

KALININGRAD



VLADIVOSTOK

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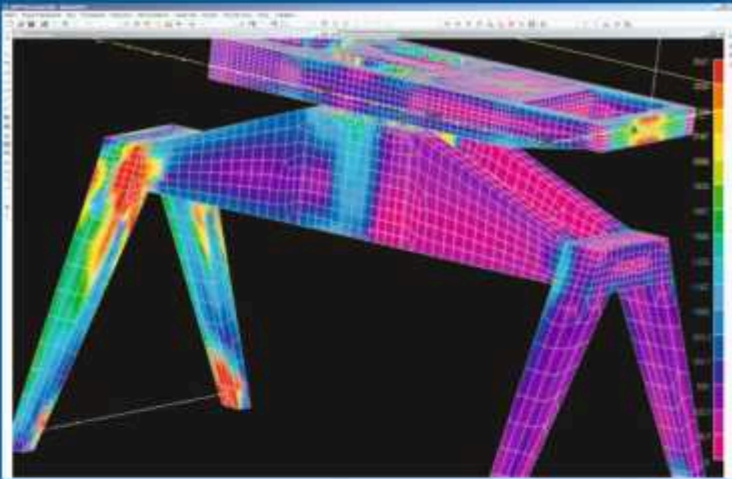
**TECHNICAL SERVICE**

Saint Petersburg, National Container Company, 3 container cranes, SWL 45 t

The crane building company Baltkran is located in the Special Economic Zone of Kaliningrad region – geographically inside of the European Union. For more than a 70-year history the enterprise has implemented technical solutions in producing more than 15000 various cranes and crane systems for transport, port, rail, gas and oil, metal, machine-building, energy, nuclear and other industries. These cranes have been faultlessly working for many years in various enterprises of Russia, the USA, Germany, France, Holland, China, India, Lithuania, Estonia, Belorussia, Kazakhstan and other countries.

We offer a range of cranes including a great variety of container, gantry, bridge, portal cranes and also special and complex cranes and crane systems for nuclear power stations.

Baltkran is certified according to ISO 9001 and licensed to design and manufacture equipment for nuclear power stations according to -043-03. Its production is favourably characterized by the use of the state-of-the-art equipment, modern technologies and know-how, providing high quality and security during the whole service life of our products.



DESIGN AND STRUCTURE CALCULATIONS



HIGH-PERFORMANCE PLASMA CUTTING MACHINE



MULTIFUNCTIONAL MACHINING CENTER ENSURING HIGH ACCURACY



IN-HOUSE DEVELOPMENT AND PRODUCTION OF CRANE MANAGEMENT SYSTEMS

## COMPLETE PRODUCTION CYCLE



Precision handling of large sized steel constructions after welding

- Own innovations, research and projects;
- Engineering documentation and crane management system development, structure calculations;
- Automated materials cutting for sheets, pipes, etc. with the use of high-performance plasma cutting machine ensuring high accuracy;
- Superior precision of mechanical handling of large sized constructions in the multifunctional machining centers after welding.

- Automatic, semi-automatic and manual welding according to DIN (Germany), EN (European Union), AWS (USA), NAKS (Russia) standards;
- Assembling and testing of units, mechanisms and management systems at the factory;
- Modern crane management systems production;
- Key components from the leading manufacturers;
- Crane assembling, testing, start-up, and commissioning;
- Advance technology anticorrosive protection with a long-time guarantee.



SESTOKAI, LITHUANIA



VLADIVOSTOK, 4 cranes



BREST, BELARUS, 4 cranes



RUBBER-TYRED CONTAINER CRANE

# CONTAINER CRANES

INTERMODAL CONTAINER TERMINALS, SEA AND RIVER PORTS, LOGISTICS CENTERS



Intermodal container terminal in Moscow

We have been producing container cranes for more than 20 years. The total number of the produced cranes is 200 cranes. The production range of the container cranes is characterized by numerous designs, the choice of which is based on the terminal conditions. The cranes are designed on the base of innovative solutions together with current trends in crane engineering and recommendations from company owners who have wide experience in crane operation.

