

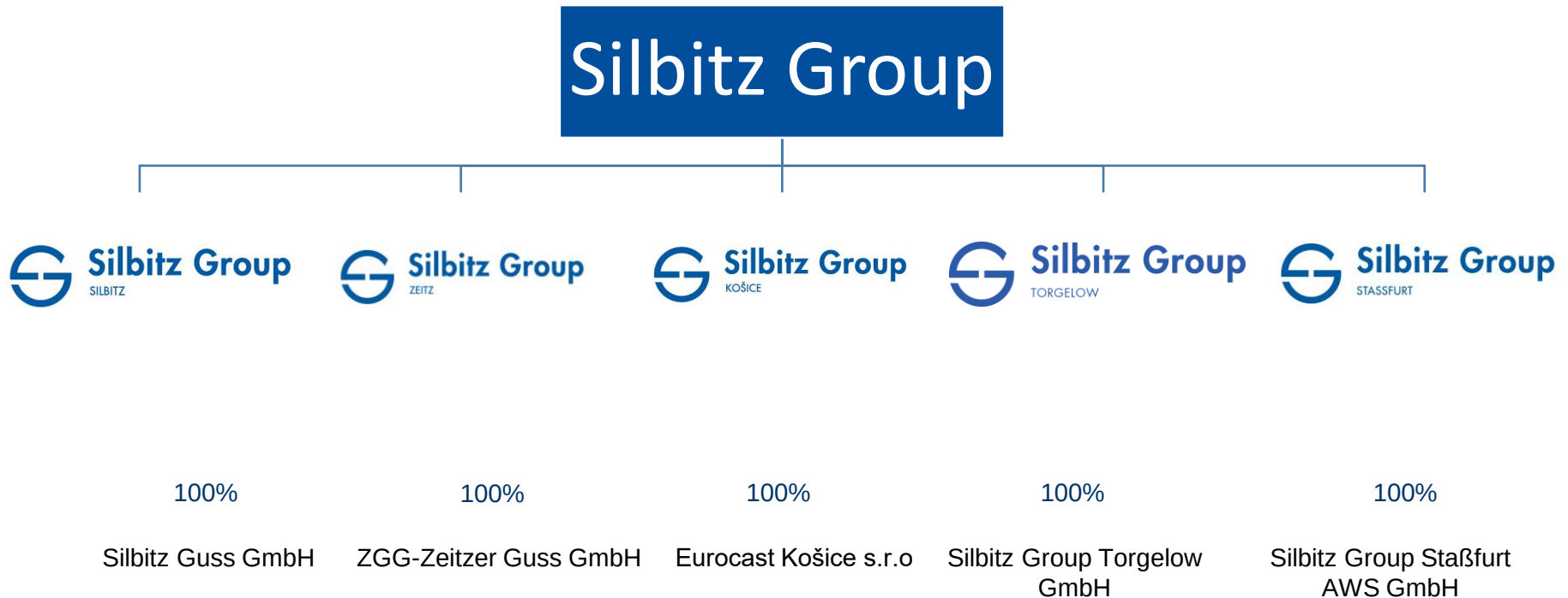
# **Company presentation Silbitz Group 2021**

16.11.2021

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# Corporate Structure



# History

- 
- 1896** Foundation of Rasberg foundry
  - 1938** Foundation of Silbitz foundry
  - 2005** Acquisition of Eurocast Košice foundry
  - 2007** Establishing of ZGG - Zeitzer Guss GmbH
  - 2015** Take-over by DBAG
  - 2016** Formation of Silbitz Group Staßfurt AWS  
(Acquisition of Achslagerwerk Staßfurt)
  - 2021** Formation of Silbitz Group Torgelow GmbH  
(Acquisition of Eisengiesserei Torgelow)
  - 2021** 125th anniversary Silbitz Guss

