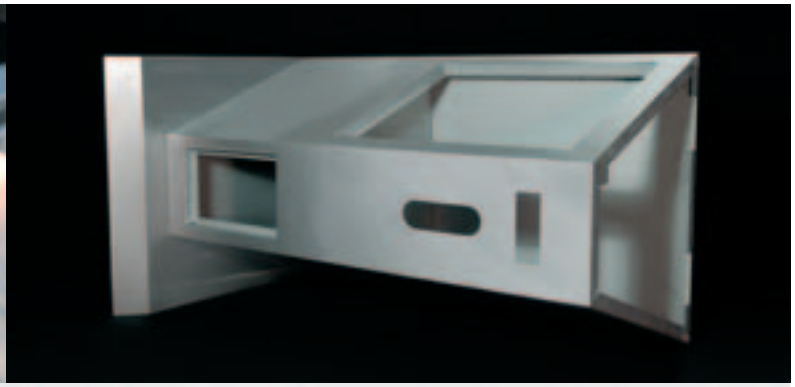
THERMAL CALCULATIONS

Thermal design of housings is crucial, particularly for electronic items. If requested, we can calculate the thermal behaviour of housings and components before they are manufactured - DMS does this in cooperation with the FH Joanneum University of Applied Sciences in Kapfenberg.

EMC (ELECTROMAGNETIC COMPATIBILITY)

Most electronic modules contain a large number of HF (high frequency) components which generate interference fields which in turn can lead to undesirable electromagnetic effects. DMS has many years of experience in constructing EMC housings. EMC studies as well as EMC measurements and certifications are performed by our cooperation partner, the FH Joanneum University of Applied Sciences in Kapfenberg.

PROTOTYPING



THE BEST PREPARATION FOR CONSTRUCTING A PROTOTYPE...

...is meticulous and thorough engineering. All the required manufacturing instructions and specifications are compiled at this stage.

SHORT LEAD TIMES

Our customers generally want to be able to 'get their hands on' their prototypes as quickly as possible so that they can make a decision. Since DMS is also set up to manufacture small batches, prototypes can be made quickly and economically.

ACTIVE ADVICE – CLOSE COOPERATION

The prototype is often not definitive but rather just an idea of how something will look later on. This is where our engineering team really comes into its own, working actively side by side with our customers and in close contact with their product development teams. Small adjustments to compo-nents can be made and im-plemented immediately. This ensures that product design is optimized.

VARIANTS

It is sometimes necessary to manufacture different variants of a product.

COST OPTIMIZATION

Our team knows all about mass production. We can provide advice on how to optimize manufacturing costs.

CUSTOMER DOCUMENTATION

At the customer's request DMS can produce all the technical documentation for the finished prototypes. This includes e.g.

- 3D CAD models
- 2D CAD plans
- Exploded diagrams
- Detailed item lists
- Verbal documentation

SERIES PRODUCTION

QUALITY OF MATERIALS AND PRODUCTION

As expected in our industry sector, we are ISO 9001:2000 certified. But that isn't enough for us: our aim is optimum quality for our customers' products.

DMS has deliberately positioned itself in the upper quality manufacturing segment.

We source our raw materials exclusively from suppliers who have the same high quality level as DMS. This is the only way to ensure continuous and reproducible quality, even with large batches of items and repeated orders over long periods.

EXTENSIVE RANGE OF MANUFACTURING PROCESSES

We provide a very comprehensive portfolio of machining processes. This means we are able to manufacture not only individual parts but also entire components or products. It also means you have just one contact person who will take responsibility for manufacturing the whole product for you.

THE BEST PREPARATION FOR SERIES PRODUCTION...

...is thorough engineering. At this stage all the necessary manufacturing instructions and specifications are produced.

SHORT LEAD TIMES

For urgent jobs we can produce small batches within 24 hours. We respond quickly to your requests and are able to manufacture your products rapidly and at high quality.

SMALL AND LARGE BATCHES

Our customers range from small fi rms which often only need one item or a small number of parts all the way to international corporations for which we produce on a large scale. We reserve plenty of time for our customers to provide individual solutions that meet their requirements.

