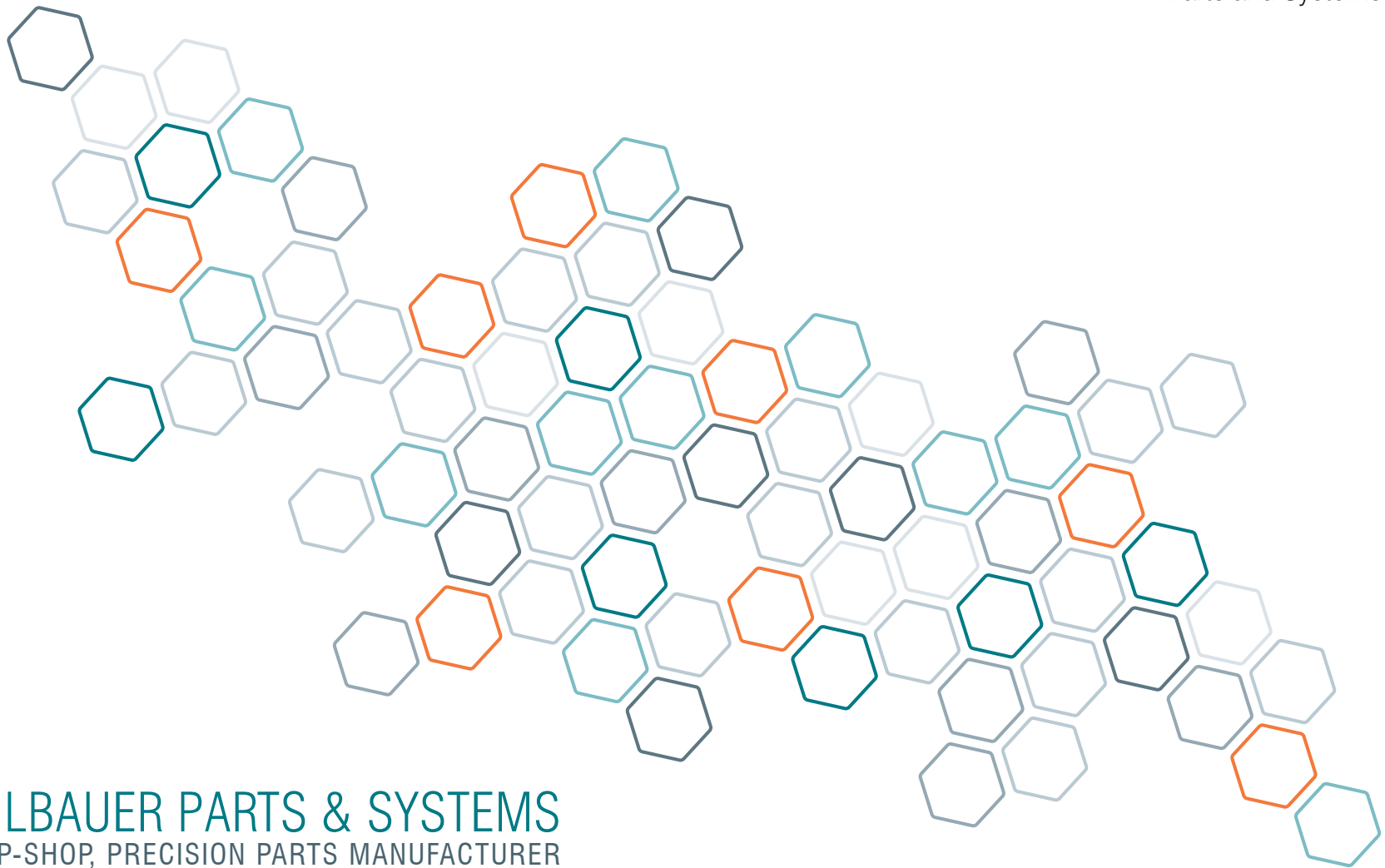




MPS

Parts and Systems



MUEHLBAUER PARTS & SYSTEMS
ONE-STOP-SHOP, PRECISION PARTS MANUFACTURER



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ABOUT MUEHLBAUER

The success story of our owner Josef Muehlbauer began in 1981 with a single lathe, and by now, the Muehlbauer Group is a globally active corporation with over 4,000 employees.

Divided into four Business Lines TECURITY®, AUTOMATION, ATECH and Parts & Systems, Muehlbauer Parts and Systems (MPS) is the heart of the Muehlbauer Group with headquarters in Roding, Germany – this is where all parts and systems are produced that are also required for solutions in the other Business Lines. You too can benefit from the know-how of the market leader and take advantage of the enormous synergies through a partnership with our organization.

