



C R A N E
TECHNOLOGIES

Giraffe is a unique partner
on the market of construction equipment.

over
75%

of domestic tower
cranes are manufactured
by Giraffe.

We considerably differ from other companies thanks to wide geography of delivery of our cranes, excellent client service and reliability of the offered production.

Through continuous of quality improvement of all our products and well-established client service, we build a strong relationship for many years. Improved control technologies, ease of operation in any weather conditions, mobility and profitability do our equipment an ideal construction tool.

We put our knowledge, talent and innovative approach to create the ideal construction equipment that people around the world can rely on.

GIRAFFE cranes are designed for comfortable and safe work —
our clients can easily reach any heights.



Due to improvements in technology and modernisation of the manufacturing process, the Giraffe Company strikes a balance between validity and reliability of constructions with serviceability and mobility of their operation.

Due to the uniqueness of used materials, modularity of constructions and new engineering decisions, Giraffe cranes will meet with any needs in modern construction.

As a full-cycle company, we control our products on all stages: design, production, sales and after-sales service. An integrated approach to service allows us to create products that completely satisfy all customers' requirements.

Every day our engineers, designers, employees of production, sales and service work for your advancement and comfort.

We will never stop on our way to perfection:
our goal is to be one of the best
manufacturers of lifting equipment.

top-selling company
on the tower crane
market

**2014-
2016**

A perfect lifting equipment is designed
by 3 engineering centres in Europe:



AUSTRIA

3D and 2D modelling of cranes, full complex of dynamic and statistical calculations



GERMANY

crane control system solutions



RUSSIA

design and conversion of documents into Unified system for design documentation

Complex approach to machine design gives a number of undeniable advantages:

- Access to the latest technical innovations in tower crane building
- High operating characteristics (operating speed, height of freestanding crane, perfect control system)
- The highest level of crane safety (certificate of conformity to European CE-Directives)



Giraffe has a centuries-old history and builds up experience of generations.

It all started in 1747

In a cradle of the Russian metallurgy – the ironworks plant was founded. More than two centuries the plant makes the high-quality production fully meeting the requirements of time.

The present crane building stage began since 1949.

Commitment to quality and constant search for excellence and attention to customer's wishes let the plant to break new branch records repeatedly.

Today Giraffe is the largest manufacturer of tower cranes in Eastern Europe

offering their customers optimum construction equipment and first-class services.

Today, GIRAFFE includes **three leading industrial enterprises** producing lifting equipment, cabins and control systems.



Special attention to the quality of components and reliability of supplier let us produce safe modern tower cranes.

All materials and components that we use (metal constructions, reduction gears, electric motors, slewing rings and electric equipment) are **designed for operation in harsh conditions** – from heavy snows of Siberia to flaming sun of Baku.

Full-fabricated construction of all tower sections guarantees safety and durability of machines.

The achieved results of earthquake resistance afford to use tower cranes **in the regions with shocks rated in 8 - 9 on earthquake magnitude on the Richter scale.**

We produce tower cranes on which you can rely.



TOP-SLEWING FLAT-TOP TOWER CRANES



Supporting frame



Anchoring foundation



Fastening to a building with tower ties



Rail-travelling undercarriage

Top-slewing flat-top tower cranes are the recent development in the lifting equipment market. Static tower and full-slewing jib of this tower crane help to install it not only on anchoring foundation, but also to fasten the tower crane to a building unit, thereby a height of the building construction can reach 240 m.

Flat-top construction of the crane enables to install several tower cranes on a building site with minimum height difference.



