

PRECISION.
FLEXIBILITY.
INTEGRATED MANUFACTURING.

MECHANICAL MANUFACTURING.

PRECISE. FLEXIBLE. ALL IN ONE PLACE.

MF SCHIRMBRAND
YOUR SPECIALIST IN HIGH-QUALITY
MECHANICAL COMPONENTS.



SHORT PROFILE

Industrial expertise begins with understanding.

Since 1997, MF Schirmband has combined its extensive experience, modern manufacturing technology, and streamlined decision-making processes to deliver reliable solutions for industrial needs.



1997

Founding

2003

Location Wyhl

20

Employees

1.200m²

Production Area

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HISTORY

Experienced. Reliable. Precise.

From a small basement room in France to a manufacturing facility in Wyhl: MF Schirbrand has grown over three generations.



Everything began in 1997 in a small workshop in France – driven by an idea, craftsmanship, and the courage to build something of our own.

Our founder, Winfried Schirbrand, laid the foundation when he identified a gap in manufacturing solutions and independently developed a practical solution. Together with his son Dirk Schirbrand and several other family members, this initiative evolved into a family-owned business that has grown across three generations. Through close collaboration, the company was continuously expanded and relocated to Wyhl, Germany, in 2003, where it remains based today.

Where experience
meets innovation,
precision is created.

Today, Dirk Schirbrand and Celine Hank (née Schirbrand) lead the company in its second and third generation, supported by a team of around 20 employees.





PROFILE

What sets us apart.

Quality stems from experience, clear communication, and an integrated production process that enables streamlined workflows.



01 Experience

Expertise built up since 1996 and a team that understands the needs of industrial customers.



02 Flexibility

Solutions for individual parts, prototypes, production runs, and complex assemblies — tailored to the task at hand.



03 Vertical integration

Sawing, CNC machining, bending, soldering, welding, assembly, and testing are all interlinked.

Our Mission

Combining business processes with consistently high quality, continuously improving manufacturing processes, and fulfilling orders efficiently, reliably, and to the satisfaction of our customers.

MECHANICAL MANUFACTURING

Turning Requirements into Solutions.

MF stands for mechanical manufacturing and flexible, customized solutions in industrial production. As a trusted partner to industry, we combine precision, quality, and continuous development.

Our customers' requirements are at the center of everything we do. Together with our clients, we develop solutions for single parts, series production, and complex manufacturing tasks that deliver both high technical standards and economic efficiency. Clear and close communication is a core part of our approach.

Our team plays a key role in this process: we think proactively, contribute technical expertise, and support the development of practical, application-oriented solutions.

As a full-service manufacturing partner, we cover the entire production process in-house – from the initial idea through to on-time delivery.

From the initial consultation to the finished component

1

Inquiry

Drawing, sample, or idea

2

Consulting

Technical and business

3

Manufacturing

appropriate process chain

4

Assembly

Subassembly and Function

5

Inspection

Leak testing, quality, documentation

6

Delivery

on time and as requested

SERVICE PORTFOLIO

Everything under one roof.

As a high-performance company, we provide end-to-end support for the entire manufacturing process — from the initial concept to on-time delivery.

Contract manufacturing

Contract manufacturing & machining

Machining according to drawings and customer specifications.

Single-part and series production

From individual parts to highly repeatable mass production.

Prototype manufacturing

Quick implementation and practical solutions.

Complex assemblies

When individual parts become functional solutions.

Technical consulting & solution development

We think things through before production begins.



Manufacturing techniques

Inductor manufacturing

CNC milling & drilling

Hard & soft soldering

Bending

Assembly of components

TIG & MIG Welding

Documented water pressure testing

Sawing operations

Surface finishing & cleaning

3D Printing (plastics)

MATERIALS

Manufacture in accordance with the material specifications.

The choice of material is determined by the component's application, machinability, and function.