In order to implement your innovations and solutions flexibly, quickly, in high quality and yet with little effort,

there is one thing you will need above all – to get as much as possible from a single source!

Briefly summarized, our greatest strength lies in the diversity of our technological possibilities, which we combine all under one roof. Starting with milling, turning, sheet metal processing, grinding, eroding, welding and in-house assembly (incl. ISO class 7 clean room) up to in-house finishing using the latest galvanic solutions, as well as powder and wet paint coatings.

You therefore gain the greatest economic advantage when you are using our complete value chain, because we see ourselves as a ONE-STOP-SHOP. Given our operational size and extensive manufacturing capabilities, we focus on projects, assemblies, and complete machines.

» BEING AN ENTREPRENEUR MEANS
TO TAKE ON RESPONSIBILITY,

FOR OUR CUSTOMERS,
OUR EMPLOYEES AND THE FUTURE. «

Josef Muehlbauer



COMPANY HISTORY



1981 – FOUNDATION

Josef Muehlbauer starts with a single machine for precision parts – the beginning of a success story.



1983 – PRECISION PARTS

Serial production of precision parts for the aerospace & automotive industry.



1986 – SEMICONDUCTOR MARKET

Production of manufacturing systems for the semiconductor back-end industry – the basis for the later Automation Business Line.



1988 – CARD SOLUTIONS

First turnkey solution for production of plastic cards and smart cards.



2005 – TECURITY®

Start of the business line TECURITY® – secure end-to-end systems for ID cards and government agencies.



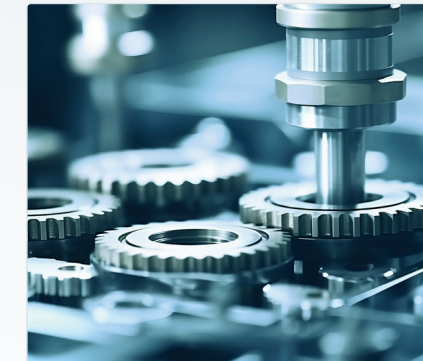
2022 – ATECH

Our high-precision battery and fuel cell production lines are setting new standards in eMobility.

OVERVIEW OF OUR BUSINESS LINES

PRECISION PARTS PRODUCTION PARTS & SYSTEMS

Highest vertical range of manufacture for individual and serial production – efficient, fast, precise.



PRODUCTION FACILITIES AUTOMATION

Complete solutions for machine and plant engineering – for passports, cards, semi-conductors, RFID and more.



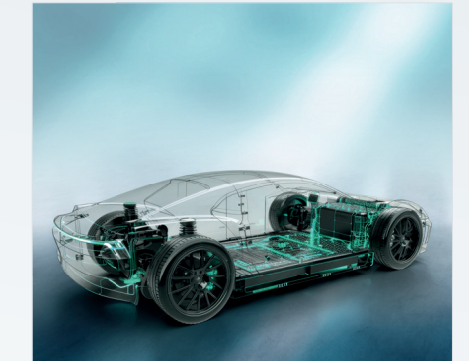
GOVERNMENT SOLUTIONS TECURITY®

Security solutions for governments – from conception and design to document issuance.



ADVANCED ENERGY TECHNOLOGIES ATECH

Production lines for eMobility – battery cells, fuel cells and flexible solar technologies.



MB PARTS & SYSTEMS LOCATIONS

COMBINED FORCES FOR MAXIMUM QUALITY AND SPEED

Our Muehlbauer Parts & Systems (MPS) and Muehlbauer Surface Technology (MBO) plants in Roding, Stollberg and Nitra work hand in hand – from development and prototype construction to serial production, system assembly and surface finishing.

With our state-of-the-art systems, bundled expertise and over 1,000 qualified employees, we supply everything from individual parts to large series worldwide – reliably,

on time and in certified quality according to DIN EN ISO 9001.

Our own raw material warehouse and in-house logistics ensure extremely short delivery times – worldwide. A part of our success are long-term partnerships with our customers, just as much as the continuous training of junior staff in order to ensure the highest level of precision technology for the future.

THREE LOCATIONS, ONE MISSION: PRECISION FROM A SINGLE SOURCE

MPS RODING (GERMANY)

30000 m² | **450** | **200**
production area | employees | machines



MPS STOLLBERG (GERMANY)

15000 m² | **230** | **90**
production area | employees | machines



MPS NITRA (SLOVAKIA)

22000 m² | **300** | **120**
production area | employees | machines



MBO RODING (GERMANY)

10000 m² | **100** | **40**
production area | employees | procedures





OUR STRENGTHS

YOUR ADVANTAGES

At Muehlbauer Parts & Systems (MPS) you will find all the core competencies of production under one roof – from material processing through to surface finishing, assembly and logistics. What does this mean for you: fewer interfaces, faster processes, maximum control over quality and deadlines.