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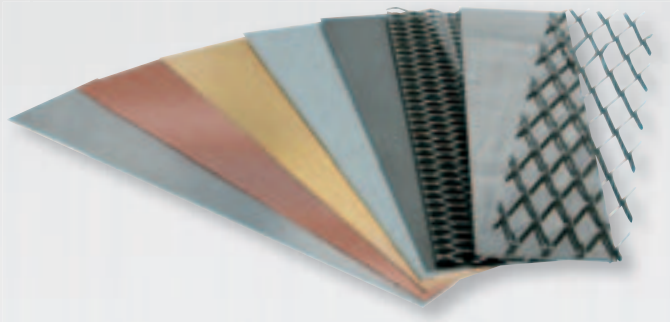
SERIES PRODUCTION

EXPERTISE WITH A WIDE RANGE OF METALS AND MORE...

DMS's core competence is in metalwork. But we also combine this material with the widest range of other materials such as plastics, glass and wood.



CUSTOMERS FROM MANY INDUSTRY SECTORS AND MARKETS

As a result of our wide-ranging expertise and our extensive manufacturing portfolio, we have customers across many different industry sectors. These include

- Manufacturers of electronic devices
- Metalworking companies
- Interior architects, carpenters, kitchen designers
- Architects, builders, metalworkers
- Constructors of special machinery,
- Producers in the automobile technology sector
- Builders of heating and cooling equipment
- Heavy industry

We are also keen to develop and implement new and exciting solutions for new customers and new markets.

COST OPTIMIZATION

Our team has extensive experience in mass production. We can provide advice on how to optimize manufacturing costs.

FLEXIBILITY AND A CUSTOMER-ORIENTED APPROACH

Our experience shows that details always change between initial production and following series of production. We can adjust the production plan quickly and with the minimum of administration to reflect the changes and thus avoid unnecessary costs.

CUSTOMER DOCUMENTATION

At the customer's request DMS can produce all the technical documentation for the finished products.

This includes e.g.

- 3D CAD models from a range of perspectives
- 2D CAD plans
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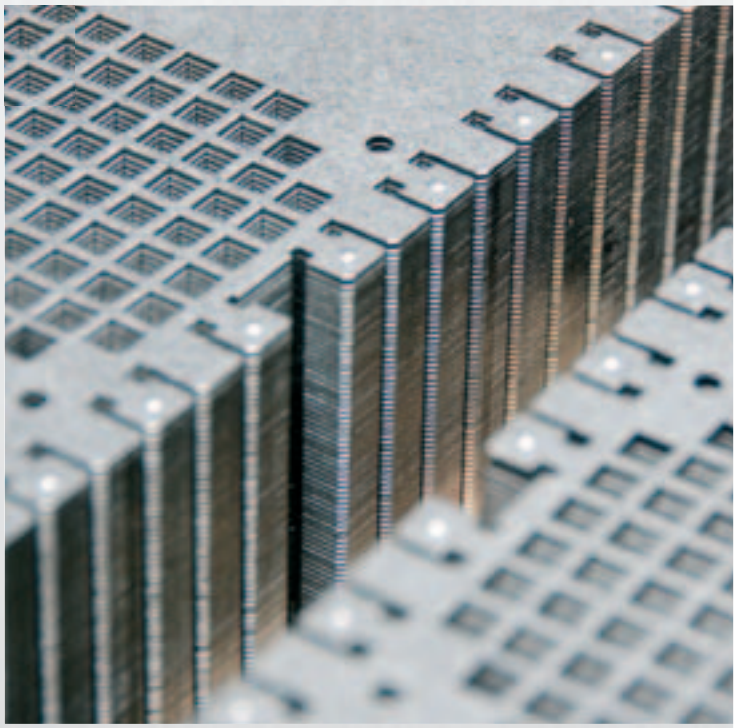
- Detailed items lists
- Verbal documentation



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SURFACE TREATMENT, PAINTING, PRINTING

SURFACE CLEANING (BONDERIZING)

Careful and professional cleaning of metalwork items is the basis for all surface finishing processes. We use the appropriate cleaning process for each of the materials we work with.

