

We shape the future.
Sustainably.



WE SHAPE THE FUTURE. SUSTAINABLY

WE SHAPE THE MATERIAL
FROM WHICH THE ENERGY TRANSITION IS MADE.

With a combination of recycling and green energy, our goal is within reach: In 2030, the Silbitz Group will produce climate-neutral products for the European energy transition and for safety in public spaces.



CLIMATE NEUTRALITY
BY 2030

“Silbitz Group is taking a traditional technology into the future with innovative processes. We use recycled materials to create products for renewable energies and for safety in public spaces.”

DR. TORSTEN TIEFEL
Managing Director Silbitz Group

OUR MISSION – SUSTAINABILITY

The Silbitz Group does not see itself as part of an “old economy”, but as an important player in the European energy transition. That is why we have set ourselves a clear agenda on the path to climate neutrality. Silbitz is one of the few iron and steel foundries with sites in

Europe that can shape products weighing up to 120 tons. Many of these are key elements of the energy transition, such as axle housings for trains or hubs for wind turbines. This makes us a system-relevant, but at the same time energy-intensive company.

90 %

Raw material from
the circular economy

CIRCULAR ECONOMY

We are increasingly sourcing our raw materials from the circular economy, for example metal waste from the automotive industry. The optimization of materials and sustainable waste management as well as strict waste separation and the minimization of landfills contribute to the reduction of methane emissions. The Silbitz Group melts down 90 % recycled material.

70 %

Renewable
energies

RENEWABLE ENERGIES

The Silbitz Group is gradually switching to electricity from renewable energies. This is because the use of renewable fuels and electrical energy instead of fossil fuels for the smelting process is essential for CO₂ emissions. We have come a long way along this path: around 70% of our electricity already comes from renewable energies.

ISO
14001

Environmental
certification

SUSTAINABLE PRODUCTION & SUPPLY CHAINS

At our production sites, we use energy as sparingly as possible with state-of-the-art technologies and processes. We also ensure that suppliers apply sustainable practice, i.e. have environmental certifications and use advanced technologies and innovation. The Silbitz Group successfully undergoes all relevant sustainability audits, such as ISO 14001.

68 %

Products for the
energy transition

PRODUCTS FOR THE ENERGY TRANSITION

In the medium term, we are the largest producer of hubs for offshore wind turbines – without us, the offshore program for the North and Baltic Seas and the European Union's climate targets could not be implemented. In addition to the wind power industry, rail technology plays an important role in both passenger and freight transportation. The first hydrogen-powered passenger train "Coradia iLint", for example, runs with our axlebox housings. Around 68 % of our total turnover is generated with cast parts for renewable energy generation.

STRENGTH IN NUMBERS

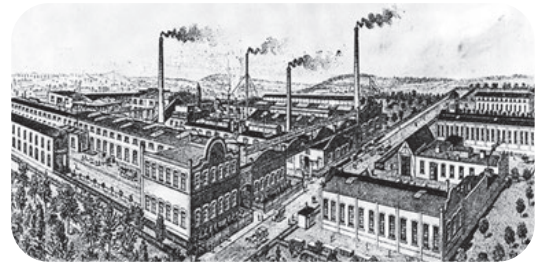
FOREWORD

The Silbitz Group, a network of four foundries and its own pattern-making division, offers you fast, high-quality, and reliable processing of your order — from design through to completion.

Tradition, a wealth of technological experience, and the innovative implementation of research and development results make us one of the leading European foundry groups in Germany. We offer our customers a wide range of services, from design consulting through pattern making, the casting process, machining, and coating, all the way to just-in-time delivery.

Setting new standards—that is also our goal in the area of customer satisfaction. Tailored to individual needs and pushing the limits of technical feasibility, we address our customers' requests quickly and flexibly.

