



Latest  
technology  
for your product



FoodTech Division



# 1992.



## ITN Group

ITN GROUP is the undisputed regional leader in implementing new technologies. The company was founded in 1992, with a clear vision of introducing advanced technologies and techniques in food production and processing in Serbian and regional market. The best guarantee of fair and responsible entrepreneurship, as business values which we firmly stand behind, is the fact that ITN GROUP is 100% family owned company. Indicator of the success of this business approach is not only continual financial success that we have achieved, but is also reflected through more than two hundred satisfied workers, full-time employees in three departments of our company.

ITN GROUP today is:

ITN AgroTech - **engineering in agriculture**

ITN FoodTech - **engineering in the food industry**

ITN Eko Povlen Kosjerić - **fruits, vegetables and medicinal herbs factory**







# ITN Foodtech

ITN FoodTech is specialized in the project development and implementation of factories, warehouses, cold storage facilities and industrial production and processing of food, according to the "PRODUCT IN HAND" principle.

Our engineers are ready to develop any idea, from conceptual design (in our design office) to the end of the process (including manufacturing, installation, training, supervision, technical and technological support throughout the production process), turning it into quality industrial product designed for the global market.

Today, we have partners in over 30 leading companies from the Europe and U.S. with numerous realized projects. In addition to the developed markets, ITN GROUP is also successful in applying agriculture and food industry "know how" in the markets of developing countries.



GYROCOMPACT 60 Spiral Freezer

This is due to a number of factors.





Particular attention is paid to the education and training of employees and customer support during the warranty and post-warranty period, and as long as the customer does not fully master the new technology and equipment, our experts actively participate in the management of the production process and thus we further train and educate of our customers.

ITN FoodTech offers complete solutions for production, processing and packaging of seeds and grain to customer requirements, according to "PRODUCT IN HAND" principle.

Environmental engineering and renewable energy sources management are of particular importance in ITN GROUP business philosophy, and our expertise in this field can raise your production to the highest standards (ISO 14000) in order to achieve maximum utilization of renewable energy and significantly reduce overall costs.





# FRUIT, VEGETABLES, MEAT, MILK, JUICES, BREAD INDUSTRY, CONFECTIONERY PROCESSING



ITN FoodTech provides fruit, vegetables and meat processing solutions in many applications such as freezing, chilling, cooking, canning, frying, and proofing, aseptic processing, in-container sterilization and pasteurization, packaging, automatic clean-up systems, and food portioning.

Fresh harvested fruits and vegetables are sensitive products and they require fast and gentle treatment in order to preserve, freshness, natural looks and chemical content. No matter whether they are processed for freezing or canning industry, ITN will provide tailor-made processing and weighing/packing solutions for the food industry.

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With industry know-how drawn from more than 20 years of experience, we are designing optimal solutions for customer needs, to help them increase reliability, reduce downtime, lower operating costs, and to stay competitive!

Our service and customer support includes not just direct access to spare parts inventory and skilled service technicians, but also upgrade kits, secondhand and refurbished equipment that can take your original equipment to the next level.





# HVAC-R

The entire food sector, from processing and handling to storage and distribution of perishables would be unthinkable without applying quality refrigeration systems and temperature control. ITN can offer our customer's a full range of industrial and commercial refrigeration. A variety of refrigerants is used in our tailor-made projects: from direct ammonia and freon to indirect cooling.

Preserving food is a delicate matter. And for this reason you should not leave to chance the careful temperature control and gentle product handling in the chilling or freezing processing lines of these sensitive foodstuffs. ITN, with our partner company GEA Refrigeration Technologies, makes sure that your foods will stay at the very top of the consumer's shopping list, and that they will leave behind no bitter taste. After all: energy efficiency and environmentally friendly refrigerants enjoy absolute top priority with us.

ITN will design, engineer, install, and maintain innovative key components and technological solutions for its customers for whom refrigeration is an essential part in their primary process.