Metals

COPPER

STEEL

STAINLESS STEEL

ALUMINIUM

BRASS

Plastics

DELIRIN

TEFLON

HGW

PVC

3D printing

PLA

PETG

ABS

PA6

OTHER PLASICS
AVAILABLE
UPON REQUEST

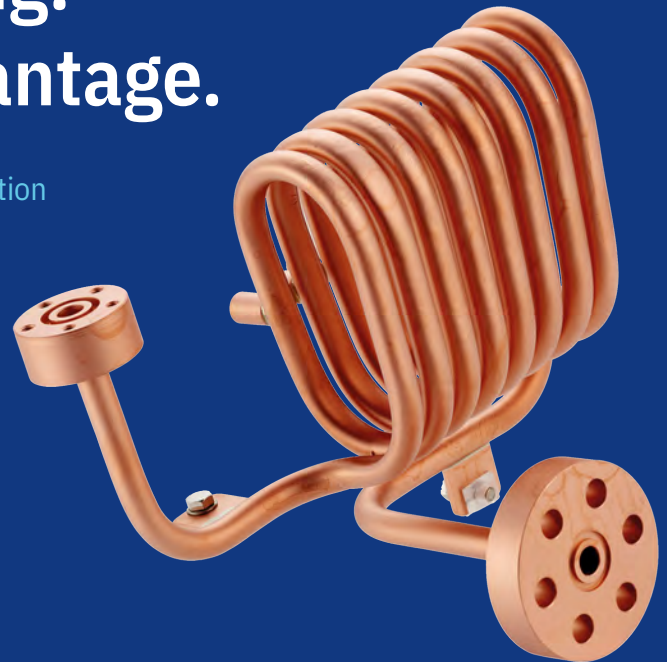
Other materials and special requirements will be evaluated on a project-by-project basis.



OUR CORE COMPETENCE

Inductor Manufacturing: Your Competitive Advantage.

Precision-engineered and precisely tailored to the application and process – from prototype to mass production.



Inductor manufacturing is one of our key core competencies and an essential part of our in-house production depth. Inductors must be precisely designed and adapted to the respective process and application in order to achieve optimal results in terms of efficiency, process reliability, and energy consumption.

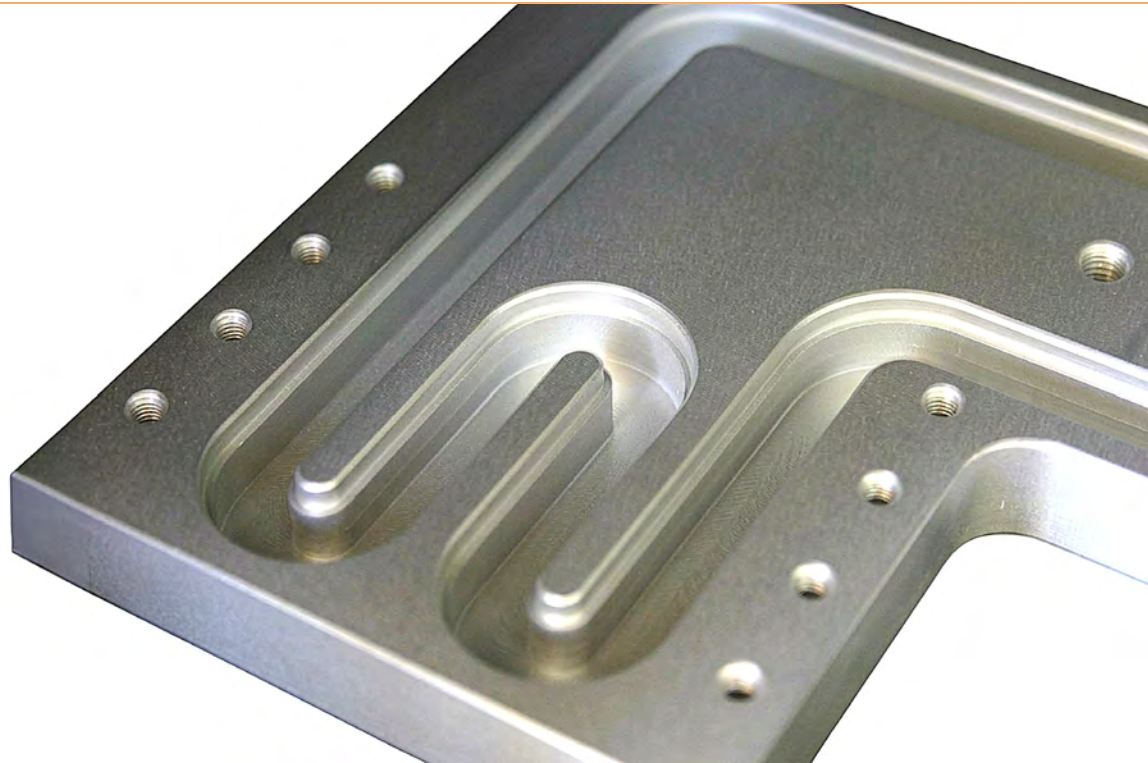
We manufacture and repair inductors according to your specific requirements – precise, application-oriented, and reliably built for long-term use.