HISTORY



- 1896 Founding of the Rasberg foundry
- 1938 Founding of the Silbitz foundry
- 1990 Transformation to Silbitz Guss GmbH
- 2006 Acquisition of the Eurocast Košice foundry (EUROCAST Košice, s.r.o., Slovakia)
- 2007 Foundation of ZGG - Zeitzer Guss GmbH
- 2021 Acquisition of the former Torgelow iron foundry (new name: Silbitz Group Torgelow GmbH)



BENEFITS

BROAD RANGE OF SERVICES, FROM PROTOTYPES TO READY-TO-INSTALL COMPONENTS

With its four foundries and in-house machining facility, the Silbitz Group offers a wide range of services, from prototype production using 3D printing technology and rapid prototyping to our own assembled, coated, and ready-to-install castings. In addition, we are capable of manufacturing castings in the weight range from 10 kilograms up to 120 tons per casting. Furthermore, we specialize in the use of a wide variety of materials, ranging from gray cast iron to ductile iron, cast steel, cast stainless steel, and special materials. We also hold over 30 different welding procedure qualifications to meet any application requirements and customer specifications for castings.



THE BEST IN QUALITY AND DEPENDABILITY

Our employees' wealth of knowledge, our technical know-how, and our state of the art processing technologies ensure that our mass-produced products are high-quality. To maintain quality, we apply SIGMA tools, x-ray systems, and consistently use measurement solutions to ensure continuous quality control.

We follow a systematic process of continuous improvement with the implementation of our quality, environmental and energy policies. Our active corporate policies significantly contribute towards ensuring the future of our locations.



INNOVATIVE AND TECHNOLOGICALLY CHALLENGING SOLUTIONS

The Silbitz Group is one of the most modern and technologically advanced foundries in all of Europe. In addition to our technology centre, we conduct research on the application of new materials, such as solid solution strengthened materials and high temperature resistant steel materials.

Twenty designers and development engineers are kept busy in our technical centre, working on casting layout and design using simulations, in order to render the most complex geometrical shapes. We also redesign welded components as cast components, implementing a design-to-cost approach for cost management purposes.



130 YEARS OF EXPERIENCE

Silbitz Group has been in existence for more than 130 years.

The company was founded in Zeitz Rasberg on 1th November, 1896. Over the years, it has developed into one of Europe's leading foundries.

The emphasis our employees place on quality and their productivity, together with the benefits of each of our locations, are the driving force behind our economic success.

This is why we continue to invest in our locations and our employees, with the goal of continuing to be able to offer our customers high-quality products.