TOP-SLEWING TOWER CRANE

TDK-8.180

Maximum lifting capacity, t	8
Maximum jib radius, m	60
Lifting capacity at maximum jib radius, t	1,82
Maximum lifting height of freestanding crane, m	49
Maximum lifting height by fastening to building, m	240



TOP-SLEWING TOWER CRANE

TDK-10.180

Maximum lifting capacity, t	10
Maximum jib radius, m	60
Lifting capacity at maximal jib radius, t	1,80
Maximum lifting height of freestanding crane, m	65
Maximum lifting height by fastening to building, m	180



TOP-SLEWING TOWER CRANE

TDK-10.215

Maximum lifting capacity, t	10
Maximum jib radius, m	65
Lifting capacity at maximum jib radius, t	2,2
Maximum lifting height of freestanding crane, m	74,9
Maximum lifting height by fastening to building, m	183



TOP-SLEWING TOWER CRANE

TDK-12.300

Maximum lifting capacity, t	12
Maximum jib radius, m	70
Lifting capacity at maximum jib radius, t	3,3
Maximum lifting height of freestanding crane, m	65
Maximum lifting height by fastening to building, m	165



TOP-SLEWING TOWER CRANE

TDK-40.1250

Maximum lifting capacity, t	40
Maximum jib radius, m	81
Lifting capacity at maximum jib radius, t	12
Maximum lifting height of freestanding crane, m	80
Maximum lifting height by fastening to building, m	190





Supporting frame



Rail-travelling undercarriage



Rail-travelling gantry

CAT-HEAD TOWER CRANES WITH SLEWING TOWER

Cat-head tower cranes with slewing tower is a **classical construction equipment** tested for decades. Due to its lifting characteristics and comfortable operation the crane won popularity by construction of panel houses and units of industrial usage.



CAT-HEAD TOWER CRANE
SMK-10.200

Maximum lifting capacity, t	10
Maximum jib radius, m	40
Lifting capacity at maximum jib radius, t	3
Maximum lifting height with horizontal jib, m	54
Maximum lifting height with inclined jib, m	72,7



CAT-HEAD TOWER CRANE
SMK-10.180

Maximum lifting capacity, t	10
Maximum jib radius, m	30
Lifting capacity at maximum jib radius, t	5
Maximum lifting height with horizontal jib, m	42,8
Maximum lifting height with inclined jib, m	56,5



FAST SELF-ERECTING CRANE

Fast self-erecting crane SMK-5.66 is a unique project of the Giraffe engineering centre.

Compact, mobile and efficient tower crane (you do not need specially prepared foundation for its installation), ideally fits both low-rise construction, and first phase of high-rise construction.

Installation, dismantling and control of tower crane SMK-5.66 is implemented from ground with help of a remote controller and does not need the creation of own erection crew and allowance for overhead works.

Simplicity and convenience of construction shortens the time of installation up to 4 hours, and the usage of semi-trailer makes crane's transport comfortable and economical.



FAST SELF-ERECTING CRANE
SMK-5.66

Maximum lifting capacity, t	5
Maximum jib radius, m	43
Lifting capacity at maximum jib radius, t	1,05
Maximum lifting height with horizontal jib, m	27
Maximum lifting height with inclined jib, m	41,7





Rail-travelling gantry

PORTAL CRANE

Giraffe portal cranes are the unique equipment specially made for load-handling operations on warehouses and depots.

All mechanisms of the crane are frequency controlled.

Strengthened portal base of the crane-loader gives a possibility to install it over a railway, unique engineering solutions let reach maximum lifting capacity on a whole jib length.



PORTAL CRANE
TDKP-10.300

Maximum lifting capacity, t	10
Maximum jib radius, m	30
Lifting capacity at maximum jib radius, t	10
Maximum lifting height, m	23,8
Track x base, m	6 x 6



PORTAL CRANES

Model	TDKP-12,5.440	TDKP-15.450	TDKP-25.525	TDKP-32.480
Maximum lifting capacity, t	12,5	15	25	32
Maximum jib radius, m	35	35	35	38
Lifting capacity at maximum jib radius, t	12,5	10	15	7.5
Maximum lifting height, m	15	15	15	15
Maximum load moment, Hm	440	450	525	480
Duty		A7		A8



NEW

NEW PRODUCTS

Giraffe engineering office works on improvement continuously.

