



SIDUR ●●●
WEAR RESISTANT STEEL

SIMAXX ●●●
HIGH STRENGTH STEEL



BRAND OVERVIEW

SIDUR ●●●

SIDUR wear-resistant steel is perfectly suited for components that require high resistance to abrasive sliding wear. Typically, the plates made of this steel are used as add-on plates in areas with extreme wear providing prolonged component lifetime. Compared to non-alloyed structural steels, it achieves better wear resistance at lower thicknesses. SIDUR can be welded in the final structures using arc welding processes.

SIMAXX ●●●

SIMAXX high-strength structural steel has an excellent combination of high strength, toughness, and workshop properties, which makes it ideal for use in applications where a high strength-to-weight ratio is crucial. Superior mechanical properties, narrow dimensional tolerances and smooth surface ensure low deformation levels. Typical products made of SIMAXX are components for the advanced lifting industry, such as loader and mobile crane booms and other load-bearing parts where low weight is required. Compared to conventional structural steels, the fine-grained micro-alloyed SIMAXX steel achieves higher load capacities at lower thicknesses and ensures excellent mechanical properties at temperatures as low as -60°C . Due to its strength, metal structures made with SIMAXX are lighter and more cost-efficient.

DIMENSIONS

	SIDUR	SIMAXX
Thickness [mm]	6–80	6–100
Width [mm]		1000–2500
Length [mm]		2000–12500
Weight [kg]		max. 9600

SIDUR STEEL GRADES

GRADES

SIDUR 250
SIDUR 300
SIDUR 400
SIDUR 450
SIDUR 500
SIDUR 550
SIDUR 600
SIDUR 3401

APPLICATIONS

Mining, construction equipment, forestry, material processing, agriculture, transport of hard minerals and other abrasive materials

REASONS TO CHOOSE SIDUR

- High hardness
- High strength
- High impact toughness even at low operating temperatures
- Low deformation levels
- Up to 5 times longer lifespan of end products compared to conventional structural grades

SIMAXX STEEL GRADES

GRADES

SIMAXX 460
SIMAXX 500
SIMAXX 550
SIMAXX 620
SIMAXX 700
SIMAXX 900
SIMAXX 1000
SIMAXX 1100

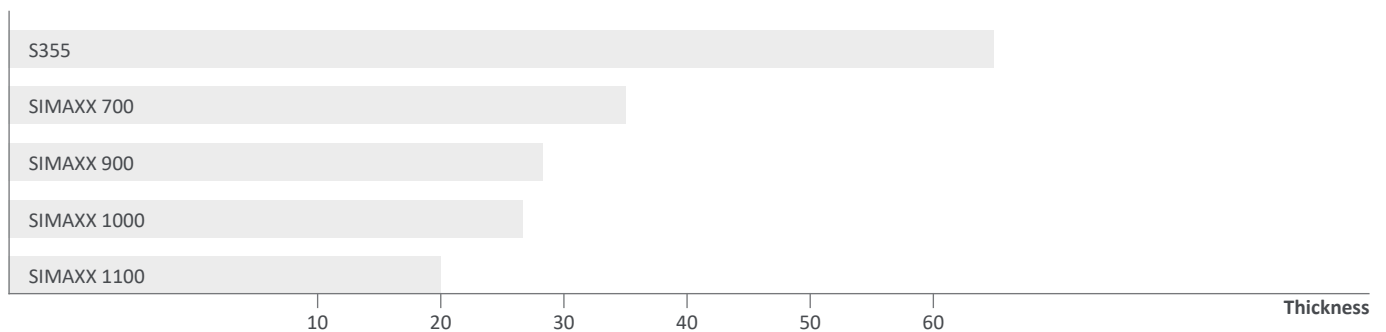
APPLICATIONS

Highly mechanical stressed parts of metal structures, material handling, mining, earth moving, forestry, lifting and transport equipment

REASONS TO CHOOSE SIMAXX

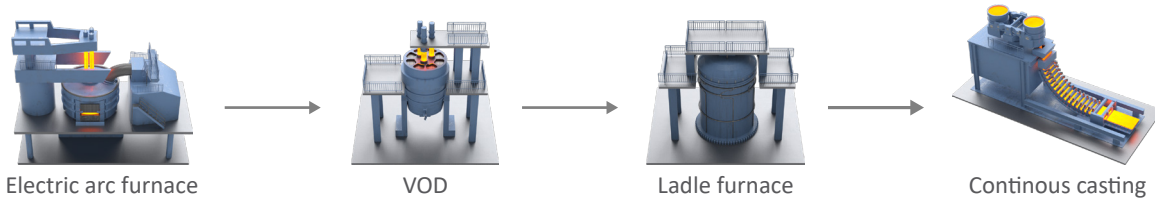
- High strength-to-weight ratio
- High impact toughness even at low operating temperatures
- Low deformation levels
- Excellent bending, welding and cutting properties