We are always focused to design refrigerating systems with minimal environmental impact and the lowest possible global warming potential (GWP), as well as the lowest possible ozone depletion potential (ODP).







# STORAGE OF FOOD AND AG PRODUCTS

ITN can provide a full range of storage equipment: special ventilation/cooling chambers for fresh root crops, cold storages, cooling chambers, controlled atmosphere and ULO chambers for fresh fruit storage, etc.

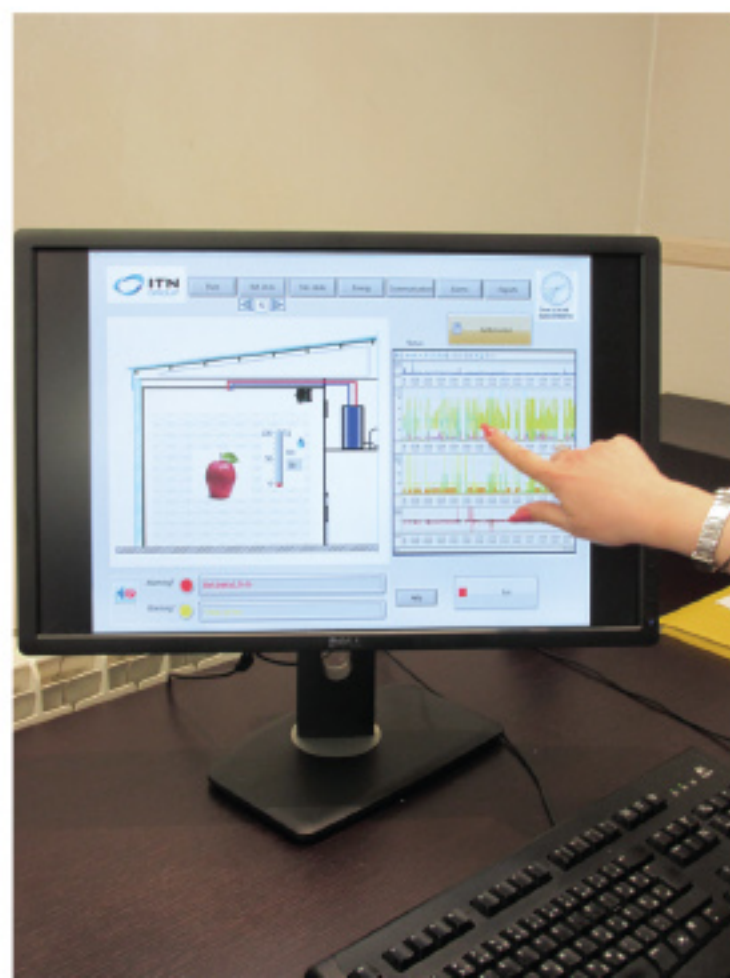
We design innovative storage techniques that improve the storage efficiency of potatoes, onions and carrots. Climate control like no one else does. We are able to supply total solutions and components for storage of potatoes, onions or carrots in bulk or in boxes to give you the highest storage efficiency. In addition to above and underground ventilation systems for bulk storage, ITN specializes in box storage with forced ventilation (blowing or suction) and space ventilation systems.