# Key Figures

## Turnover 2021

approx. EUR +164 M per year

## Employees Apprentices

approx. 1416  
61

## Locations

Germany  
Slovakia

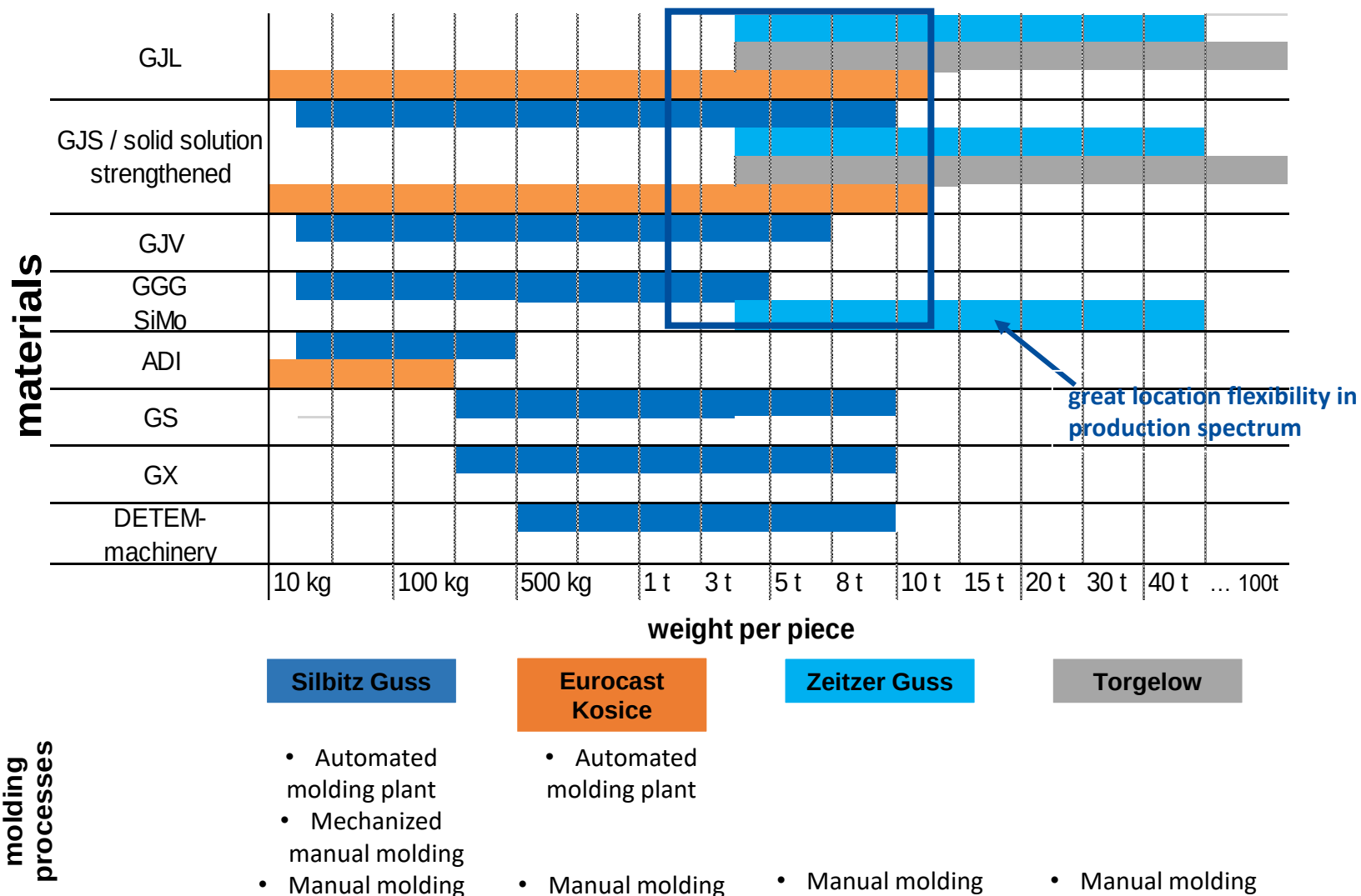
## Capacity total

approx. 120.000 tons per year



# Performance Structure

# Material Overview - castings



## Machining

- for the machining of prismatic parts. the cutting process with certain geometric cutting is available to us:
  - **milling. drilling. deep hole drilling. thread cutting. broaching**
- we can machine different component sizes with our about 30 machining centers
- others are linked to flexible manufacturing systems
- own machining allows short reaction times

## Machining of big parts

- component processing according to customer drawings
  - up to 50 tons in weight
  - turning diameter of 3.70 meters

## Measurement

- a total of four CNC-3D coordinate measuring machines in air-conditioned rooms
  - largest measuring dimension is 3.000 × 5.000 × 2.000 mm

## Surface treatment

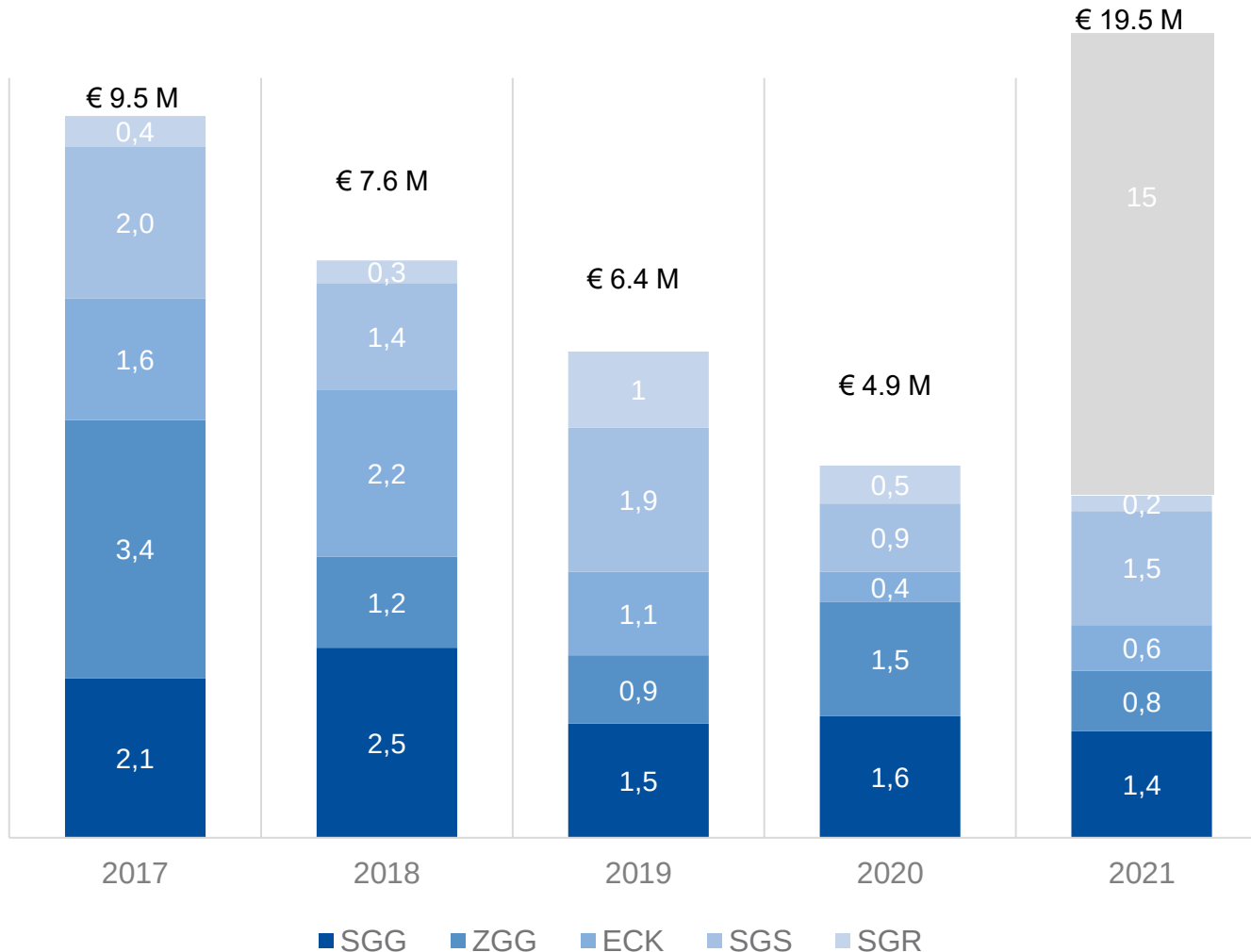
- according to requirement or specification
  - we apply primer and varnish colour to washed. cleaned surfaces
  - based on water or synthetic resin