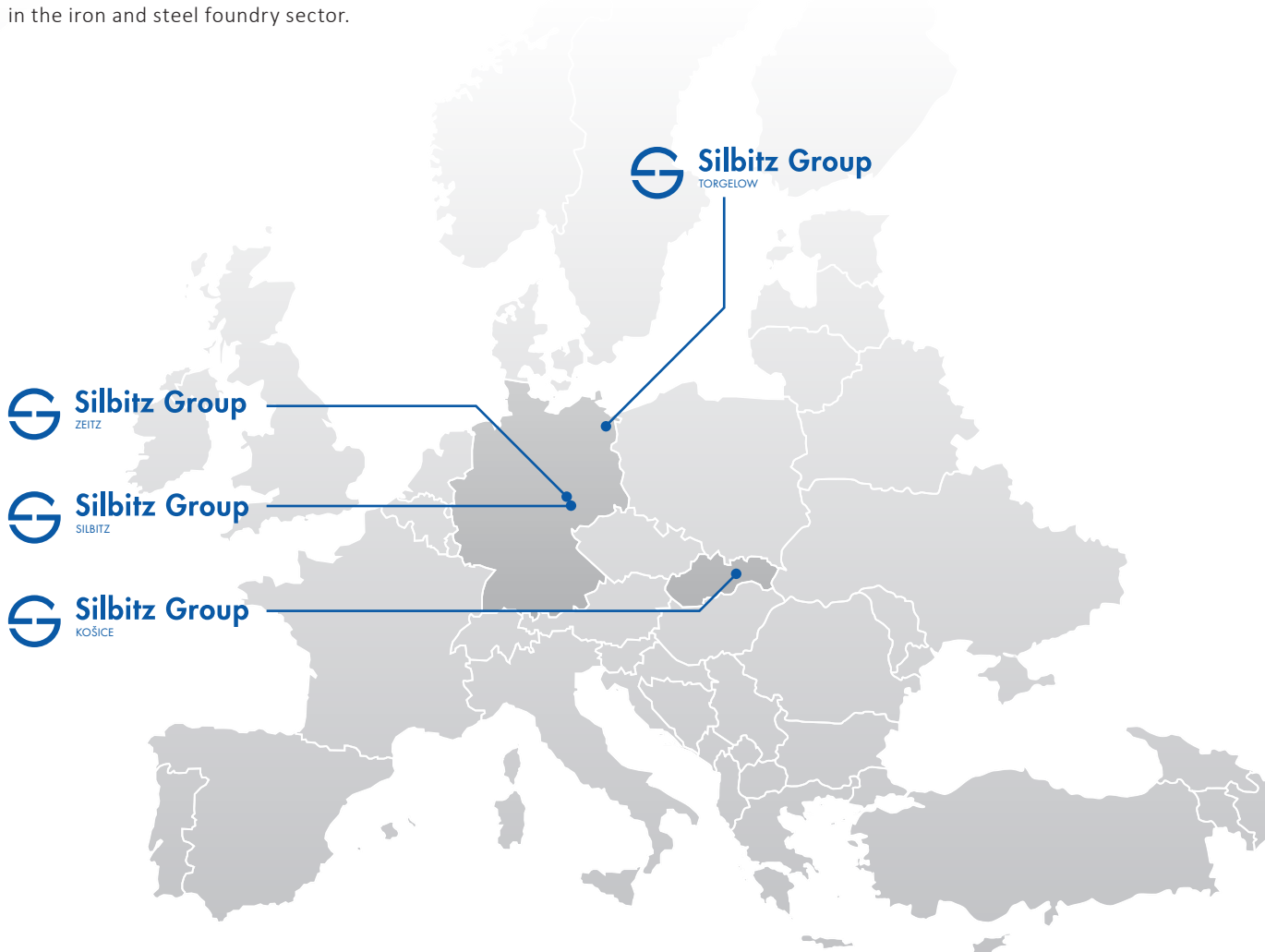




FLEXIBILITY

The following facilities are a part of Silbitz Group: Silbitz Guss GmbH, ZGG – Zeitzer Guss GmbH, EUROCAST Košice, s.r.o., and Silbitz Group Torgelow GmbH. Each of our companies meets the highest standards with respect to development, technology and service. Combined, we are one of Europe's most modern companies in the iron and steel foundry sector.

Many Silbitz Group projects are carried out across all locations. This ensures that our internal network logistics are subject to continuous optimisation processes. This allows us to keep the implementation time, from the design stage, to the finished cast product, as short as possible.



INDUSTRIES



Drive engineering

- Planet spider
- Bearing housing
- Torque support
- Drive covers



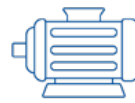
Wind power

- Rotor hubs
- Base frame
- Main shaft
- Main bearing housing



Energy technology

- Guide vane
- Guide blade carrier
- Outer Diffusor
- Inner- & outer housing



Motor engineering

- Piston
- Cylinder cap
- Cylinder housing
- Engine block



Tool technology

- Cutting attachments
- Extrusion punches
- Stamped parts for shaping
- Press blocks



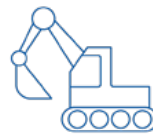
Railway and commercial technology

- Ribbed base plate
- Wheel brake
- Axle bearing housing
- Gear box



Machine tool technology

- Eccentric wheels
- Ball joints
- Machine beds
- Frame



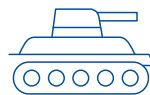
Construction machine technology / mining

