

CONFIDENCE IN EVERY PRODUCT

COLD-ROLLED STEEL

PRODUCT CATALOGUE

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ABOUT NLMK

Russia's No. 1 producer of steel, NLMK Group supplies products to sectors of the economy: from power engineering, petrochemical, pipe making, shipbuilding and construction through to manufacturing of railway transport, mining machinery, trucks, passenger cars, and yellow and white goods.

WHY NLMK

1. Reliability and quality guarantee

Our business model allows us to control the quality of our products at each stage: from the mining of raw materials to finished product manufacturing and servicing. Self-sufficiency in raw material and energy supplies ensures stability of our operations and unfailing delivery of all commitments to our partners.

2. A wide product mix

NLMK Group produces a wide range of steel products: from semifinished products and standard grades to high-tech electrical steels. We also offer our clients made-to-order customization to match their individual specifications.

Strong team with a customized approach

Our customer service model relies on NLMK Trading House and NLMK.shop, which enables direct engagement with any type of business. We offer a unique proposition in servicing and logistical capabilities, with a guarantee of high and stable product quality.

4. Long-standing expertise in steelmaking

NLMK's success is driven by 90 years' worth of experience in the market and by our continuous efforts in designing new products and deploying digital technologies in production. Our digitalisation projects are widely acclaimed by market experts and recognized with specialised awards.











most complex process chain is required to make cold-rolled products. They offer a whole range of advantages: CR steel can be ultra-strong, bendable and stretchable, or both, depending on the intended application.

Cold-rolled products are marked by precise geometry and smooth finish that enables better coating and looks.

NLMK ensures these desired properties with its production technology, quality controls at each stage, and the reliable chemical and physical properties of its slabs.

chemical and physical properties of its slabs. Cold-rolled products are used in highcapacity industries — car manufacturing and white goods. CR steel is also very common in furniture hardware and panels, industrial packaging and warehouse racks.

OUR ADVANTAGES

- High surface quality (purity, microgeometry)
- Exceptional flatness
- Precise sheet geometry
- Variability of end-product properties for different applications









Applications

- Automotive industry
- Agricultural machinery
- Railroad machinery
- White goods
- Retail fixtures
- and equipment



PRODUCT MIX

- Cold-rolled steel sheets for cold stamping from low-carbon steel grades 08Ю, 08пc as per GOST 9045 with extra high (I) and high (II) quality of surface finishing.
- Cold-rolled products for enameling and stamping from microalloyed steel grades 06FBYuR (06ΦБЮР), 07GFYu (07ΓΦЮ), 06FYu (06ΦЮ).
- Cold-rolled steel sheets from low-carbon steel grade 01ЮT for cold stamping as per TU 14-106-632, TU 14-106-640.
- Rolled sheets from general purpose high-quality and commercial quality carbon steel of grades O8ps (O8nc), 10ps (10nc), 10, 15ps (15пс), 20ps (20пс), 20, St1ps (Ст1пс), St1sp (Ст1сп), St2ps (Ст2пс), St2sp (Ст2сп), St3sp (Ст3сп), St3ps (Ст3пс), St5ps (Ст5пс), St5sp (Ст5сп) as per GOST 16523-97.
- Cold-rolled and cut carbon steel straps as per GOST 19851.
- International analogues of Russian steel grades.
- Rolled products can be shipped in coils, slitted and coiled, or as sheets.

MAIN PARAMETERS

0.40-2.5 mm
900-1,800 mm
600 ± 10, 500 ± 10 mm
5–30 t
1,500-3,500 mm
up to 10 t
100-1,850 mm
600 ± 10, 500 ± 10 mm

Depending on the product type, minimum dimensional tolerances are equivalent to $^{1}/_{2}$ or $^{2}/_{3}$ of ASTM A 568/EN 10131. Non-flatness of rolled sheets conforms to standard tolerances as per EN 10131.

Rolled products with other specified requirements, including for thickness/width ratio, are available upon request.