SURFACE TREATMENT

We finish the surfaces of your items to ensure they have optimal protection for their intended purpose. Working with local specialists we provide the following finishing procedures:

- Acid cleaning
- Powder coating
- Dip priming
- Chromating
- Hot-dip galvanizing
- Anodizing

PRIMING AND PAINTING

At our paint shop we bring colour to your products and components. We always have standard colours in stock but we also carry out special requests relating to gloss levels and structure.

Powder coating is carried out by a qualified partner.

PRINTING

We can label and imprint your products according to your requests and specifications.

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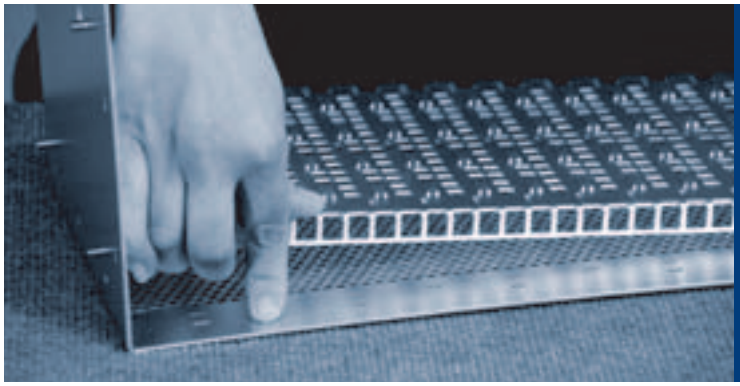
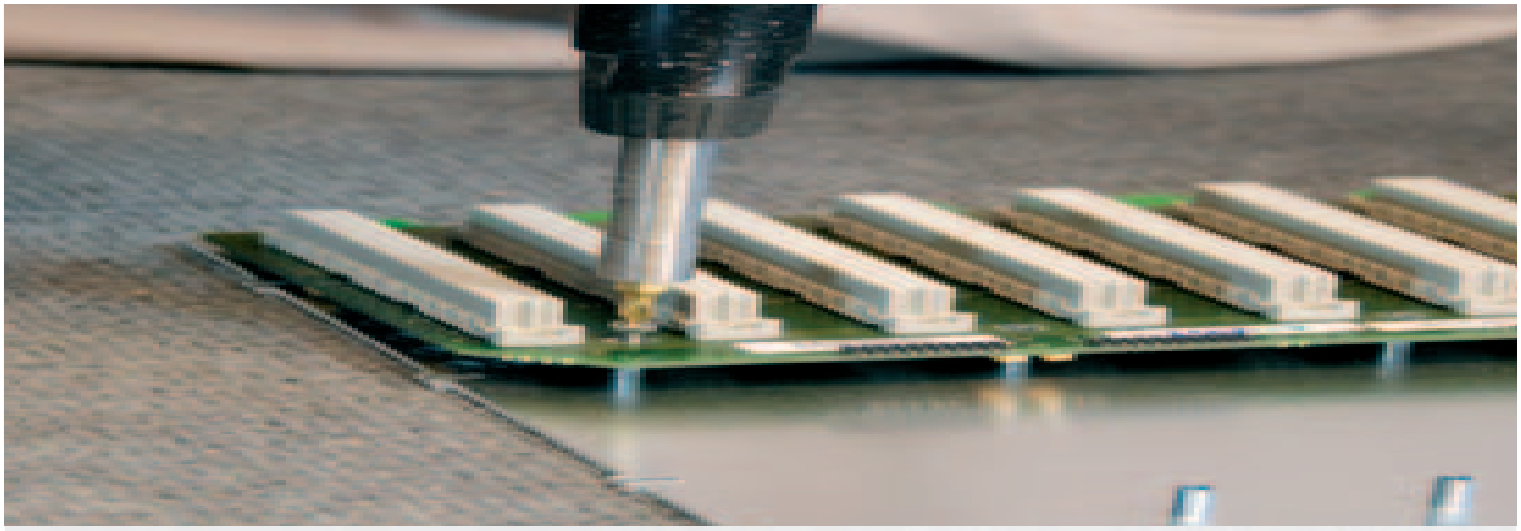


ASSEMBLY



COMPONENT ASSEMBLY

Once all your components are manufactured and the surface fi nish is completed, we assemble your products.

FITTING OF CUSTOMER-SUPPLIED COMPONENTS

We can also integrate components supplied by you (e.g. electronic modules, mechanical parts).