- Tumbler
- Carrying axle
- Hubs
- Base plates



Ingot casting / semi-finished products

- Ingot mould
- Yokes
- Ingots
- Raw bars



Defence

- Armored hood
- Axle case
- Test specimens for blasting
- Housing Base / Cover

MATERIALS, FOUNDRY CONFIGURATION

The entire Silbitz Group works in accordance with the latest quality standards, using the following materials:

- Cast iron with flake graphite (EN-GJL)
- Cast iron with nodular graphite (EN-GJS)
- Austempered ductile iron (ADI)
- Cast iron with vermicular graphite (EN-GJV)
- Cast steel – unalloyed and low-alloyed (GS)
- Cast stainless steel (GX)
- Globular grey cast iron with silicon molybdenum (GGG SiMo)
- And the new cast iron with nodular graphite GJS-500-14 & GJS-600-10

Set up of the foundries
(plant and chamber size in mm):

Silbitz

Mechanical hand moulding

2600 x 1400 x 800/800

Hand moulding

4000 x 4000 x 1500/1500

Košice

Moulding facility

1000 x 800 x 300/300

Hand moulding

5000 x 3000 x 1500/1500

Zeitz

Hand moulding

5500 x 5500 x 2500/2500

6600 x 4800 x 3000/3000

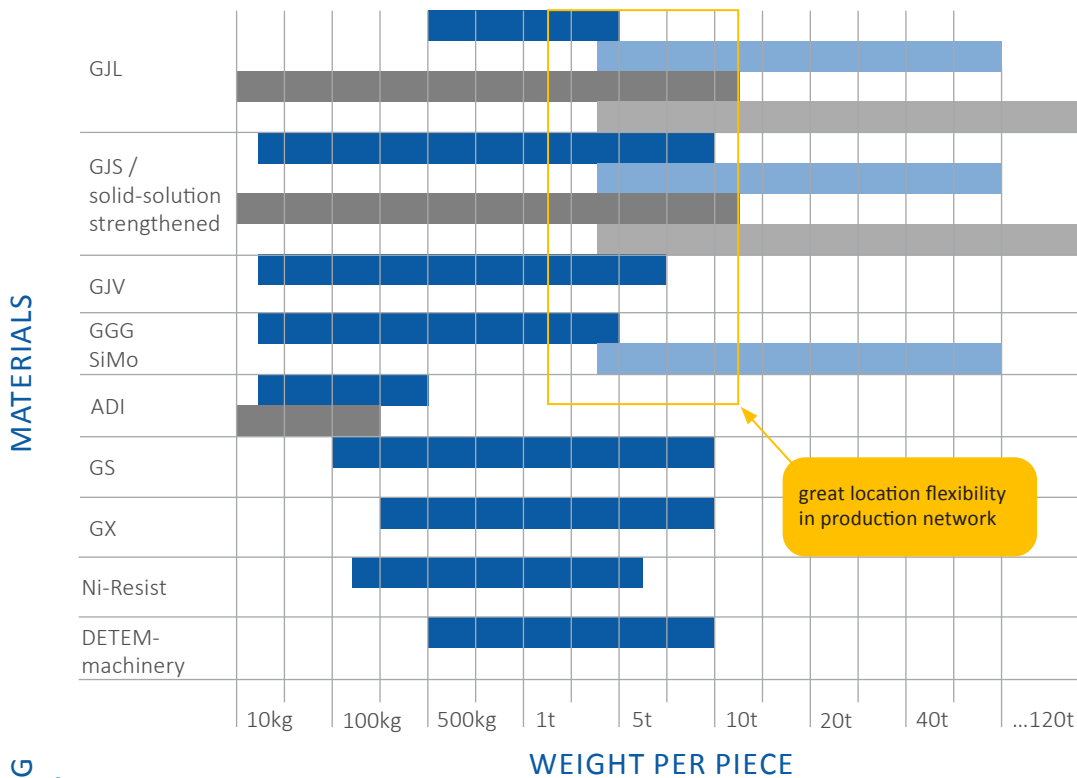
Torgelow

Hand moulding

13200 x 4200 x 3700

7200 x 7200 x 7300

SERVICE STRUCTURE OF THE SILBITZ GROUP



MOULDING PROCESS

Silbitz Guss GmbH

mechanized
manual moulding
