



Profile of Czech companies

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CRYTUR



Company profile

The focus of this research group slowly changed from analytical to more industrial application. In 1943 the group was transformed into the "Research Institute for Gems". The research concentrated on the mechanical applications of synthetic crystals. Typical products at the time were sapphire bearings, sapphire gramophone needles and sapphire matrices for textile fibres. Under the new name "Research Institute for Minerals", the institute focused on synthetic quartz and corundum, and applications of materials such as quartz fibres, etc. Technologies and methods of crystal growth from solutions, melts, solutions of melts, and hydrothermal synthesis were implemented for the first time. KBr, NaCl and KCl crystals found their application in the UV and IR optics production. Scintillators, such as NaI:Tl and CsI:Tl, were also among the developed single crystals. In the sixties the name was changed once again, to "Research Institute for Single Crystals" ("Monokrystal"). Crystal growth was the main area of activity. Many of the new materials from research and development reached the stage of industrial production. The activities during this period included single crystal quartz industrial production, crystal personal dosimeters, silicon p-i-n gamma ray detectors, ruby based laser rods, synthetic mica, synthetic garnets, thermoluminescent dosimetric materials LiF and CaF₂, Czochralski methods of growth of sapphire, perovskites and garnets based on aluminium and yttrium oxides, etc.

The production of scintillation detectors started in the beginning of the seventies under the trademark "CRYTUR". Since the eighties new scintillation materials like BGO, YAG:Ce and YAP:Ce have been added to the production lines.

The company faced a new economical and political situation in the nineties. Monokrystal joined Preciosa Co. During this period, the new CeF₃ scintillation material was developed at. In 1995, Preciosa Crytur Ltd. was established as a daughter company of Preciosa Co. The new, independent firm CRYTUR Ltd. was created in the year 1998. CRYTUR Ltd. continues in activities of former Monokrystal in the five main directions:

- Scintillation materials and detectors
- Laser rods and other laser components
- Crystal based precise optics and mechanics
- Sapphire profiles
- Grinding and polishing of hard materials

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Company Profile

- Company was founded in 1993.
- Professional team of designers, engineers and technicians.
- Offer a complete production of vacuum systems, including:
 - calculation, design and construction,
 - CNC machining and welding,
 - chemical cleaning and thermal vacuum processing,
 - quality control of mechanical and vacuum parameters.

VAKUUM PRAHA offers a complete solution to your vacuum problems.

VAKUUM PRAHA manufactures

- vacuum and ultra-high-vacuum components
- ultra-high-vacuum systems for R&D
- vacuum systems for particle accelerators

We export 80% of our products.

We collaborate with Universities and Research Institutes in different countries:

- Faculty of Mathematics and Physics of Charles University, Praha
- Faculty of Sciences of Purkyně University, Ústí nad Labem
- Institute of Physics of the Czech Academy of Sciences, Praha
- Nuclear Physics Institute of the Czech Academy of Sciences, Řež
- Czech Institute of Metrology, Brno
- European Organization for Nuclear Research (CERN), Genève
- Joint Institute for Nuclear Research (JINR), Dubna

Our vacuum systems operate in the pressure range from 10^5 to 10^{-10} Pa.

We sponsor the vacuum science and technology with a grant for young scientists.

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VOD Turnov



Company profile

The Optical Development Workshop in Turnov (VOD Turnov) is a detached department of the Institute of Plasma Physics of the Academy of Sciences of the Czech Republic (<http://www.ipp.cas.cz/>).

Our primary focus is on the research and development of high-precision optics for the uses of the Academy. In addition, the ODW designs and manufactures optics for other scientific and commercial purposes, servicing mainly a number of clients from the Czech Republic as well as foreign clientele.

Our product range covers a large array of optical components including standard astronomic devices, high-precision components for demanding scientific experiments, laser and x-ray optics and extremely narrow-banded tuneable filters. We also provide spectrometers and spectrophotometers designed for technical purposes and biological research.

Production of such a wide range of components while maintaining the best quality is affordable only thanks to our individual approach and strict quality assurance during all manufacturing phases.

Throughout the designing and manufacturing process we capitalize on highly experienced and skilled specialists taking full advantage of state of the art technologies. The ODW also provides service for astronomical and other optical devices, including precise measuring and testing. We also offer consultations and expert opinions in the field of optics. Since the foundation, more than 30 years ago, we have kept true to our motto "Quality Above All", winning acclaim with numerous unique devices and a number of prototypes.

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Institute of Physics of the Academy of Science of the Czech Republic



Company Profile

Institute of Physics AS CR, v. v. i. (FZU) is a public research institute, oriented on the fundamental and applied research in physics. The founder of the institute is the Academy of Sciences of the Czech Republic.

The present research programme of the Institute encompasses physics of elementary particles, condensed systems, solid state, plasma physics, and classical and quantum optics.

Institute of Physics is an establishment related to fundamental research in numerous regions of physics. The institute consists of divisions according to the particular research subjects. The divisions are divided in research and support departments.

