

**OVAKO**

**FORGING THE  
FUTURE TOGETHER**



## INVEST IN THE FUTURE OF FORGING

For many forging shops, today's market pressures are relentless. As a leading producer of high-performance engineering steel with a deep history of supporting the forging industry, Ovako has the products, capabilities and services to help you meet tomorrow's demands.

### We know steel. You know forging. Together we can deliver superior solutions.

Based on more than 300 years of experience in the steel industry, Ovako is constantly finding new ways to make high-value end products more profitable together with forgers like you. Whether your requirements relate to performance, weight, environmental or processing properties, we can open up a range of new opportunities including:

- A wide range of steel grades following customer specifications
- Ingot- or continuous-cast routes for competitive pricing at any performance level
- Heat treatments for a multitude of microstructures
- Surface finishing from precision-rolled to machined
- State-of-the-art non-destructive testing
- Tailored logistics concepts and more

### Add more value with high-performance Ovako steel

Ovako's flexible tailored solutions are based on an extensive range of steel grades and product shapes. This means we can supply you with the right steel grade for nearly any OEM material specification, together with the right shape and treatment for any processing route. Thanks to a closely controlled production chain from initial melt to final delivery, our products are known for their highly stable material quality with narrow process parameters. As a result, our solutions can help strengthen your operations by offering:

- Close tolerances
- Highly stable forming processes
- Repeatable hardenability
- Improved machinability
- Longer life performance
- 80% lower CO<sub>2</sub> footprint vs average

## COMPREHENSIVE SERVICES AND COMPLEMENTING METALLURGIES

As a leading engineering steel producer, we know that precise and consistent raw material properties are critical to meeting both your customer's requirements and your own profitability targets.

**Make use of our tailored solutions** ranging from heat and surface treatments to joint product and steel grade development.

**Explore our easy-to-use online tools** including Ovatrack for order tracking, certificates and reorders, as well as Steel Navigator with material data sheets, machining calculator and heat treatment guide.

**Choose from an extensive list of certifications**, quality approvals for a wide range of industries and testing capabilities allowing you to set specific demands on steel quality.

**Leverage our deep experience** in industry-leading engineering steels, extensive knowledge of customer applications and well-trained local sales and service staff backed by a global R&D network.



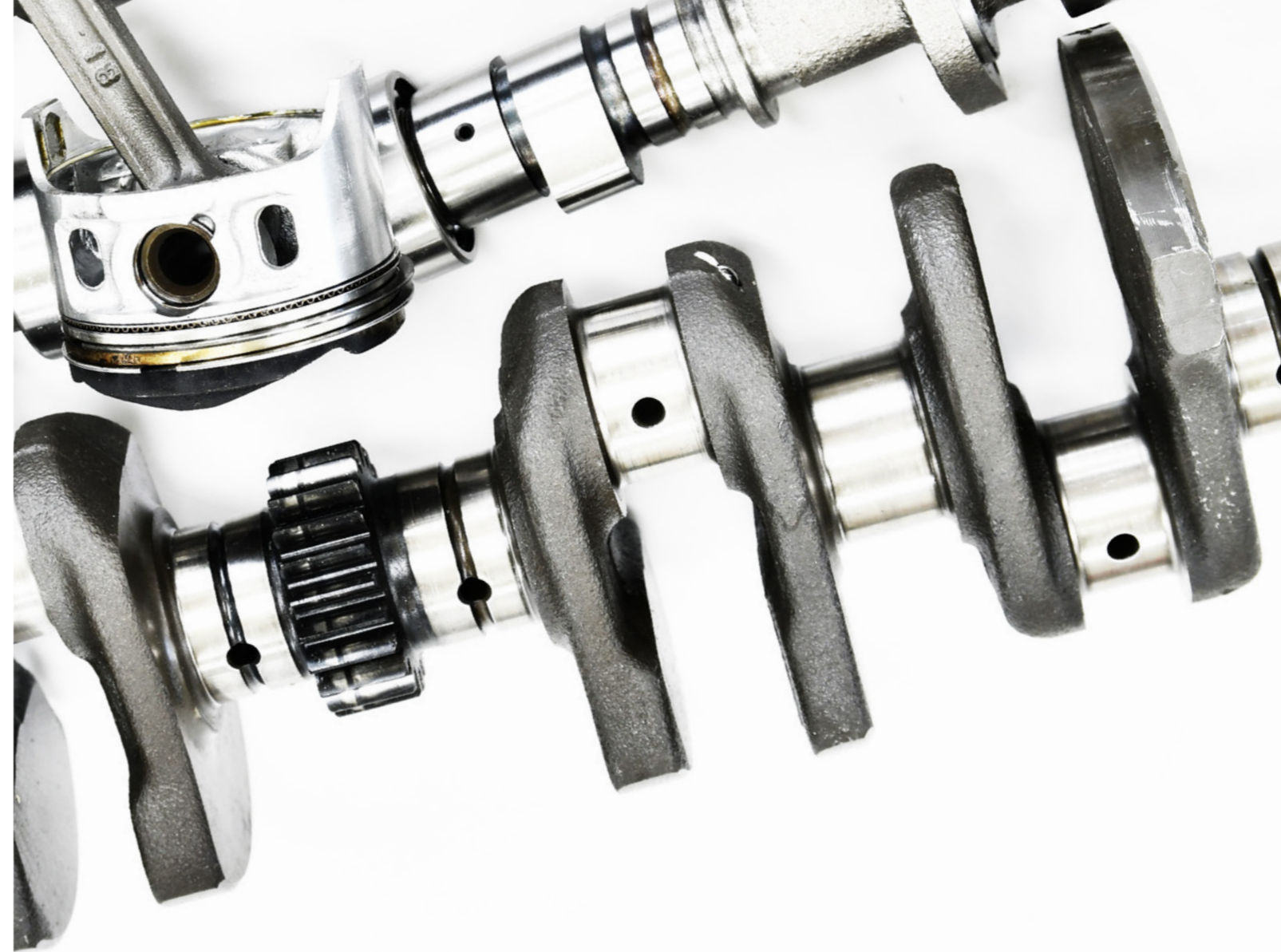
**Hofors & Hällefors**  
Ingot based casting of highest quality clean steel