A key advantage lies in our fully integrated in-house production. Depending on the application, inductors pass through multiple manufacturing departments within our company – from sawing and CNC machining to bending, soldering, assembly, and pressure testing.

This closely integrated production chain enables precise and cost-efficient solutions with short communication paths and a high level of manufacturing depth.

Our inductors stand for precision engineering, durable construction, and efficient energy use in production processes.

From prototype development through to series production, we are your reliable partner.



CNC-MILLING

Precision in Every Detail.

With five high-precision, state-of-the-art machining centers and two bar-fed automation systems, we reliably and economically produce even complex component geometries.

We manufacture both single parts and series production with consistently high repeat accuracy and dimensional precision, always based on your drawings and specifications. Short lead times are ensured through a modern and efficient machine structure.



We process the following materials:

Copper, steel, stainless steel, brass, and aluminum, along with plastics such as POM and Delrin.

Additional materials are available upon request.

We manufacture components with the following maximum dimensions: X = 1.050 mm · Y = 510 mm · Z = 510 mm

BRAZING & SOFT SOLDERING

Connections That Make the Difference.

Brazing and soft soldering have been among our core competencies since the very beginning. Through extensive experience and continuous development, we have established a stable production area that combines skilled craftsmanship with modern process reliability.

Depending on the component and material, we select the most suitable process and individually adapt temperatures as well as filler materials.

Technical Features

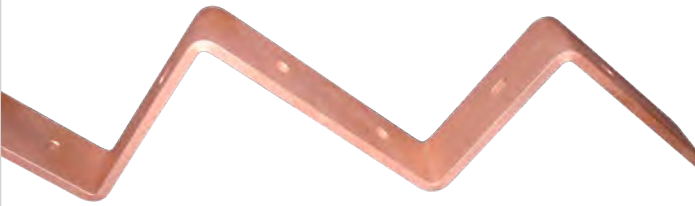
- 7 modern soldering stations
- Brazing and soft soldering for a wide range of applications
- Soldering temperatures from 227 °C to 700 °C
- Use of high-quality silver-based solders
- Precise and repeatable manufacturing processes
- Single-part, assembly, and series production



BLENDING CENTER

A Clear Advantage in Flexibility.

In our bending center, we process flat, round, and tubular materials. We use both CNC-controlled processes and conventional bending techniques – particularly when automated processes reach their limits or when specific requirements demand alternative solutions.



Flat Bar Bending

With our CNC-controlled Stierli bending machine, we produce precise and repeatable bent parts for flat and special materials. High pressing forces and robust machine structures ensure economical and reproducible results.

The large working area, combined with flexible tooling and stop systems, allows versatile applications across a wide range of geometries.

Technical Specifications

Tool height: 200 mm
Stroke length: 0 – 300 mm
Stop measuring length: 1.000 / 2.000 mm
Measuring accuracy: $\pm 0,1$ mm
Bending capacity: flat material up to 200×16 mm



Tube Bending

Using our mandrel bending machine, we manufacture precise bent components from tube and round material. Automatic bar feeding and modern control technology ensure consistent quality and stable processes.

In addition, we use conventional bending methods to flexibly meet complex or special requirements.