## ADVANTAGES OF CRANES:

Highly effective cranes are equipped with trolleys on bearing rails for containers slewing. They are also fitted with anti sway system. Due to the 8-rope reeving system in the form of the rigid rope well, a wide adjustment and smooth speed shifting range and low energy consumption the cranes are user friendly and easy to maintain, also they are noise-free during operation, which is an important factor while operating within the city. The cranes offer high stacking density and height.





IRKUTSK, CWL 200 t, 23 cranes in total



KALININGRAD, CWL 32 t



KALININGRAD, CWL 32 t, 1500 cranes in total



SOCHI, CWL 16 t, 600 cranes in total

# GANTRY CRANES

FOR RAIL, GAS AND OIL INDUSTRIES, MACHINE-BUILDING, NUCLEAR POWER STATIONS AND CHP PLANTS, MINING,

TIMBER, CHEMICAL, METAL INDUSTRIES, FOR CONSTRUCTION MATERIAL AND METAL SUPPLY BASE.



Beloyarsk Nuclear Power Station, SWL 50/10 t, 2 cranes

Gantry cranes have been manufactured in a wide range since 1960. The total number of the produced cranes is 3500. All models are custom designed and equipped with use proved components from the leading manufacturers. All gantry cranes are easy to operate in any conditions and as practice shows are very reliable.

## ADVANTAGES OF THE CRANES

Different structure types; modular version; expanded wheelbase for carrying of long-length loads between legs; different outreaches at cantilevers and various hoist heights; wide adjustment and smooth speed shifting range; low wheel pressure on the rails; evenness of movements and silent operation; synchronization of trolleys' travel; low windage, low power consumption due to frequency converters and energy recovery; low maintenance costs; operational temperatures of up to  $\pm 45^{\circ}\text{C}$ .





UST-KUT, CWL 50 t



KAZAKHSTAN, AKTAU PORT, SWL 32 t, 2 cranes



SURGUT, SWL 15 t, 20 cranes



KOGALYM, SWL 10 t, 30 cranes, 1400 cranes in total

# PORTAL CRANES

FOR CARGO TERMINALS OF SEA AND RIVER PORTS, SHIP-BUILDERS AND DOCKYARDS, OIL, COAL, METAL, CHEMICAL AND TIMBER INDUSTRIES



Cargo terminal of Kaliningrad Commercial Sea Port

Portal cranes have been produced since 1949. The total number of manufactured cranes with luffing horizontal jib and articulated boom is more than 3500. Huge experience has been accumulated in cranes design, production and operation. Spreaders, grabs, slewing devices, suspended magnets etc. are used as load suspension devices while handling different types of loads. Wide variety of crane models is available for various operational conditions.

### ADVANTAGES OF CRANES:

High-performance cranes with tested and proved reliability. They have evenness of movements due to wide range of speed control and precise positioning; economic power consumption due to use of frequency control converters; management system provide for technical service in online mode. Heated cabins; easy replacement of suspended equipment; operational temperatures of up to  $\pm 45^{\circ}\text{C}$ .





LENINGRAD NUCLEAR POWER PLANT-2, SWL 160 T, SNF WORKSHOP



KALININGRAD, CHPP-2, SWL 125 t + 125 t, 2 cranes



KALININGRAD, SWL 32 t + 32 t, 2 cranes



KALININGRAD, SWL 20 t, 6 cranes

# BRIDGE CRANES

FOR WORKSHOPS IN NUCLEAR POWER STATIONS, OIL, FUEL AND ENERGY, MACHINE, METAL, SHIPBUILDING AND RAIL

INDUSTRIES



Novovoronezh nuclear power plant-2, turbine house, 3 cranes, L=45 m, anti collision system for cranes and loads.