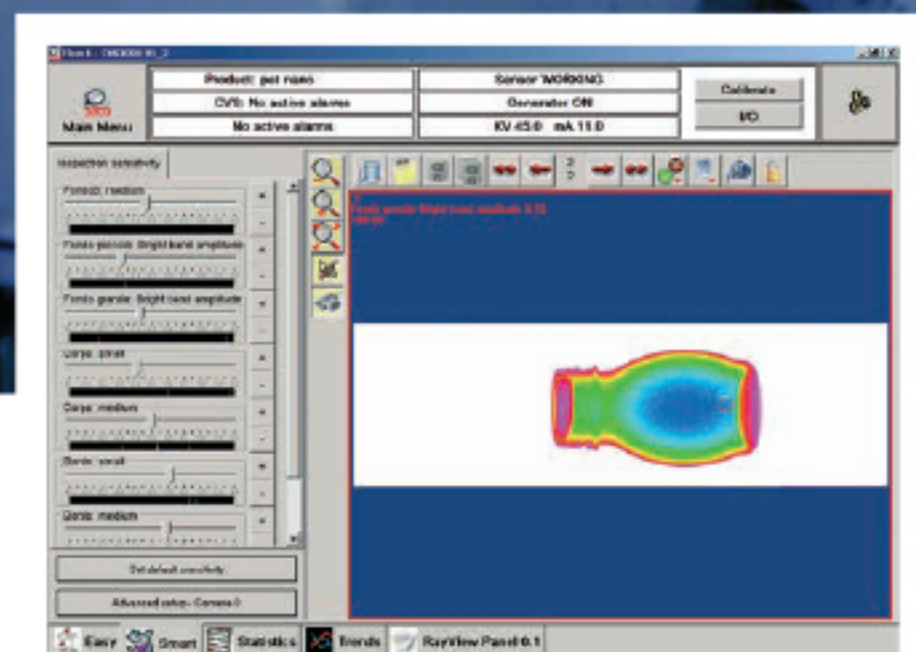




ITN can also complete turn-key solutions in the field of sorting and cleaning potatoes, onions and carrots. ITN, together with our partners forms a reliable and innovative partner for growers and processors.

We are also, able to design, manufacture, supply and install top-notch quality cold storage systems. Widely used in different industries like food & beverage, agriculture and horticulture; we offer this storage chamber in standard as well as customized sizes as per the clients' requirements. Some of the most important features of our cold storage chamber are fine design, moisture & chemical resistance, low energy consumption and high cooling efficiency.





# FOOD SAFETY

Safety of the food we all eat is our highest priority. This is why we offer to food producers a full range of optical sorters for sorting of bulk product (fresh or frozen), as well as X-ray inspection for bulk products and in-container products (glass jars, glass bottles, tins, cans, carton bricks, plastic containers, plastic bags, etc...). Our systems meet all food related standards like HACCAP, ISO 9001, Global GAP, etc.

Our range of machines for optical sorting have the key features of strength, flexibility, easy maintenance and ability to be integrated with artificial vision technologies. This system perfectly suits the needs of modern food processing systems that demand machines able to sort a wide variety of products.

X-ray is a valid method for tracing and rejecting various types of (high density) contaminants. Our inspection systems based on X-ray technology can detect glass in glass contaminants, metal fragments (iron, steel, copper, etc.), stones, etc, whilst keeping X-ray emissions to a minimal level.

Product traceability: the installed software on our machines allows you to select essential data for collection during process for later analysis and/or traceability.









# SEED & GRAIN

ITN Seed&Grain department is your single source for state-of-the-art process, handling, storage solutions and products for the seed, grain, feed, wood pellet/biomass, and bio-based fuel industries.

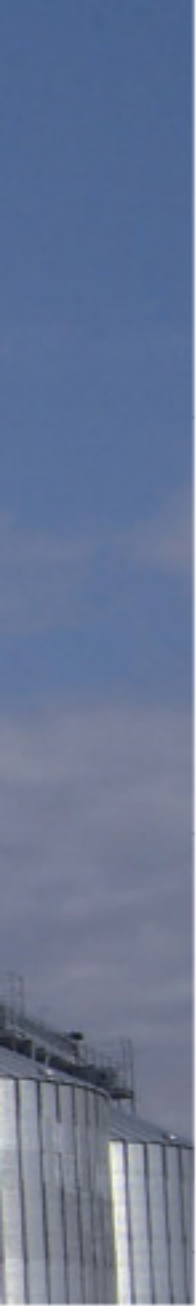
We specialize in machinery and technology and can offer individual pieces of equipment and complete turn-key projects for processing seeds and grains, with highly advanced automation and management information systems.