ALL FROM A SINGLE SOURCE

Production, surfaces, assembly and logistics come together in a continuous process – from the initial idea to the finished product, with over 40 years of experience and constant development.



WIDE TECHNOLOGICAL SPECTRUM

Milling, turning, sheet metal processing, welding, grinding, clean room assembly, surface technology – flexibly combinable.



QUICK RESPONSE & HIGH CAPACITY

Over 1,000 employees, three production sites, modern facilities – for short delivery times, express production on request, and reliable serial and individual parts production.



IN-HOUSE RAW MATERIAL STORAGE

Large stock of materials for independent, reliable and predictable delivery capability.



INVESTING IN CAPACITY

Over EUR 65 million has been invested in the last 6 years in machines, buildings and infrastructure.



CUSTOMER-ORIENTED COOPERATION

Long-term partnerships, direct points of contact, assistance from concept to series production.



SECURING THE FUTURE THROUGH TRAINING

In-house training programs for specialists – this is how we ensure know-how and quality in the long run.



QUALITY WITHOUT COMPROMISE

Resource-efficient production, durable products and internal cycles with ongoing process control and testing in accordance with DIN EN ISO 9001.

ORIGINAL EQUIPMENT MANUFACTURER

YOUR PRODUCT. OUR COMPETENCE.

As an OEM partner, we supply exactly coordinated parts and system modules – from precisely manufactured components to pre-assembled units. Your advantages: Reduced interfaces, compact processes, a single point of contact. Our digital control system guarantees punctuality and transparency – from drawing up to serial production.



IT WAS NOT EASY TO FIND A PARTNER WHO COULD HANDLE OUR PROJECT BUSINESS. MPS WAS ABLE TO QUICKLY ADAPT TO OUR FLEXIBLE PARTS LIST STRUCTURE, PAVING THE WAY FOR COOPERATION.

STRATEGIC PROCUREMENT – PACKAGING INDUSTRY

PRECISION ENGINEERING AT ITS BEST ALL UNDER ONE ROOF

Our strength lies in the diversity of our production technologies. From milling, turning and sheet metal processing to component assembly, we are using a high level of vertical integration for optimized processes and maximum quality. As part of the Muehlbauer Group with worldwide operations (over 4,000 employees), we are continuously modernizing our machinery and constantly training our team. Our claim: long-term partnerships and solutions that fit perfectly.



ALL PROCEDURES. ONE PARTNER. PERFECT RESULTS.