TOLERANCES FOR DIMENSIONS AND SHAPE OF ROLLED PRODUCTS

Standard for specification	GOST 9045 GOST 16523	EN 10130	ASTM A 1008 (ASTM A 620)
Standard for product mix, geometrical dimensions and	GOST 19904	EN 10131	ASTM A 568

ROLLED STEEL FOR COLD STAMPING

MECHANICAL PROPERTIES

Steel grade, drawability	Standard	Tensile strength,	Yield strength,	Relative elongation	Hardness			Erichsen	Application
aranability		N/11111-	N/IIII	L - 00 mm, %	HRB	HRT 30	HRT 15	mm*	
08Ю, 08пс ВГ	GOST 9045	250-390	-	≥ 28	-	-	-	8.6-12.1	Cold stamping
08Ю СВ	GOST 9045	250-380	205	≥ 34	≤ 48	≤ 53	≤ 78	8.8-12.2	-
08Ю ОСВ	GOST 9045	250-350	195	≥ 36	≤ 46	≤ 51	≤ 76	9.0-12.4	Cold stamping of complex parts including
08Ю ВОСВ	GOST 9045	250-390	185	≥ 40	≤ 46	≤ 51	≤ 76	9.7-12.5	automotive components
08Ю ВОСВ-Т	GOST 9045	260-330	175	≥ 42	≤ 45	≤ 46	≤ 75	10.4-11.6	-

* Depending on rolled product thickness.

MECHANICAL PROPERTIES (ONLY FOR TEMPERED PRODUCTS)

Steel grade, drawability	Standard	Tensile strength, N/mm²	Yield strength, N/mm²	Relative elongation L = 80 mm, %	Plastic strain ratio r90	Mechanical hardening index nºº
DC01	EN 10130	270-410	≤ 280	≥ 28		
DC03	EN 10130	270-370	≤ 240	≥ 34	≥ 1.3	
DC04	EN 10130	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.180
DC05	EN 10130	270-330	≤ 180	≥ 40	≥ 1.9	≥ 0.200

If thickness is > 0.5 and < 0.7 mm, the yield strength value increases by 20 N/mm². For thicknesses < 0.5 mm, the yield strength value increases by 40 N/mm².

² The values of parameters r₉₀ and n₉₀, or r and n apply products with a thickness ≥ 0.5 mm.

³ If thickness is > 2 mm, the value of r₉₀ or r decreases by 0.2.

⁴ Unless otherwise specified during inquiry and order placement, the products may be supplied as alloyed steels (for example, with boron or titanium).

⁵ For design purposes, the lower yield strength limit can be assumed to be 140 N/mm².

⁶ For thickness > 0.5 and ≤ 0.7 mm, the minimum value of elongation decreases by 2 units. For thickness 0.5 mm, the minimum value decreases by 4 units.

Mechanical properties can be customized upon request.

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

• DC01						• DC03						
Thickness, mm	Strip w	idth, mm	1			Thickness, mm	Strip v	vidth, mm				
	900	1,420	1,530	1,680	1,800		900	1,420	1,500	1,600	1,700	1,80
0.40-0.46						0.40-0.46						
0.47-0.69						0.47-0.69						
0.70-0.79						0.70-0.79						
0.80-2.50						0.80-2.50						

• DC04							• DCC
Thickness, mm	Strip w	vidth, mm	1				Thickness
	900	1,420	1,500	1,600	1,700	1,800	
0.40-0.46							0.40-0.46
0.47-0.69							0.47-0.69
0.70-0.79							0.70-0.79
0.80-2.50							0.80-2.50



CO5 (BASED ON GRADE 08Ю)



Rolled products with other product mix requirements, including for thickness/width ratio, can be customized upon additional approval

At the customer's request, rolled products can be manufactured with additional limitations by the lower yield strength limit: 180 MPa, 200 MPa, 210 MPa, 220 MPa, and 240 MPa.

