



Operational Programme „Development of the Competitiveness of the Bulgarian Economy” 2007-2013

Priority Axis 2 „Increasing efficiency of enterprises and promoting a supportive business environment”

Operation BG161PO003-2.1.04 „Technology upgrade in small and medium-sized enterprises”

Overview of the business of INTECHNA JSC

INTECHNA JSC is a leading Bulgarian engineering company incorporated in 1993. The company has a design office based in Sofia and a factory for tool manufacturing and production of plastic parts based in Stara Zagora. The company employs over 80 highly qualified specialists. INTECHNA applies a quality management system certified according to ISO 9001:2008.

INTECHNA’s vision is that implementation of the most advanced technologies is the only way for accelerated development and achievement of a competitive advantage.

Our mission is to be a complex supplier of a complete product development cycle – from concept to serial production.

INTECHNA’s Portfolio:

- Product design - *from the areas of electronics, electrical engineering, household appliances, consumer products, etc.*
- Rapid prototyping - *direct from the computer 3D model.*
- Tool design and manufacturing - *moulds, dies, press tools, casting tools*
- Production of plastic parts.

The company disposes with high technological equipment – over 40 machines that facilitate a complete cycle of tool making and injection moulding:

- Rough machining section
- Grinding section
- Drilling and boring section;
- Milling section;
- Electric discharge section;
- Fitter’s section;
- Laboratory for measuring and control;
- Injection moulding section.



INTECHNA performs complex development projects and supplies components for manufacturers of household appliances and electronic devices:

- established European companies like LIEBHERR Hausgeräte, BSH Bosch und Siemens Hausgeräte, STECA Elektronik, FESTO, EPIQ;
- leading Bulgarian companies like „Tesy“, „Datecs“, „TeleTek“, „Eltrade“, which sell their products on the Bulgarian and European market.

Project "Technology upgrade for competitive and effective manufacturing of INTECHNA JSC"

Grant Agreement No.: TMM-02-86/17.07.2009 г.

Total agreed budget: 1 341 200 BGN.

Total agreed grant: 871 780 BGN.

Project objectives:

- Removing a "bottleneck" and increasing manufacturing capacity through implementation of new hi-tech equipment.
- Optimization of manufacturing process by introduction of an innovative technology.
- Economy of scale and generation of free capital for further investments.



Implemented new machines:

- high-speed milling centre with 5 axes DECKEL MAHO DMU 60 monoBLOCK
- high-performance large sized wire-cut electric discharge machine FANUC ROBOCUT α-1iD
- high-performance large sized die-sinking electric discharge machine EXERON EDM 313





Project status:

The project was finalized on 17.10.2010 г. and INTECHNA submitted a Final report on 15.11.2010 г. The report was verified by the Ministry of Economy, Energy and Tourism – total value of the allowable costs was 829 523 BGN, respectively the grant paid to INTECHNA was 539 189 BGN.

INTECHNA's benefits from the project:

After implementation of the three new hi-tech machines the manufacturing capacity of milling and electric-discharge sections was increased by over 1000 working hours per month. A "bottleneck" in manufacturing process was removed, so the overall capacity was increased by 30%. For the 15 months' project period we manufactured 113 tools (planned 111), i.e. moulds, press tools and dies and produced 2 182 954 plastic parts (planned 1 403 750). The growth of tool manufacturing resulted in a growth of plastic parts production because over 90% of the moulds made by INTECHNA are operated in our own injection moulding department.

As a result from the project, INTECHNA created 13 new sustainable workplaces for qualified employees.

Company's portfolio was expanded with a new innovative technology based process - Rapid Tooling. In comparison with the conventional technologies, Rapid Tooling ensures significantly shorter terms for tool making. The new cutting-edge machines are very precise – after their implementation the accuracy and speed of machining operations were improved considerably.

In 2010 INTECHNA's revenues grew by 35% against 2009 and the share of export-oriented products increased. On the other hand, there is a tendency for decreasing the cost price of the tools. That allows optimization of manufacturing costs and economy of scale. In April 2011 the company realized the planned follow-up investment in 2 new injection moulding machines.

Our team gained valuable experience during implementation of this project. Therefore, INTECHNA's management took a decision for development of a new project and application to the call for proposals BG161PO003-2.1.13 „Technology upgrade in small and medium-sized enterprises”.

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