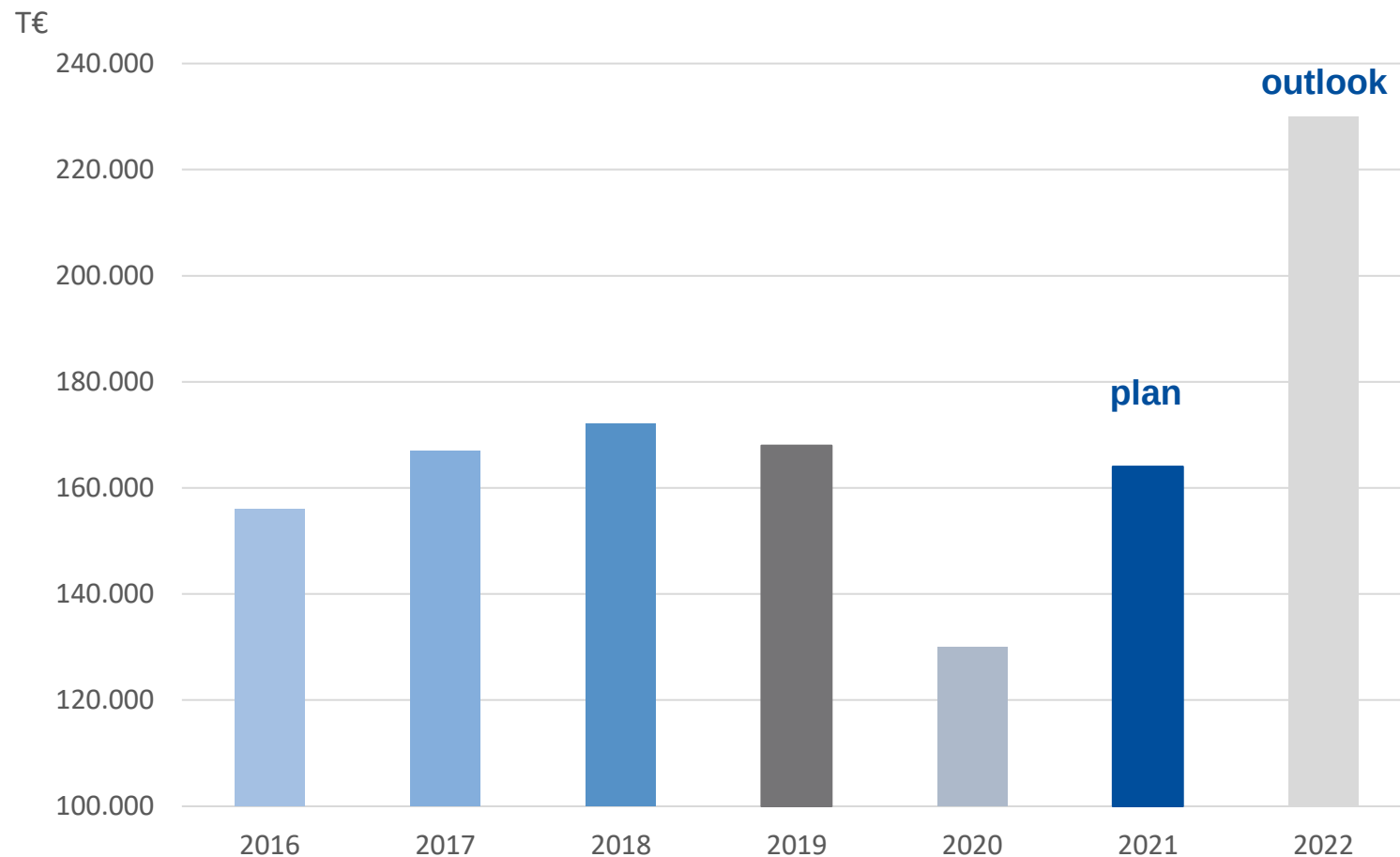
assembled. mounted and fitted with side parts **ready to install products**