ROLLED STEEL FOR COLD STAMPING WITH EXTRA DEEP DRAWING **BASED ON IF STEEL**

MECHANICAL PROPERTIES

Steel grade (drawability)	Standard	Yield strength, N/mm ²	Tensile strength, Relative elongation, %		, %	Plastic strain ratio r90	Mechanical hardening index n ₉₀
(uruwabinty)		N/1111	N/ 1111	a < 0.7 mm	0.7 ≤ a ≤ 1.5 mm		
01ЮТ (ВОСВ-Т)	TU 14-106-632-2001	≤ 175	260-330	40	42	2.1	0.220
01ЮТ (ВОСВ)	-	≤ 185	270-350	38	40	2.0	0.210
DC05	EN 10130	≤ 180	270-330	40		1.9	0.200
DC06	-	≤ 170	270-330	41		2.1	0.220

For grades DC05, DC06

² If thickness is > 0.5 and ≤ 0.7 mm, the yield strength value increases by 20 N/mm². For thicknesses ≤ 0.5 mm, the yield strength value increases by 40 N/mm²

- The values of parameters r_{90} and n_{90} , or r and n apply products with a thickness ≥ 0.5 mm.
- If thickness exceeds 2 mm, the value of r₉₀ decreases by 0.2.
- Unless otherwise specified during inquiry and order placement, the products may be supplied as alloyed steels (for example, with boron or titanium).
- ⁶ For construction purposes, the lower yield strength limit can be assumed for steel grade DC05 as equal to 140 N/mm², for steel grade DC06 as equal to 120 N/mm².

For thickness > 0.5 and < 0.7 mm, the minimum value of elongation decreases by 2 units. For thickness 0.5 mm, the minimum value decreases by 4 units.

Mechanical properties can be customized upon request,

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

Thickness, mm Strip width, mm

	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-2.00				

COLD-ROLLED PRODUCTS FROM MICROALLOYED STEELS FOR ENAMELING AND STAMPING

MECHANICAL PROPERTIES

Steel grade	Standard	Tensile strength, N/mm²	Yield strength, N/mm²	Relative elongation***
06FBYuAR	TU 14-106-608*	260-350	≤ 210	32-28
(06ФБЮАР)	TU 14-106-607**	260-360	≤ 240	32-36
07FYu (7ГФЮ)	TU 14-106-633	≥ 390	≥ 275	≥ 30
06FYu (06ФЮ)	TU 14-106-661	≥ 340	≥ 240	≥ 30
DC01EK	EN 10209	270-390	≤ 270	≥ 30
DC04EK	_	270-350	≤ 220	≥ 36
HC220Y	EN 10268	340-420	220-270	≥ 33
HC180B	_	290-360	180-230	≥ 34
HC220B	_	320-400	220-270	≥ 32
HC260B	_	360-440	260-320	≥ 29
ZStE220BH	SEW 094	320-400	220-280	≥ 30
ZStE260BH	_	360-440	260-320	≥ 28
HC260LA	EN 10268	350-430	260-330	≥ 26
HC300LA	_	380-480	300-380	≥ 23
HC340LA	_	410-510	340-420	≥ 23
HC380LA	_	440-580	380-480	≥ 19
HC420LA	_	470-600	420-520	≥ 17
ZStE260	SEW 093	350-450	260-340	≥ 24
ZStE300	_	380-480	300-380	≥ 22
ZStE340	_	410-530	340-440	≥ 20
ZStE380	_	460-600	380-500	≥ 18
ZStE420	_	480-620	420-540	≥ 16
ZStE220P	SEW 094	340-420	220-280	≥ 30
ZStE260P	_	380-460	260-320	≥ 28
ZStE300P	_	420-500	300-360	≥ 26
HCT590X	EN 10338	≥ 590	340-430	≥ 20
SPRC440	HKMC GMG 05.2008	250-370	≥ 440	≥ 30

For 180° bending test, mandrel diameter is 0e for rolled products of grades HC260LA, HC300LA, HC340LA, and 0.5e for HC380LA, HC420LA. For grades DC01EK and DC04EK:

- ¹ Mechanical properties apply only to tempered products.
- ² If thickness is > 0.5 and ≤ 0.7 mm, the yield strength value increases by 20 N/mm². For thicknesses ≤ 0.5 mm, the yield strength value increases by 40 N/mm².
- ³ For design purposes, the lower yield strength limit can be assumed to be 140 N/mm².
- ⁴ For thickness > 0.5 and ≤ 0.7 mm, the minimum value of elongation decreases by 2 units. For thickness 0.5 mm, the minimum value decreases by 4 units.
- Upon request, rolled products of DC04EK grade can be supplied with a maximum yield strength of 210 N/mm² and a minimum relative elongation of 38% with a thickness of 0.7–1.5 mm. The manufacturer shall select the surface roughness within the normal roughness range

Mechanical properties can be customized upon request.