Technical Data – Automatic Bending

Tube capacity: up to 16×2 mm
Round material: up to 12 mm
Maximum tube length: 2.000 mm
Length positioning accuracy: 0,1 mm
Torsion accuracy: $0,1^\circ$

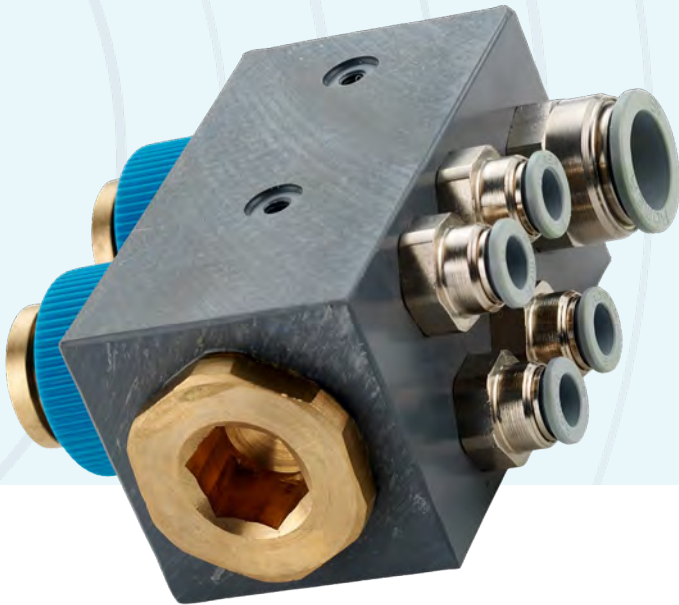
ASSEMBLY OF COMPONENTS

Where Everything Comes Together.

We manufacture and assemble components according to drawings and customer specifications – precisely, economically, and with a high level of process reliability.

Depending on the project, we handle complete in-house production or integrate purchased components.

Thanks to our high level of in-house manufacturing depth – from CNC machining, soldering, welding, and bending through to final inspection – we deliver ready-to-install solutions from a single source.



TIG- & MIG WELDING

Welding Technology with Precision.

We perform TIG and MIG welding as a complement to our manufacturing processes and in accordance with customer requirements.

This includes tack welding and final welding of components, tailored to material type, application, and geometry.

Depending on the requirements, we select the most suitable process and integrate welding operations efficiently into the overall production workflow.



DOCUMENTED WATER PRESSURE TESTING

We Test What Must Be Sealed.

We test components and assemblies for tightness and functionality – either as functional testing or as documented testing according to customer specifications.

Testing is carried out under defined water pressure conditions with test pressures of up to 20 bar. This ensures the integrity of solder joints, connections, and complete assemblies.

Test reports can be generated, archived, or provided to the customer upon request.



20 bar

Maximum test pressure
for water pressure tests as
specified by the customer

SURFACE TREATMENT & CLEANING

Ready for the Customer.

We handle cleaning and preparation of components as an important step within the manufacturing process.

Depending on requirements, processing is carried out in-house or through selected external partners in the field of surface finishing. This allows us to manage complete process chains flexibly and offer integrated solutions from a single source.

A key focus is the preparation of components for further use, ensuring quality, functionality, and corrosion protection throughout the entire process.



SAWING OPERATIONS

The Cut That Prepares Everything.

Our sawing department includes several systems, among them a CNC-controlled saw. This enables precise and resource-efficient cutting of metal and plastic semi-finished materials.

We process steel, stainless steel, copper, brass, aluminum, as well as technical plastics.

By combining different sawing technologies, we can respond flexibly to batch sizes and material requirements while ensuring consistently high quality throughout the production process.

3D PRINTING

When ideas take shape.

With our FDM 3D printers, we are expanding our traditional manufacturing capabilities to include the additive manufacturing of plastic components. This allows us to respond flexibly to requests for prototypes, individual parts, and small production runs, and to produce even complex geometries cost-effectively.

In addition to functional prototypes, we also manufacture components, mounts, transport restraints, and assembly-supporting components for various industrial applications. Thus, 3D printing ideally complements our manufacturing chain and enables fast, flexible solutions tailored to your needs.

We are always available for custom applications or special requirements—please feel free to contact us; we'll be happy to advise you personally.

Technical Specifications

- **Print area:** 360 × 360 × 360 mm
- **Materials:** PLA · PETG · ABS · PA6
- Additional materials available upon request

COLLABORATION

Precision doesn't begin at the machine.

It is the result of expert advice, experience, clear communication, streamlined processes, and a team that thinks proactively.

Technical understanding

Requirements are discussed together and translated into practical solutions.

Reproducibility

Manufacturing processes are carried out efficiently and consistently.

Reliability

Streamlined approval processes support scheduling, quality, and documentation.





CONTACT

Please contact us.

We provide personalized, tailored, and expert advice —
from the initial concept to the finished component.

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