Bridge cranes have been produced since 1955. The total number of the produced cranes is more than 3500 and more than 120 cranes for nuclear power plants. The cranes have different spans – of up to 50m and capacity of up to 500 t with different degrees of safety depending on the functions: fire-proof versions for seismic hazardous areas and also special cranes with a high safety degree for hazardous areas of nuclear reactor, for SNF container storage and turbine houses, special boom trucks for aluminium plants.

Great experience in production and operation of the equipment according to nuclear regulations of Russia, China, India and other countries.

## ADVANTAGES OF CRANES:

High reliability; quality, established during many years of service; self-propelled trolley; travel synchronism, evenness of movements and preciseness of load positioning; low wheel pressure on the rail; control system based on frequency converters; low power consumption; user friendliness. Low operating costs for the whole period of service life of the crane.





HAMBURG, GERMANY, 7 units



LOS-ANGELES, USA, 22 units



OFFSHORE PLATFORM IN THE BALTIC SEA, RUSSIA



LIEBHERR AND BALTKRAN, 3 units

# INTERNATIONAL PROJECTS

ADVANTAGEOUS POSITION ON THE BALTIC SEASIDE, THE EUROPEAN UNION PROXIMITY, SPECIAL ECONOMIC ZONE BENEFITS



Dourges, France, intermodal container terminal, SWL 45 t, 5 cranes

Among ambitious international projects there were American orders from the famous shipping company to supply 12 complex components for Super Post Panamax STS cranes and 10 complete RMGs. Baltkran implemented more than 300 sophisticated crane projects meeting various international quality standards, both in cooperation with leading companies from FRG, Austria, Italy, Norway, Finland etc, and based on own engineering solutions, for example for China, India, Holland. Baltkran's crane systems approved themselves in 50 countries of the world. These were container, portal, board, offshore, bridge cranes, cranes for atomic power stations, cranes for aluminium production and also large-sized crane components. All these products had a significant price benefit due to privileges of the Special Economic Zone, and also due to exemption from import duties when supplying cranes in Russia.







MOTOR TRANSPORTATION



RAILWAY TRANSPORTATION



COMPLETE CRANES SEA TRANSPORTATION



SHIPLOADS

# MAP OF READY DELIVERY

OPTIMAL CRANE TRANSPORTATION TO THE JOB SITE

## 40 COUNTRIES OF THE WORLD



Decades of experience allows Baltkran to perform long distance railway transportation within our vast country. The company uses all existing ways of loading: flat wagons, open wagons, special wagons for long-length cargo, containers of different capacity- depending on the size of the products and required load safety level.

Sea transportation gets more significant importance with increase of container congestion in river and sea ports and need for urgent operation of the delivered cranes. A big advantage is that fully erected and tested cranes are ready to operate practically at once at the place of unloading.



CRANE ERECTION



TROLLEY REFURBISHMENT



TRAINING OF CHINESE SPECIALISTS



WORKSHOP ON CONTAINER CRANES

## TECHNICAL SERVICE

## TRAINING



Specialists of Russian Railways on the international workshop on crane equipment. Kaliningrad, Russia

Technical service offered by Baltkran covers all range of works required for keeping robust efficiency of the cranes, in particular:

Erection and commissioning on site, preventive maintenance and inspection; technical regulations; preventive measures; repair and troubleshooting; remote diagnostics; reconstruction and modernization; manufacturing and supply of spare parts.

Crane equipment upgrading with more state-of-the-art fittings that reduce operational costs. Full or partial crane automation to increase capacity at the customer's request. Well-run regional service network.

Training for operation and maintenance of crane equipment for specialists of every specialization from clients groups.

Training includes:  
instructing and training in groups, research and practice seminars, workshops, technical certification; detailed instruction on the commission site etc.

International symposia concerning topical issues of crane building are held regularly with participation of Russian and foreign crane builders, suppliers and scientists. Experience exchange of Russian and foreign specialists.