



The
technological
solutions



Professional Vision

Ircon Design Bureau has focused its professional development in the area of design and consulting services for the investment realization of complex projects for industrial and public use. Our projects are based on engineering approach and integral process management.

We rely on highly qualified team of professionals, who have proven their skills in the long run. We at Ircon concentrate our efforts and address our activities entirely to Customer's support, while respecting moral standards and public regulations and implementing responsible professional behavior to the surrounding natural and social environment.

The main driving force in our business is the knowledge acquired through the sound professional tradition, scientific approach and modern computer technologies. We believe that striving for perfection is an endless source of energy and creativity.

Team

A highlight of Ircon projects is achieving interdependence and complexity of the offered architectural, structural and engineering solutions. Ircon Design Bureau operates with permanent staff and relies on the creativity of each employee. We work continuously to improve our professional skills and acquire new knowledge, as well as establish a well-balanced working environment for our staff.

Ircon has a permanent staff of major subject matter experts involved in the investment projects and cooperates with a selected number of prominent partners and reliable suppliers.

The Ircon team has successfully developed, implemented and certified ISO 9001:2008 Quality Management System.

Experience and specialization. Software and technologies

Ircon Ltd. is a bureau for complex design and engineering consultancy business specializing in projects of industrial and public use, steel constructions, infrastructure, engineering facilities and facade engineering. Our expertise includes:

- ✓ Projects of public and commercial use
- ✓ Industrial installations and industrial projects
- ✓ Engineering facilities and bridges
- ✓ Detailed design and CAD CAM technologies
- ✓ Facade engineering

In this presentation, Ircon Design Bureau would like to share with you, our present and future customers, its 17 years of experience in the realization of a great number of projects, both in the country and abroad.

Ircon strives to look far into the future, relying on the use of the most modern computer technologies towards its goal to offer a comprehensive and high quality expertise and consulting services. In order to realize our ideas in the field of investment projects in an effective and comprehensive manner, we use integral software environment for conceptual, technical and detailed design known as BIM (Building Information Model). Working with BIM enables us develop our projects in a virtual computer environment and synchronize all systems of the buildings or facilities that we design. Employing BIM enables us to perform an integral management of the processes related to designing, planning, production management, installation and construction, as well as to ensure the proper operation and maintenance of our projects. Using BIM makes Ircon's projects convertible and applicable worldwide. Our detailed design of steel constructions is the best developed branch employing BIM. It is based on the CAD technologies and has a CAM orientation to steel construction manufacturers.



Team



Industrial installations and industrial projects

The design of industrial projects requires an integrated approach, allowing us to meet the requirements of the leading technology, production cycle and project safety and security. Our experience, the use of modern technology and the employment of permanent staff operating in BIM* environment, enables us meet the challenges of industrial design and skillfully integrate in large cross-border projects.

** Integrated software environment for conceptual, technical and detailed design known as BIM (building information model).*



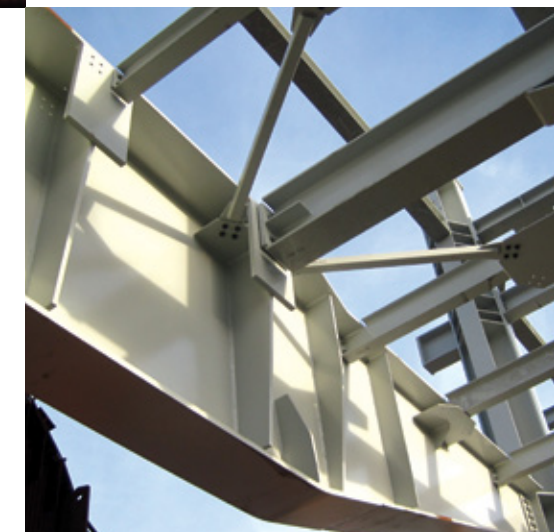
Industrial installations and industrial projects



New Lead Plant in KCM JSC – Plovdiv

KCM is a factory with a history of over 50 years, which produces various non-ferrous metals - lead, zinc, cadmium, silver and gold. In 2011 commenced the detailed design of a new high-tech and eco-friendly installation for lead production, which has been intended to meet all requirements for the release of harmful emissions into the atmosphere, while reducing production costs. The basis of the new production is the Ausmelt TSL-furnace, mounted in the installation, 55 meters high, together with the waste heat boiler for exhaust process gases cooling and steam production. A batch-preparation installation is a part of the NLP installation and consists of a multiple-bunker technological rack, belt dispensers and flexible belt conveyors. This installation performs the lead batch homogenization and its feeding into the TSL-furnace. The wet gas purification equipment and the facilities for sulfuric acid production comprise a complex system of tanks, equipment, piping and gas ducts, mounted on open technological racks.

