

OIL & GAS

Steel Castings That Unleash Energy

Reliability under extreme conditions – cast to perfection.

Oil & Gas factsheet EN | 07/2025

CASTING SOLUTIONS FOR OIL, GAS AND OFFSHORE

Decades of experience, innovative materials, and the highest quality standards make us a reliable partner in the oil, gas, and offshore wind industries.

Whether at sea or in deep boreholes – our cast components meet the highest requirements. Our cryogenic materials withstand extreme loads – even under the harshest conditions. From development to delivery, we support projects with ready-to-install components. Corrosion-resistant, durable, and customized – for maximum efficiency and quality.

Typical areas of application:

- » Compressor housings
- » Expander and compressor casings
- » Blowout preventers
- » Valves
- » Heavy-duty crane hooks, anchors, and other components for the offshore sector

ADVANTAGES



Increased efficiency

- » High dimensional accuracy and reproducibility
- » In-house expertise from pattern making to final inspection
- » Project support tailored to customer needs



Quality

- » Customized development and consulting
- » Castings with high strength under extreme conditions
- » Decades of expertise in material science



Sustainability

- » Resource-efficient production through optimized casting processes
- » Contribution to CO2 reduction via durable, low-maintenance components

fastlane®

By using the latest technologies and prioritizing production scheduling, we guarantee up to 60 % faster and reliable delivery times.

Our fastlane®-Service represents a significant advancement in casting production by increasing efficiency, improving quality, and simultaneously promoting sustainable practices.



TECHNOLOGY

» 3D Sand Printing (3DSP)

Our innovative 3D printing process enables the production of highly complex castings without the need for traditional patterns. This precise and efficient method for manufacturing custom sand molds is ideal for intricate and specialized cast components.

» Robot Welding

With our certified, fully automated MAG welding process, we set new standards in manufacturing. Advanced techniques like laser cladding, integrated into state-of-the-art robotic systems, are propelling production technology into a new era.

» Digital Foundry

Through our ongoing "Digital Foundry" program, we continuously enhance our processes - driving efficiency, precision, and innovation in casting production.



voestalpine Foundry Group

As an international player in the foundry industry, voestalpine Foundry Group, with its sites in Linz (AUT), Traisen (AUT) and the joint venture in China, has made a name for itself worldwide.

With a broad portfolio of steel castings, including nickel-based alloys, it offers customized solutions in areas ranging from energy production, such as hydro, offshore/wind or oil & gas, to machinery and railroad systems. By using state-of-the-art technologies and increasingly focusing on climate-friendly production processes, voestalpine Foundry Group is the first choice for cast products of the highest quality, in a weight range from a few kilograms to 200 tons.

voestalpine Foundry Group

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ONE STEP AHEAD.