BETTER PERFORMANCE AT LOWER THICKNESS

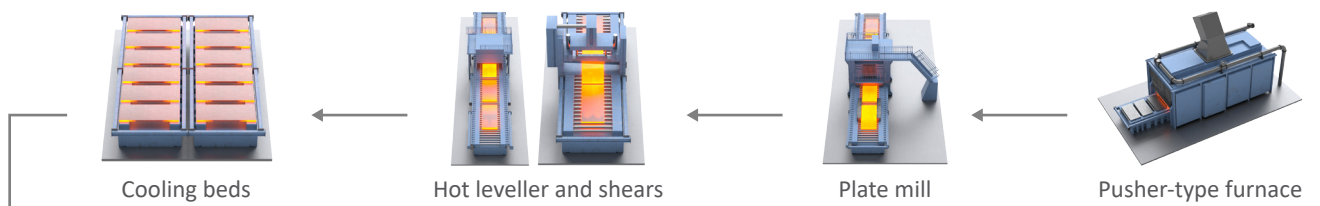


PRODUCTION PROCESS

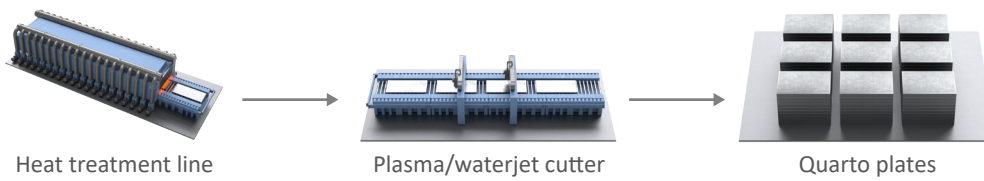
Steel plant



Hot rolling mill



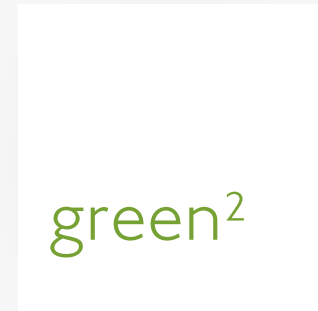
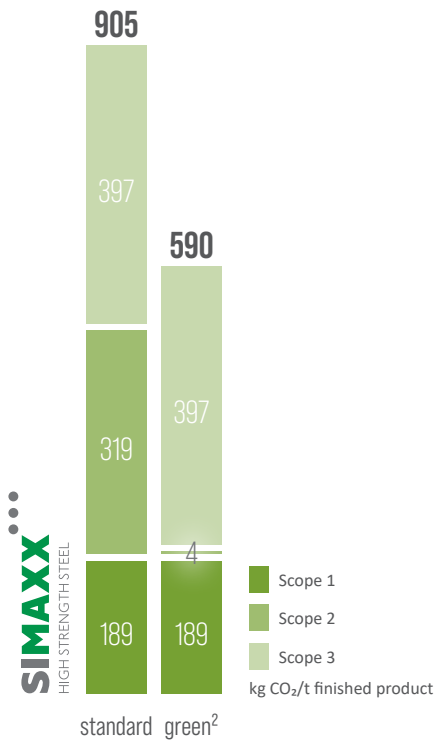
Heavy plate processing department



Approvals, standards and certificates

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Recycled content

Green² steel is made from recycled steel scrap, without the use of iron ore.

100 % renewable electricity

Green² steel is made with 100 % renewable electricity.

Single site production

Green² steel is produced entirely in one location avoiding unnecessary emissions from transporting semi-finished products.

SIJ Acroni is the largest steel producer in Slovenia, specializing in producing hot- and cold-rolled flat steel products. We are among the leading European producers of stainless-steel quarto plates and one of the most important producers of tool, electrical, wear-resistant and high-strength structural steels. SIJ Acroni guarantees a constant level of quality by focusing on continuous development and improvement of processes and materials. We are certified according to IATF 16949, ISO 9001, ISO 14001, ISO 45001, ISO 50001, EN ISO/IEC 17025 and ResponsibleSteel. SIJ Acroni is a member of the vertically integrated group SIJ – Slovenian Steel Group.

Living Circular Economy

We value flexibility and sustainability, which is why we make small batches of high-quality steel products with high added value and a low CO₂ footprint for niche markets. SIJ Acroni is proud to have one of the lowest carbon footprints in the industry.

- 100% of our steel is made from recycled steel scrap in an electric arc furnace. We use magnetic separation to purify and increase the quality of scrap. This helps us reduce our environmental impact and increase the quality of the final product.
- 98% of waste generated during our production process, such as steel scrap and slag, is recycled or otherwise reused.

