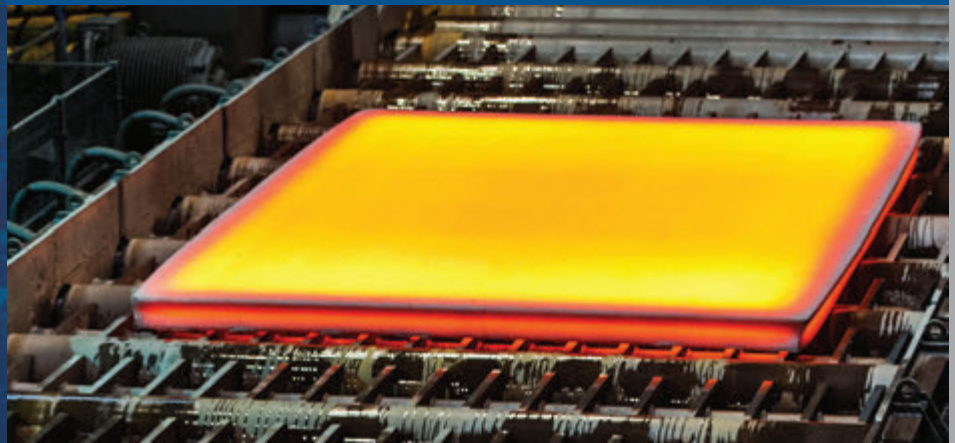




Europe – Plate

# HEAVY PLATES

Ingots & Forged Products







**Europe – Plate**

# Three specialised mills at your service

NLMK Europe - Plate gathers under one name three specialists, using technologically advanced production methods. From heavy plates – hot rolled or forged – to ingots, you can rely on a complete range of steels in all grades and dimensions.

## NLMK CLABECQ: THINK THIN

The NLMK Clabecq plant in Ittre (Belgium) produces medium and heavy steel plates in thickness from 3 to 120 mm. NLMK Clabecq benefits from sophisticated production tools for efficient rolling and heat treatment. Unique in the industry, it has put on the same line the reversible quarto mill, the four-stand continuous finishing line and the new generation accelerated cooling system. This special layout allows high productivity for low-thickness steel plates together with superior mechanical characteristics, top class surface finish and flatness. The modern quenching and tempering line, built with the latest heat treatment technologies, ensures the production of high added value steels.

## NLMK DANSTEEL A/S: GO WIDE

NLMK DanSteel A/S enjoys an excellent location in Frederiksværk, Denmark, less than an hour from Copenhagen. With its convenient geographical location and its own port, it is perfectly situated to deliver within a very short time its steel by sea, rail or road. Being an expert in wide hot-rolled high quality quarto plate production with its newest quarto plate rolling technologies such as CVC® plus and a completely new rolling line introduced in 2012, the company produces plates up to 4000 mm wide, with thicknesses between 5 and 200 mm. Specialising in steel for the energy sector, the production programme also includes steel for various applications: structural, offshore oil & gas, pressure vessels, boiler, machinery, onshore and offshore wind turbines, offshore wind foundations, petro-chemical industry, shipbuilding, construction and bridge building and line pipes. In addition, NLMK DanSteel A/S manages a service centre for transforming plates, where we offer add-on services such as profiling, bevelling, shot blasting & priming, all in order to shorten lead times for its customers.

## FINE SPECIALISTS

- **NLMK Clabecq:** Abrasion Resistant Steels (Quard), High Yield Strength Steels (Quend), plates for pipes, pressure vessels, shipbuilding, structural
- **NLMK DanSteel:** Offshore steels, pressure vessels, steel for wind towers, shipbuilding, bridge building and offshore wind foundations
- **NLMK Verona:** Ingots, tool steels, pressure vessels, structural

## NLMK VERONA: GET HEAVY

NLMK Verona, situated in Northern Italy, is specialised in the production of forging ingots, forged and rolled plates in thickness from 20 to 1500 mm.

NLMK Verona is a leader in high quality heavy gauges plates and ingots. It has recently invested in high performance heat treatment tools for normalization, annealing, quenching & tempering of heavy plates as well as in the modernization of its continuous casting. NLMK Verona is especially active in the boiler plates and tool steels markets.