- optimized integrated value chain

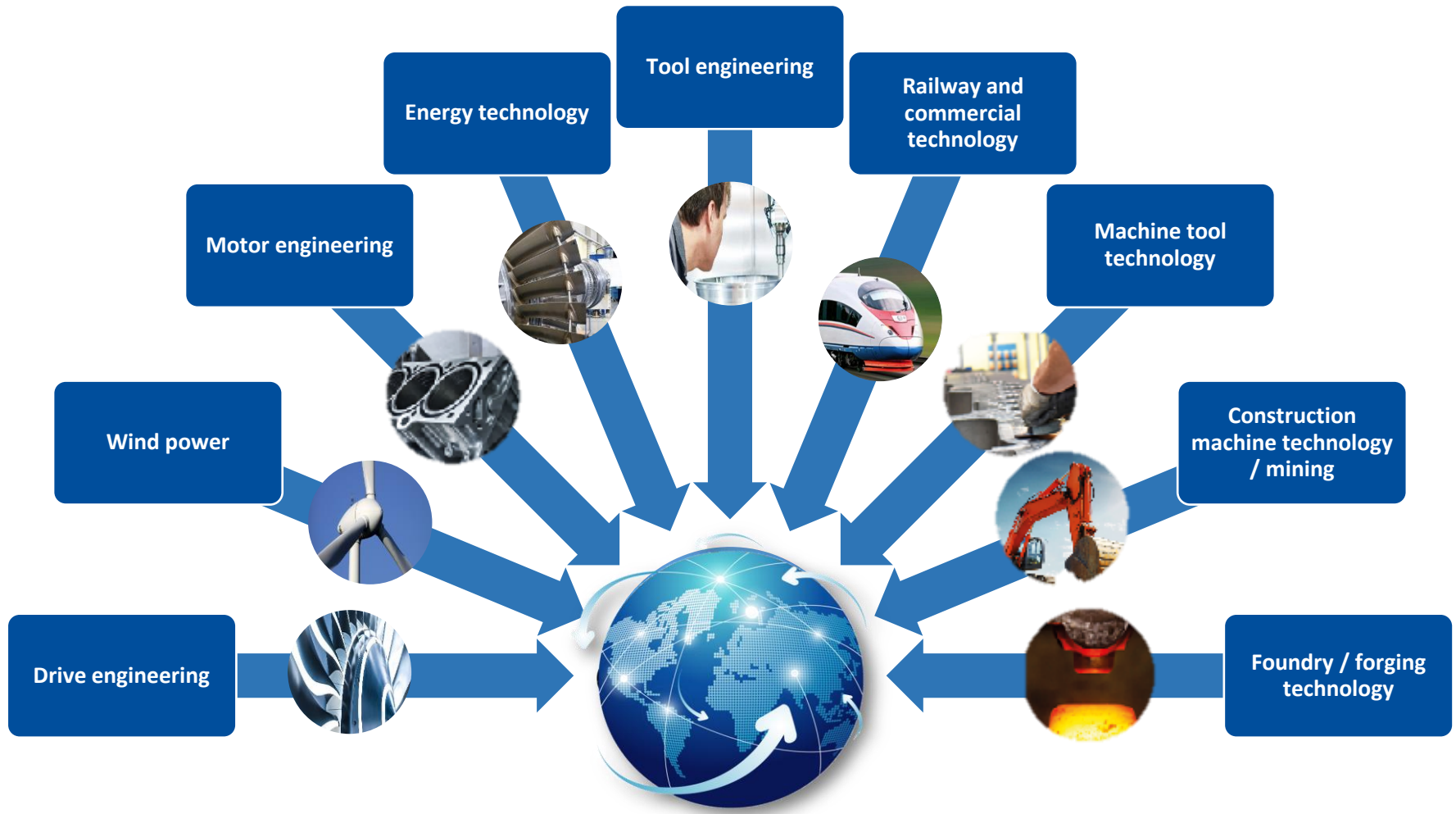
**Average investment of € 6.6 million per year | Total investment of € 33 million over five years.**  
**In addition, an investment of 15 million euros for the acquisition of the Torgelow iron foundry in 2021.**