The installation for black lead casting to a block before refining is an integrated casting system based on Italian technology, situated in the TSL-furnace rack. For the development of the working documentation concerning all parts of the mentioned basic NLP installations, Ircon has used, further to their professional experience gained in similar tasks, the most advanced software technologies-building an integrated BIM model (Building Information Model) for the entire plant, as well a 3D modeling in the constructive part in conjunction with the current CAM technologies and realization of the project solutions in the production.



Industrial installations and industrial projects



ADF Bulgaria Wool Processing Factory

In 2001 Ircon designed for the Bulgarian-French Company ADF-Bulgaria the building structure for the new wool processing factory in Parvomay. The factory was built of modern steel constructions and fireproof panels with mineral wool insulation. It extends over an area of 30,000 square meters. Within this project it is for the first time that complex facade engineering has been realized and a fiber reinforcement system for the industrial floors has been applied.



Industrial installations and industrial projects



Baunit Plant for Dry Building Mixtures and Wet Production

Baunit plant in the town of Elin Pelin is a modern plant for production of dry construction materials. It consists of a feed hopper, charging conveyor gallery, mill, vertical elevator and system of silos and batch and blending bunkers for the materials. Within this project the tallest industrial structure since 1989 has been realized in Sofia field. A modern yard concept

has been applied in order to minimize the losses from potential floods. The project has been implemented with a large international participation. Ircan is a head designer of all project parts from the Bulgarian side.



Industrial installations and industrial projects



Liebherr Hausgeraete Maritza Refrigerator Manufacturing Plant

Liebherr Hausgeraete Maritza Ltd. is a longtime strategic client of Ircon. For the needs of the refrigerators manufacturing plant near Radinovo, Maritza Municipality, Ircon has adapted the basic construction design, performed production control and supervision and realized projects for intermediate technological platforms and installation facilities in the period from 2006 till 2011.



Industrial installations and industrial projects



The modern plant for bioethanol production from grain stuff is located in the town of Gorna Malina. It has been developed based on the process technology of the Indian engineering Company PRAJ Industries. The head designer of the plant is Iron. The plant consists of grain silos, liquefaction installation, fermentation, distillation and evaporation sector and a storage for finished products – alcohol storage.



Prophex Bioproducts
Installation for bioethanol
production



Industrial installations and industrial projects



Nestle Bulgaria Distribution Center

Nestle Bulgaria Distribution center is a modern technological high-rack warehouse with an area for mixing and loading of stored goods. Within the building there is a small handling area. The Distribution center was implemented in two phases in 2004 and 2008 and is located on the territory of the Nestle factory in Sofia. The project was implemented in compliance with the client's safety standards, including fire safety, risk management and prevention. The building has been envisaged for Nestle Bulgaria Post Disaster Center.



Industrial installations and industrial projects



Gorenje Bulgaria Distribution Center

Gorenje Distribution Center is a major logistics terminal of the Bulgarian branch of the famous Slovenian manufacturer Gorenje. The building is designed for a storage buffer, supplied by means of a railway and by road transport the products are dispatched throughout the country. The complex is located in the district of Voluyak. Further to the warehouse building, an administrative building for management activities, exhibition showroom and service center have been projected. Gorenje distribution center is spread over an area of 7489 m2.