Microalloying provides the following: enhanced resistance to the "fishscale" defect in steels for enameling; excellent plastic properties in combination with enhanced strength in steels for cold stamping of automotive components; thickness of rolled products: 0.5-2.5 mm



%	Application	*	For rolled products with thickness < 0.7 mm, the yield strength value may be increased to 240 N/
	For single-layer and double-layer enameling		mm ² .
	Vanadium microalloyed steel (0.04-0.08%) for manufacturing automotive components	**	For rolled products with thickness < 0.7 mm, the vield strength value may
	For cold stamping of automotive components		be increased to 260 N/
	Boron microalloyed steel (0.001–0.003%) for single- layer and double-layer enameling		mm².
	IF steel hardened for cold stamping of automotive components	**:	* For thicknesses > 0.5 and ≤ 0.7 mm, the relative elongation values may be
	For stamping with subsequent item hardening		reduced by 2%.
	during drying (bake nardening creet)		
	Microalloyed steel for cold working		
	Phosphorus microalloyed steel for cold working		

Two-phase steel for cold working

¹ Mechanical properties apply only to skin-passed products.

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

• 06FBYUAR (06ФБЮАР), DC01EK, DC04EK

Thickness, mm	Strip width, mm							
	900	1,420	1,530	1,680	1,800			
0.40-0.46								
0.47-0.69								
0.70-0.79								
0.80-2.50								

• HC180B

Thickness, mm	Strip w	Strip width, mm						
	1,000	1,450	1,530	1,680	1,800			
0.70-1.50								

• HC260LA, ZSTE260

Thickness, mm	Strip width, mm							
	900	1,330	1,440	1,450	1,480	1,530		
0.40-0.46								
0.47-0.69								
0.90-1.90								
1.91-2.50						-		

• HC340LA, ZSTE340

Thickness, mm	Strip width, mm							
	900	1,250	1,400	1,450	1,530			
0.70-1.49								
1.50-1.89								
1.90-2.50								

• HC420LA, ZSTE420

Thickness, mm	Strip w	Strip width, mm					
	900	1,080	1,250	1,420	1,530		
1.00-1.50							

• SPRC440

Thickness, mm	Strip w	idth, mm			
	1,000	1,300	1,420	1,530	1,680
0.70-0.89					

HCT590X

Thickness, mm	Strip w	idth, mm			
	900	1,280	1,420	1,530	1,680
1.00-1.80					

Rolled products with other specified requirements, including for thickness/width ratio, are available upon request.

• 06FYU (06ФЮ)

hickness, mm	Strip w	idth, mm			
	900	1,400	1,530	1,680	1,800
.70-1.80					

07FYU (7ГФЮ)

Thickness, mm	Strip width, mm					
	900 1,500 1,530 1,680 1,800					
0.70-2.50						

ZSTE220BH

Thickness, mm	Strip width, mm							
	900	1,450	1,530	1,680	1,800			
).90-1.50								

HC300LA, ZSTE300

Thickness, mm	Strip w	idth, mm			
	900	1,300	1,400	1,480	1,530
0.60-0.89					
0.90-1.50					
1.51-1.90					
1.91-2.50			-	-	

• HC380LA, ZSTE380

Thickness, mm	Strip w	idth, mm			
	900	1,350	1,420	1,530	1,800
0.70-0.89					
0.90-1.10					
1.11-1.49					
1.50-2.50					

• ZSTE220P, ZSTE260P

Thickness, mm	Strip w	idth, mm					
	900	1,420	1,480	1,580	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-0.80							
0.81-1.50			-		-		
1.51-1.80							
1.81-2.50							