We provide a choice of comprehensive integrated services for turnkey, ground-up development of custom systems or facilities, or expansion of current facilities. Seed and grain handling requires the utmost care and efficiency at the same time. The most important thing is to control all stages from receipt of grain to cleaning, drying, storage and processing to ensure that the grain retains its quality and to reduce waste.

Our engineering department utilizes AutoCAD 2-D and SolidWorks 3-D drawings for site, mechanical and fabrication layout drawings. We also utilize 3-D software for our structural steel and concrete calculations.







Our goal is to provide to our customers the best and most efficient post harvest machines and systems at a competitive price. ITN is committed to each and every customer, no matter how large or small.







# WHY BIOGAS?

Energy consumption around the world is growing, while fossil fuel reserves are limited. At the same time, the environmental impact of combustion of coal, oil and gas and the problem of nuclear waste disposal is becoming increasingly noticeable. In the light of development, there is a growing need for alternative energy sources. Biogas is the source of new renewable energy for the next generation, a great symbiosis of agricultural production and the energy sector.

Benefits of biogas?

- Flexible source of energy that can be stored
- Economic cost-effectiveness
- Production of fertilizers
- Climate and environment protection
- Reduction of methane emission
- Fossil fuels substitution
- Artificial fertilizers substitution
- Recycling nutrients







ITN Group offers you complete service over pre-design, design, project management, installation and commissioning of biogas plants. ITN Group engineers will implement their know-how and ensure the application of latest technologies in the field of biogas production, monitoring and management of processes of your biogas cogeneration plant.

ITN GROUP will deliver you design and installation of complete biogas plants starting from 100 kW till 15 MW electrical power, combined with usage of waste heat for the heating of greenhouses, driers (alfalfa, hay or cereals), farms, commercial and industrial spaces, steam production, domestic hot water production, but also for the cooling of frozen storages using the tri-generation equipment.



# ITN Agrotech

ITN AgroTech is a major supplier of complete engineering in agriculture, planning and implementation of new technologies and techniques in agricultural production.

ITN AgroTech is specialized in the transfer of new technology, agricultural machinery, equipment and devices, from processing and preparation of soil, sowing, crop protection, production of grains, vegetables and fruits, preparation of hay and silage, harvesting sugar beets and potatoes, to the irrigation system. Our offer also includes the machines and devices for handling and transport, packaging and storage equipment, silos, dryers and floor warehouses, machinery for vineyards and orchards, forestry and utility machinery, farm equipment and bio-gas plant and GPS systems for application in agriculture.

In addition to a broad palate of high quality agricultural machinery and equipment, ITN AgroTech provides genuine spare parts and accessories, service of agricultural machinery, logistics and service support during the sowing and harvest season, rental and outsourcing of specialized agricultural machinery, as well as complete management of agricultural production.





# ITN Eko Povlen Kosjerić

Eko Povlen, factory known for its tradition of producing and packaging for more than 50 years, in year 2006. became an integral part of the ITN GROUP.

In order to technologically improve and modernize production and processing of frozen fruit and vegetable in Eko Povlen factory, ITN GROUP has implemented all the latest technologies that are specialized in: everything from color sorting to the latest generation of the final product packaging.

In a very short time ITN Eko Povlen Kosjerić became one of the leading exporters and manufacturers of frozen fruits in the country and the region. Top quality delivers superior results – our brand, "ALL FRESCO" is present in all leading retail chains in Serbia (Delhaize, Metro C&C, Veropulos, DIS, Univerexport).



ITN Eko Povlen Kosjerić is located in western Serbia, in the municipality of Kosjerić located halfway between Valjevo and Užice.

The natural environment of Kosjerić is characterized by fertile land bordering dense forest vegetation. These river valleys are rich with quality drinking water, which in combination with appropriate climatic conditions makes the whole area ideal for the cultivation of vegetable and fruit crops.

ITN Eko Povlen Kosjerić, except the rich natural resources, has excellent transport infrastructure: an important highway Valjevo - Požega and the Belgrade - Bar railway, as well as numerous regional and local roads.