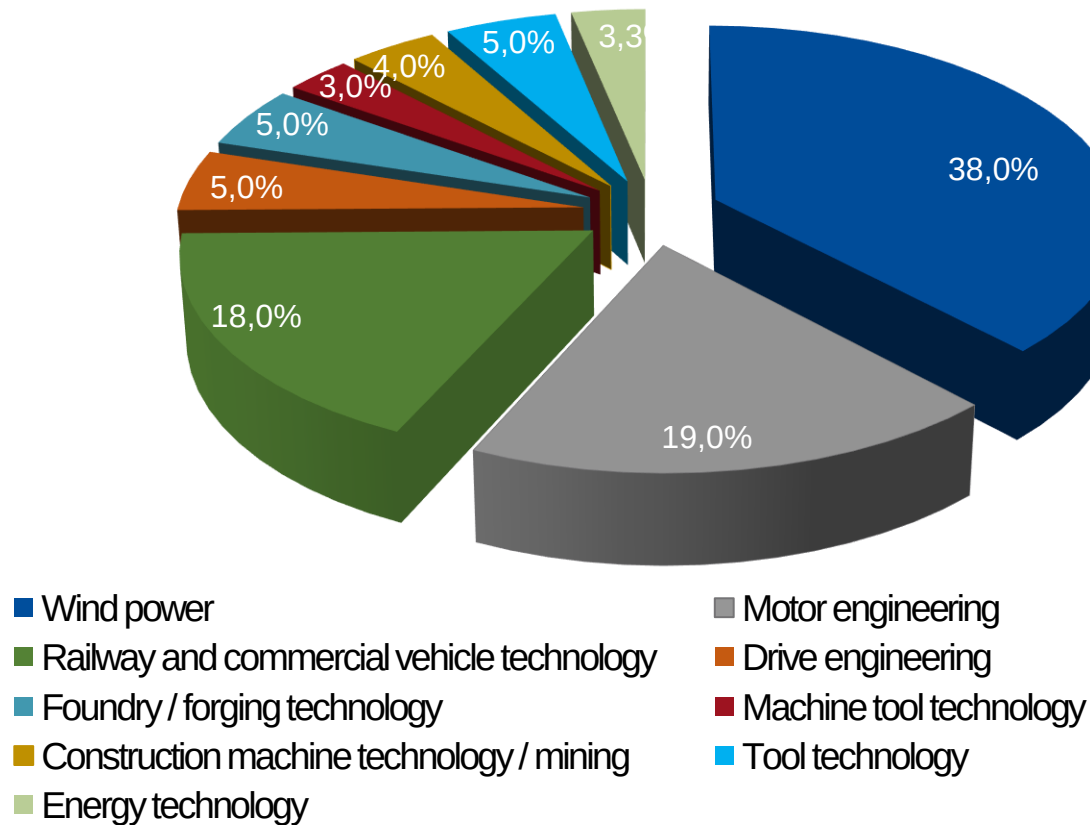
# Consolidated Revenues



# Industries

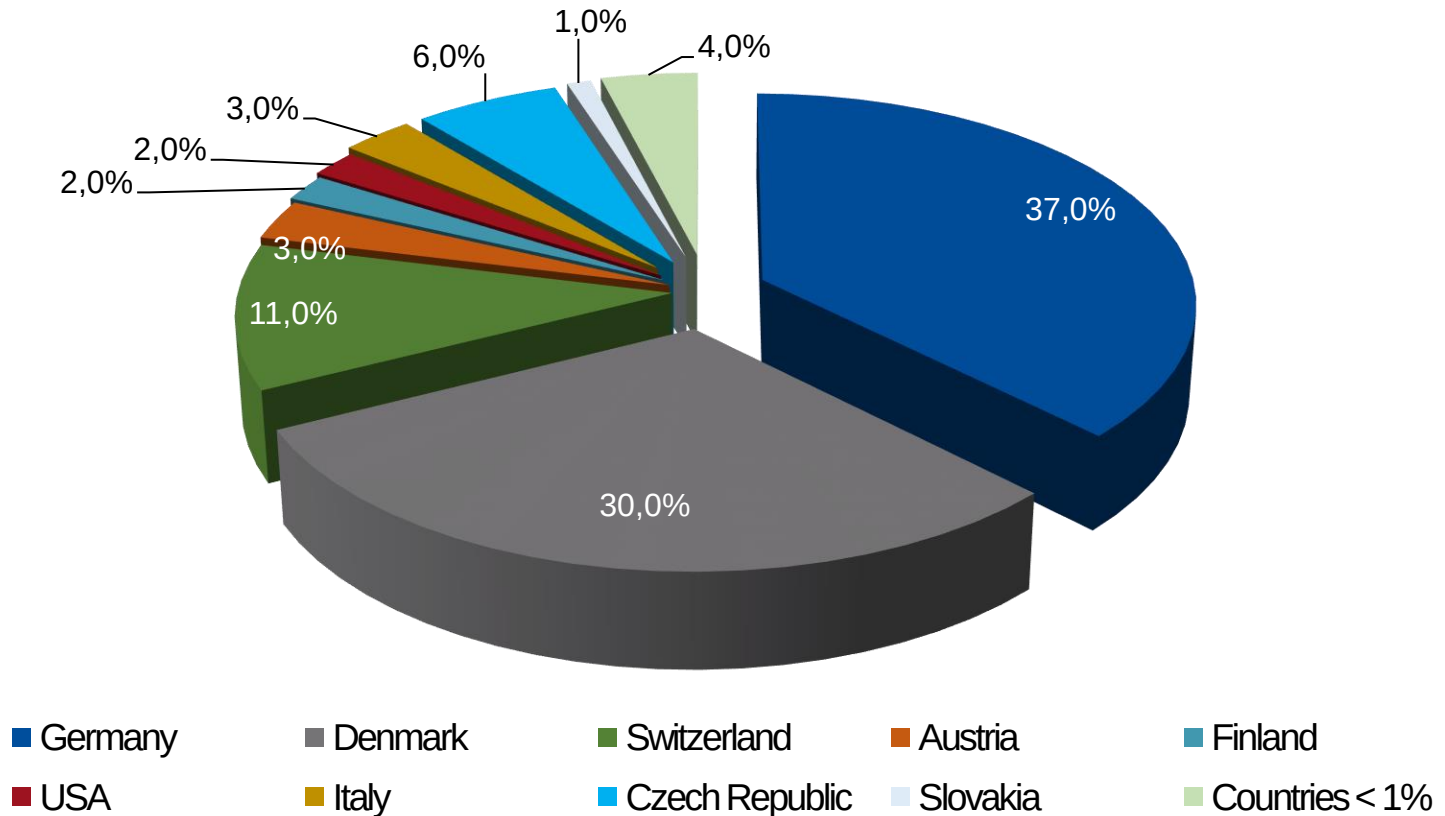


2020 – Σ € 130 M





2020 – Σ € 130 M



Countries < 1 %:

Belgium. Brazil. China. France. Great Britain. Croatia. Netherlands. Mexico. Poland. Russia. Spain. Hungary

# Locations

# Locations and Casting Capacities



## Capacity

|                        |                  |
|------------------------|------------------|
| Silbitz Guss           | 25.000 t         |
| Zeitzer Guss           | 25.000 t         |
| Torgelow               | 45.000 t         |
| <u>Eurocast Košice</u> | <u>25.000 t</u>  |
| <b>Total:</b>          | <b>120.000 t</b> |

**Weight range 20 kg – 11.000 kg per unit**



## Quality castings made of

- nodular cast iron (GJS)
- compacted graphite cast iron (GJV)
- cast steel (GS)
- stainless steel (GX)
- austempered ductile iron (ADI)
- solid solution strength cast iron

**Weight range 4 t – 50 t per unit**



Quality castings made of

- nodular cast iron (GJS)
- cast iron with lamellar graphite (GJL)
- solid solution strength cast iron