• HC220Y

Thickness, mm	Strip width, mm					
	900	1,375	1,420	1,530	1,680	
0.70-0.90						

STRUCTURAL ROLLED STEEL

METAL MECHANICAL PROPERTIES

Strength category	Steel grade	Standard	Tensile strength, MPa (N/mm²)	Yield strength, MPa (N/mm²)	Relat elong
K270B	08ps (08пс) 10ps (10пс) 10	GOST 16523	270-410	1	≥ 25
K310B	15рѕ (15пс)	GOST 16523	310-440	1	≥ 24
K330B	15	GOST 16523	330-460	/	≥ 24
K350B	20 20ps (20пс)	GOST 16523	350-500	/	≥ 23
OK300B	St1ps (CT1nc) St1sp (CT1cn) St2ps (CT2nc) St2sp (CT2cn)	GOST 16523	300-480	/	≥ 24
OK360B	St3ps (Ст3пс) St3sp (Ст3сп)	GOST 16523	360-530	/	≥ 22
OK370B	St3ps (Ст3пс) St3sp (Ст3сп)	GOST 16523	370-530		≥ 22
OK400B	St5ps (Ст5пс) St5sp (Ст5сп)	GOST 16523	400-680		≥ 19

/ - parameter is not regulated by the standard.

a - rolled product thickness.

•

0.5 1.2

At the customer's request, steel can be manufactured according to special requirements for mechanical properties.

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

 08ПС, 10ПС 				• 15, 15 IC	;, 20 , 1
Thickness, mm	Strip w	ridth, mm	1	Thickness, mm	Strip w
	900	1,520	1,650		900
0.5				0.43-0.70	
1.2				0.71-0.80	
1.5				0.81-1.20	
1.8				1.21-2.50	

Rolled products with other specified requirements, including for thickness/width ratio, are available upon request.







PRODUCTION FLOW



	Production stage
1	Iron ore mining
2	Sintering
3	Blast furnace
4	Basic-oxygen furnace
5	Ladle furnace
6	Vacuum degasser
7	Continuous casting machine
8	Reheating furnace
9	Mill 2000
10	Continuous pickling line
11	Cold-rolling mill
12	Continuous annealing line
13	Bell furnaces
14	Skin pass mill
15	Cutting machines
16	Finished products in coils
17	Finished products in sheets



PACKING CHARTS

Chart No. 05

No.	Description	
1.2	Polyester packing strap	
1.3	Steel baling strap	
2	Strapping seal	
14	Protective steel box	
15	Protective angle for pack corners	
16	Standard timber pallet	
16.4*	Double pallet for forklift	
19	Label (shipping)	



Chart No. 05-1

No.	Description	
1.2	Polyester packing strap	
1.3	Steel baling strap	
2	Strapping seal	10.3
5	Multilayer anticorrosive material	
10.3	Protective sheet	
13	Protective steel angle	
15	Protective angle for pack corners	
16	Standard timber pallet	
16.4*	Double pallet for forklift	5 —
19	Label (shipping)	—
		12

* Not visualized.





Chart No. 06

No.	Description
1.2	Polyester packing strap
1.3	Steel baling strap
2	Steel strapping seal
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
10.2*	Packing plastic sheet
10.3*	Protective steel sheet
13*	Protective steel angle
14	Protective steel box
15	Protective angle for pack corners
15.1*	L-shaped protective angle for pack ends
16	Standard timber pallet
16.4**	Double pallet for forklift
19	Label (shipping)

- Option instead of the steel box (not visualized). Interchangeable packing elements shall be selected by the manufacturer.
- ** Not visualized.



Chart No. 10, No. 10-1

No.	Description	
1	Polyester packing strap	
1.4	Steel baling strap	
3	Adhesive tape 50 mm	
5	Multilayer anticorrosive material	
6	Polyethylene film	
7	Protective cardboard angle	
8	Plastic insert	
8.1	Plastic shell	
9*	Cardboard sleeve	
10	External packing sheet	
10.1	Internal packing sheet	1 (1.4) -
11	End cover	
12	External corrugated angle	
12.1	Internal corrugated angle	8 (8.1): 9 -
	Labal (chipping)	

Chart No. 07

No.	Description
1.1	Steel baling strap
1.2	Polyester packing strap
2	Steel strapping seal
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
6	Polyethylene film
10.3	Protective steel sheet
13	Protective steel angle
16.1	International timber pallet
16.4*	Double pallet for forklift
19	Label (shipping)

* Not visualized.



