



# Castings for Energy Generation

Your partner of international  
expertise

Mario Völker, Sales Manager

voestalpine Giesserei Traisen GmbH  
[www.voestalpine.com/giesserei-traisen](http://www.voestalpine.com/giesserei-traisen)

**voestalpine**

ONE STEP AHEAD.







## Experience. Expertise. Worldwide.

In a good partnership, it is important to know what the other wants and to find solutions that meet these demands. That is why voestalpine foundry Traisen offers innovative and total solutions that go far beyond just the supply of castings. What helps us to be a reliable and flexible partner? More than 175 years of experience in the production of steel castings utilizing environmental friendly methods, and especially the know-how of our highly trained and skilled employees.



### Business Figures

- Employees: app. 400
- Production: app. 12,000 tons/year
  - Steel: app. 8,000 tons/year
  - Nodular Iron: app. 4,000 tons/year
- Shipping weight: 50 kg - 12 tons

### Industries Served

- Machine Building (Mining & Earth Moving ...)
- Energy (Steam, Gas & Hydro Turbines)
- Oil & Gas
- Chemical
- Valve & Compressor
- Food
- Transportation
- Cement
- Special Applications

### Materials

- Carbon Steel
- Quenched & Tempered Steel
- Manganese Steel
- Martensitic Steel
- Stainless Steel
- Heat Resistant Steel
- Duplex Steel
- High Temperature Service Steel
- Low Temperature Service Steel
- Nickel Alloys
- Special Alloys
- Nodular Iron

# voestalpine Giesserei Traisen – a reliable Partner for Castings

## Advice

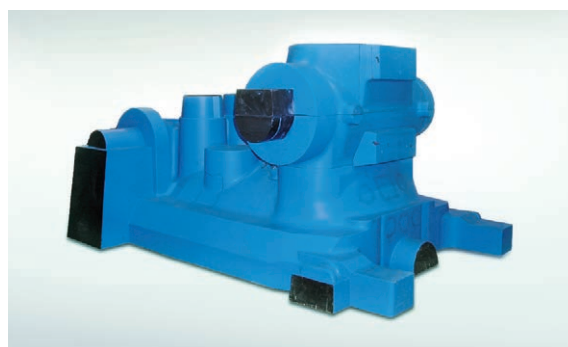
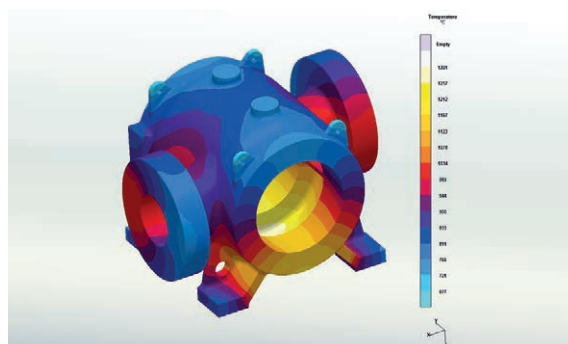
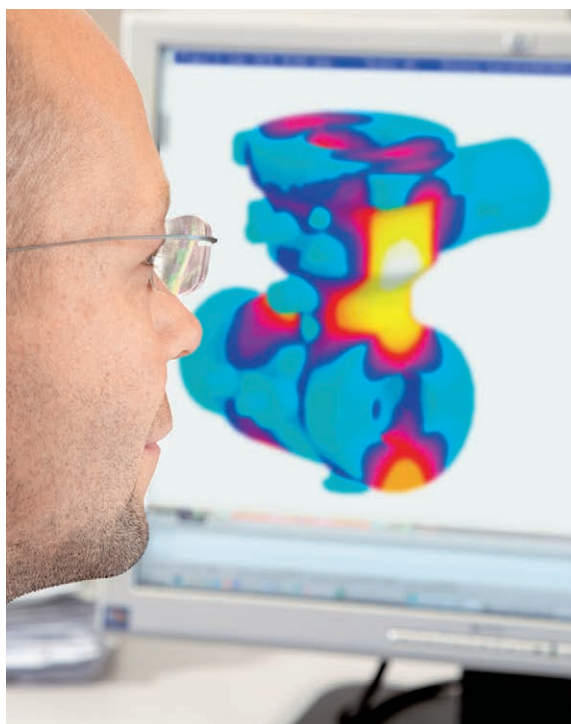
Attention to detail for best results

We believe, in order to meet the quality expectations and needs of our customers, we must utilize cuttingedge technology to find the best and optimal solutions. Our research and development department, with the latest computer programs, can offer assistance to our customers on the appropriate material selection and casting design.

## Pattern Building

An idea takes shape

Our internal pattern department produces new or adapt existing patterns quickly with maximum flexibility. Our internal casting engineers use MAGMASOFT® computer simulations to validate their casting technology designs.



Steam Turbine Valve Body



Pelton Runners



Valve Body



Valve Body Upper Head

# and Final Machining

## Melting Shop

Quality solutions in steel

Our melting department consists of Electric Arc Furnaces, Induction Furnaces and a 12 Ton AOD Converter for high alloy steel grades.

- 2 Electric Arc Furnaces
- 2 Induction Furnaces
- 1 AOD Converter



## Molding Shop

Precise implementation

Our hand and flaskless molding uses a sand system that enables us to be environmentally friendly.

