M.REUSS
Models · Moulds · Tools

Latest generation models, moulds and tool manufacturing

1948

M.REUSS GmbH. Form perfect.

70 years' expertise in model, mould and tool manufacturing.

- Plant construction
- Mechanical engineering
- Aircraft industry
- Packaging industry
- Vehicle construction
- Medicine technology
- Household products industry
- Wind power

Precision. Quality. And speed. Not possible? Of course, it works!

Our solution for the requirements of today.

Model, mould and tool manufacturing today requires utmost precision. Optimal solutions as early as the design phase. Longevity of products. End-to-end reliability. Quality that guarantees reliability. A wide range of modern machinery. Motivated and professional employees. But also speed in processing orders.

It is about satisfying the requirements of the most diverse of sectors. Our way: Manual expertise from the experience of 70 years and state-of-the-art technologies of today go hand in hand at M.REUSS. Imaginative products generate excellent results. Automation and continual process optimisations ensure speedier cycle times than you are perhaps used to. For the automotive, mechanical engineering, aerospace sectors, as well as the packaging & household products industries, energy management and medical technology.

Precise, good and quick. From the idea to the final product. In M.REUSS quality.

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TEAM

Motivation, enthusiasm, good professional training. And state-of-the-art machinery.

The team at M.REUSS GmbH is a guarantee for the quality of your product and for us a genuine competitive edge. Specialised experts, masters, technicians and design engineers see to goal-orientated planning, designs that are fit for purpose and efficient, high-precision production. In the process, extensive supervision of orders is always in close coordination with you – our customers.

The long periods of service of many employees is just as indicative of their motivation and enthusiasm as for the continual passing on of knowledge and experience. This enables the expertise of over 70 years to be channelled into each of our orders.

We are addressing the increasing pace of development of technology with an elaborate system for all levels of

Motivated team made up of over 50 employees, including:

1 mechanical engineer (qualified from university of applied science)

4 industrial specialist / model-building masters

5 mechanical engineers / vehicle construction technicians

36 skilled workers from trades/industry
as well as production modellers, precision mechanics
and industrial and cutting machine operators

6 trainee production modellers
and precision mechanics

training. Qualified as production modellers and precision mechanics, our graduates are regular regional, federal and even national, chamber of commerce winners.

Aiding our team are state-of-the-art machines, that fulfil the strictest demands and all requirements made of model, mould and tool manufacturing. Internal process optimisations and a continually advancing level of automation ultimately ensure that quality and productivity at M.REUSS enjoy continued development.

This is good news to our employees – and our customers.

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COMPANY

M.Reuss GmbH. 70 years' expertise in model, mould and tool manufacturing

We are synonymous with the success of your product. With our name.

M.Reuss GmbH is a highly specialist company working in model, mould and tool manufacturing. In the automotive, mechanical engineering, aerospace sectors, as well as the packaging & household products industries and energy management, we offer the highest levels of precision and ingenious solutions in the design phase, and top quality and longevity of products.

As a reliable and professional partner, our services are in demand – particularly when the tasks are challenging. Our speciality is delivering innovative all-in-one solutions. Efficient team work with our excellently qualified employees means we are flexible and able to guarantee international technical standards. Using our state-of-the-art machinery, we are converting projects into powerful products for you within the shortest of times – with the zero point clamping system developed in-house for short tooling times and maximum flexibility, mainly for single parts and low volumes. From the 5-axis milling centres with palletiser systems for speedy cycle times. To the measuring and eroding machines with an accuracy down to 0.03 mm.

- Foundry modelling
- Car body modelling
- Prototyping
- Mould manufacturing
- Gauge manufacturing
- Low volumes
- CAD
- CNC machining
- Measuring technology
- Deep-hole drilling
- Eroding

A success story for over 70 years.

1948 Company founded by Max Reuss

1966 Building of the first workshop

1970 Manfred Reuss takes over the company

1977 Acquisition of a model manufacturing business

1982 Establishing of model manufacturing M.Reuss GmbH

1986 Reconstruction at the present site

1989 Matthias Reuss joins

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FACTS AND FIGURES

Continued development, ecological thinking and matter-of-fact arguments

1996
Markus Reuss joins

1997
Company expansion with new construction

2000
Markus and Matthias Reuss take over company management

2009
1st process optimisation in production

2016
Investments in automation
Introduction of the zero point clamping system

2017
2nd process optimisation in production

Future investments planned and regular process optimisations

Quality Management
ISO 9001
www.dekra-seal.com
DEKRA certified

More than 70 years' experience

Quality management – ISO certification

Central warehouse in Germany

Delivery across Europe with freight forwarders

Power generated every year: 85,000 kWh

Regular federal, national and regional chamber of commerce winners

Own vehicle fleet for speedy response times

Company premises: 2,800 m²

In excess of 100 tons of aluminium used every year

Over 50 qualified employees

5-axis milling centre with palletiser systems

Eroding machines

Measurement machines

Deep-hole boring machine

CATIA design

TEBIS CAD/CAM workstations

Aluminium warehouse

Besides continual process optimisations and investments in automation, our goal as a partner to international industry is to bring into alignment economic actions and ecological thinking. Environment protection is part and parcel of our corporate strategy. Sustainable recycling, targeted deployment of resources and environmentally-friendly technologies make a key contribution towards this.

