

An octahedron, which is the symbol of the company, is a solid with eight faces, each of which is an equilateral triangle and can be the base of this figure. The octahedron symbolizes versatility of the company, precision of its formation and force of internal cohesion that renders this structure indestructible.

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CONTACTS AND SERVICES

## From the Chairman of Council



LNK Group is a unique enterprise created by engineering thought, which integrates multiple competences, enabling us to offer our customers and partners complex solutions and efficient implementation of production orders on a turnkey basis.

We have carefully maintained the best traditions of Latvian and Soviet industry: the creative approach to design, reliability in manufacturing of structures and machinery, responsibility for the work we perform and pride in our profession along with aspiration for growth and greater achievement.

We introduced into our work the ability to select and implement modern technologies and industrial practices which ensure precision and promptness of the work done, its correspondence to European quality standards as well as aesthetic perfection.

We combined financial and organizational advantages of a private business with the opportunity to enjoy team work, to nurture the talents of each member for shared success.

LNK Group stays true to its mission: twenty years ago the name Latvijas Novitates Komplekss (Latvian Innovation Complex) implied the course towards innovations and complex solutions. In all areas of its activity, which include manufacture, engineering, construction and real estate development, the holding is consolidated by a system of functional cooperation and mutual supplementation in manufacturing facilities, many of which are unique. This results in synergy effect, which manifests itself for our customers as a full-scale set of services at a price unfeasible for our competitors that specialize in limited areas. Therefore, we enjoy the trust of our customers for whom we have already carried out large-scale unprecedented projects such as plants, terminals, industrial parks etc.



We manage the full cycle of project operations – from searching for and providing assistance in acquiring land for development, research and design, procuring building permits, helping arrange financing, carrying out the construction work and providing technical supervision, to perfecting the project and handing it over into operation – LNK Group works quickly, to the highest standard and at a reasonable cost. Our motto is *In optima forma* (in the best possible way).

From our headquarters in Latvia we operate throughout the European Union and the CIS. You can see the full list of our contacts at the end of the booklet.

You are welcome to co-operate with us!

Aleksander Milov, Ph. D. Eng.
Chairman of the Council
LNK Group

# Operational Map

## **LNK Group Projects Locations**







LNK Group sells the products of its enterprises and builds bridges, overpasses, marine and industrial projects as well as office and apartment buildings. Our manufacturing facilities, laboratories as well as engineering and design centers are in Riga.



In co-operation with leading European companies LNK Group carries out projects in the EU countries. We export metal structures for construction, non-standard metal equipment, conveyor systems, as well as perform mounting construction work.



The CIS

In the CIS countries LNK Group is known for its products and infrastructure projects.

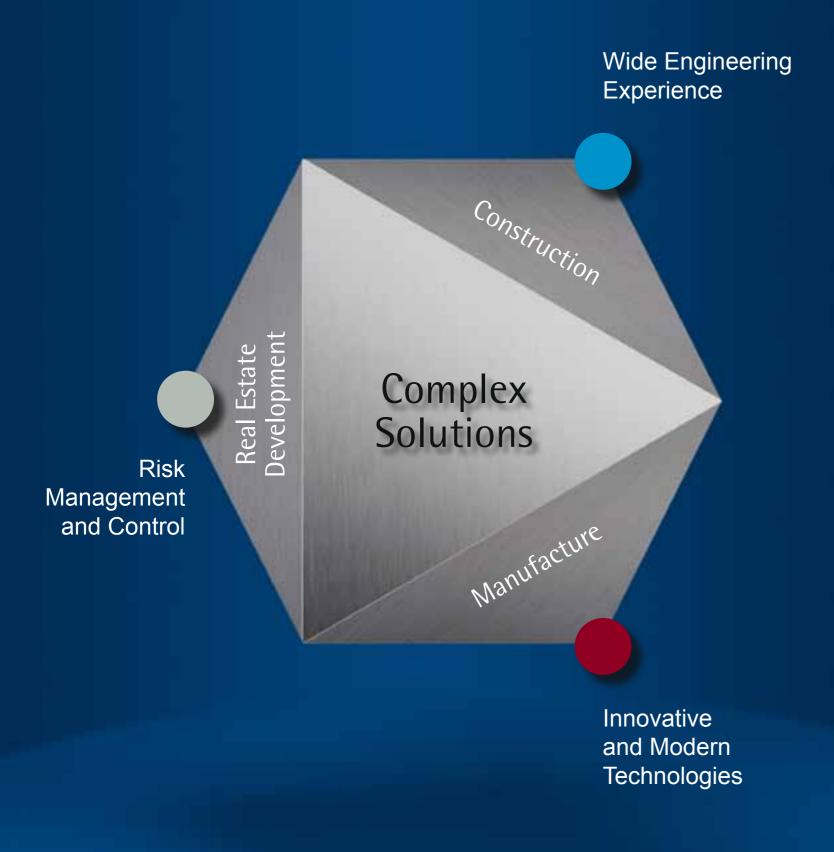
For instance, bridge and overpass construction projects have been carried out in Turkmenistan. We co-operate with the companies Ilim and Sveza, which are market leaders in the Russian timber industry, and we are

manufacturing equipment for processing and transportation of timber for them.

Another partner of ours is Sukhoi Aviation Corporation (Moscow), for whom we are conducting tests of a glider, units and sample composite materials for the Sukhoi Superjet 100.

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# Strategy



#### Clients' Benefits

- **>** Complex solutions
- ➤ The quality of manufacture and construction
- ➤ Timely order completion
- > Efficiency and financial guarantees

The synergy of production companies of LNK Group Holding, united management and thorough expertise enable us to offer our customers complex and, therefore, optimal solutions and to carry out projects from project design to completion and further maintenance entirely by ourselves.

The ISO quality control systems operating at the main enterprises of the holding guarantee the highest standards of production and construction in each standalone enterprise and in LNK Group as a whole. A united vertically integrated management system in LNK Group ensures maximum control over the fulfillment of orders and projects, which enables us to minimize risks and meet deadlines.

Due to diversification of activities in the framework of a multifarious holding and financial stability, LNK Group offers its clients a single financial guarantee for project implementation. In its turn, expense monitoring and comprehensive accounting management provide a basis for keeping strictly to the established estimate and minimizing cost.

# History

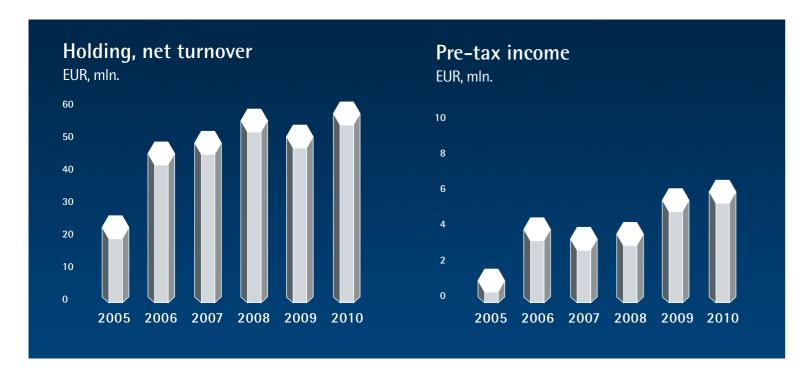
The Group Management In 1988, Aleksander Milov, Ph.D. Eng., founded a scientific and manufacturing enterprise Latvnauchkomplex, afterwards renamed Latvijas Novitates Komplekss (Latvian Innovation Complex).

In the subsequent five years the main nucleus of the holding companies was formed. Later, new enterprises were set up and the existing ones were perfected. Since its very beginning the main priorities for LNK Group have been production, construction and technical engineering projects as well as the strategy of complex approach to project fulfillment.

The wide ranging experience and expertise of LNK Group employees made it possible even at the initial stage to organize design and production of specialized testing units for R&D laboratories, to apply the state-of-the-art automation systems and information technologies. Simultaneously, construction (primarily bridge construction) and other engineering projects were developed.

Nowadays, LNK Group works mostly in the following areas: production and engineering, construction and real estate development. The distinguishing features of our work ethic are the search for creative, intellectually and technologically efficient solutions for all projects we undertake and a sense of personal responsibility for the results.

# Facts and figures



## Structure

Group Management

- > Project management
- > Financial management
- Quality control

LNK Group has a classical holding structure, in which the managing company is the owner of production, service and control enterprises and which makes its profit exclusively on account of dividends. Vertical business integration, centralized coordination and functional versatility form the base for using mixed project groups, which is essential for implementation of complex projects on a turnkey basis.