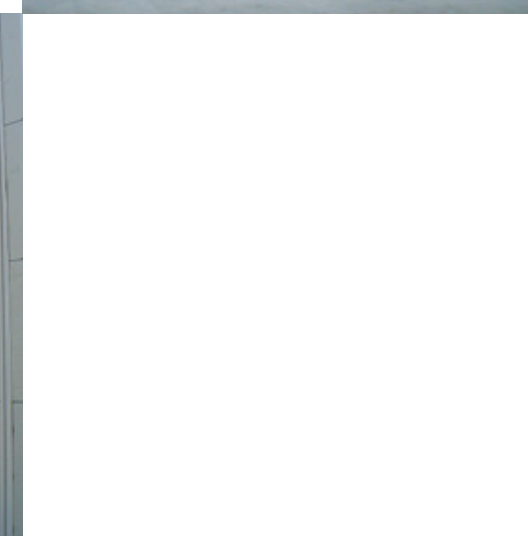




Industrial installations and industrial projects

Interlogistica Logistics Center

Interlogistica Logistics Center is a warehouse and shipping center of the homonymous operator. The complex consists of an office building, high-rack warehouse, a sector for sorting, processing and shipping of items and a yard complex. It is located in the logistic area in the vicinity of Sofia airport. The buildings have modern appearance, made of quality materials and are designed in line with the high quality of service offered by Interlogistica Ltd.



Industrial installations and industrial projects



Biomashinostroene Plant Enlargement JSC

The project is an enlargement to the existing manufacturing workshops of the Biomashinostroene JSC company in Plovdiv. Designed are 3 three new workshops that are a natural extension to the existing buildings. The new part is characterized by several levels of crane rails, a new track for trolley cars and great height of the building resulting from the specific manufacturing technology.



Industrial installations and industrial projects

The Warehouse of Daks-96 company is located in Ilentsi industrial quarter of Sofia. The project depicts a new modern storage terminal for flat glass, equipped with internal workshop transport and modern solution for industrial flooring.



Daks - 96 Warehouse





Clients and Partners

During its seventeen year history Ircon Design Bureau has worked for companies and public organizations of various business sectors and public life. We are proud of the results achieved and the wonderful relationship we have with clients, such as:

„Liebherr Hausgeraete Maritza Ltd.
Baumit Bulgaria Ltd.
Nestle Bulgaria JSC
Inter Expo Centre JSC
Trade center Boyla
ADF Bulgaria Ltd.
Actavis - Dupnitsa /Balkanpharma/
Gorenje Bulgaria Ltd.
Swissmod clothing company
Parallel Ltd.
Technoexport Ltd.
Sting JSC Glassco Ltd
Mr.Bricolage
Beautiful Bulgaria Project
Pirin Tex Ltd. /Rollmann/
Biovet JSC
Telelink JSC
Leadcom Bulgaria JSC
Alexander Logistics Ltd
Daewoo Bulgaria
Knauf Gipsfaser JSC
Umicore Med JSC
Heros Ltd.

Bellissimo Business Centre
Ministry of Transport
Metropolitan JSC
Ministry of Finance
Petrol JSC
AMOCO Bulgaria Petroleum Products Ltd.
Forest furniture company
Eco Petroleum Ltd.
Ministry of Youth and Sport
Piccadilly JSC
Boliari JSC
Daks-96 Ltd.
Diado Bojko Ltd.
Biomashinostroene JSC
Interlogistica Ltd.
Office Express Services Ltd.
Prophex bioproducts Ltd.
Metix Ltd.
Alex EA
Natonal Sport Base JSC
Chelopech Mining JSC
Balkan Mineral and Mining JSC
KCM JSC
Trimo d.d.

Of course we should not miss to mention our established partners:

Hochtief Bulgaria
Star bat Bulgaria Ltd.
Agrogroup Exact Ltd.
Preciz AI Energy Ltd.
Glavbolgarstroy JSC
At Engineering 2000 Ltd.
Diado Bojko Ltd.
Planex Ltd.
Tilev Architects Ltd.
ELITE Architectural studio
Terna JSC
Trimo Bulgaria JSC

Enemona JSC
VIAPLAN Ltd.
Montage Stroitelni Konstruktzii JSC
Atelier Serafimov Architects Ltd.
Project Management Company Ltd.
Trace Group Hold
ANISA - M
ADA Ltd
Proin JSC
Tanyu Dimitrov & Partners Inc.



Address: 1138 Sofia, 2 L Samokovsko Chaussee str.

Tel.: + 359 (2) 917 54 00

Fax: + 359 (2) 917 54 01

E-mail: office@irconltd.com

Website: www.irconltd.com