



Russia, St. Petersburg

Summary

1. Production –

- Membrane filtration system “UML-ELEVAR” is destined for research activities in membrane filtration (processes adaptation, membranes testing etc.) for biotechnology, food processing, pharmaceutical and chemical industries.

2. Services –

- Comprehensive engineering in various industries – basic engineering for a new or re-equipment production complexes and application of the innovation technologies which provide the following competitive advantages for producer:
 - market acceptance for high-quality product due to progressive scientific and technical level of used technologies,
 - considerable increase in the product yield due to a negative profit minimization,
 - ecology and social problems solving.
- All range of services for construction and reconstruction of production facilities both “turnkey”, and by using flexible scheme which provide a customer for opportunity to make a choice of separate services:
 - Technical and technological consulting and audit,
 - Industrial projects comprehensive engineering,
 - Adaptation of foreign project documentation to the Russian Federation norms and regulations,
 - Process engineering and manufacturing of process equipment,
 - Mechanical installation,
 - Electrical installation,
 - Process automation.

3. Trade marks – ELEVAR.

Company profile

Date of establishment

Science-Manufacturing Association ELEVAR was founded in 1993 and today is one of the market leaders in engineering and production services. ELEVAR holding history is the history of setting-up various modern production facilities which at present are the largest participants in the Russian market.

Science the moment of its foundation, ELEVAR has passed the way from small group of like-minded persons to a large holding company. Today our partners are leading domestic and foreign companies. For years existence our customers and partners in practice has made sure of efficiency and real advantages of our work methods.

One of the priority ELEVAR activities is R&D works, including R&D works in membrane technologies.

Signs of public recognition

– Diploma of participant of the V International Forum “Dairy Industry 2007”, Diploma of participant of the International Forum on Functional and Child Nutrition (FCN).

– References (appreciation of high-quality performed work) from the companies JTI, Alpha, Nestle, Pilkington, Niro A/S, Dow Chemical, Wimm Bill Dann etc.

Number of employees – 1700 persons.

Team

Anisimov Sergey – Director General. Candidate of science. Great experience (over 15 years) in creation and development of engineering company, experience in practical application of innovation management techniques. MBA “Management” (education in Germany and Russia). Dissertation on the heat-mass exchange in a cultural mediums.

Mamkaeva Lubov – Director on Development. Candidate of science. Great experience (over 15 years) in business creation and development in the food processing industry. MBA “Marketing” (education in Germany and Russia). Dissertation on the increase the efficiency of production in the food processing industry.

Bukin Oleg – Technical Director. Education: technology, economy, management. Great experience in the defense, chemical and petrochemical industries (about 15 years), experience in the practical application of permanent raising the level of skill in the engineering and technology management.

Products characteristics

Practical application of the membrane technologies to production in the various industries is the confirmation of the getting the following competitive advantages by the producer:

- 1) The product yield is 15–20% on as compared with the traditional technologies;
- 2) Extension of the output goods range – for example, in the dairy industry from the dense yoghurt to the traditional curds (extension of the solids range from 12 to 33% as compared with the traditional 35–36%);
- 3) Decrease in the waste products – for example, in the dairy industry the possibility exists to achieve a non-waste production, inasmuch as the derivable serum is the raw material for the health-giving sour milk drinks production, as compared with the traditional technologies, that the turbid serum with the poor consumer characteristics is the waste product;
- 4) Reduction in the production costs by 20%;
- 5) Non-pollution production (for example, the possibility exists to reduction from lubricoolant to water for recycle);
- 6) Production and supervision processes optimization, output goods improving – as compared to traditional technologies the possibility exists to achieve the perfect closure of process, the conducting operations in aseptic conditions and the total process automation.

Current state

ELEVAR holding has great experience in application of the perspective membrane technologies for the large industrial systems development. ELEVAR Company has designed and produced unique equipment that enables to apply the innovation technologies in industrial production.

Development strategy

Prospective outcome of investment

Membrane filtration process application for the fluid mediums refinement and concentration is the perspective line of the development and increase the efficiency and competitive capacity of the industrial production facilities in various industries.

Marketing & Markets

Examples of the membrane technologies practical application in Russian industries:

- 1) Biotechnologies, Microbiology and Pharmaceutical industries:
 - biological fluids separation and refinement of a cultural mediums from biomass;
 - vaccine, vitamin and antibiotic filtration, refinement and concentration;
 - protein fractionation.
- 2) Dairy industry:
 - milk separation;
 - refinement of milk from the microbiology pollution («non-thermal pasteurization»);
 - health-giving microorganisms conservation («living milk»);
 - cream high-temperature processing and filtrate normalization on fat after microfiltering;
 - milk homogenizing under pressure;
 - considerable reduction in the protein melting as compared to traditional thermal pasteurization;
 - considerable improving of the raw materials for production of the milk goods complete range.
- 3) Food and Manufacturing industries:
 - foodstuffs production with long shelf-live without resort to preservatives and high-temperature processing;
 - starters production;
 - refinement and stabilization of the wine raw materials and drinks;
 - refinement of the alcohol-based mixtures from the organic sorbents;
 - final filtration of the alcoholic beverage products.
- 4) Chemical industry and Ecology:
 - lubricoolant treatment (reducing to drinking water) for recycle;
 - transformer oil treatment;
 - waste water treatment.