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MODEL MANUFACTURING

Tradition and passion here means: model manufacturing.

Highly professional products – for more than 70 years.

The origins of M.REUSS GmbH go back to model manufacturing. 70 years' experience makes us experts in foundry and car body model making, and prototyping. Our ideas and enthusiasm for innovative solutions are the basis for highly professional products. CAD data and drawings are used for generation. In prototyping, our services range from sample part production via laminates to high-value pre-production parts.

In the team work, you will quickly notice: it is simply a great pleasure to combine new ideas, modern production processes and traditional manual skills. Regardless of which tasks, of which materials and of how complicated the projects you intend are. The result is key.

Model manufacturing with model character.
Brand M.REUSS.

Foundry equipment

Core setting jigs

Prototype equipment

Hand mould models

Lost models (polystyrene)

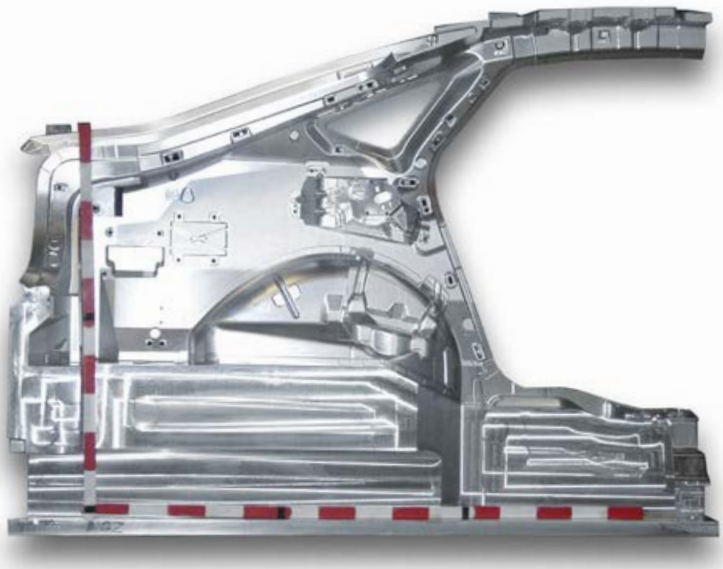
Function models and fixtures

Cubing

Laminate forms

GRP parts

Permanent moulds



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MOULD CONSTRUCTION

From the idea to the perfect product.
M.REUSS. Form perfect.

- Foaming tools for vehicle interiors
- Foaming tools for vehicle power systems
- Foaming tools for foam/PUR parts
- Water jet holding fixtures
- Prototype tools
- USW welding fixtures
- Tools for carbon parts
- Deep-drawing tools

Good, better, best: M.REUSS mould manufacturing.

Our core business is mould manufacturing. Be it manual moulds for low volumes or industrial moulds for mass production – we channel our experience in product and process optimisation into the early development phase. Here we make ourselves all the parts of a die that have a shaping function.

All processes between design, production and assembly are short and fine-tuned perfectly to each other. And with you – our customers. This is because we want to give your idea a shape that is suitable, works and meets your requirements.
And we want to do that to perfection.

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TOOL MANUFACTURING

When perfection and speed are in focus.
M.REUSS tools are the best decision.

Long-lasting standard moulds.

Increasingly complex and durable units are being demanded in tool manufacturing. The cycle times for tools here are becoming more and more important on the market.

Deployment across the globe of our standard moulds testifies to their functionality and precision. High levels of quality in material and production ensure longevity. Modern machines and automated, networked processes create speed. Extensive process control systems and state-of-the-art measuring stations provide reliability.

Function, mechanics, electrics, pneumatics, hydraulics and much more: With M.REUSS tools, you are on the safe side even for complex tool projects.

We smooth the path towards volume production.
Tools made in Germany. Made by M.REUSS.