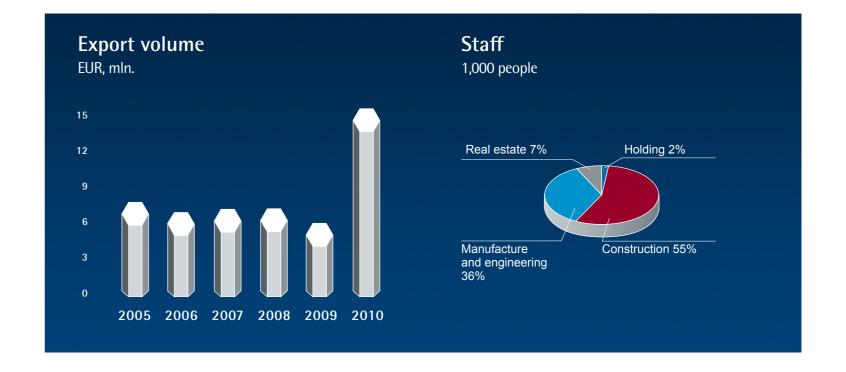
- > Engineering and design
- Metal structures
- > Reinforced concrete structures
- Conveyor and technological systems
- > Testing of aviation components
- Scientific competences

Construction

- Design
- > Civil engineering
- Industrial construction
- Infrastructure projects
- Hydrotechnical projects

Real Estate Development

- Development of business projects
- Development of residential projects
- Management and maintenance
- Lease of office, storage and manufacturing premises
- Investments



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# Management



**Artem** Milov Chairman



Vice Chairman of the Council

**Vadim** 

Milov



**Valery** Goryun Construction Department Manager



**Anatoly** Gubenko Production Department Manager



**Boris** Rozental Member of the Board Executive Director



Gegam Hanamiryan Development Department Manager



Sorokin Engineering and Testing Department Manager

**Alexander** 



**Evgeny** Lotsov Manufacturing and Construction Director



**Andrey** Suboch Financial



Legal Department Manager

**David** 

Lipkin



**Pavel Broitman** Commercial Real Estate Department Manager



Bocharnikova Residential Real Estate Department Manager

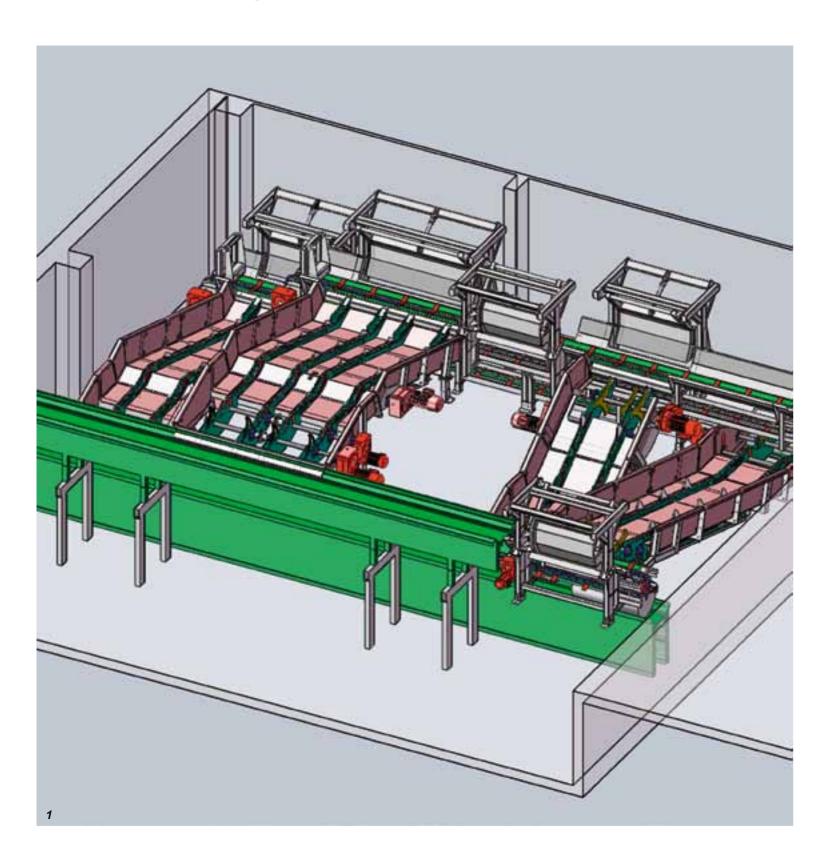
Alexandra

# MANUFACTURE AND ENGINEERING



- > Engineering and design
- ➤ Metallic structures
- > Reinforced concrete constructions
- > Production of conveyors and technological systems
- > Aviation units testing
- > Production of high-precision components
- **▶** R&D composite materials center

# Engineering and Design



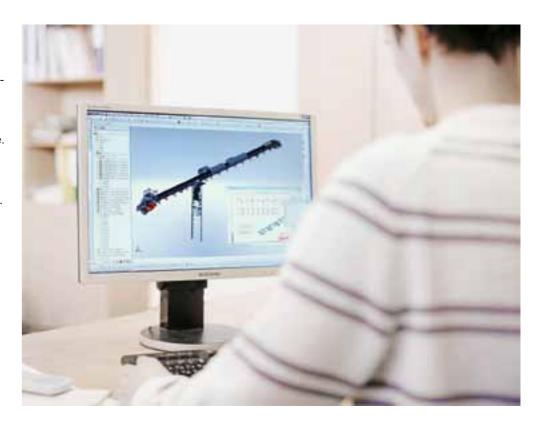


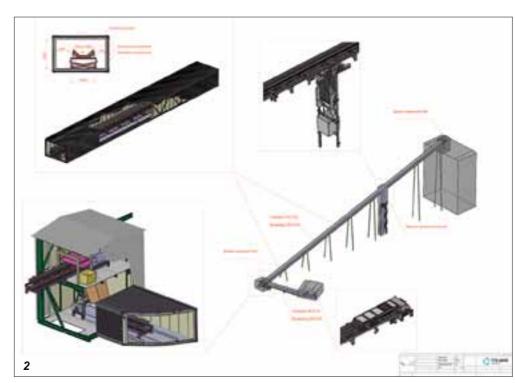
Production companies of LNK Group Holding have their own engineering and design departments, which ensure that design and project work is completed to the highest standard.

Our specialists received classical training in engineering and constantly upgrade their qualifications. In order to provide our customers with the best possible solutions the LNK Group staff carefully study current international trends in engineering and manufacture.

Modern automated systems, such as Solidworks and others, are applied in design.

Our own engineering and design potential enables LNK Group to solve problems and come up with original engineering solutions for every order, as well as to introduce amendments promptly at the stage of manufacture, thus improving the quality.





An especially valuable feature is the fact that the offered project solutions are coordinated at the site of application and are thoroughly scrutinized not only at the stage of production, but also at the stage of delivery, mounting and maintenance. This creates additional benefits and advantages for our customers, who can always trust that the project, once in operation, will function like clock-work.

sawing of logs, Syktyvkar Plywood Plant Ilim Group, Ltd., Syktyvkar, Russia Bratsk, Russia

1. Design of the section 2. Design of a belt conveyor system for

## Manufacture of Metallic Structures



Experience Expertise Inspiration

Metallic structures are manufactured in the production shops of LNK Group both for our own projects and are made to order for bridges, frames of marine constructions (wharves and piers), production facilities and civil engineering projects.

1. Trial assembly of port equipment at LNK Group premises

in Riga, Latvia

manufacturing plant 2. Mounting of the South Bridge structures

4. Production of conveyor bridges

The production facilities are located in Riga and encompass an area of 10,000 sq. meters. They boast modern welding equipment, including welding automatons, semi-automatons and robots, automatic metal processing and metal cutting machines, as well as large capacity painting and shot blasting chambers fitted with state-of-the-art equipment. We employ 50 welders with international certificates to carry out all demanding tasks.

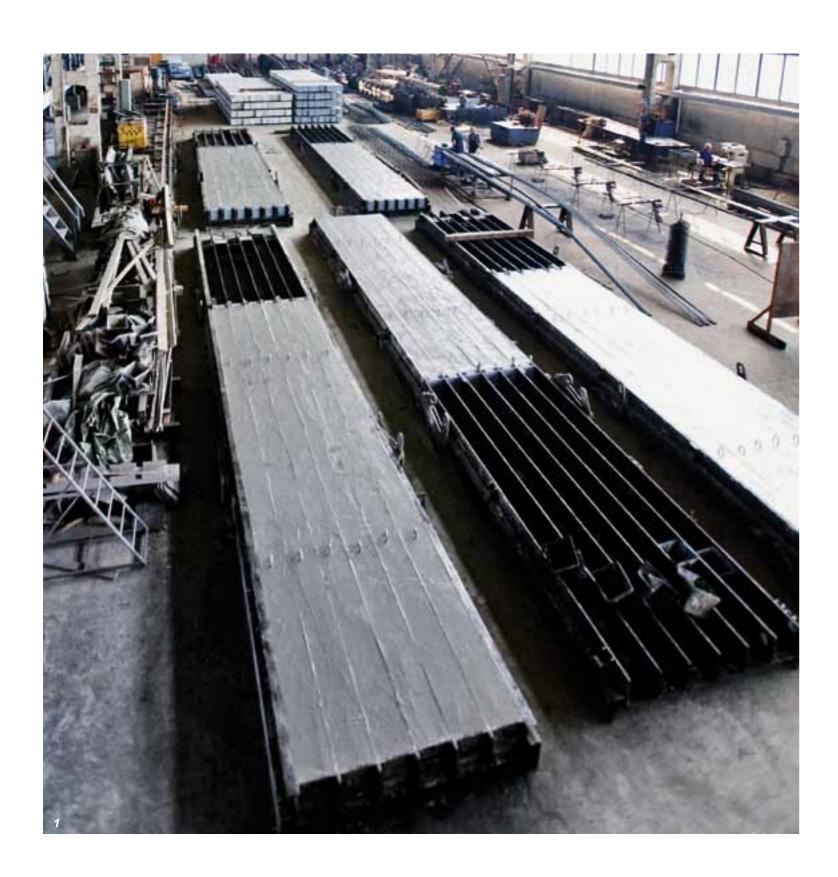
Production facilities have at their disposal cranes with hoisting capacity up to 30 tons. Railway spur-tracks with our own shunting engines and the proximity of motorways facilitate delivery of any products to the site. In particularly challenging circumstances, our specialists will run trials of mounting complex structures at the customer's site. This enables us to ensure precision and speed of assembly and to work out subtle details of the final assemblage.