- Division of Elementary Particle Physics
- Division of Condensed Matter Physics
- Division of Solid State Physics
- Division of optics
- Division of High Power Systems

Several research programs are devoted to the interaction of laser radiation with matter. These activities are based on the use of TW laser beams generated by the system PALS. The generated hot and dense plasma is used as a source of soft X-rays and of highly charged heavy ions. A column of laser-generated plasma is employed as an active medium of XUV laser, which became a standard X-ray laser. For technological applications is being developed a chemical oxygen-iodine laser. *The Department of X-ray lasers'* team works mainly on the development of coherent X-ray sources such as plasma-based X-ray lasers and high-order harmonic generation, and their scientific applications. Another activity is the development of elements for adaptive optics, namely of wavefront sensors for infrared and X-ray lasers.

Implementation of ELI in the Czech Republic is organized by the Institute of Physics Academy of Sciences of the Czech Republic, vvi. He represents the Czech Republic in the consortium ELI-PP and coordinates national consortium ELI-CZ, which includes 14 major universities and research institutes in the CR.

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French-Czech Chamber of Commerce

Profile

French-Czech Chamber of Commerce (Chambre de commerce franco-tchèque, CCFT) was founded in March 1996 and quickly gained support of French companies operating in the Czech Republic. Actually CCFT has 283 members, of which 65% are French companies implanted in the Czech Republic, 28% are Czech companies and 6% transnational companies.

Main mission

- To encourage the development of French-Czech business,
- To offer a full range of services for the French companies coming to the Czech Republic (market surveys, market analyses, research of business partners, commercial representation, organizing trade fairs, virtual office etc.),
- To run a BUSINESS INCUBATOR for the companies that start their activities on the Czech market,
- To promote the human resources development by offering made-to-measure services (recruitment, CV database, publishing job offers, coaching etc.)
- To organize cultural events (lunch debates, conferences, business café, business mixers, charity events, pétanque tournaments, concerts, etc.)

CCFT is a member of UCCIFE, the Union of French Chambers of Commerce and Industry Abroad (www.uccife.org) that associates 114 members all over the world. In France, CCFT is supported by a network of 183 chambers of commerce joined in Association of French Chambers of Commerce and Industry, ACFCI.

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Economic performance of the mission - UBIFRANCE



Economic performance of the mission - UBIFRANCE

Who are we?

- Czech Representation Agency for International Development of Enterprises UBIFRANCE
- Part of international networks UBIFRANCE represented in 28 countries
- Part of the French diplomatic structures in the Czech Republic

What do we do?

We help French companies in their penetration of the Czech market and provide support at all stages of development of their business. We offer four types of services:

- Advisory Services: Company familiar with the conditions on the Czech market and advise on a suitable business strategy
- Contacts: to help establish contacts with prospective business partners in Czech Republic
- Communication services: we will increase awareness of the local authority decision-makers (working with the media, networking - Networking)
- VIE (International en Entreprise Volontariat) offer a simple and hassle-free solution represents a reinforcement of the export department of the company as a young and dynamic colleagues, all with help from government

What can we offer?

- An international team consisting of experts with experience from both cultures
- Business and technical training of our consultants for export and international business development
- Individual consultant focused on the area of the market, our agency has four departments (Fashion, housing, health, infrastructure, transport, industry, agriculture, food processing, new technology-innovation-service)
- Practical knowledge of the trade
- Our contacts
- Our experience with the support of French companies on the Czech market
- Hard work

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CzechInvest

The main objective of CzechInvest, the Investment and Business Development Agency, is to advise and support existing and new entrepreneurs and foreign investors in the Czech Republic.

CzechInvest, the Investment and Business Development Agency, is an agency of the Ministry of Industry and Trade. Established in 1992, the agency contributes to attracting foreign investment and developing domestic companies through its services and development programmes. CzechInvest also promotes the Czech Republic abroad and acts as an intermediary between the EU and small and medium-sized enterprises in implementing structural funds in the Czech Republic. Our system of quality management was certified by Quality Austria in accordance with ISO 9001:2000.

CzechInvest is exclusively authorized to file applications for investment incentives at the competent governing bodies and prepares draft offers to grant investment incentives. Its task is also to provide potential investors current data and information on business climate, investment environment and investment opportunities in the Czech Republic.

CzechInvest's services (all CzechInvest's services are free of charge):

- comprehensive services for investors
- full information assistance
- handling of investment incentives
- business properties identification
- supplier identification
- aftercare services
- business infrastructure development
- access to structural funds

The project "Czech Technology Days"

The main tasks of the CTD is introduction of the Czech Republic as a modern developed country with a long experience in Research, Development and Innovation. Imagine the Czech Republic as an excellent partner who recognizes the importance of research and development as a key component to increase the Czech economy and the development of Czech society. Undoubtedly the greatest benefit is to build new contacts and cooperation among research institutions, political leaders and representatives of the private sector.

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