manual moulding

ZGG Zeitzer Guss GmbH

manual moulding

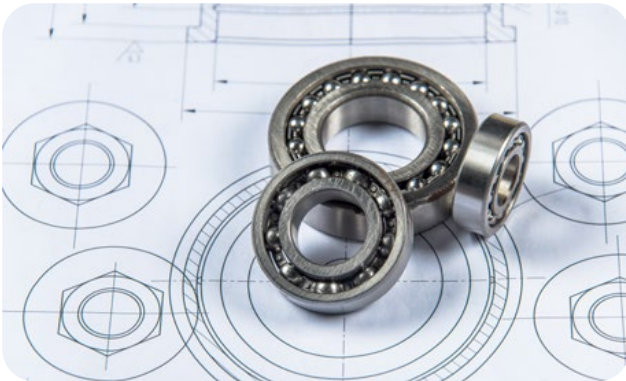
Eurocast Košice s.r.o.

automated moulding plant
manual moulding

Silbitz Group Torgelow GmbH

manual moulding

OVERVIEW OF SERVICES



CAD/DESIGN CONSULTING & SIMULATION



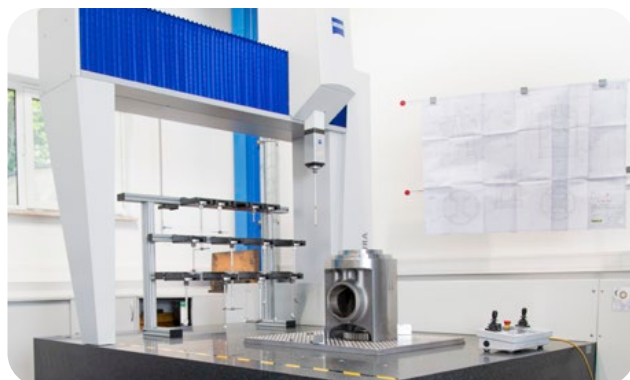
MODEL CONSTRUCTION & CASTING



MECHANICAL MACHINING & ASSEMBLY



QUALITY CONTROL & LOGISTICS





SILBITZ LOCATION

The Silbitz Guss GmbH is a traditional jobbing foundry and offers customers a broad range of services in the fields of iron casting, steel casting and stainless-steel casting. We have our own materials development department and, due to our extensive technological experience, we are able to develop and manufacture highly complex cast parts together with our customers.

Our cutting-edge technology and our high degree of competency in the field of materials development and simulation enable us to provide solutions to customers wishing to replace welded or forged parts. We use our two on-site X-ray laboratories to fully inspect cast components, ensuring that we maintain our high-quality standards.

The Silbitz Guss GmbH is one of the few foundries that has met the welding process inspection criteria to weld SiMo materials.