## Manufacture of Reinforced Concrete Structures



Experience Expertise Inspiration

Production of reinforced concrete structures is the basis of modern building industry with regard to any construction project – infrastructural, industrial or public. Structures which have been prefabricated at a plant reduce the cost and terms of construction and mounting.

LNK Group manufactures reinforced concrete structures, both for its own projects and 5,000 sq. meters and have their own confor a wide range of standard products such as prism piles, panels and slabs for building and bridge construction. We also produce non-standard reinforced concrete structures, such as curbs, barriers, staircases, etc., and guarantee to manufacture any structure precisely according to the customer's specifica-

The production facilities take up an area of crete plant and a special specimen testing laboratory.

We have at our disposal equipment for manufacturing steel frame, casing for standard and non-standard reinforced concrete items as well as steaming chambers.

25 people are employed in production.

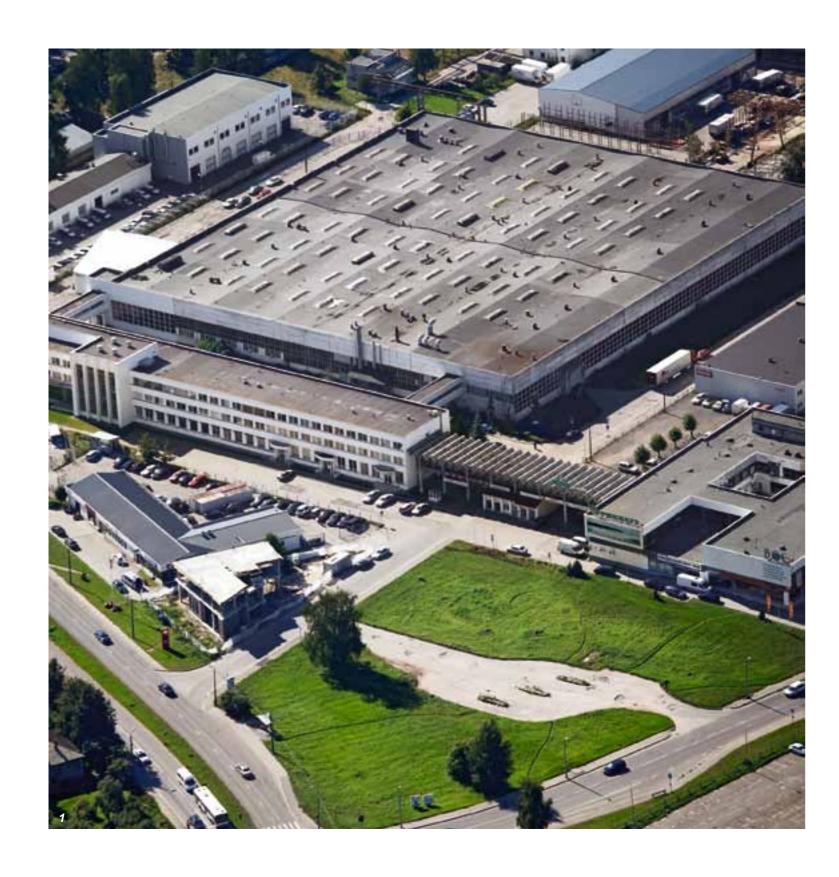






- 1. Prism pile manufacturing in the reinforced concrete structure shop
- 2. Reinforced concrete structures plant
- 3. Works at a pile field

# Manufacture of Conveyors and Technological Systems







Experience Expertise Inspiration

Transportation Technological Systems Plant in LNK Group produces a wide range of industrial equipment.

The plant produces hi-tech transportation systems for airports, sea ports and cargo terminals, equipment for timber processing, conveyor systems for the mining industry and electric power stations. The plant has a full production cycle from design stage to implementation of a customer's idea in metal. This allows us to introduce equipment that we produce into already existing technological production processes and ensure high

quality, reliability and durability. The plant has the capacity to solve technical and technological problems of any degree of complexity and can produce modern equipment that meets the highest international requirements. Exporting its products mostly into Western Europe and Scandinavia the plant deservedly became the nominated winner of 'The best exporter of the year among middle-sized and large Latvian enterprises'.

Our immaculate reputation is based on our traditions in design and production, which due to application of technological innovations and inventions ensure that our customers receive a full range of services in co-operation with the design and construction divisions of the holding.

- 1. LNK Group Transportation Technological Systems Plant
- 2. Indoor storage facilities for transshipment of coal

a coal terminal

- transshipment of coal 5. Scraper conveyor for pulp and paper industry 3. Equipment for
  - 6. Airport equipment

4. Belt conveyor for

mining industry







# Manufacture of Conveyors and Technological Systems



Experience
Expertise
Inspiration

LNK Group is the owner of Transportation Technological Systems Plant, which is situated in Riga and takes up an area of 20,000 sq. meters. The plant comprises production premises of 14,000 sq. meters in area and 12 meters in height.

The plant dates back to 1946, when production of equipment for ground maintenance of civil aviation was launched in Riga. The range of products manufactured here has expanded considerably since then.

Nowadays the plant employs 150 people.





We have the state-of-the-art high precision equipment for metal processing. During the assembly process plant products are provided with electric and hydraulic components and are equipped with automated control systems. The plant has introduced the international quality control standard ISO 90001:2008 and welding quality control standard DIN 18800.

- 1. Assembly of a plywood sorting station
- 2. Assembly of chain conveyor
- 3. Welding of a ship loading machine frame
- 4. Work in a painting chamber
- 5. 6. 7. Finished products in the production shop







# Manufacture of Conveyors and Technological Systems













- Sorting station
   at Fanplit JSC
   in Kostroma, Russia
- 2. Cut log transportation and sorting line at Syktyvkar Plywood Plant Ltd. in Syktyvkar, Russia
- 3. 4. A set of non-standard equipment at Perm Plywood Enterprise LLC in Perm, Russia
- 5. 6. Chip in-feed conveyor belt system at Ilim Group JSC in Bratsk, Russia

# Testing of Aircraft Components



Experience Expertise Inspiration

LNK Group benefits from having the only laboratory in the Baltics which conducts full-scale structural and service life testing of aircraft.







This unique laboratory has the staff of 40 people, among whom are PhDs, highly qualified engineers and other aviation specialists. The modern 2,000 sq. meter large laboratory conducts static, dynamic and fatigue tests of plane and helicopter units, as well as of airport equipment (aviation hydraulic jacks, torque wrenches, etc.), varied construction elements and other non-standard units.

The enterprise is fully certified to efficiently operate in Latvia, the European Union and the Russian Federation. Therefore, it is licensed to test equipment exported by Russia and operating on international airlines.

There is also a large market of customers in Europe. For instance, our laboratory actively participates in the European R&D project NICETRIP, the purpose of which is to create a prototype of a new generation helicopter - the so-called convertible aircraft. Over 20 European R&D companies and organizations, including the leading helicopter designers Augusta Westland and Eurocopter, take part in the program. Our laboratory is carrying out tests on the new helicopter blades.



- 1. Testing of Sukhoi Superjet 100 fuselage
- 2. Testing control systems
- 3. Testing of Sukhoi Superjet 100 wing components
- 4. LNK Group test laboratory
- 5. Testing of cargo helicopter MI-26T fuselage for service life extension

# Manufacture of High-precision Components



Experience Expertise Inspiration

The scientific experimental center, which is part of LNK Group, offers a full high-precision machining cycle of intricately-shaped components with dimensions up to 800x450x400, including 5-axle milling, lathing and erosion machining. The center uses up-to-date equipment produced in 2003-2005 by such manufacturers as Micron, Charmilles, Bridgeport automated by Erowa and DEA coordinate-inspection station. The manufacturing process ensures high precision (0.01 mm) and short-term recurrence of machining. The center manufactures components used in space, aviation and optical industries.