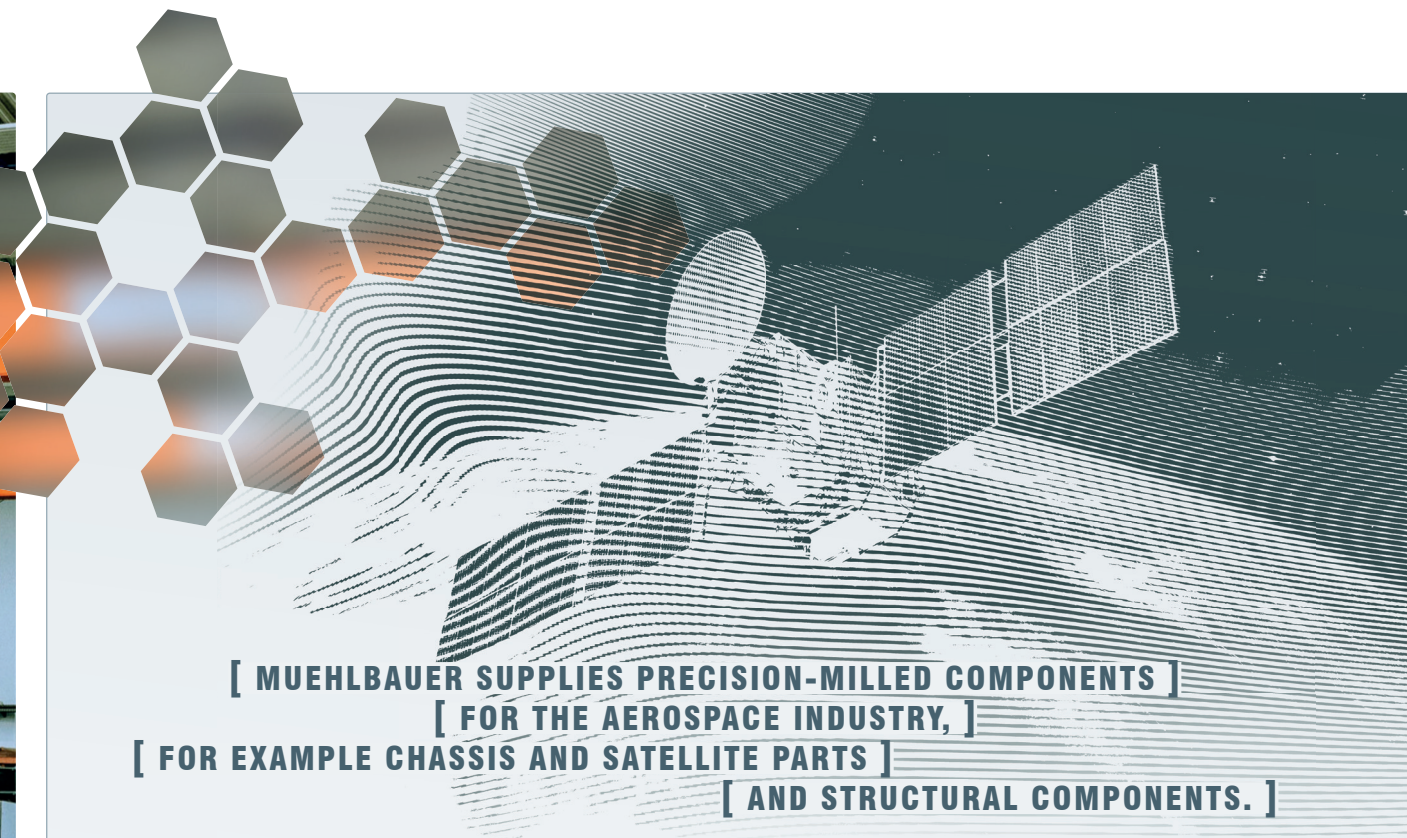
- MILLING
- TURNING
- LASER PROCESSING
- WELDING
- GRINDING & ERODING
- ASSEMBLY PROCESSES
- SURFACE TECHNOLOGY
- MICROSCOPIC FINE DEBURRING
- QUALITY ASSURANCE



MILLING

- » DMG
- » Hermle
- » Mikron
- » Zayer
- » Kern

- TURNING
- LASER PROCESSING
- WELDING
- GRINDING & ERODING
- ASSEMBLY PROCESSES
- SURFACE TECHNOLOGY
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- QUALITY ASSURANCE



[MUEHLBAUER SUPPLIES PRECISION-MILLED COMPONENTS]
 [FOR THE AEROSPACE INDUSTRY,]
 [FOR EXAMPLE CHASSIS AND SATELLITE PARTS]
 [AND STRUCTURAL COMPONENTS.]

MILLING

FROM SMALL TO LARGE, FROM SIMPLE TO COMPLEX!

Whether microstructure or XXL component – we are milling with the highest precision and flexibility. With state-of-the-art HSC and 3D technologies we are processing complex geometries in prototypes, small and large series. Air-conditioned production facilities and high-performance machining centers guarantee μ -precise quality.

Benefit from our expertise:

- Components up to 8,000 x 4,350 x 2,400 mm
- HSC and 3D milling, simultaneous machining
- Micro-machining for the finest structures
- Highest dimensional accuracy through climate control



• MILLING

• TURNING

» DMG
» Weiler
» EMAG

• LASER PROCESSING

• WELDING

• GRINDING & ERODING

• ASSEMBLY PROCESSES

• SURFACE TECHNOLOGY

• MICROSCOPIC FINE DEBURRING

• QUALITY ASSURANCE



[WE RELIABLY MANUFACTURE HIGH-PRECISION TURNED PARTS]
[FOR SECURITY & DEFENSE TECHNOLOGY –]
[E.G. FOR DIEHL DEFENCE OR MBDA.]

TURNING

WE ARE NOT JUST TURNING THE WHEEL OF TIME!

Complex contours, perfect roundness – our modern turning and milling centers are setting standards in quality and efficiency. Whether individual parts or large series, we guarantee absolute precision and short throughput times.