Foaming tools for rigid foam, rubber and PU parts

GMPU tools

Compression mouldings

RIM tools

Fleece press tools

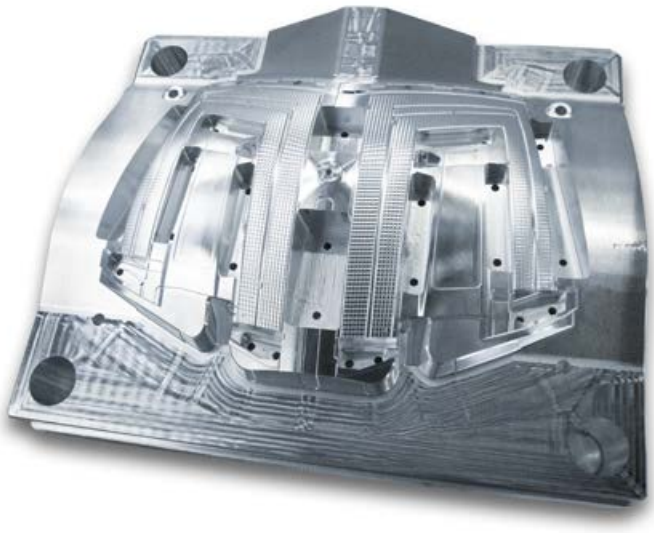
Laminating tools

Assembly jigs

Clamping fixtures

Standard moulds for vehicle power systems

Die cast moulds



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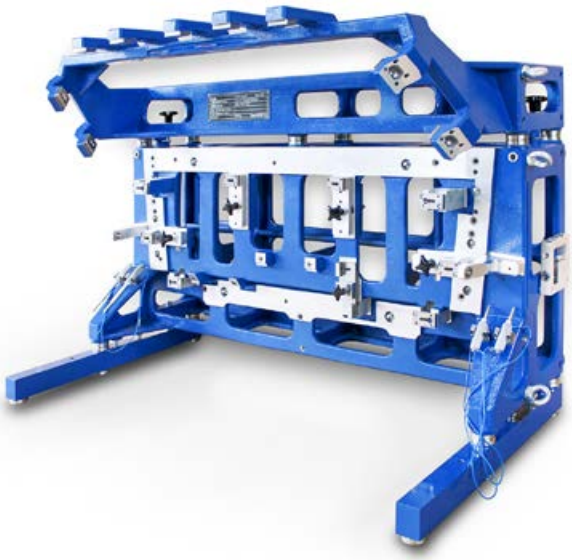
GAUGE MANUFACTURING



Measuring fixtures

Checking gauges

Control equipment

Cubing gauges

Calibres

Gauges to perfection – when there is a shortfall of 0.1%, we are not satisfied.

It is not only in the automotive sector that checking and measuring gauges are becoming increasingly important due to continually stricter quality requirements. This is why fixture and gauge manufacturing is a key focus at M.REUSS. Because accuracy knows neither compromises nor fluctuations, all precision parts and fixtures are checked by ourselves in our own air-conditioned measuring room under constant temperature and air-conditioning conditions.

Many years' expertise and perfected quality management ensure that our well-thought-out gauges satisfy the most exacting of standards. The M.REUSS gauge packet includes consultancy, design, production, assembly, and a digital test report and gauge capability report.

Gauges from M.REUSS.
When 99.9% is simply not enough.

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SERVICES

Designs. Small series. Measuring technology. CNC. Deep-hole drilling. There is nothing we cannot do.

Solutions-oriented thought processes and actions. In all sectors.

Undertaking complete projects with design and development, NC machining, assembly and function test are part of the standard at M.REUSS. In the development and design stages in particular, you benefit from the concentrated expertise and experience of our specialists and their innovative solutions. All dies, moulds and fixtures are designed in our CATIA V5 and TEBIS systems.

We of course also use our state-of-the-art machining centres for low volume production. A high level of automation and state-of-the-art equipment guarantee you precision workpieces yet short machining times. Aluminium, brass and bronze as well as steel and synthetic parts can be machined without problem.

Using our two measuring machines from STIEFELMAYER, we compile measurement reports for the most diverse of components. Here we guarantee an accuracy down to 0.03 mm. The results are shown graphically and numerically as a report (PDF format).

Contract manufacturing of low volumes

CAD with development support

Component measurements including documentation (accuracy to 0.03 mm)

5-axes CNC milling

Deep-hole drilling

We manufacture components of diverse materials and dimensions, be they for injection moulding, sheet stamping or punching dies. For the CNC sector, we have work-on-place workstations as well as central programming. This enables us to minimise idle cycles, making possible short cycle times.

Using the CAD/CAM software, all milling processes are NC-simulated beforehand during programming to eliminate collisions. We can, in the form of our zero-point clamping system developed in-house, offer to you speedy and precision contract CNC manufacturing.

All popular materials can be machined on our 4-axis pedestal milling and deep-hole boring machine.

M.REUSS. Solutions-oriented thought processes and actions. Be they for large-scale projects or low volumes.

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