1. Optical industry.
Frame, Amg6
aluminium plate,
5-axle machining,
positioning precision
up to 0.01 mm

2. Aviation / space industry. Frame, AMg6 aluminium forging, 5-axle machining with Mikron HSM 600U

3. Optical industry.
Titanic frame, Amg6
aluminium forging,
5-axle machining with
Mikron HSM 600U

,
with 4. 5. 6. High-precision
Swiss equipment





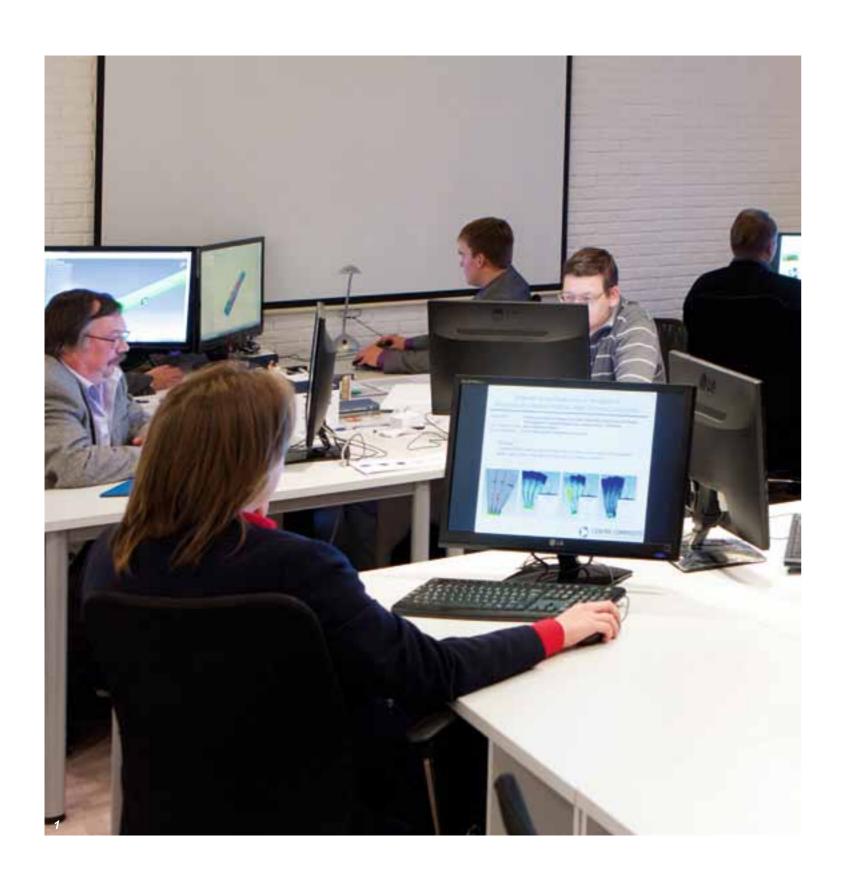
A pool of high-precision Swiss machining units provides for computerized quality new compount control systems, programming and simulation of machining, complete monitoring of all processes and final quality control, as well as issuing coordinate inspection reports.

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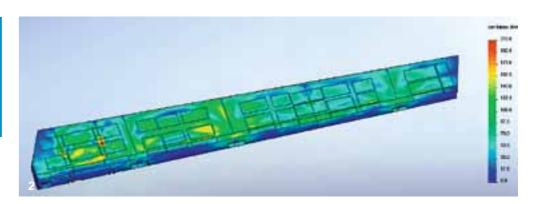
The center masters production of over 100 new components annually. The firm is a stable partner and permanent supplier of mass-produced components to the following defense industry enterprises:

Rocket and Space Corporation Energia CJSC, Russian Aircraft Corporation MiG JSC, MIL Moscow Helicopter Plant JCS, JSC Nizhny Novgorod Aircraft Building Plant SOKOL, Production Association Ural Optical Mechanical Plant FSUE, R&D Association State Institute of Applied Optics FSUE, Moscow Radio Communications R&D Institute JSC.

# Composite Materials R&D Center



Experience Expertise Inspiration



Centre Composite is a joint venture founded by the Latvian holding company LNK Group and a large Russian engineering and service company Progresstech.

The main line of activity is development of mathematical models for key structures in aviation equipment, nuclear engineering and other industries so as to determine their strength properties by computational methods.

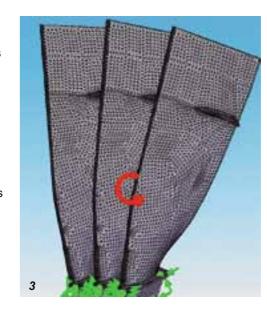
The main result of Centre Composite work is development and implementation of applied procedures for analysis of static and dynamic performance of structural elements made of composite materials on the basis of the world-wide state-of-the-art achievements attained in the area of heterogeneous structures mechanics and quantitative analysis methods, fulfillment of specific calculations and experimental tasks related to analysis and design of composite products, as well as follow-up issuing of design and certification documents.

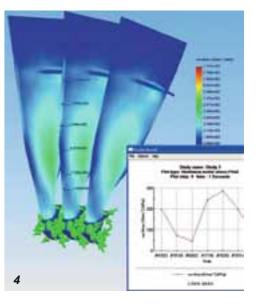
The staff of Centre Composite has participated in a number of European scientific research projects in the field of aviation. The work is carried out by experienced specialists with academic degrees, who proved themselves competent in the research of composite materials and structures. This enables Centre Composite to keep abreast of the latest developments in research.

Collaboration with Latvian universities makes it possible to recruit graduate and post-graduate students for work with a further prospect of their employment.

Together with Aviatest Scientific Research Center Centre Composite carries out experimental tests on specimens to determine physical and mechanical properties of laminated composite materials subjected to static and high-speed strength loading taking into account thermal effect, humidity and temporal factors, as well as provides computational and analytical support during in situ tests of composite material units and assemblies carried out by customers at regional testing facilities.

- 1. Scientific research center in Riga, Latvia
- 2. Finite element model of stress in the aileron
- 3. 4. Geometrical simulation and quantitative analysis of stress deformation in restored parts under real load



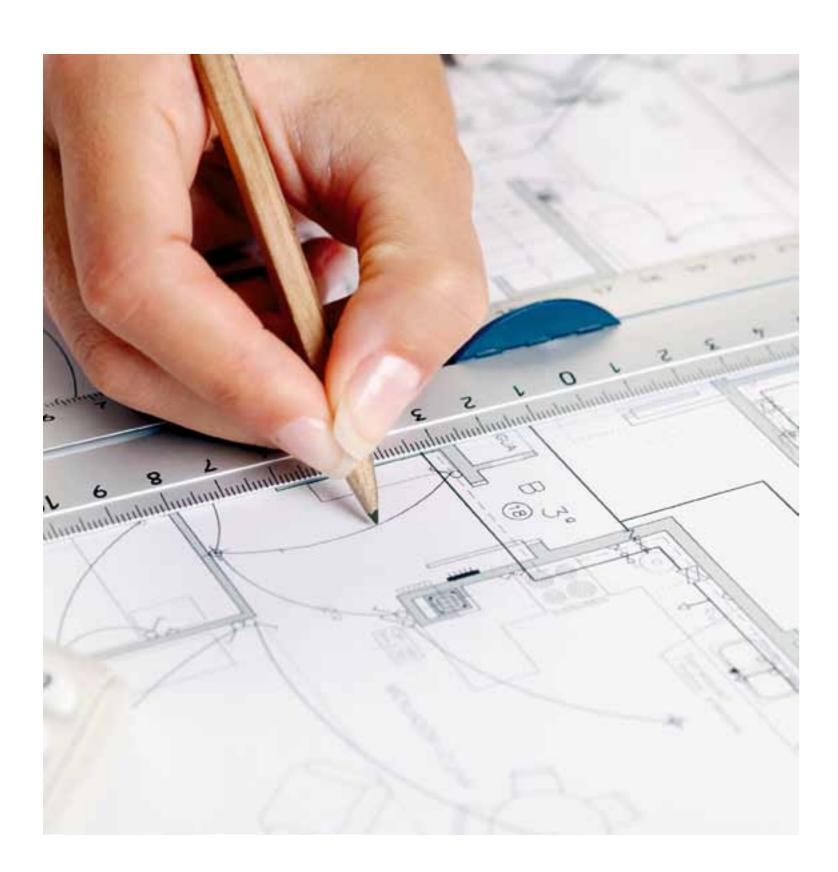


# CONSTRUCTION



- **>** Design
- > Technical supervision
- > Building machinery
- > Civil engineering
- > Industrial building
- **>** Dome structure warehouses
- **→** Infrastructure projects
- > Hydrotechnical projects
- ➤ Construction of terminals on turn-key basis

# Design



This specialized division of LNK Group provides a full-scale range of design services for the needs of the construction enterprises of the holding.

Experience Expertise Inspiration

Draft and technical projects are developed for every construction site and all necessary estimates concerning structural integrity are calculated. Computer systems and software are employed to produce drawings, blueprints and project visualizations. The know-how in modern building technology and experience gained by our designers play an important role. They make it possible to optimize projects at the very initial stages of development, to audit them, to reduce the time of construction and cut down expenses. In addition, our specialists follow

implementation of projects from start to finish in close collaboration with contractors, which speeds up the solution of complicated issues and diminishes the possibility of mistakes at the building stage. Original LNK Group projects are characterized by functionality, are well thought out, meet requirements of ergonomics and energy efficiency, and present an innovative approach to solving any problem. And we never compromise on quality and reliability of load-bearing frames and structural constructions of buildings.

LNK Group specialists are fully certified to design infrastructure projects (bridges, overpasses, sea constructions), industrial sites (production shops, warehouses, silos, bunkers, etc.), auxiliary technological equipment (hoisting gear, transportation systems, etc.), as well as civil engineering projects (office buildings, apartment buildings, multifunctional centers, etc.). In order to implement modern architectural projects at a high standard LNK Group have strong links with leading Latvian architects.







# **Technical Supervision**



LNK Group specialized technical supervision and project management enterprise is an important chain link in the construction cycle.

Technical supervision is a key component in the package service strategy offered by the holding: we begin with the objective set by the customer to find optimal solutions for every particular project. This encourages us, on the one hand, not to stick to stereotypical approaches and to offer creative alternatives that save the customer's time and money. On the other hand, a conservative controlling structure constantly keeps watch over standards and reliability, quality and durability.

The enterprise employs highly-qualified specialists: certified construction inspectors and project managers.

LNK Group has been recognized in many types of construction and erection works as the most competent enterprise to provide services in technical supervision and quality control in Latvia, not only within the holding itself, but also under contracts to other leading Latvian construction companies.



## **Construction Machines**



LNK Group owns a stock of construction and auxiliary machines, which ensures an uninterrupted production process and optimizes the expenses.

Experience Expertise Inspiration

LNK Group has at its disposal its own concrete plant and over 100 units of mobile machinery: concrete scrapers, concrete pumps, mobile and stationary cranes, pile-driving machines, bulldozers, excavators, prime movers, specialized transportation platforms, etc. Many of these machines are rare and unique in the Baltic countries. The high-capacity machinery stock guarantees that LNK Group fulfills its responsibilities concerning quality and terms of work whilst complying with ecological requirements and economically using resources.