Your benefits at a glance:

- Machining up to Ø 660 mm
- Combined turning and milling processes
- Fully automated production
- High flexibility for all lot sizes



● MILLING

● TURNING



LASER PROCESSING

» Trumpf

» Amada

● WELDING

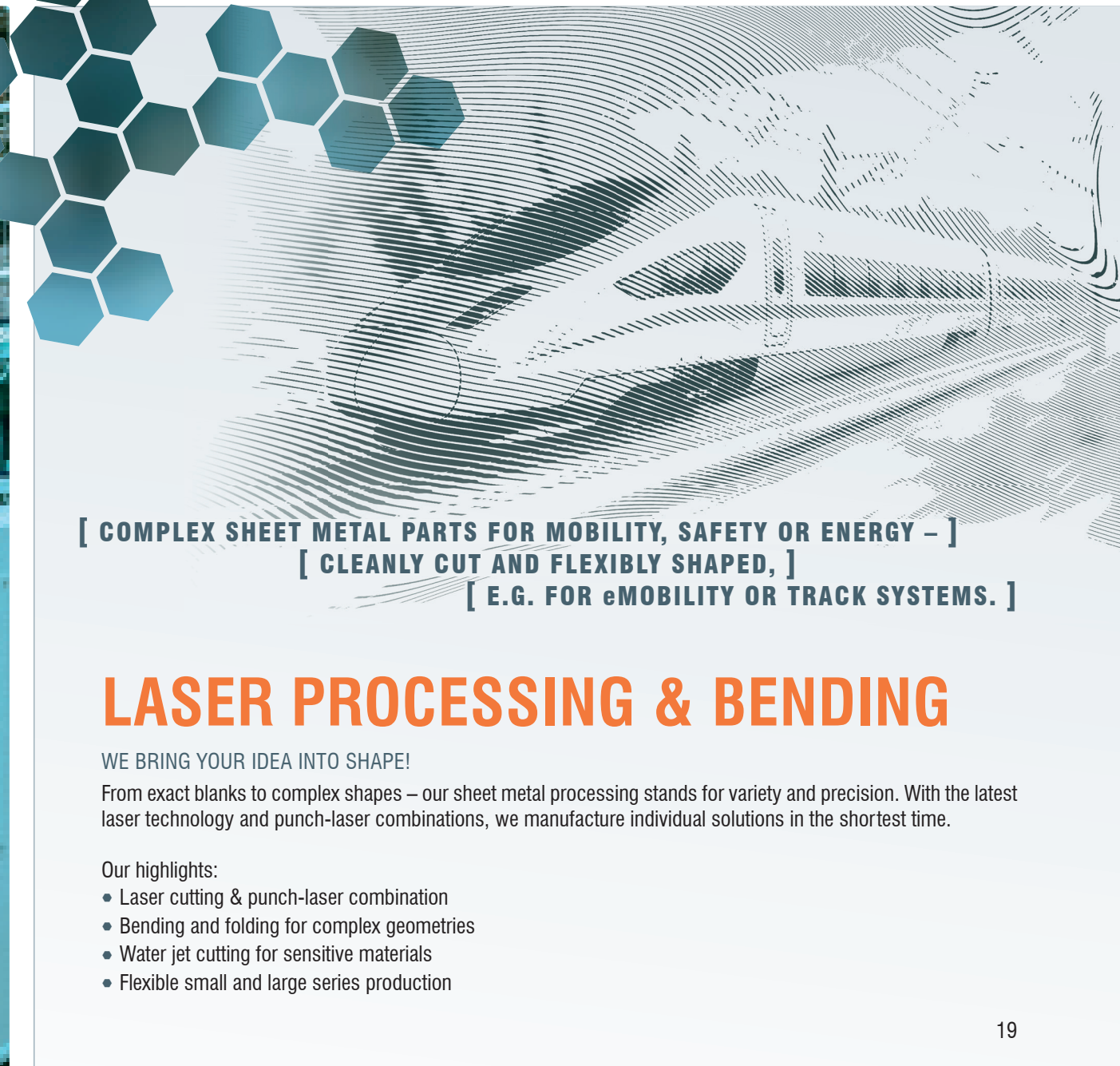
● GRINDING & ERODING

● ASSEMBLY PROCESSES

● SURFACE TECHNOLOGY

● MICROSCOPIC FINE DEBURRING

● QUALITY ASSURANCE



[COMPLEX SHEET METAL PARTS FOR MOBILITY, SAFETY OR ENERGY –]
[CLEANLY CUT AND FLEXIBLY SHAPED,]
[E.G. FOR eMOBILITY OR TRACK SYSTEMS.]

LASER PROCESSING & BENDING

WE BRING YOUR IDEA INTO SHAPE!

From exact blanks to complex shapes – our sheet metal processing stands for variety and precision. With the latest laser technology and punch-laser combinations, we manufacture individual solutions in the shortest time.