ASSEMBLY OF ELECTRICAL AND ELECTRONIC COMPONENTS INCLUDING SOLDERING WORK

Our customers also have their electrical and electronic components fi tted by us and then tested to their functional speci-fi cations.

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LOGISTICS

STORAGE LOGISTICS

We manufacture large production batches according to ag-reed framework specifi cations. These specify the quantities of semi-fi nished and fi nished products for which we provide interim storage. This means that we can quickly complete and supply the requested amount.

DELIVERY LOGISTICS

Transportation is provided subject to the agreed Incoterms (EXW, FCA, DDU, DDP,...).

Depending on the destination we either deliver ourselves with our own transporters or contract suitable shipping agents.

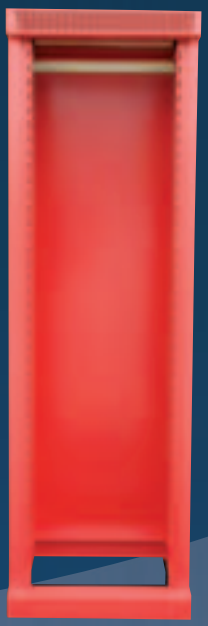
If you wish, we package your goods with your original pa-cking material, provide your delivery documentation and have them delivered directly to your customers, exactly as if the product had come from your own factory.

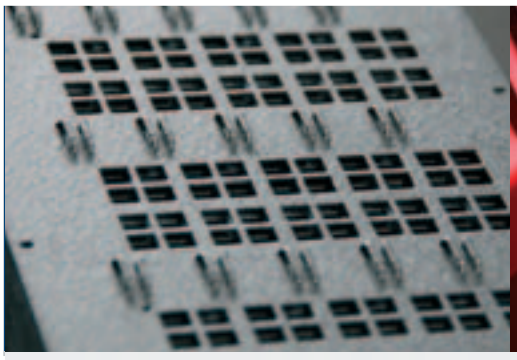
PACKAGING

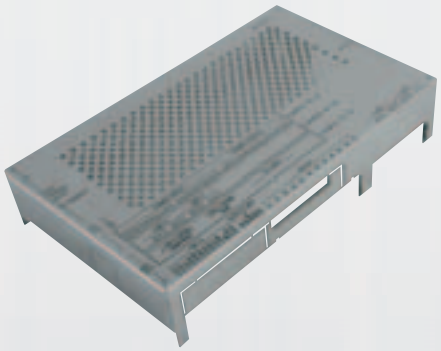
In accordance with the type of dispatch or the specified ag-reement, we pack your goods ready for transport. You can provide the packaging ma-terials or we can obtain the optimal packaging.

PRODUCTS

We have a wide portfolio of products manufactured for our customers. Shown here is a small selection.







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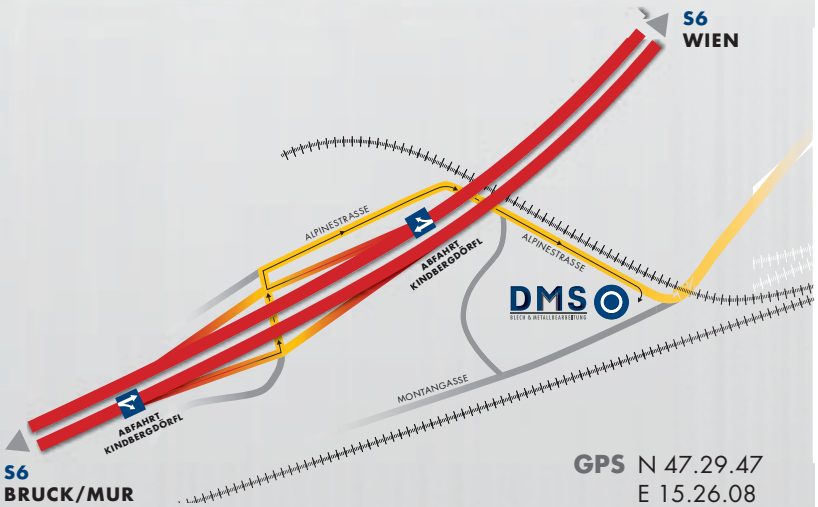

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