## Castings up to 50t



casting

*Main Shaft  
V236*



machining

**Weight range 4 t – 100 t per unit**

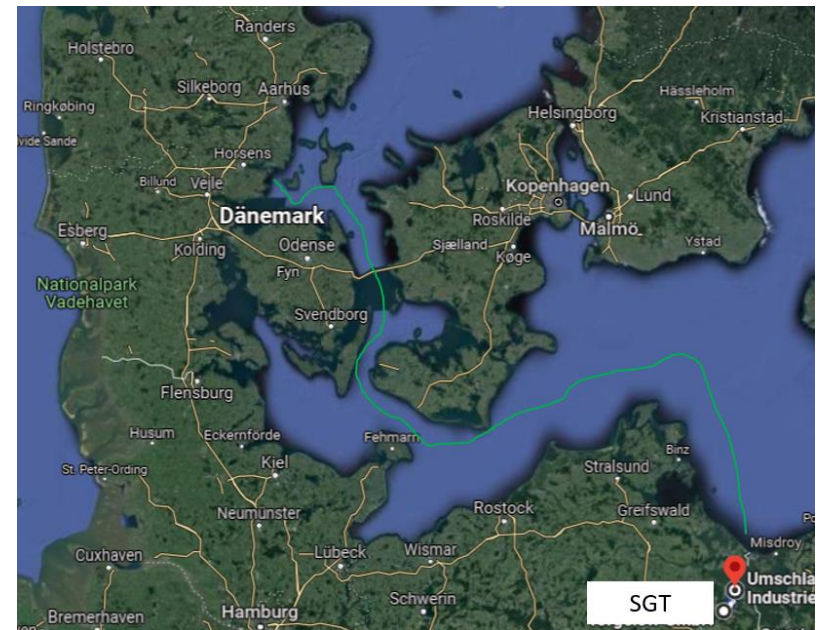
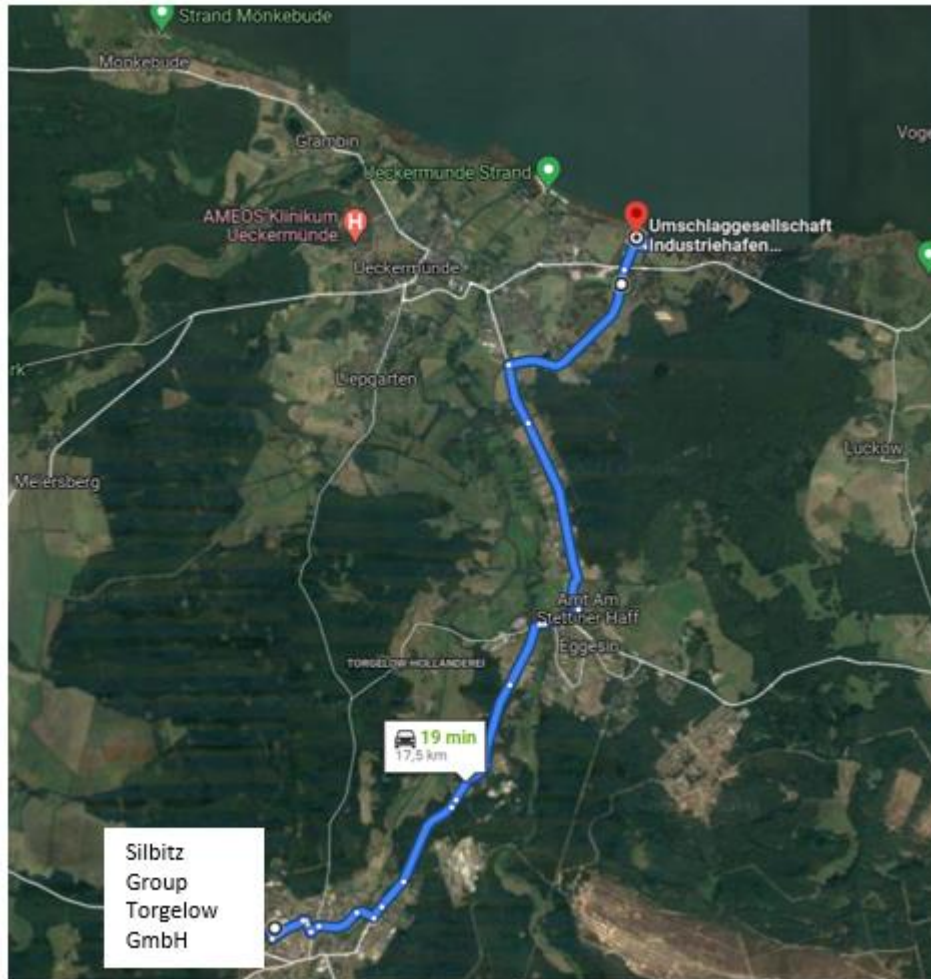


Quality castings made of

- nodular cast iron (GJS)
- cast iron with lamellar graphite (GJL)
- solid solution strength cast iron



## Direct connection to the sea





## Castings up to 100t



**Weight range 10 kg – 13.000 kg per unit**



- nodular cast iron (GJS)
- cast iron with lamellar graphite (GJL)





## Capability machining

- machining
- finishing
- pre-assembly („kit set“)  
mostly for railway solutions

# Mission

## 1. Customer focus

- The key point of our effort is the customer and what additional value we can offer to him
- We aim to establish long-term and sustainable relations

## 2. Continuous improvement will ensure our common future

## 3. Profitability as base for successful long-term growth

## 4. We take our responsibility as a company towards our employees and in the region

**We are your partner for  
demanding casts**

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**From design to the  
completely machined part**

## Offer solutions to make advances to the partner

**CAD /  
Construction**

**Model production**

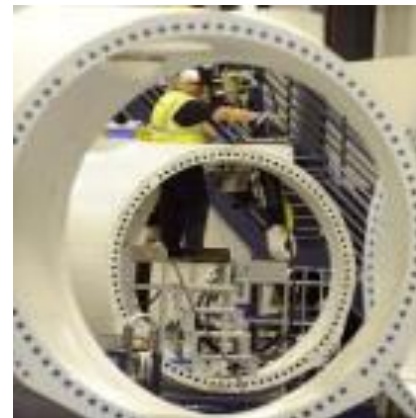
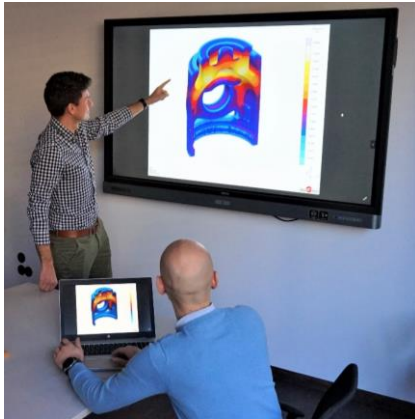
**Casting**