**By utilizing synergies between these mills, NLMK Europe - Plate succeeds in offering its customers the best of the three worlds. A common quality approach together with a combined development philosophy and an ongoing investment plan ensure a constant ability to fulfill the needs of companies requiring the highest performance from their suppliers.**

## NLMK EUROPE

The European branch of the Russian NLMK Group includes all the steel businesses of the NLMK Group in Europe, bringing together production sites with a long history and extensive experience in hot rolling, cold rolling and coating steel. In addition NLMK Europe has an extensive network focusing on transforming and distributing steel products to end users. Along with the Plate business unit, NLMK Europe produces coils in its Belgian (La Louvière) and French (Strasbourg) plants. Slitted coils and sheets coming from its Belgian Steel Service Centers complete its portfolio.

NLMK Clabecq



NLMK DanSteel A/S



NLMK Verona



# Products and dimensions for all

By combining the production capabilities of NLMK Clabecq, NLMK DanSteel A/S and NLMK Verona, you get the best of three worlds: whether you need thin gauge heavy plates produced on a quarto mill using coil technology for finishing, or extra wide plates coming from a newly dedicated rolling mill or even the heaviest ingots from clean steel made on site, you can always find it.

Our production strategy is based on the pursuit of your best interest. No matter which sites produce your order, our teams of engineers and foremen are ready to meet the demands and find the most appropriate solutions.

At all times, we focus on delivering the highest quality to you.

## OUR GRADES AT A GLANCE

- Structural steels
- Wind turbines
- Offshore Oil & Gas
- Offshore Wind Foundations
- Laser plates
- Shipbuilding
- Pressure vessels and boilers steels
- Line pipe
- Low alloy steels
- Tool steels
- High carbon steel
- Quenched & Tempered steels:

**Quard**<sup>®</sup>

ABRASION RESISTANT STEEL

Abrasion Resistant Steels

**Quend**<sup>®</sup>

HIGH YIELD STRENGTH STEEL

High Yield Strength Steels

## HEAT TREATMENT

Perfect control of heat treatment is essential for excellent finished products, which is why a large portion of our investments has been in the heat treatment areas across our production sites. Our new or recently revamped tools enable us to offer the following finishing options in addition to 'as rolled':

- Normalized
- Annealed
- Thermomechanically Controlled
- Direct Quenched
- Hardened and Tempered
- Quenched and Tempered

## ADDITIONAL TREATMENTS

- Shotblasting
- Priming
- Beveling
- Bending
- Figure cutting



## HEAVY PLATES



TYPE	Thickness (mm)		Width max (mm)
	Min	Max	
Hot rolled heavy plates	3	200	4.000
Forged heavy plates	140	360	2.500

## FORGED BLOCKS, FORGED ROUNDS AND INGOTS



TYPE	Thickness / Diameter (mm)			Width max (mm)
	Measure	Min	Max	
Forged blocks	thickness	360	1.500	2.500
Forged rounds	diameter	180	1.500	-
Ingots	diameter	480	2.000	-

# Active in major sectors

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Where there is a need for steel plates and blocks exceeding the standards of the sector, our presence has increased over the years. This is because we understand how our customers work in each of the industries where we are active, and our customer base is constantly growing. Always attentive to their specific needs, we have developed practical expertise and the ability to react quickly to the rapid evolution of the markets.

## CONSTRUCTION

- Infrastructure
- Bridge Building

## ENERGY

- Oil & Gas
- Boiler & Pressure Vessels
- Wind

## INDUSTRIAL MACHINERY

- OEM's
- Mechanical Engineering
- Shipbuilding
- Cruise
- Military
- Cargo

## AUTOMOTIVE & WHEELED VEHICLES

- Trucks and trailers
- Trains
- Moulding

## STEEL PROCESSING



# Strengths with multiplied advantages

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## A STRONG SHAREHOLDER

NLMK Group is the biggest Russian steel company. In line with its efficient strategy of vertical integration, enabling it to control the whole chain from coal or iron ore to the final customers, it supports us in our numerous investments and in our ongoing development.

## HIGH QUALITY SLABS

They are produced directly in the steel shops of Lipetsk with the latest technology. Their quality consistency and cleanliness give us a competitive advantage for supplying finished products meeting the highest standards. Efficient logistics facilitate quick shipping to our three mills.

## THINK GLOBAL: A COMPLETE RANGE WITH NICHEs

NLMK Clabecq, NLMK DanSteel A/S and NLMK Verona have assets that are perfectly complementary. Each one has developed its presence in specific high end products (like Quenched and Tempered, Offshore or Tool steels). Yet we still produce most of the traditional steels you need, so you can rely on us as a global partner.

## CLOSE TO YOU

With production sites ideally distributed over Europe, we are able to deliver our products to you very quickly, no matter where you are. Moreover, our different teams, made up of talented and skilled professionals, provide tailored solutions that help your business to grow.

# Contact us

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STRONGER THAN STEEL



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