We are working actively not only on the improvement of characteristics and development of new versions of our serial cranes, but also on the extension of our model range.

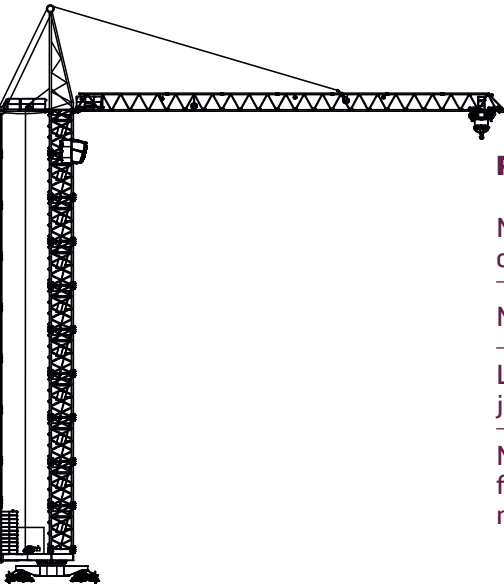
In the near future, we launch serial production of the following products:



Rail-travelling undercarriage

BOTTOM-SLEWING CAT-HEAD TOWER CRANE

SMK-10.300

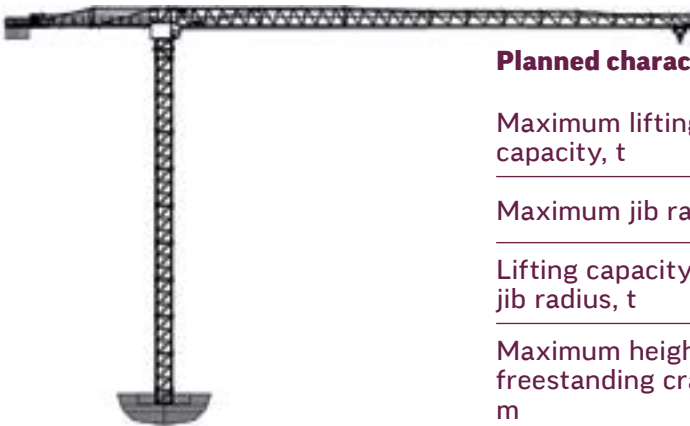


Planned characteristics:

Maximum lifting capacity, t	10
Maximum jib radius, m	50
Lifting capacity at maximum jib radius, t	3,2
Maximum height of freestanding crane, not less, m	95,4

TOP-SLEWING TOWER CRANE

TDK-16.350



Planned characteristics:

Maximum lifting capacity, t	16
Maximum jib radius, m	70
Lifting capacity at maximum jib radius, t	3,6
Maximum height of freestanding crane, not less, m	80

GANTRY CRANES



Max. lifting capacity, t	32
Maximum span, m	32
Lifting height, m	10





With grab



With magnet



With traverse beam



With spreader

BRIDGE CRANE



Model	Single-girder	Double-girder*	
Maximum lifting capacity, t	16	main	120
		auxiliary	20
Maximum span, m	48	48	

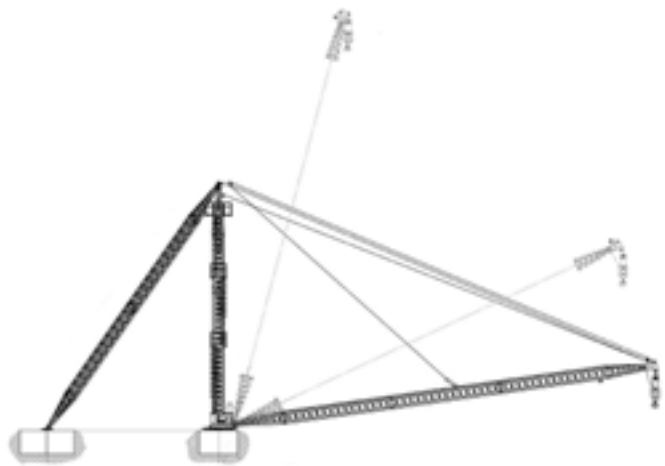
* GIRAFFE produces following double-girder travelling cranes for general purposes and special bridge cranes with lifting capacity of main lifting unit up to 120 t and of auxiliary lifting unit up to 20 t:

- bridge crane for general purposes;
- bridge crane with grab;
- bridge crane with magnet;
- bridge crane with magnet and grab;
- bridge crane with traverse beam;
- bridge crane with spreader;
- special bridge crane;
- high-rise bridge crane;
- double-trolley bridge crane.



DERRICK CRANE

GIRAFFE is one of few Russian companies producing the derrick cranes that are highly effective in use on quarries, granite and marble production. Derrick crane is an indispensable equipment not only for mining of materials, but also in industrial engineering to move the heavy loads for long distances.



Maximum lifting capacity, t	25
The possible depth that can be reached, m	
at inclined jib of 65°	48
at inclined jib of 82°	60
Lifting speed, m/min	
by load of 25 t	3,9
by load of 15 t	6,3
Angle of rotation	220° (110° + 110°)

Derrick crane is a mast crane. The top of its mast is fixed with the back braces (stiff legs). The mast and a jib are fasted to a slewing platform. The mechanical and electrical equipment is also placed there. The mast, jib and stiff legs are designed as a truss with a square section. The derrick crane is a stationary construction and is mounted on a foundation. It has three mounting points: base of the mast and bottom of the stiff legs. The angle between the stiff legs is 90°. A hinged joint of the jib and legs ensures the slewing and lift motions of the jib.

Advantages of the crane:

- reduction in cost of extracting and loading operations and transportation up to twice;
- mechanization of extracting and loading operations and transportation of minerals with one type of equipment;
- best solution to sink the open cast;
- easy construction;
- large area served by crane.



The Giraffe company offers universal design in construction of any size.

We perfectly understand that sometimes buying a new crane makes no sense and are ready to provide you rental services. You can enjoy the quality of our machines and high-level service leaving your cranes behind.

Broad experiences in sphere of lifting equipment production as well as special attention to client's requirements have helped us to create the nearly perfect relationship system with a client.

First of all, to rent a Giraffe crane means reliability – relying on supplier, machines quality and competence of its personnel. If you rely on supplier in rental issues, you can be sure that you get complete information about features of equipment and operating capabilities of tower cranes. You can be sure that you will get the qualified support in choosing the equipment and quick response to any questions.



The Giraffe Company offers a wide range of services providing the most convenient way of cooperation:



- Delivery and removal of equipment from your building unit
- Installation and dismantling of rented crane at the earliest possible date
- Provision of high-qualified crane operators services



- Registration of tower cranes in organs of Federal Service of Environmental, Technological and Nuclear Supervision
- Development of projects for carrying out of work by cranes and foundation project of tower crane



- Equipment maintenance
- Efficient change of spare parts
- Consultation and instructional advice about installation, setting and operation of tower cranes with variable-frequency drive systems



Our main aim is to prove an uninterrupted tower crane operation at any objects and at any place of the world!



The Giraffe company offers individual approach to every client.

This means providing support and guidance throughout the project implementation process.

We will help you select an ideal machine that is best for you from range of different models and configurations.

We are always ready to go to meet the customer's needs and give them the optimum financial solution. The wealth of experience of our engineering service allows us to resolve any issue in the shortest time possible.

You can work with the Giraffe Company without worrying about the little things – we can also take care of transportation, collection, supervised erection and training your employees as regards our control and safety system

Taking care of clients, we make an ideal construction tool from high-quality steel and excellent parts that customers in many countries have already appreciated.