Our highlights:

- Laser cutting & punch-laser combination
- Bending and folding for complex geometries
- Water jet cutting for sensitive materials
- Flexible small and large series production

- MILLING
- TURNING
- LASER PROCESSING

WELDING

- » Welding robots
- » Dalex
- » ESS
- » EWM
- » Fronius

- GRINDING & ERODING
- ASSEMBLY PROCESSES
- SURFACE TECHNOLOGY
- MICROSCOPIC FINE DEBURRING
- QUALITY ASSURANCE

THE INNOVATIVE AND FLEXIBLY EQUIPPED MACHINERY OF „PARTS & SYSTEMS“ IS OVERWHELMING; THE PRODUCTION IS ALWAYS WORTH A VISIT AND YOU ARE WELCOME ANYTIME!

PROJECT MANAGER – FILLING TECHNOLOGY

[WE WELD LARGE COMPONENTS OF OVER 7 METERS]
[WITH THE MOST MODERN PROCEDURES –]
[IDEAL FOR THE AUTOMOTIVE, FILLING AND PACKAGING INDUSTRIES.]

WELDING

WE ARE JOINING TOGETHER!

We process complex components and large parts with a length of over 7 meters – precisely, cleanly and reliably. Thanks to diverse welding processes such as laser welding, TIG welding, MIG welding, MAG welding, spot welding and stud welding, we can accurately implement individual customer requirements. State-of-the-art systems – from welding robots through to devices by Dalex, ESS, EWM and Fronius – are ensuring consistently high quality in small and large series.

You can benefit from the expertise of the market leader:

- Processing of complex geometries
- Large parts processing over 7 meters
- Wide range of welding methods
- Precise & clean connections
- Customized solutions



- MILLING
- TURNING
- LASER PROCESSING
- WELDING

GRINDING & ERODING

- » ELB
- » Jung
- » Kellenberger
- » Kuhlmeier

- ASSEMBLY PROCESSES
- SURFACE TECHNOLOGY
- MICROSCOPIC FINE DEBURRING
- QUALITY ASSURANCE

IT IS SIMPLY IMPRESSIVE HOW MANY VARIOUS TECHNOLOGIES YOU SEE IN USE AT MUEHLBAUER. YOU HAVE TO SEE IT WITH YOUR OWN EYES, I WILL GLADLY COME BACK!

PRODUCT MANAGER – HEALTHCARE



[MUEHLBAUER MANUFACTURES HIGH-PRECISION COMPONENTS]
[FOR MEDICAL IMAGING –]
[ABSOLUTE ACCURACY FOR MRT AND CT SYSTEMS.]

GRINDING & ERODING

PERFECTION FOR SURFACES AND CONTOURS

Our grinding technologies deliver exact tolerances up to ± 0.002 mm for the finest surfaces. From cylindrical or profile grinding up to coordinate grinding, we ensure precision under the highest requirements. Supplemented by wire and sink eroding, we manufacture highly complex contours from conductive materials – ideal for demanding industries such as medical technology or aviation.

Benefit from our expertise:

- Cylindrical, profile and jig grinding
- Wire and sink eroding for complex geometries
- Precision up to ± 0.002 mm
- Integrated state-of-the-art measuring technology



- MILLING
- TURNING
- LASER PROCESSING
- WELDING
- GRINDING & ERODING



ASSEMBLY PROCESSES

- SURFACE TECHNOLOGY
- MICROSCOPIC FINE DEBURRING
- QUALITY ASSURANCE



[COMPLETE MODULE ASSEMBLY,]
[ALSO IN THE CLEAN ROOM (ISO 7) –]
[E.G. FOR SECURITY-RELEVANT SYSTEMS OR MOBILITY COMPONENTS.]

ASSEMBLY PROCESSES

WE SEE OURSELVES AS A ONE-STOP-SHOP!

We assemble units and complete systems according to the highest standards – on request also in the clean room (ISO class 7 according to ISO 14644). Our services include pre-assembly, final assembly, test runs and on-site commissioning. Thanks to our one-stop-shop approach, you receive everything from a single source – efficiently, safely and on time.

You can benefit from the expertise of the market leader:

- Complete module assembly
- Test runs and pre-commissioning
- Clean room assembly (ISO class 7 / ISO 14644)
- Just-in-time delivery and logistics



- MILLING
- TURNING
- LASER PROCESSING
- WELDING
- GRINDING & ERODING
- ASSEMBLY PROCESSES



SURFACE TECHNOLOGY
» Powder Coating & Painting

- MICROSCOPIC FINE DEBURRING
- QUALITY ASSURANCE

THE QUALITY AND TECHNICAL ADVICE FROM „PARTS & SYSTEMS“ IS THE DECIDING FACTOR TO US IN THE BUSINESS RELATIONSHIP. ONLY THROUGH MPS WE WERE ABLE TO REALIZE AN EXTREMELY FAST MARKET ENTRY!