**Imatra**  
Heavy bloom casting with focus on machinability



**Smedjebacken & Boxholm**  
Efficient billet casting process with different rolling mills able to customize steel products



## FOUR WAYS TO FORGE AHEAD OF THE COMPETITION

### Experience the strength of the world's largest engineering steel group

Starting in June 2018, Ovako is now part of the Japanese steel corporation Nippon Steel & Sumitomo Metal Corporation, which operates 12 steelworks in Japan, employs close to 100,000 globally and is the world's third-largest steel producer. This new industrial ownership further strengthens our global offering, providing an opportunity for Ovako to invest in long-term partnerships with customers like you.

### Cleaner, stronger steel with new vacuum degassing facility

Following previous processing investments in bar peeling and heat treatment, Ovako is pleased to announce an additional investment in a new vacuum degassing facility for our Smedjebacken plant. Besides reducing our carbon footprint and energy consumption, the new facility will allow Ovako to improve steel properties to create new business opportunities for forgers in advanced sectors such as the automotive industry.

### Cut CO<sub>2</sub> footprint by up to 80%

At Ovako, all of our products are manufactured with recycled steel and a Nordic energy mix with an extremely low CO<sub>2</sub> footprint. This means our products are world-leading in their low cradle-to-gate carbon footprint – a difference as 80% versus global average for hot-rolled steel products. This is a benefit you pass on directly to all of your customers every time you use Ovako steel. Let's build a better steel cycle together.

### Steel Navigator Your shortcut to the optimal steel

With Ovako's Steel Navigator, finding the right steel has never been easier. Search by material properties, applications or end products. Compare with standard steels. And calculate machine settings to save time and increase tool life. Our digital Heat Treatment guide even helps you save time and money by predicting how a specific steel grade composition will perform after heat treatment. Whatever your process or application, our web-based steel selection tools let you explore hundreds of high-quality steel products to find the right match for your specific needs.

Find out more at [steelnavigator.ovako.com](https://steelnavigator.ovako.com)

## ABOUT OVAKO

Ovako develops high-tech steel solutions for, and in cooperation with, its customers in the forging, bearing, transport and manufacturing industries. Our steel makes' end products more resilient and extends their useful life, ultimately resulting in smarter, more energy-efficient and more environmentally-friendly products.

Our production is based on recycled scrap and includes steel in the form of bar, tube, ring and precomponents. Ovako has over 3,000 employees in more than 30 countries. Ovako's sales in 2017 amounted to EUR 921 million. Since June 2018, Ovako is part of the Japanese steel corporation Nippon Steel & Sumitomo Metal Corporation that employs close to 100,000 globally and makes some 48 million tonnes.

For more information, please visit us at [ovako.com](http://ovako.com) and [nssmc.com](http://nssmc.com)

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