Weight category

20 kg / piece – 10 t / piece

Capacity

25,000 t / year

Silbitz Guss GmbH
Dr.-Maruschky-Str. 2
07613 Silbitz

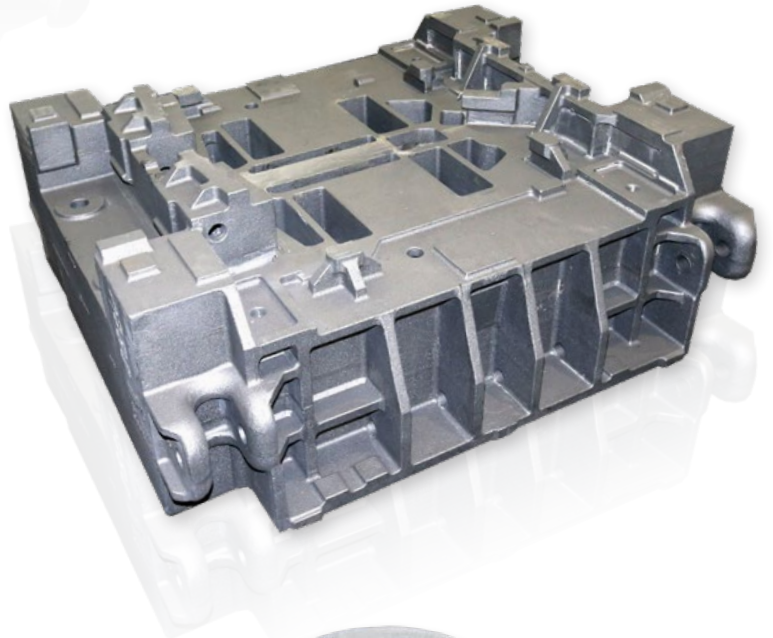
Phone: + 49 36693 80 0
E-Mail: info@silbitz-group.com



WE OFFER ONLY THE HIGHEST QUALITY AND
A BROAD RANGE OF SERVICES.



OUR WIDE RANGE OF OFFERINGS BRINGS
NEW MOMENTUM TO RESEARCH AND INDUSTRY.



ZEITZ LOCATION

The ZGG – Zeitzer Guss GmbH is a newly erected, state of the art jobbing foundry that manufactures one-off and mass-produced components with the possibility of also making larger unit weights.

For large cast parts, we have built up a sophisticated chain of cooperation for final machining and coating. We deliver most of our large cast parts machined and coated and ready for installation, as requested by the customer.

Our extensive range of services and high degree of flexibility enable us to meet our customer's cast product specifications. A key focus of our corporate strategy is the innovative implementation of research and development findings.

Weight category

4 t / piece – 50 t / piece

Capacity

25,000 t / year

Contract annealing

2 t / piece – 45 t / piece

ZGG – Zeitzer Guss GmbH
Naumburger Str. 52
06712 Zeitz

Phone: +49 3441 22871 10
E-Mail: info@silbitz-group.com





KOŠICE LOCATION

The acquisition of EUROCAST Košice, s.r.o. laid the foundations for the Silbitz Group as we know it today, increasing its competitive edge and opening new markets. A broad customer base and sector spectrum, together with two autonomous foundries enables Slovakia's largest foundry to easily meet customer requests. Our Košice location casts the most diverse range of components using a wide range of materials.

Numerous manufacturer-related product qualifications and the Q1 rating from the Deutsche Bahn have allowed us to further expand our range of services in the railway technologies sector. The EUROCAST Košice, s.r.o. foundry manufactures products that meet the most stringent quality requirements; products are tested using a number of techniques, including a 3D measurement and marking machine that evaluates for discolouration, and ultrasound testing using echo impulse to measure wall thickness. Continuously investing in new plant technologies ensures that our technology is always cutting edge and allows us to guarantee that our customers continue to receive only the highest quality.

Weight category

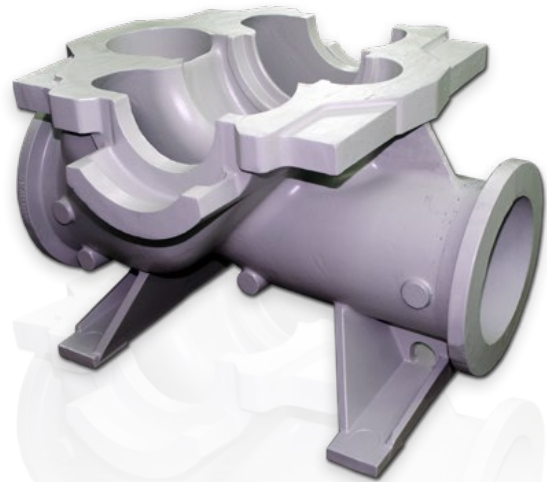
10 kg / piece – 13 t / piece

Capacity

25,000 t / year

EUROCAST Košice, s.r.o
Vstupný areál U. S. Steel
04454 Košice – Šaca
Slovakia

Phone: +421 918 555 700
E-Mail: info@silbitz-group.com



HIGH-GRADE MATERIAL
PROPERTIES PAVE THE WAY
FOR A WIDE RANGE OF
INDUSTRIAL PRODUCTS





TORGELOW LOCATION

The iron foundry in Torgelow has a tradition dating back over 260 years and specializes in large-scale castings for wind turbines. Approximately 90% of its revenue comes from the renewable energy sector. Since its acquisition by the Silbitz Group in 2021, the company has been operating under the name Silbitz Group Torgelow GmbH.

