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STEEL CASTINGS

# ONE STEP AHEAD.

[www.voestalpine.com/foundry](http://www.voestalpine.com/foundry)

voestalpine - Division **Steel**



## 1. OUR VISION

**voestalpine FOUNDRY LINZ IS OVERALL SUPPLIER AND MARKET LEADER IN ITS BUSINESS FIELDS**

- Market leadership in the production of cast components
- Overall supplier of ready-for-installation, finish machined cast components in all weight classes and materials, including the possibility of assembling
- Competence centre for the manufacture and development of cast parts for or in collaboration with the customer

## 2. OUR TECHNOLOGY/OUR EQUIPMENT

- CAD (UG II, finite elements stress calculation if required)
- CAE (simulation of solidification, heat treatment, hot tear behaviour, filling the mould, segregation)
- CAM in our own pattern shop (5-axle CNC pattern making machine) and for finish machining

- Liquid steel from LD process and/or secondary metallurgy
- Hand-moulding shop (chromite and/or silica sand with alkyl resin); best possible surface quality due to high level of moulding technology

- Heat treatment equipment for normalizing, quenching and tempering, stress relieving

max. length: approx. 16 m  
max. width: approx. 6 m  
max. height: approx. 5 m

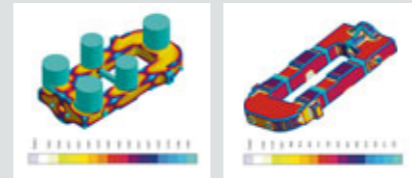
- Equipment for non-destructive testing using state-of-the-art technology and performed by highly trained, specialist staff for MT, UT, PT and RT

- X-ray testing (iridium 192, cobalt 60, linear accelerator)
- Magnetic particle testing (CGM MAGISCOP, Tiede Ferrotest 1000, GWH 3000, GWH 4000, GWH 6000, Deutsch Deutropuls G 3000)
- Ultrasonic testing with normal probes and angle probes (35-70°)
- Liquid penetrant testing

- ISO 9001 & ISO 14001 certified



Heat treatment



CAD, CAE, CAM



5-axle CNC pattern making machine



ISO 9001  
Lloyds Certificate

ISO 14001  
Lloyds Certificate

## 3. WEIGHTS

**voestalpine Foundry Linz:** approx. 10 tons up to actual 140 tons delivery weight

- unalloyed steel: 140 tons\*
- low-alloyed steel: 120 tons\*
- martensitic steel: 60 tons\*
- austenitic steel: 35 tons\*

\* Our intention is to increase weight range furthermore.

## 4. MATERIALS

All steel cast grades according to international standards and/or customer specifications. Material alloy design for special application possible. **voestalpine Foundry Linz** has the widest experience in processing state-of-the-art materials – with casting weights ranging from low to the highest possible – and is actively involved in developing high chrome and new, complex alloys for applications under even more extreme conditions.

## 5. PRODUCTS

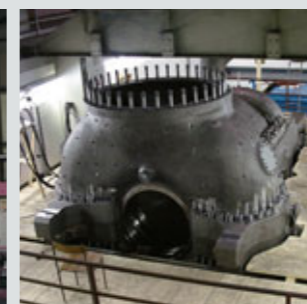
**voestalpine Foundry** produces steel castings for the applications listed below in cast, rough or finish machined condition and provides hardfacing, hydrostatic pressure testing and proof assembly if required.

- Steam turbines
- Gas turbines
- Machinery construction industry
- Offshore industry
- Hydro turbines

Production: approx. 5,000 tons/year  
Employees: approx. 200



Gas turbine casing  
final machined  
47 tons



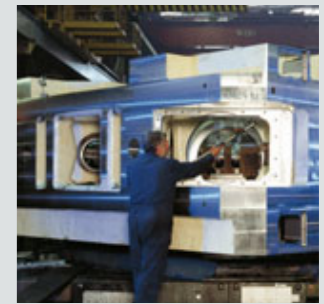
Hydrostatic pressure test  
HP outer casing  
70 tons



Industrial steam turbine  
90 tons



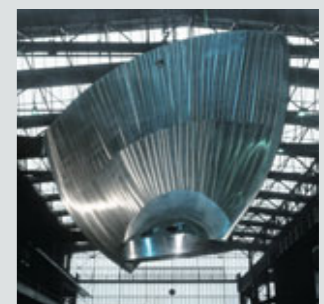
Gas turbine casing



Forging machine frame  
96 tons



Bearing ring for FPSO  
44 tons



Kaplan blade  
5 tons