CTO – SPACE INDUSTRY



MBO
Surface Engineering

[SURFACE REFINEMENT FOR THE AEROSPACE INDUSTRY –]
[FUNCTION, PROTECTION AND DESIGN FROM A SINGLE SOURCE.]

MBO – SURFACE TECHNOLOGY POWDER COATING & PAINTING

PROTECTION, AESTHETICS AND DURABILITY FOR METAL SURFACES!

MBO offers high-quality powder coating and painting solutions for steel and aluminum. With state-of-the-art technology and a broad variety of colors and coating options, MBO provides a resistant, visually appealing and environmentally friendly surface finishing. These processes protect materials from corrosion, wear and weathering – ideal for a wide range of industries with the highest quality requirements. Our customized coating systems are precisely adapted to our customers' needs – delivering the perfect balance of performance, design and protection for every application.

Our range of services:

- Varnishing & powder coating
- Iron phosphating
- Glass bead, grit, steel shot and ceramics blasting



- ◆ MILLING
- ◆ TURNING
- ◆ LASER PROCESSING
- ◆ WELDING
- ◆ GRINDING & ERODING
- ◆ ASSEMBLY PROCESSES



SURFACE TECHNOLOGY
» Electroplating Technology

- ◆ MICROSCOPIC FINE DEBURRING
- ◆ QUALITY ASSURANCE



[CENTRAL EUROPE'S MOST FLEXIBLE FACILITY:]
[MORE THAN 100 UNIQUE SURFACE TREATMENTS!]

MBO – SURFACE TECHNOLOGY ELECTROPLATING TECHNOLOGY

HIGH-QUALITY METAL FINISHING FOR OPTIMUM DURABILITY

In electroplating technology, MBO provides durable and functional coatings, which improve both the protection as well as the optical quality of metal parts. Through proven processes such as galvanization, anodization or passivation, the durability of components is considerably increased. With decades of experience in surface technology, MBO delivers customized solutions for a wide range of industrial applications. Each electroplating solution is developed in close collaboration with our customers – tailored precisely to their technical requirements and quality standards.

Our range of services:

- Galvanization (acidic/alkaline), Zinc & Nickel
- Passivation (surtec 650)
- Hard-anodization
- Anodization
- Black oxidation



- MILLING
- TURNING
- LASER PROCESSING
- WELDING
- GRINDING & ERODING
- ASSEMBLY PROCESSES
- SURFACE TECHNOLOGY
-  **MICROSCOPIC FINE DEBURRING**
 - » 4 workstations
- QUALITY ASSURANCE



[MUEHLBAUER MANUFACTURES COMPONENTS]
[FOR THE AVIATION INDUSTRY -]
[BURR-FREE FOR MAXIMUM SAFETY IN FLIGHT.]

MICROSCOPIC FINE-DEBURRING

DIVERSITY DOWN TO THE DETAILS!
Even with state-of-the-art manufacturing processes, burr formation during chipping production cannot always be completely avoided. At MPS, we target on burr-free and chip-free components. This is why we have specialized in the optimum deburring and finishing of your components with several processes.