Chart No. 11, No. 11-1

lo.	Description		
	Polyester packing strap		
.4	Steel baling strap		
1	Adhesive tape 50 mm		
.1	Adhesive tape 100 mm		
i	Multilayer anticorrosive material	. 19	
i	Polyethylene film		
,	Protective angle 60 × 60 mm		
.1*	Protective angle 120 × 80 mm		
;	Plastic insert		
.1	Plastic shell	7	_
**	Cardboard sleeve	1 (1.4)	
0	External packing sheet	10.1	_
0.1	Internal packing sheet	0 (0 1) · 0	
0.5	Protective sheet for strap bundles	0 (0.1), 9	_
1	End cover	71	
2	External corrugated angle		
2.1	Internal corrugated angle	11	
9	Label (shipping)	12	



12

* To be installed if steel end covers are used.

** For Packing Chart No. 11-1.







Chart No. 11K, No.11-1K

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
8	Plastic insert
8.1	Plastic shell
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

* For Packing Chart No. 11-1K.



Chart No. 12, No. 12-1

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
3.1	Adhesive tape 100 mm
5	Multilayer anticorrosive material
6	Polyethylene film
7	Protective angle 60 × 60 mm
7.1	Protective angle 120 × 80 mm
8	Plastic insert
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)



CERTIFICATION OF NLMK GROUP'S MANAGEMENT SYSTEM

Certification authority	International standard	Management System	
TÜV AUSTRIA CERT GMBH	ISO 9001:2015	Quality Management System	
TÜV AUSTRIA CERT GMBH	ISO 14001:2015	Environmental Management Syste	
TÜV AUSTRIA CERT GMBH	ISO 45001:2018	Occupational Health and Safety M	
TÜV AUSTRIA CERT GMBH	ISO 50001:2018	Energy Management System	

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Management system as per		Manage	ement system as per
EN ISO 9001:2015		EN ISO	14001:2015
In accordance with TIN ALISTRIA CERT recordings. It is hereby	continued that	in accorda	nce with TUV AUSTRIA CERT procedures, it is he
		Novolic	etsk Steel
Novolipetsk Steel		2, Meta	lurgov sq.
2, metalurgov sq. Lipetsk 398040		Lipetsk	398040
Russian Federation		Russia	n Federation
		14 annies a s	ananement system in line with the above standard
applies a management system in line with the above standard for t	r the	tollowing a	cope
and a state		2	of sinter only and he perduris ain inter-
roduction of sinter, coke and by products, pig iron, slab, hot-rolled	ed, cold-rolled, made of carbon and low-	g carbon an	d low-alloyed steel, including galvanized and p
heets, operations of support personnel, onsuring productions of the	above products. Project management of	above pro	ducts. Manufacture and supply of metallurgica
colomite and dolomite flour. Coke and by-product manufacture. Prod	duction and shipment of sinter iron ore,	e and by-pr concentral	educt manufacture. Production and shipme le, iron ore pellets, crushed ferruginous m
inter iron one concentrate, iron ore pellets, crashed ferruginous magiv he manufacture of cold-rolled grain-oriented and non-grain-oriented e	netite quartzites, chalk, breakstone, sand. electrical steel. Development, production	8 sand. The steel. Dev	manufacture of cold-rolled grain-orients elopment, production and delivery of industri
nd delivery of industrial function metal ware and fasteners of genera nd production of continuous casting blanks, hot rolled rods, long steel	ral engineering application. Development el and shape rolled stock. Development of	general en	gineering application. Development and pro
ign deliverables for construction, reconstruction, innovation rep telluratical and other fields of industry. Production of continuous (spair of the facilities of enterprises of cashed billet, section and profile product.	section a	nd profile product. Production and s
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CONTACT US

Integrated Sales Call Center

+7 800 551 62 69 sales@nlmk.com

NLMK Trading House

+7 495 787 00 86

nlmk.shop

store@nlmk.com