All LNK Group machines are fully staffed with highly qualified operators capable of working in a three-shift mode.

Our own construction machinery fleet gives us a strong competitive edge and our customers can depend upon us to fulfill their orders in short terms, with lower expenses and as contractors we keep our promises! Therefore, LNK Group constantly upgrades its technological capacities; during the past five years over EUR 5 mln. has been allocated for these purposes.



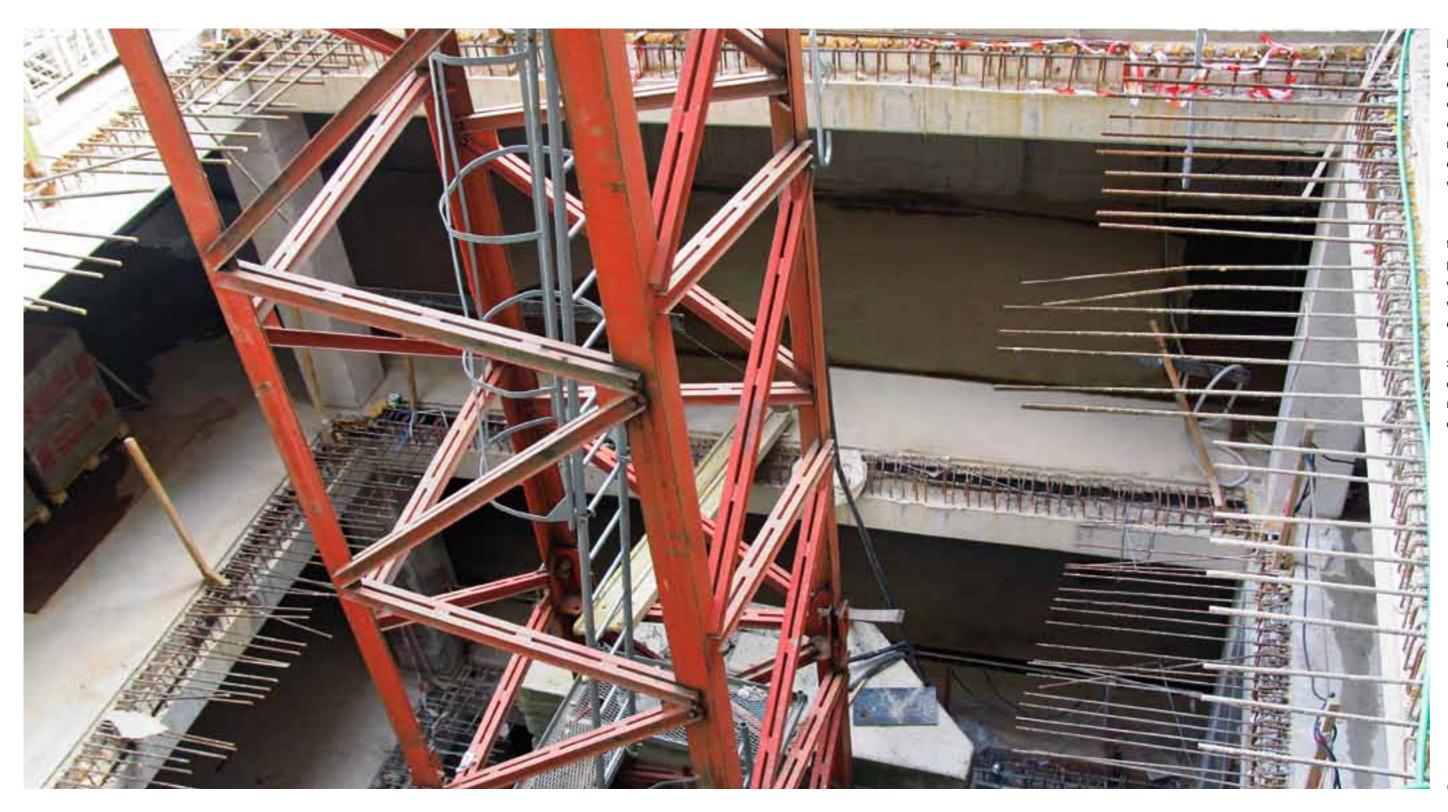


- 1. Mobile cranes
- 2. Pile-driving equipment
- Construction machines
- 4. Trucks
- Hydrotechnical Equipment





# Civil Engineering



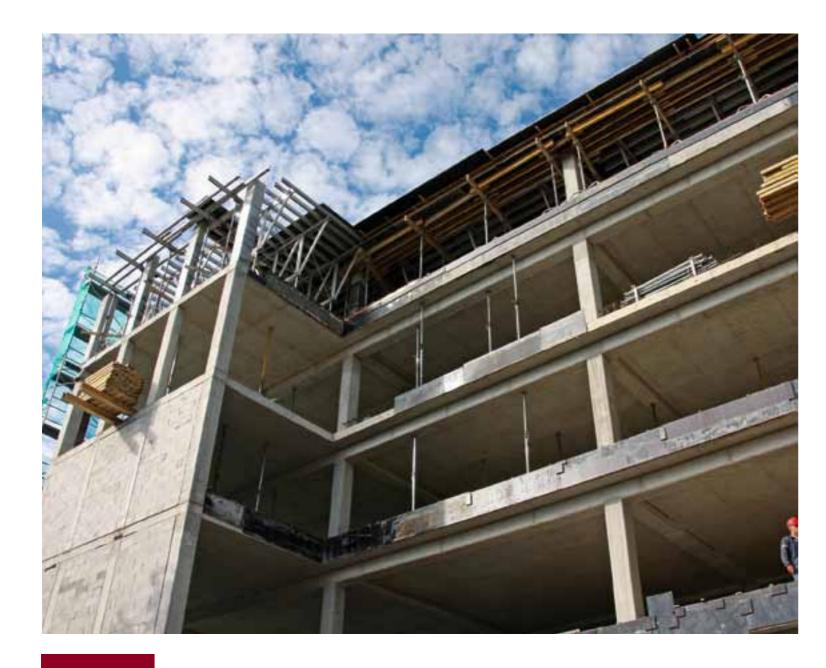
LNK Group companies ensure the full cycle of construction including research and development, binding to the infrastructure, construction up to full completion and certification with inspection agencies. Our project management system and quality control ensure the fulfillment of our responsibilities with top quality and punctuality.

We cooperate with the best Latvian architect teams when we design our construction projects. The architects work in close contact with our designers and planning specialists, which enables us to achieve high quality and elaborate project solutions.

Special attention is paid to energy efficiency of buildings. For this purpose we apply a number of technologies, both foreign and of our own inventions.

The first 18-meter deep multi-storey underground car park in Riga. Latvia

## **Civil Engineering**



Experience Expertise Inspiration

The construction companies of LNK Group enjoy a high reputation in Latvia due to fulfillment of numerous large projects significant both for the country and the city of Riga.

We were the first in the Baltic countries to implement a number of new engineering solutions both in design and construction as well as in reconstruction of public, office and residential buildings. Many of our projects have been given awards and professional prizes as the best in the country. Among the numerous recent civil engineering projects

we can single out an A-class office building Alojas Biznesa Centrs in the center of Riga, which now houses the Baltic headquarters of Nordea Bank, where for the first time in the history of Latvia in conditions of dense city development we built a three-storey 18-meter deep underground car park.

Among shopping malls built by LNK Group companies (and there have been 6 projects with the total area of 35,000 sq. meters) we can single out an elegant building of Mercedes Center in Latvia, where all decorative metal structures were manufactured at our own enterprises of LNK Group.

- 1. Business Center, Old Riga, Latvia
- 2. Apartment Building, Jurmala, Latvia
- 3. Sport center, Riga, Latvia
- 4. Mercedes Benz Center, Riga, Latvia