WE ARE ALWAYS READY TO OFFER YOU THE FOLLOWING SERVICES:



- Installation and contract supervision
- Setting and maintenance of equipment
- Equipment service and repair maintenance



- Efficient and quick solution of all operational issues
- Efficient and quick delivery



- Remote diagnostics and control system management



- Additional options on operator's cabin
- Individual crane colouring



- Leasing of our lifting equipment
- Individual payment conditions
- Rent with purchase option
- Advantageous Trade-In terms



- Training to work with intelligent safety system

WARRANTY

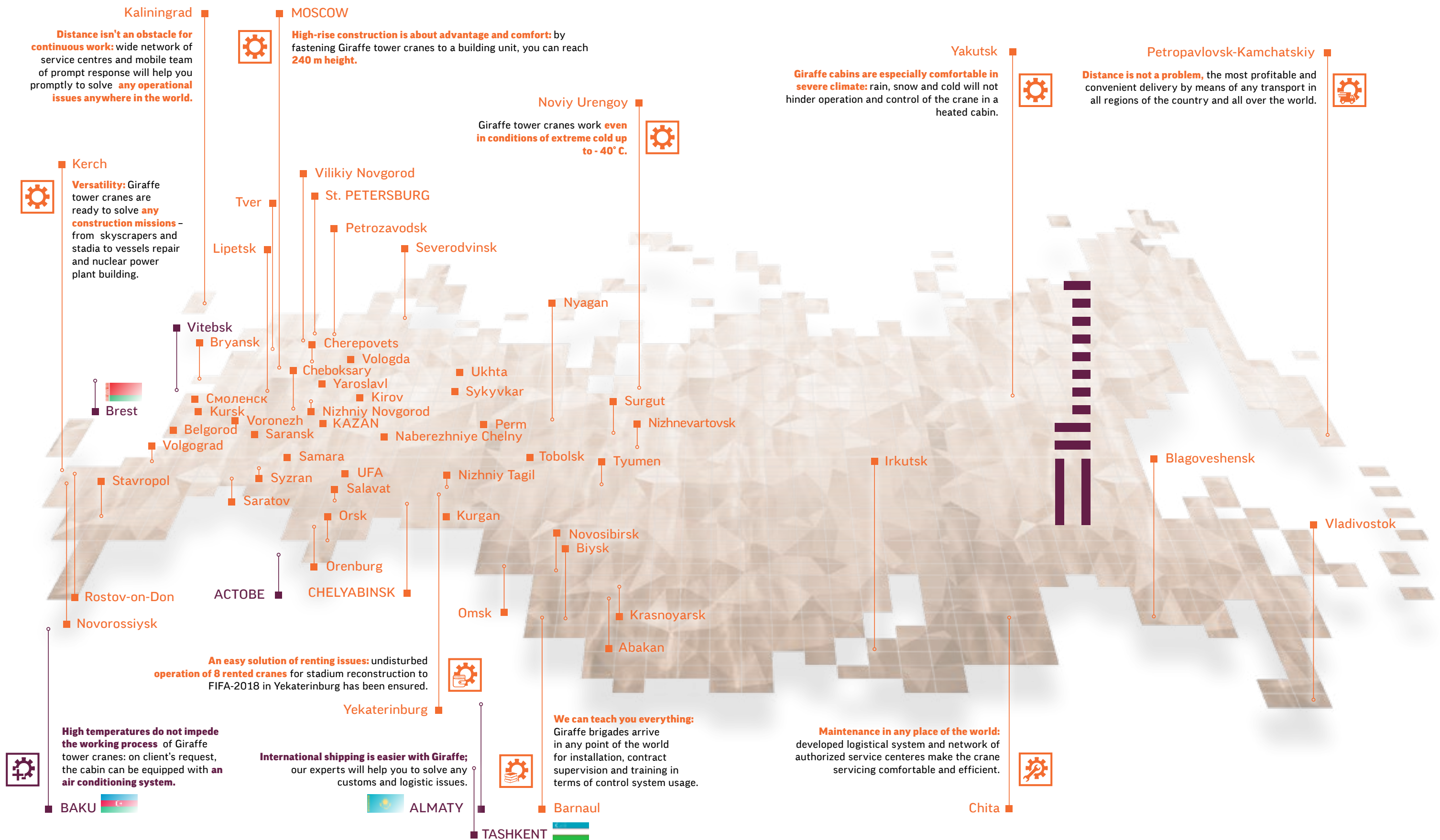
We are confident of our products' quality. Therefore, **the warranty period for our tower cranes is 18 months** from the date of commissioning. On client's request, the warranty period can be extended to 2 years.