The foundry produces highly complex castings ranging from 10 tons to over 120 tons, primarily for the offshore wind power industry. As one of Europe's largest hand-mould foundries, it specializes in gray and ductile iron and manufactures custom parts. The location in Torgelow, near the port of Ueckermünde, offers strategically important access to the Baltic Sea, which facilitates the transport of increasingly large components.

Renowned companies from Germany and abroad value the quality, precision, and on-time delivery of Torgelow's iron foundry. Silbitz Group Torgelow GmbH is proud to be a preferred supplier and close partner to leading industrial and energy companies worldwide.

Weight category

10 t / piece – 120 t / piece

Capacity

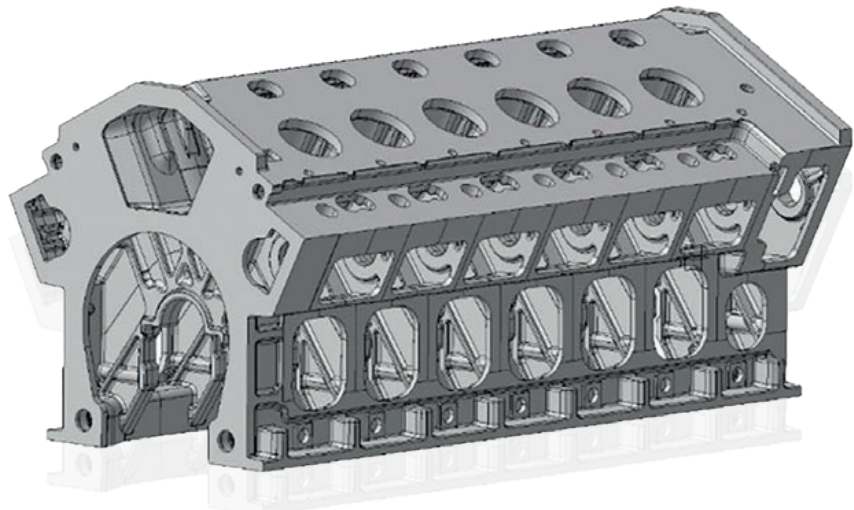
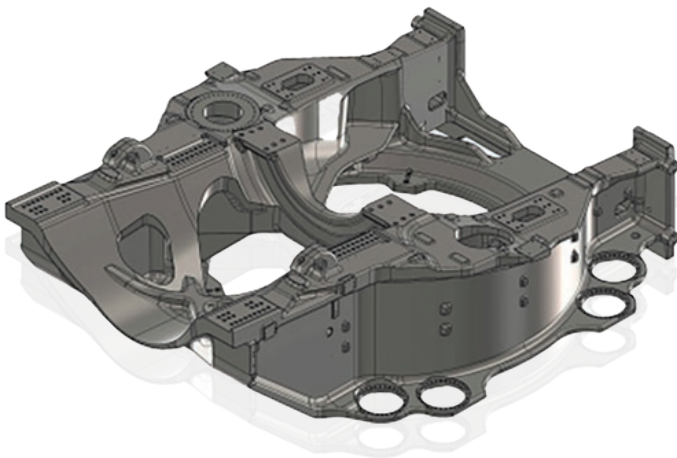
45.000 t / year

Silbitz Group Torgelow GmbH
Borkenstraße 15a
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E-Mail: info@silbitz-group.com