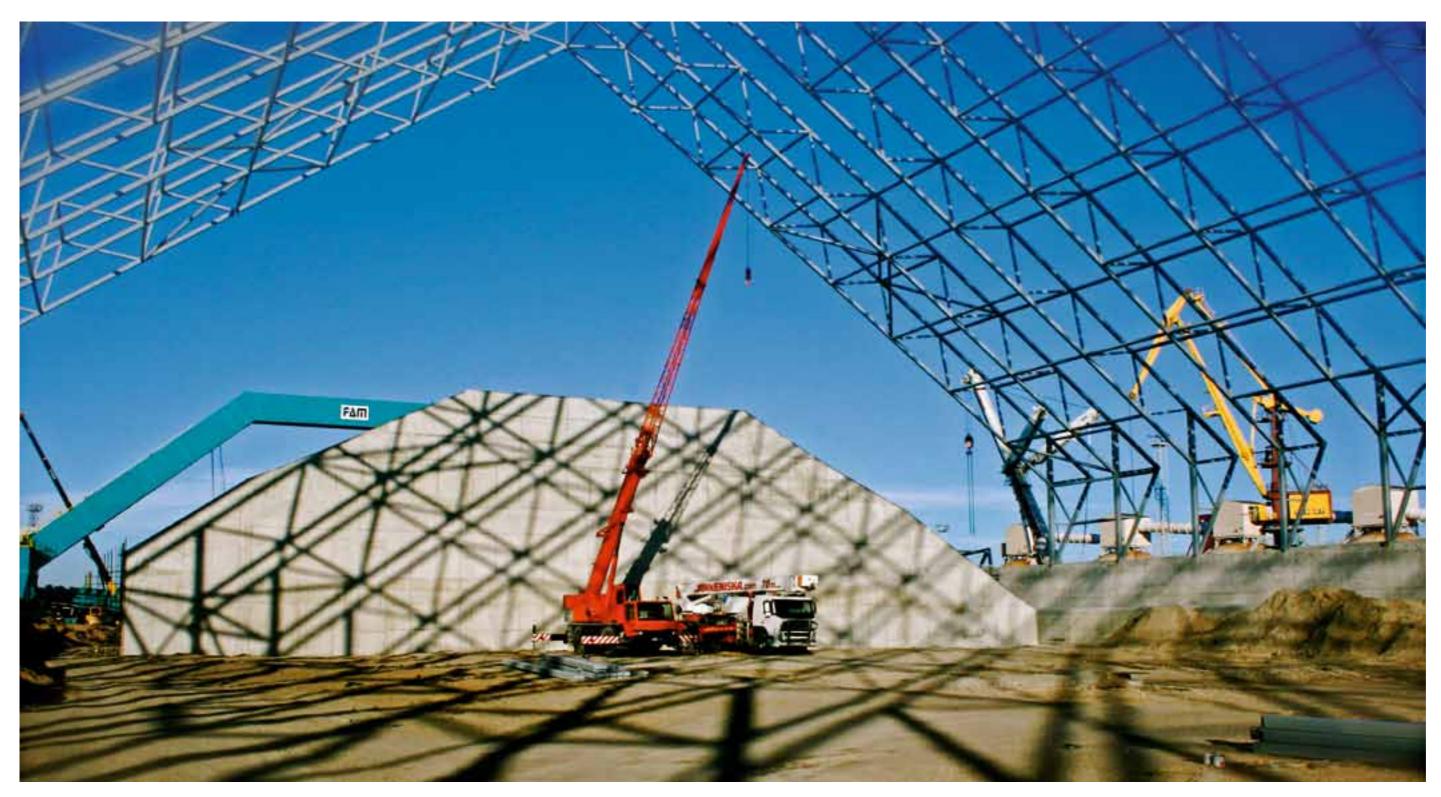








# Industrial Construction



With design and research laboratories, production of metal and reinforced concrete building structures, a fleet of machinery as well as technical supervision and project management teams at its disposal, LNK Group successfully carries out large industrial projects. We offer our customers the full cycle of construction of such projects including binding to the infrastructure and, if necessary, mounting production equipment and certification in inspection agencies. The list of our finished projects includes different types of plants, industrial parks, terminals, office buildings and other projects.

Construction of a 50-meter high and 30,000 sq. meter large warehouse for coal transshipment in Ventspils, Latvia

#### **Industrial Construction**



Experience Expertise Inspiration LNK Group has built the lightweight concrete block plant PORIBET AEROC, has also undertaken the supply and installation of complex technological equipment, provided all the necessary communications and access roads.

Baltic Industrial Park has a number of buildings - specialized warehouses, manufacturing and office facilities. Specific requirements were coordinated with potential lessees at the design stage to ensure necessary storage and handling conditions in the warehouses, as well as the technological requirements of manufacturing facilities.

- 1. Aeroc plant in Salaspils, Latvia
- 2. Baltic Industrial Park in Riga, Latvia



While building the Cemex plant LNK Group was the first in Latvia to use the climbing shuttering technology with continuous concreting, which made it possible to build a 60- meter tall tower in 22 days.

At Getlini garbage processing and storage site we were the first to put into practice the technology of using biogas as a source of energy. Our engineers suggested erecting a special compact clay sarcophagus with a system of pipes over a landfill with garbage to collect gas emitted by rotting organic waste and then burn this gas in a special generator to produce heat and electricity.

Besides the remarkable projects mentioned above LNK Group has built other industrial complexes that successfully operate for the benefit of this country.





- 1. Cemex plant in Broceni, Latvia
- 2. Industrial park in Vangazhi, Latvia

3. Household garbage landfill Getlini EKO in Rumbula, Riga, Latvia

# Dome Structure Warehouses



LNK&PIRS Group is a contractual company of LNK Group holding and the French company PIRS. The company PIRS has many years of unique for Europe experience in designing and managing construction of dome structure warehouses.

Dome structure warehouses have an indisputable advantage over warehouses of traditional shapes as storage facilities for homogeneous loose goods. In addition, a dome shape of the edifice is optimal for loading/unloading when the loading mechanism of the conveyor system brings cargo to the upper part of the dome, while unloading mechanism of the conveyor system carries it through hatches in the floor and special tunnels directly to transportation means (a vessel, a railway car, a truck, etc).

During construction work of a dome-shaped warehouse responsibilities are delegated in the following way: the company PIRS carries out design work, supplies some specific materials and special equipment for the dome construction, as well as exercises engineering control of the whole project.

LNK Group construction enterprises carry out all general construction works including foundations, floors as well as reinforcing and concrete casting of the dome structure.

Two 50,000 cubic meter capacity dome-shaped warehouses in Nikolaev, Ukraine

# Infrastructure Projects



One of the strategic directions in LNK
Group operations is completion of large
infrastructure projects on a turnkey basis.
The synergy of co-operation of numerous
holding enterprises under the united
management enables us to succeed in
solving the most challenging technical and
organizational issues to the benefit of our
customers and the entire community.

We are ready to provide a whole range of services from assistance in acquiring a plot for development and getting a loan to fulfillment of prospecting and design work and the full construction cycle.

LNK Group gained the reputation as a leading design and construction enterprise in building bridges, overpasses, hydrotechnical projects including marine construction (piers and wharves), as well as in construction and complete reconstruction of different port terminals - both cargo terminals for unloading and processing of loose and fluid cargo in bulk, and passenger terminals.

Trestle bridges of the second sequence of Southern transportation system in Riga, Latvia

### Bridges and overpasses





LNK Group bridge building company is proud of its more than 70 years of history. All of the bridges across the Daugava River in Riga, including the renowned Suspension Bridge, can be considered as the face of the company.

Over the decades our bridge builders completed more than two thousand projects in different countries of the world: Angola, Afghanistan, Belorussia, Vietnam, Yemen, Latvia, Lithuania, Moldova, Russia, Turkmenistan, Ukraine, and Estonia.

In 2010, the bridge building company of the holding set up its branch in Turkmenistan and commenced building a modern 400-meter long overpass in the resort Avaza. The construction work on the site was finished in May 2011.

Besides, in 2009-2010 our bridge builders completed reconstruction of the only drawbridge in Latvia in Ventspils across the river Venta. In the course of the construction, we designed and manufactured a drawing



- 1. Bridges across the Daugava in Riga, Latvia
- 2. The Drawbridge in Ventspils, Latvia
- 3. The pedestrian overpass across Via Baltica motorway in Bergi, Latvia
- 4. Construction of an overpass in Turkmenbashi, Turkmenistan

device which moves 140-ton heavy spans with the highest precision.

Since 2009 LNK Group has been an official representative of Freyssinet and our specialists have been certified by this company to carry out work with pre-tensioned monolithic reinforced concrete structures and installation of suspension systems.

The industrial base of the bridge building company in Riga district takes up 20 hectares, which accommodate a concrete plant, a reinforced concrete structure production shop, a building laboratory, a metal bridge structure production shop. The company also has its own stock of machines and repair workshops for their maintenance.





## The South Bridge in Riga







From 2004 to 2010 the bridge building company of LNK Group holding as a general contractor carried out the 1st and 2nd stages of the South Bridge transportation system in Riga, the largest construction project in the modern history of Latvia.

The South Bridge is a 7 km long transportation system (the bridge itself and a modern 3-tier overpasses system inclusive). The bridge and the trestle structure is made of pre-stressed concrete; the bridge is 803 meters long and 34,28 meters wide, with 9 spans and 3 lanes of traffic in each direction. The trestles are 1896 meters long.

The movement of city traffic on streets adjacent to the bridge never stopped even for a day while trestles were being built.

The company also was contracted to complete works on the Southern transportation system. The 3rd stage comprises building a motorway with a two-tier intersection and car tunnels on the left bank of the Daugava. The work is scheduled for the year 2012.







# Hydrotechnical Projects



LNK Group carries out a full cycle of works on hydrotechnical projects. Our specialists are properly licensed and have experience in both design and realization of projects. The company undertakes all kinds of hydrotechnical projects including construction of berths, all kinds of piers and deep-sea offshore pier constructions.

Up-to-date floating craft and rigs, powerful cranes, pile-driving vibrators and hydraulic hammers guarantee successful completion of work.

We have gained considerable experience from the projects we have completed in Riga, Ventspils and Klaipeda.

Construction of a ferry termi n Klaipeda, Lithuania

# Construction of Terminals on Turnkey Basis



The availability in the framework of the Holding of special design, manufacture and construction facilities including manufacture of metallic structures, reinforced concrete structures, hydrotechnical, industrial and civil engineering, manufacture of conveyor technological systems as well as experience in design in all of the above-mentioned areas enables us to offer a new and unique product – commercial implementation of the project – all kinds of terminals on turnkey basis.

We have recently completed the erection of one of the most advanced coal terminals in Europe with capacity of 6 mln. tons per year. It consists of a warehouse with an area of 30,000 sq. meters and a height of 50 meters, a 4 km long transportation system that connects the warehouse with a ship-loading machine and a wharf as well as a 300 meter long deep-water pier. The terminal technology allows transshipment of 400 carriages a day under any weather conditions and the cargo is transported entirely by indoor method, which complies with the requirements of environmental protection.