**Maximum
warranty period on
client's request**

**2
years**



DISTRIBUTION MAP



Giraffe means responsibility
and European service!

More than
100
cities

over 1.000
building units
all over Russia

The whole territory of Russia
is covered with jibs of our cranes.



We are proud
of our participation in
realisation of millions football
fans' dream all over the world.



STADIA

Giraffe cranes have been used in construction of Kazan-Arena to Universiade; now they are used in construction and renovation of stadia to FIFA-2018 in **Volgograd, Ekaterinburg, Nizhny Novgorod, Saransk and Kaliningrad.**



GIRAFFE FOR SHIPBUILDING

GIRAFFE tower cranes are actively used in domestic shipbuilding: two tower cranes SMK-10.200 are repairing and reconstructing the cruiser Admiral Nakhimov, and the tower cranes of TDK-type are actively used in construction and remodelling of dockyards.



METROSTROY

The main Moscow project is a development program of underground railway. Tower cranes of TDK- and SMK-types are also presented at numerous housing and industrial projects of the capital and Moscow region.



ENERGY SECTOR

Every year the GIRAFFE tower cranes win tenders for supply of lifting equipment to strategic objects.

Since 2015, the GIRAFFE tower cranes have been taking part in construction of building units at the Kursk Nuclear Power Plant.

Since 2017, the TDK-12.300 crane has been building the Kazan heating plant-1.



GIRAFFE tower cranes are used by RusAl, EuroChem, Magnitogorsk Iron & Steel Works, Zapsibneftehim, PhosAgro- Cherepovets, Lukoil-Komi and other industry giants.

INDUSTRY

GIRAFFE successfully implements unique solutions for leading industry enterprises and helps to construct objects even if space is limited.





CIVIL ENGINEERING

Chelyabinsk

In Chelyabinsk the Giraffe tower cranes become at once the key machinery in construction of new houses in several areas of the city, with floor area over 150 hectare. New housing estates with developed and well-organized infrastructure have already become a home for thousands of happy families.



Moscow

The biggest Moscow developers chose the Giraffe tower cranes of TDK series to build high-rise residential complexes in the capital.

The clients of GIRAFFE are **Bestkon, Morton, Sroytransgaz, Boes Construction, URBAN-Group, RKS Development.**



Rostov-on-Don

TDK tower cranes are building the 32-storey residential **complex Bely Angel** in Rostov-on-Don in the most picturesque part of the city – waterfront of Don.



Voronezh

Voronezh's biggest builder is a regular GIRAFFE cranes client, which builds about 40% of urban housing. The key projects in the city are residential complexes Five stars, Olimpiysky, Cheluskincev, 101 and others, built by TDK-10.215 cranes.

Kazan

Here you won't find any building projects, where our new cranes haven't taken part: **2013 Universiade venues, football station KAZAN-ARENA, Palace of water sports, Volleyball Centre, Centre of shooting sports** satellite town – **Innopolis, residential complexes Salavat Kupere, Pobeda, Grand Park, Verbnii** and many others.



Chita



Baku



Novosibirsk



GIRAFFE cranes are designed for comfortable and safe work – **our clients can easily reach any heights.**

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