WITH INNOVATION AND PRECISION,
WE ARE SHAPING THE FUTURE

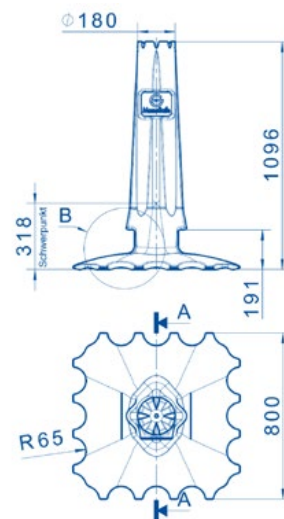




MonoSafe®

*Versatile in use,
powerful in effect!*

- ✓ Certified to ISO 22343-1:2023
- ✓ Manufactured in compliance with ISO 9001, ISO 14001, ISO 50001, and AEO certification and features paint finishes that comply with the German Road Traffic Regulations (StVO).
- ✓ Fully accessible and therefore significantly safer in terms of escape routes and panic situations than existing vehicle barriers



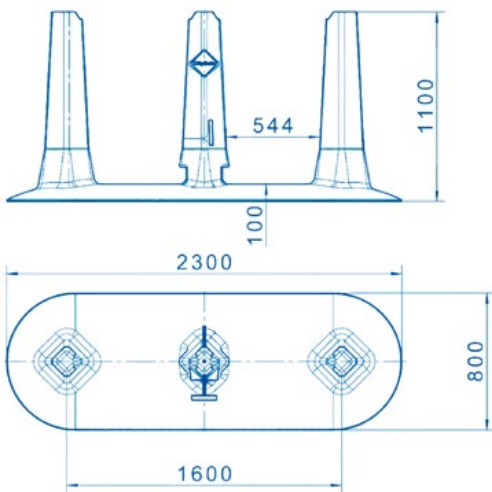
PROTECTS YOUR EVENT.

CitySafe®

*Mobile Security
without Compromise!*



- ✓ Certified to ISO 22343-1:2023, compliant with the German Road Traffic Regulations (StVo)
- ✓ Extremely durable cast iron material
- ✓ Transport via pallet jack/lifting adapter
- ✓ Unobtrusive in urban environments



WITHOUT A DOUBT.

SilbitzSecure®



CERTIFICATES & QUALITY MANAGEMENT

QUALITY and ENVIRONMENTAL PROTECTION are not just words—they are our future.

We view our existing quality, environmental, and energy management system as a leadership responsibility and an obligation for both management and all our employees. Our actions are guided by our commitment to adhering to company policy.

Through our quality, environmental, and energy policies, we pursue a systematic process of continuous improvement. In this way, our proactive corporate policies make a significant contribution to securing the future of our site.

The benchmarks for our quality, environmental, and energy policies are the:



Management Service

DIN EN ISO 50001: 2018 certified

DIN EN ISO 14001: 2015 certified

DIN EN ISO 45001: 2018 certified

DIN EN ISO 9001: 2015 certified



Q 1 Supplier of the Deutsche Bahn AG

Manufacturer-specific product qualification for the manufacture of products for rail vehicles

Manufacturer-specific product qualification for the manufacture of products for track superstructure





YOUR CAREER AT SILBITZ GROUP

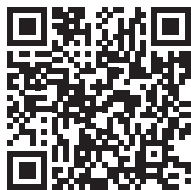
Which career is right for you? Figuring that out isn't always easy. That's why we recommend identifying your interests and skills early on and learning as much as possible about vocational training programs.

From foundry mechanics, materials testers, machining mechanics, metal technology specialists, electronics technicians for industrial engineering, industrial mechanics, production technologists, to machine and plant operators—all doors are open to you here.

Interested in a dual degree program? We have a wide range of options here as well: dual degree in Business Administration / Industry, degree in Foundry Engineering, and degree in Materials Science and Technology.

We offer the perfect start to your professional career with cross-departmental training and our own apprentice workshop.





Silbitz Group GmbH

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www.silbitz-group.com

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We use sustainable materials for our print products.