We have completed or are finishing such projects as a coal terminal in Ventspils, a quicklime transportation terminal in Liepaja, the Alfa Osta fertilizer terminal in Riga, a cargo and passenger terminal in Klaipeda.

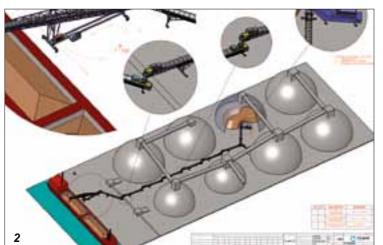
Baltic Coal Terminal in Ventspils, Latvia

#### **Construction of Terminals**



Experience Expertise Inspiration

LNK Group specializes in design and construction of modern automated port terminals for all kinds of cargo: loose and fluid cargo in bulk, containerized, chemical.



- 1. 2. Design and construction of fertilizer transshipment terminal for the company Riga Fertilizer Terminal in Riga, Latvia
- 3. 4. Design and construction of a ferry terminal in Klaipeda, Lithuania

Within the framework of our own general contractor- LNK Industries – we can offer our clients both an entire complex of marine engineering, construction of all types of aboveground facilities, warehouses, offices, etc., and manufacturing of systems that encompass the entire complex of loading/unloading work: from a railway car to a warehouse to a vessel in reverse mode for all kinds of goods.

- 5. Design and construction of a quick-lime transshipment and storage facilities in Liepaja, Latvia
- 6. Potash fertilizer terminal Alpha Osta in Riga, Latvia









# REAL ESTATE DEVELOPMENT



- **>** Commercial projects
- > Residential projects
- > Management and maintenance

# The Philosophy of iQ Projects



Experience Expertise Inspiration iQ projects is a brand name under which LNK Group real estate development department has been successfully building and developing industrial, trading, office and residential projects for further lease and sale.

#### Intellectual Quality

iQ usually stands for «intelligence quotient». For us this abbreviation means «intellectual quality», first and foremost because LNK Group companies were founded more than 20 years ago by scientists and engineers. Since then scientific approach and innovative policy have remained as guidelines in our activities.

The attitude towards selection of accommodation and premises for lease has changed as the demands of customers have considerably grown and quality is in the forefront.

There are numerous professional nuances and success is in attention to detail. Intellectual quality means that a building is designed and built with optimum efficiency, i.e. it has a convenient modern layout, utility rooms, fitted-in furniture, carefully considered lighting, improved thermal and sound insulation, ecologically clean materials and many other factors.

#### Mission

We consistently and responsibly adhere to the high quality standards we set ourselves and offer the best possible. We erect buildings for people to enjoy living and working in for years to come. We take good care of our clients' well-being and quality of life, consider potential uses of our elaborately designed and constructed buildings, where ecologically clean construction materials guarantee safe and healthy environment. We strive to achieve maximum comfort at minimum cost.

#### Quality and Responsibility

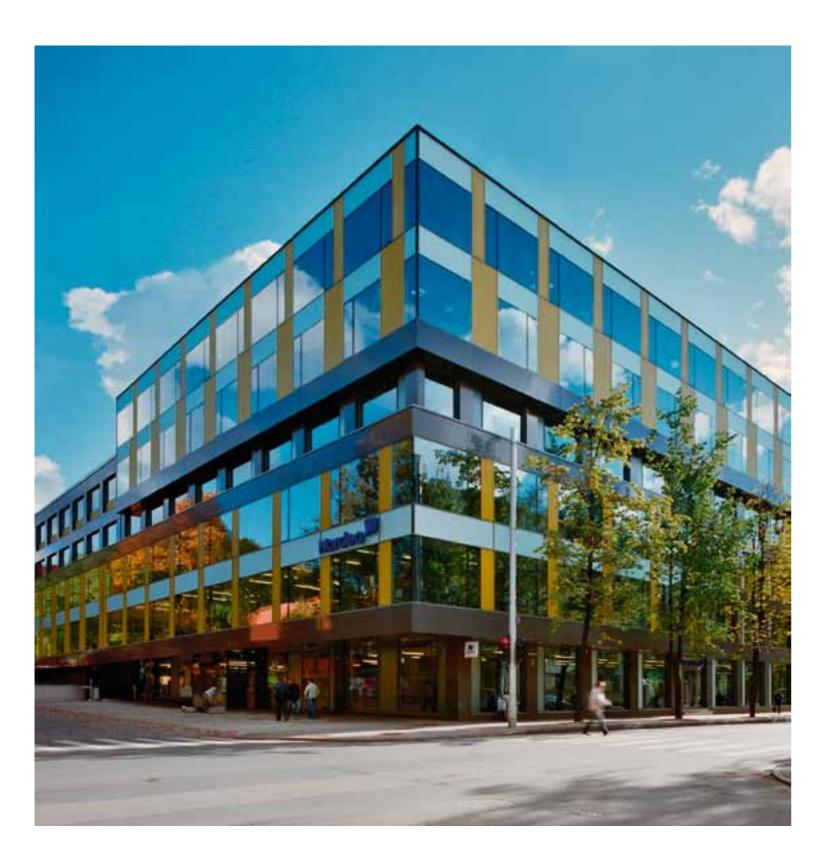
Whatever Class a house belongs to, it still has an eternal value. A house is built for centuries to come and, therefore, scientifically based calculations, sturdy foundations, walls and a roof, reliable hydro and thermal insulation are a must.

These key issues are solved at the stage of design. Any class building construction is carried out by LNK group own companies thus ensuring consistently high quality. In order to fulfill all the work on time, with good quality that corresponds to the set standards we work at the project from start to finish, from a concept and design to commissioning the project and to further maintenance of the building. We never try to save at the expense of quality and we do not compromise for the sake of lowering the budget.

#### Teamwork

A comprehensive approach of the iQ-team makes it possible to always meet the dead-lines. At every stage of construction an optimal number of people should be involved. Only a large enterprise which employs a lot of specialists can afford it. LNK Group is proud of its staff of highly qualified designers, builders of all trades, technical supervision inspectors and maintenance specialists.

# Commercial Projects



Experience Expertise Inspiration

Alojas Biznesa Centrs project has received Green Certificate for compliance of the building with all ecological and energy saving standards.



A Class "A" office center Alojas Biznesa Centrs is one of the most up-to-date commercial projects in Riga.

The advanced architectural and technical design resulted in high degree of natural lighting and free module layout. It embodies the majority of new technologies of automated building management and energy efficiency, which considerably cuts the expenses on building maintenance





Alojas Biznesa Centrs business center at 62 Kr. Valdemara Street, in Riga Latvia

It is an A-class office building with a total area of 10,000 sq. meters, 9,000 sq. meters of lease space, and a 5,000 sq. meter large three-tier underground car park for 180 cars, which was commissioned in May, 2009.

## **Commercial Projects**



#### Darzciema Biznesa Centrs business center

at 60 Darzciema street, Riga, Latvi

Biznesa Centrs is a B-class office building with the total area of 6,000 sq. meters with a parking lot for 100 cars.

The center is in Purvciems district of Rigar in close proximity to the South Bridge.

#### Mukusala business center at 6 Biekensalas, Riga, Latvia

The center is in Pardaugava district of Riga, near the Island Bridge. The total area of the buildings is 11,000 sq. meters.

There is a guarded parking lot for 200 cars.





## Sporta Residence business center

at 7 Sporta Street, Riga, Latvi

is the headquarters of LNK Group in a quiet neighborhood in the center of Riga. The area of the building is 550 sq. meters and it has 10 parking spaces. The building was reconstructed in 2010 and the state-of the-art building management and climate control systems were installed.

## Alojas Residence business center

at 6 Alojas Street, Riga, Latv

with a parking lot for 35 cars in the very center of Riga with a fenced-in and well-kept territory. The building has central heating with an autonomous heat producing system.



#### Dienvidu Varti business center at 74 Darzciema street. Riga. Latv

architectural style with the total area of 12,000 sq. meters is favourably located nea the South Bridge and has convenient acces roads. Currently at a design stage, it will be provided wih building and climate control systems.



## Dienvidu Varti II business center

A B-class office building with the total area of 8,000 sq. meters and an underground capark for 160 cars is at design stage.



#### Hanzas Residence ousiness center

at 2a Hanzas Street, Riga, Latv

building with a parking lot for 30 cars and its own garden is a unique historical building in a quiet neighborhood in the center of Riga. A complete reconstruction of the building is planned to be carried out in 2011-2012.

## **Commercial Projects**



#### Baltijas Industrialais Parks Industrial park

at 7 Piedruias Street. Riga. Latvi

The complex leases out high tech production and storage premises as well as modern offices with a total area of 10,000 sq. meters.

Well-developed infrastructure of the district, convenient access roads as well as amenities and security guards on the territory make Baltijas Industrialais Park a good and easy partner for lessees.



#### Baltijas Logistiskais Parks at 15 Granita Street, Stopinu District,

A Class "A" technological park with manufacturing, storage and office premise of a total area of 35,000 sq. meters located on a 10-hectar plot of land.

It is at a design stage.



## Shopping mall Optima at 62a Kr. Valdemara Street,

The 2,200 sq. meter large shopping mall Optima is in the center of Riga. Among the lessees are such shops as SuperNetto, Tabakas Nams, Santehnikas Meistars and other well-known chains. The shopping makes a parking lot for 60 cars.

LNK Group has historically emerged as one of the major players in Riga commercial property market. We develop commercial projects ourselves according to our vision of the future of the city and the country.