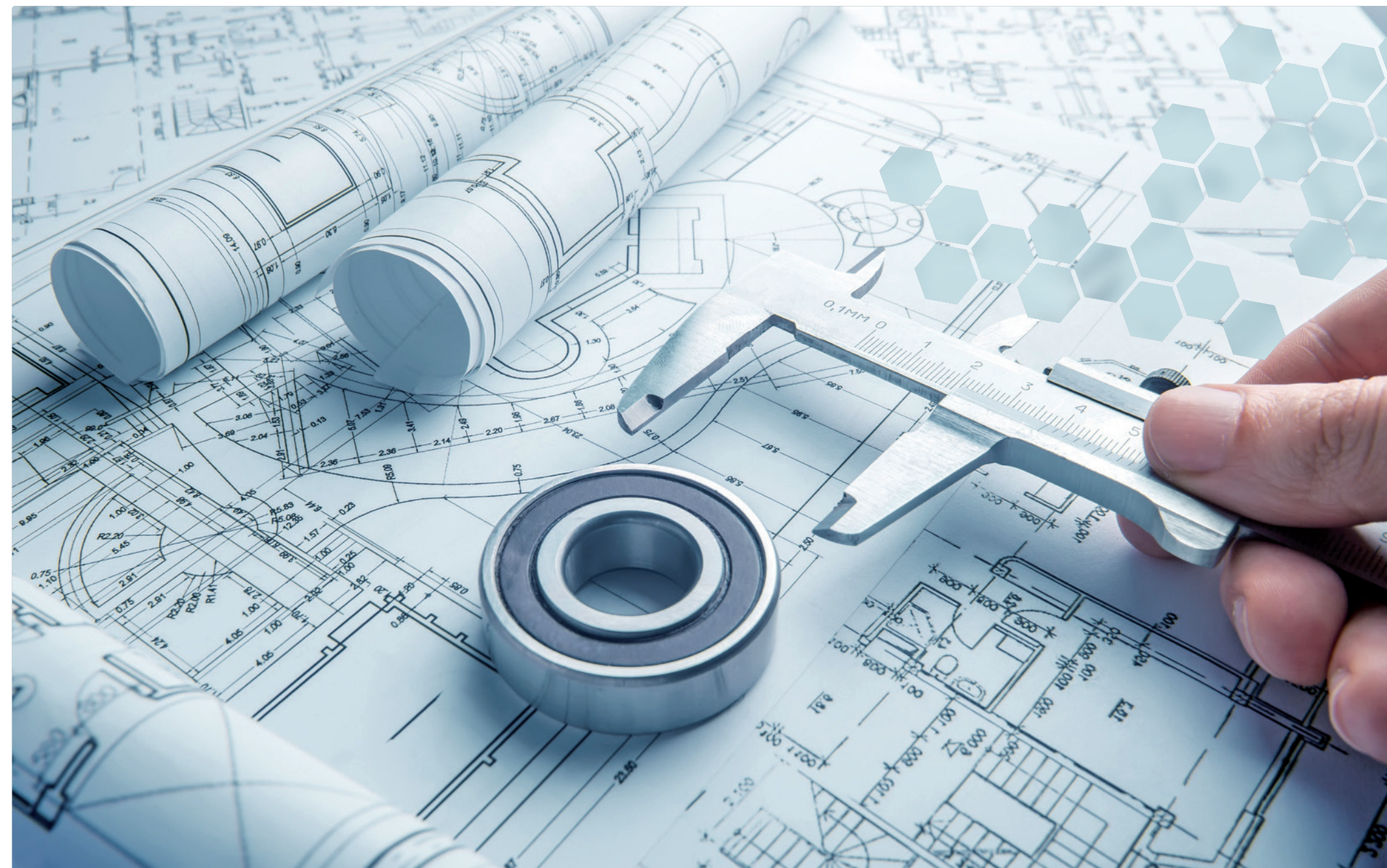
- Our services at a glance:
- Microscopically burr-free, chip-free precision parts, without compromise
 - Fine deburring down to 20 μ edge condition
 - Finishing and polishing for optimum function
 - Step-free transitions
 - Endoscopic detection and reliable removal of the smallest burrs



- MILLING
- TURNING
- LASER PROCESSING
- WELDING
- GRINDING & ERODING
- ASSEMBLY PROCESSES
- SURFACE TECHNOLOGY
- MICROSCOPIC FINE DEBURRING

QUALITY ASSURANCE

- » Dura Max
- » Prismo 5
- » Prismo 7
- » Accura II



[MUEHLBAUER SUPPLIES PRECISELY TESTED COMPONENTS]
[FOR FORMULA 1 MOTORSPORT -]
[UNCOMPROMISING QUALITY FOR TOP PERFORMANCE.]

QUALITY ASSURANCE

TRUST IS GOOD, CONTROL IS BETTER!

With state-of-the-art measurement technology, we ensure the highest quality standards – from the initial sampling to series release. Our services include coordinate measuring technology, optical measurements, FAI, material analysis and documentation. This is how we ensure traceability and absolute accuracy for safety-critical components.

Our services at a glance:

- 3D-coordinate measuring technology (up to 4,000 x 2,000 x 1,500 mm)
- Optical measuring systems & surface analysis
- Initial sampling (FAI) & test reports according to 3.1
- Digital traceability of all processes

CERTIFICATES

Our high quality standards are audited and certified by neutral institutions. Regular re-audits ensure continuous compliance with certification conditions.

Additionally, we conduct regular audits of well-known customers directly on our premises. In this way, we ensure that all required standards are not only kept, but also continuously improved. This means that customers can rely on the highest quality. Guaranteed.

GENERAL CERTIFICATES

DIN ISO 9001:2015

ENERGY AND ENVIRONMENTAL PROTECTION

DIN EN ISO 50001

DIN EN ISO 14001

WELDING CERTIFICATES

DIN ISO EN 15085-2

DIN ISO 3834-2:2006

GSIHai EN1090 2.00222.2013.005

GSIHai EN1090 3.00471.2014.004

GSIHai-EN1090-2.00581.2015.003

CPR EN1090 1 2015.0154.003

CPR EN1090 1 2013.0465.005

CPR EN1090 1 2013.0465.004



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