**Machining**

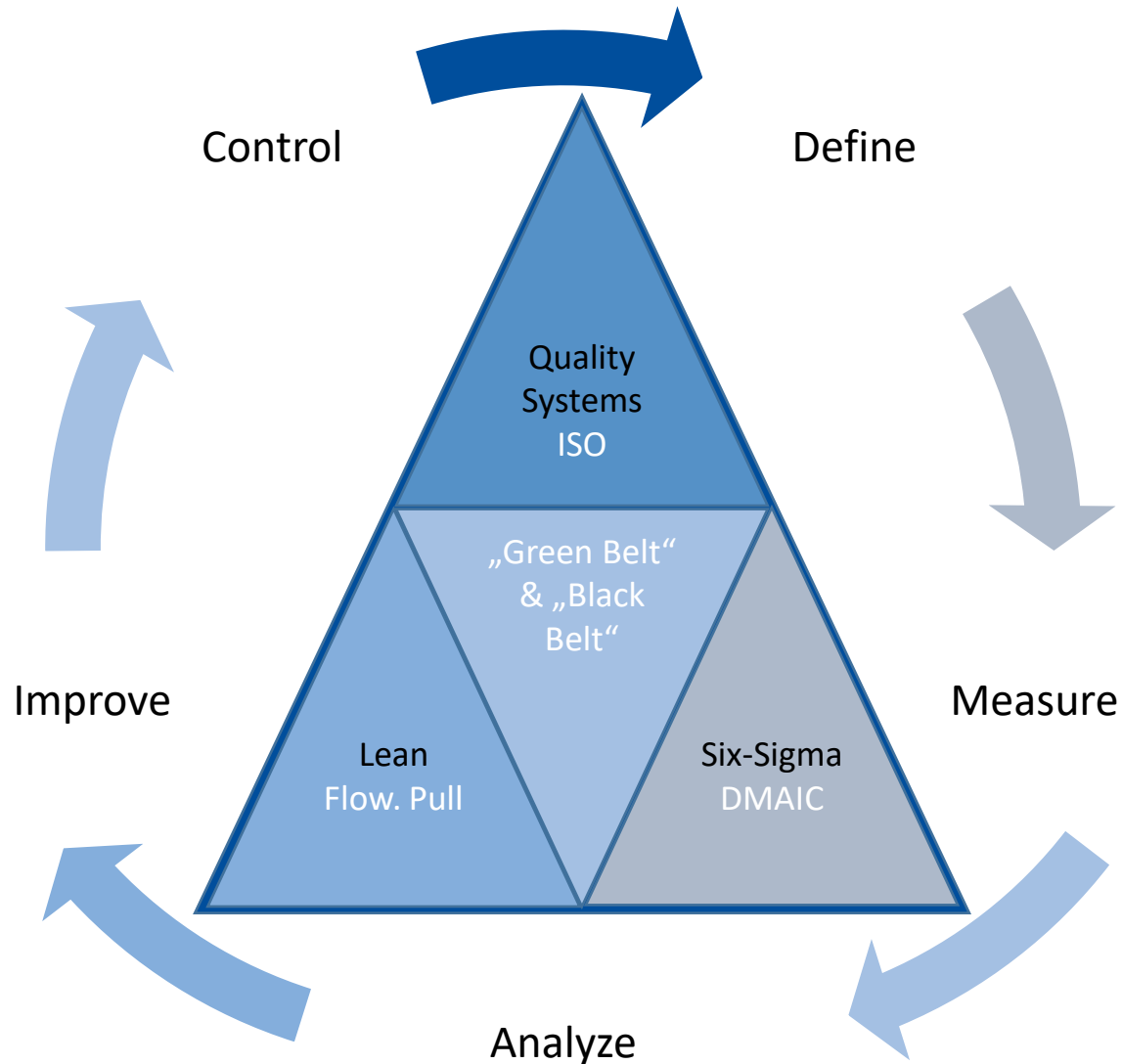
**Coating**

**Assembly**

**Transport**







# Customer References

# Customer References

## Drive engineering



## Wind power



## Motor engineering



## Energy technology



# Customer References

## Tool technology



DAIMLER



PORSCHE



ŠKODA



Gestamp 

SCHULER 

 **SCHWARZ**

## Railway and commercial vehicle technology



**BVV**  
SEIT 1842

**SIEMENS**

**BOMBARDIER**  
the evolution of mobility

**STADLER**  
Cleverer Lösungen auf der Schiene



**SKF**



**vossloh**



**VOITH**



**VTG**



# Customer References

## Construction machine technology / mining



## Machine tool technology



## Foundry / forging technology



# Products





**Planet Carrier**  
G42CrMo4  
2.100 kg



**Flange Planet Carrier**  
EN-GJS-700-2  
20.000 kg –  
36.000 kg



**Housing**  
EN-GJS-400-18-LT  
2.600 kg



**Planet Carrier Hub**  
EN-GJS-700-2  
4.500 kg



**Planet Carrier**  
EN-GJS-700-2  
14.500 kg



**Bearing Housing**  
EN-GJL-250  
1.265 kg



**Housing**  
EN-GJL-250  
En-GJS-400-15  
3.000 kg



**Planet Carrier**  
EN-GJS-700-2  
12.500 kg



**Housing Main Part**  
EN-GJS-400-18-LT  
1.800 kg



**Base Frame Cross**  
EN-GJS-400-18U-LT  
1.800 kg



**Rotor Hub**  
EN-GJS-400-18U-LT  
10.000 – 50.850 kg



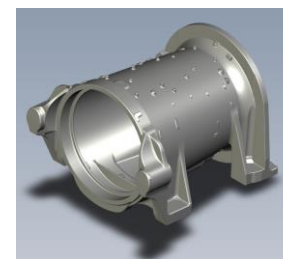
**Main Bearing Housing**  
EN-GJS-400-18U-LT  
2.500 kg



**Bearing housing**  
En-GJS-400-18-LT  
3.990 kg



**Base Frame**  
EN-GJS-400-18U-LT  
12.000 – 83.400 kg



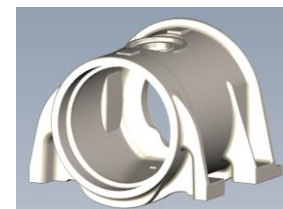
**Main Bearing Housing**  
EN-GJS-500-14  
13.000 kg



**Main Shaft**  
EN-GJS-500-14  
15.000 – 44.000 kg



**Bearing housing**  
EN-GJS-400-18U-LT  
88.500 kg



**Main Bearing Housing**  
EN-GJS-400-18U-LT  
25.000 kg



**Cylinder Cap**  
EN-GJS-600-2  
115 kg



**Engine Block**  
EN-GJS-500-7  
4.600 kg



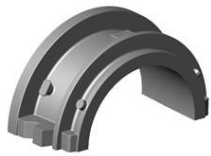
**Engine Block**  
EN-GJS-400-15  
6.000 kg –  
79.100 kg