Creating new projects we strive to take into account the demands of our prospective lessees concerning layout, logistics, lighting,

heating, etc. When we develop commercial projects in historical buildings, we first and foremost try to combine eternal values with modern technologies in thermo and energy efficiency.

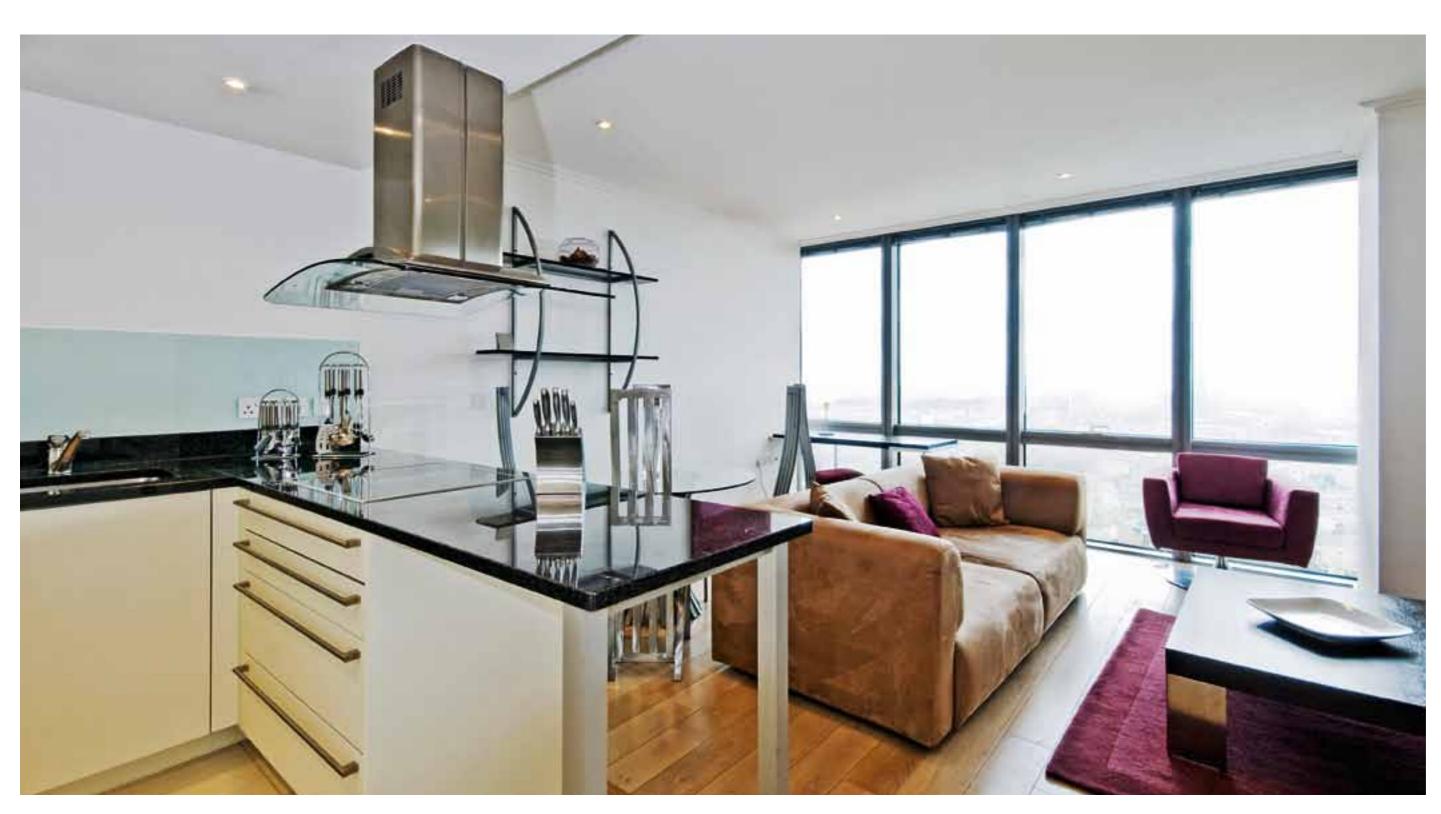


#### Shopping mall Optima Sarkandaugava

at 62a Tilta Street, Riga, Latv

of 1,400 sq. meters and a parking lot for 30 cars.

# Residential Projects



LNK Group develops "premium", "business" and "comfort" class residential projects.

Each project, at every stage of its development, is carried out by the companies of the holding, which allows us to strictly control the quality and be fully accountable to our customers.

All projects of LNK Group are distinguished by their modern architecture, well considered layouts and fine technical solutions as well as high quality of construction and finishing work. The buyers of the property in our buildings are provided with a comprehensive guarantee for all the works completed.

### **Residential Projects**



Experience Expertise Inspiration

Our portfolio contains more than 10 such projects. Part of them are at the design stage, but more than half have been completed. The differences in project classes are determined by our perception of an end customer in a specific project as well as our forecast for demand in middle-term prospects of market development. The defining criteria are the location, size and layouts of apartments, finishing materials, as well as basic and additional amenities offered to customers.



Zaubes nams







at 18 Lielunes Street Jurmala Latvia

tial building in a
e center of Riga
out apartments
ve fitted kitchen
utility rooms, built-in
ground garage for

A comfort class 18-apartment residential
building in a quiet wooded neighborhood in Jurnala in Jaundubulti, 800 meters away
from the sea with full finishing, rational
layout, an underground garage. The build
was commissioned in April 2008.

#### Kaleju nams

at 39 Kaleju Street, Jurmala, Latvia

is a 9-apartment comfort class building in Melluzhi, which is a 15 minutes' walk from the sea. The building with full finish, rational compact floor plans, fitted-in kitchen furniture and equipment was commissioned in May

Projects of all classes are carried out with equally high quality of work and correspond to the long-term nature of investment in real estate. This has been repeatedly confirmed by the assessment of our projects given by both independent experts and buyers. The quality alongside a flexible approach to demands of the market enabled the holding to become one of the leaders in this branch of industry in Latvia and resolutely continue work in residential property development even in crisis conditions; looking ahead and making plans with confidence.









#### Muizas nams

at 11 Muizas Street, Jurmala, Latvia

A residential business-class 60-apartment building project in a quiet upscale neighborhood of Bulduri in Jurmala.

Apartments with full finishing, fitted kitchens and equipment and an underground garage. The project is at a design stage.

#### Gertrudes nams

at 11 Gertrudes Street, Jurmala, Latvia

A 20-apartment comfort class building project in a quiet wooded neighborhood in Jurmala in Melluzi, one kilometer away from the sea and a river. The building with full finishing, rational layout and a parking lot for 18 cars is due to be commissioned in July

#### Darzciema nams

at 24 Strautu Street, Riga, Latvi

s a 40-apartment comfort class building project in a quiet green neighborhood of parzciems. The building with full finishing tted kitchens and an underground garags at a design stage.

# Management and Maintenance

Experience Expertise Inspiration

LNK Group set up a company for management and maintenance of real estate property within the framework of strategic direction of developing commercial and residential projects.

iQ Apsaimniekosana is an affiliated company of LNK Group and is engaged in economic servicing of commercial and residential projects we have built.

iQ Apsaimiekosana solves all administrative and technical issues in servicing these buildings. The company provides repairs during the defects liability period as well as scheduled and major renovations. Thus we keep high standards of accommodation quality and guarantee comfort of residents.

11 projects with a total area of 50,000 sq. meters owned by the holding are managed and serviced by this company.









# WE AND COMMUNITY



# We and Community





Experience Expertise Inspiration

LNK Group holding supports various good causes and public organizations ranging from Children's Hospital Foundation to sports federations.

LNK Group companies have long been engaged in charity work in different areas. We help children, people with special needs, render support to sports, education and culture, religious communities, ethnic minority groups and, of course, our company retirees.

LNK Group Holding is a stable and esteemed partner of non-governmental and governmental support programs. Over forty charity projects were accomplished only in 2009 and 2010. In order to pursue this activity more purposefully, in the autumn of 2010, LNK Group established a charity foundation Charity.lv, which unites the endeavors of the holding companies and ensures the best charity project management and their maximum efficacy.

The holding supports culture, science and education, as well as the development of a civic community by helping the Society of the Russian Theatre Guarantors, Association of Businesswomen, the magazine Lechaim, the Foundation of Riga Latvian Society and Development of National Culture.

LNK Group actively participates in Latvian sports by rendering support to the Gymnastics Federation, Latvian Boxing Federation and two boxing clubs, Latvian Swimming Association and the Nikar football club. In health care and social work the holding supports the Children's Hospital Foundation, donates funds to the charity website Ziedot.lv, Aid Association Palidzesim.LV, Martins' Foundation, Korifey Society, Jewish religious community Shamir, the Council of Jewish Communities of Latvia.













#### LNK Group Manufacture Engineering Construction Development Real estate Design Construction Restoration **Bridges Overpasses** Renovation Tunnels Hydro technical systems Foundations structures Metallic Reinforced concrete structures Technical SUPERVISION Control Project and financial control technical Non-standard equipment of quality systems systems Conveyor **Forklift** industry ports **Timber** Marine **Airports** testing helicopters Full-scale airplanes and components Production Managing systems equipment for Airport equipment Manufacture for Hydraulic Servicing technological and systems Servo electric Hydraulic Servo hydraulic and systems development Construction and Industrial Lease Buildings Commercial Office Sale Construction and development Residential **Projects Premium Business Comfort** servicing **Project** Household class