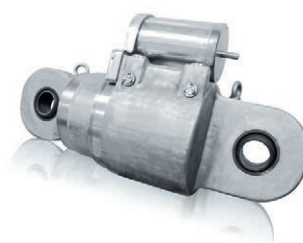
- Recyclable Sand System: Furan binder
- Hand Molding: 2/3 of production with a maximum molding frame size of 5,000 x 5,000 x 3,000 mm
- Semi-automatic flaskless molding: 1/3 of production with a maximum frame size of 1,750 x 1,250 x 1,200 mm and a maximum part weight of 400 kg



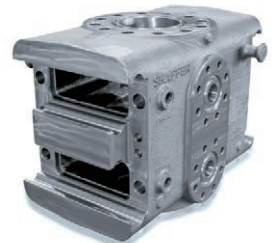
Valve Body for offshore Application



Expander-Casing



Energy Absorber



Blowout Preventer Body



## Heat Treatment

Know-how for best results

11 fully automatic gas fired furnaces with water, polymeric solution or air quenching are utilized to achieve the required mechanical properties for each of our produced material grades.



## Finish Machining

Cutting-edge Technology for highest quality

Our internal finish machining department with CNC milling and turning machines provides precision machining for optimal results. Additionally for rough machining we have available several manual controlled milling and turning machines.

### CNC Milling and Drilling Centers

- Machines with Tooling Changers

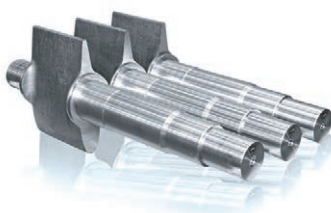
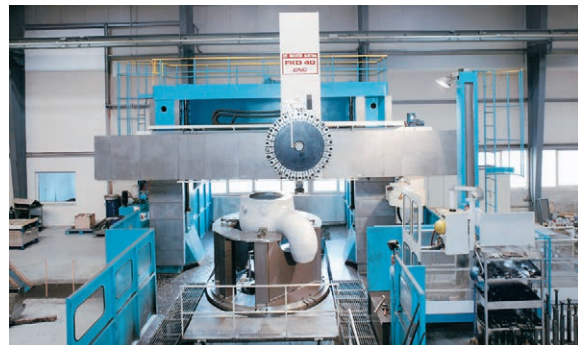
X up to 6,000 mm

Y up to 2,500 mm

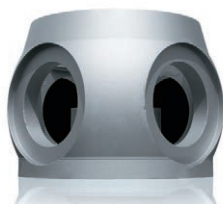
Z up to 2,500 mm

### CNC Turning Machines

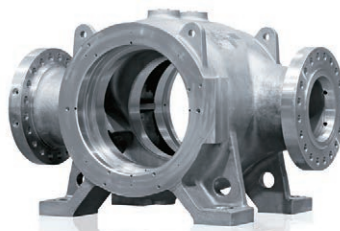
- Maximum turning table diameter up to 3,200 mm
- Maximum working diameter up to 4,400 mm
- Maximum working height up to 3,000 mm



Guide Vanes



Kaplan Hub



Compressor Body



Spiral Compressor Housing

## Finished Products

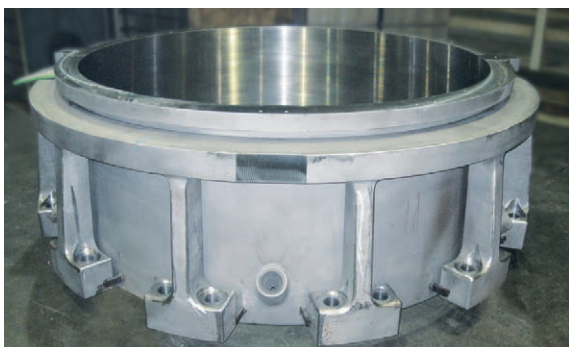
Service for all requirements

### Fabrication Welding

We offer fabrication welding for the purpose of assembling a single piece item when a casting would be too complex to be cast as a single piece. We also utilize weld fabrication to assemble individual parts including forgings, plates, piping and control equipment welded onto the casting.

### Assembly

Our product assembly services are offered in areas where we can utilize our experience and technology to supply a finished component.



## Quality System / Quality Control

One step ahead

With a well established and certified system we can guarantee the highest quality products. Our on-site capabilities include:

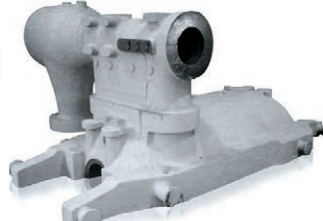
- Chemical and mechanical testing labs
- Metallographic and sand labs
- Non-Destructive Testing:
  - Ultrasonic
  - Magnetic Particle
  - Radiographic
  - Liquid penetrant
  - Dimensional Control
- ISO 9001/ISO 14001 certified



A625 Nozzle Box



A625 Valve Body



Turbine Outer Casing



Compressor Housing LH

## The Partner for all your Casting Needs

We are located on B-20 between Sankt Pölten and Mariazell,  
20 km south of A1



### voestalpine Giesserei Traisen GmbH

Mariazeller Straße 75  
3160 Traisen, Austria  
T. +43/50304 13-0  
F. +43/50304 53-253  
office.traisen@voestalpine.com  
www.voestalpine.com/giesserei-traisen

**voestalpine**

ONE STEP AHEAD.