**Piston**  
EN-GJS-700-2  
15 - 500 kg



**Cylinder Head**  
EN-GJV-450  
99.60 kg



**Guide Blade Carrier**  
EN-GJS-400-15  
5.290 kg



**Guide Blade Carrier**  
EN-GJS-400-18  
10.050 kg



**Housing Cover**  
EN-GJS-400-15  
14.850 kg



**Blade**  
EN-GJS-400-18-LT  
30 kg



**Outer Diffusor**  
EN-GJS-400-15  
1.800 kg



**Housing Base**  
EN-GJS-400-15  
23.000 kg



**Gas Outlet Casing**  
EN-GJS-400-15  
2.475 kg



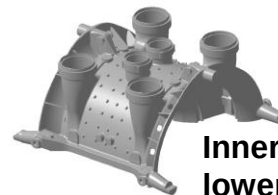
**Guide Vane**  
EN-GJS-400-15  
22 kg



**Bearing Box**  
EN-GJS-400-15U  
5.250 kg



**Inner housing upper part**  
EN-GJS-400-18  
67.450 kg



**Inner housing lower part**  
EN-GJS-400-18  
51.700 kg



## **Slide**

Cast steel /  
Cast iron with nodular  
graphite  
till ca. 10.000 kg



## **Upper**

**Component**  
Cast iron  
till 45.000 kg



**Filler Slide**  
Cast iron with  
nodular graphite  
/ Cast iron  
till approx.  
12.000 kg



## **Slide**

Cast steel /  
Cast iron with nodular  
graphite  
till ca. 10.000 kg



## **Bottom Part**

Cast iron  
till 35.000 kg



## **Cutter Top**

Cast steel /  
Cast iron with nodular  
graphite  
till 10.000 kg



**Wheel**  
ADI (EN-GJS-900-8)  
340 kg



**Steering Gear  
Housing**  
EN-GJS-500-7  
25.5 kg



**Housing**  
EN-GJS-400-18-LT  
80 kg



**Housing Cover/  
Base**  
EN-GJS-500-7  
80 kg / 30 kg



**Housing Base**  
EN-GJS-400-18LT  
26.1 kg



**Wheel  
Brake**  
EN-GJL-200  
62 kg



**Housing**  
EN-GJS-400-18-LT  
80 kg



**Housing**  
EN-GJS-500-7  
112.6 kg



**Ribbed Plate**  
EN-GJS-600-3  
18.80 kg



**Eccentric Wheel**  
GJS and GS  
500 – 11.000 kg



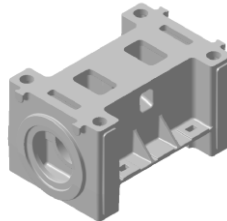
**Machine Base**  
EN-GJS-400-15  
28.300 kg



**Pump Housing**  
EN-GJS-400-15  
2.100 kg



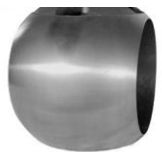
**Hopper Top**  
GX  
2.500 kg



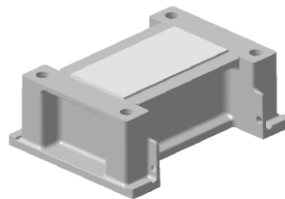
**Headpiece**  
EN-GJS-450-18  
96.000 kg



**Machine Base**  
EN-GJL-250  
6.160 kg



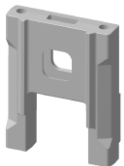
**Shut-off Valve  
Ball**  
GJS and GX  
100 – 2.000 kg



**Table**  
EN-GJS-450-18  
76.430 kg



**Baking Surface**  
EN-GJL-250  
20 kg - 120 kg



**Stand**  
EN-GJS-450-18  
26.560 kg





**Tumbler**  
G18NiMoCr3-6  
390 kg



**Chain Wheel**  
GS-22NiMo 5.6  
150 kg



**Filler Cap**  
EN-GJS-400-15  
63.70 kg



**Hub**  
G22NiMoCr5-6  
3.820 kg



**Carrying Axle**  
G22NiMoCr5-6  
3.290 kg



**End Plate**  
EN-GJS-400-15  
2.170 kg



**Hub**  
GS-24Mn6  
2.680 kg



**Excentric Disc**  
EN-GJS-500-7  
560 kg



**Ingot**  
Cast Steel  
20 – 10.000 kg

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**for example Die**  
EN-GJS-400  
550 kg

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# Certificates

# Certificates and Quality Management

|                                                                                                                                        |                                                                                                                                                                                                 |                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>DIN EN ISO 14001:2015<br/>zertifiziert</p>                                                                                          | <p>DIN EN ISO 50001:2018<br/>zertifiziert</p>                                                                                                                                                   | <p></p>                                                                                                  |
| <p></p>                                               | <p></p>                                                                                                       | <p></p>                                                                                                  |
| <p><br/>Genau. Richtig.<br/>VDA 6.4, Teil 4</p>       | <p><b>Zertifikat</b><br/>Prüfungsnorm ISO 9001:2015</p>                                                                                                                                         | <p></p>                                                                                                  |
| <p></p>                                               | <p></p>                                                                                                       | <p></p>                                                                                                  |
| <p></p>                                               | <p>EUROCAST Košice, s.r.o.<br/>EN ISO 14001:2015 </p>                                                        | <p>EUROCAST Košice, s.r.o.<br/>EN ISO 9001:2015 </p>                                                     |
| <p> <b>Q 1 Lieferant der Deutschen Bahn AG.</b></p> | <p> <b>Herstellerbezogene Produktqualifikation</b><br/>zur Fertigung von Produkten für Schienenfahrzeuge</p> | <p> <b>Herstellerbezogene Produktqualifikation</b><br/>zur Fertigung von Produkten für den Oberbau</p> |
| <p></p>                                             | <p>Zertifizierungsorgan für Produkte<br/>Certification Body of Products<br/><br/>Reg. No. 1415/P-041</p>    |                                                                                                                                                                                             |

# Thank you for your attention!

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