

More than Power Generation Control Systems

ZAT Has Been a Global Supplier of Automated Control Systems Solutions for Technological Processes for 50 Years

Czech-based ZAT a.s. is an established company, delivering automated technological processes in the Czech Republic and abroad. In the automation segment, this company celebrating its 50th anniversary this year, ranks among those companies with the longest tradition. ZAT operates its own development, designing, manufacturing and installation capacities and it services electronic devices, control systems and their components. Its core activities focus on power generation, control of industrial and transport systems, supplies of complete industrial plants, including complex supplies and systems integration.



Ing. Ivo Tichý

ZAT Control Systems

50% of the company's current production is represented by nuclear power generation. ZAT supplies nuclear power plants with specific and complex solutions for controlling primary and secondary circuits and auxiliary plants, providing functions with various security classifications including those related to the operation and impact of operating nuclear plants. "ZAT plans to further expand its presence in the nuclear power generation segment. In future, we expect to participate in the renovation of nuclear power plants and in the construction of new blocks of nuclear plants in the Czech Republic and abroad, for example, in the finalisation of construction of the Temelín Nuclear Power Plant", says Ing. Ivo Tichý, member of the ZAT Board of Directors. The major customers of ZAT include operators of large power

generation blocks and their major suppliers, such as ČEZ a.s., ŠKODA JS a.s., I&C ENERGO a.s., as well as SE ENEL a.s. in Slovakia. The company also supplies control systems for technical processes requiring high reliability and safety of operated devices for conventional power plants. The company delivers small-scale solutions as well as whole blocks. "We are currently competing for a contract for an upgrade of exciter sets in the Felton Power Plant in Cuba and the SOMA Power Plant in Turkey", adds Tichý. Other projects include systems for heating plants, railways, open-cast mines, as well as automated systems for the machine-building industry, etc.

A New Control System Developed by Czech Designers

ZAT is one of a few companies to have developed and integrated into their solutions, their own control systems. In 2011, the company launched on to the market its SandRA (Safe and Reliable Automation) control system, equipped with a special application for controllers of exciter sets. The exciter sets supplied by ZAT are supported throughout all the divisions of the company, from development and production, testing and commissioning, to guarantee and after-guarantee maintenance. "Apart from our own development activities, we also support research and development by cooperating with Czech technical universities and research institutes", says Vladislava Česáková, member of the ZAT Board of Directors. If requested by a customer or investor, ZAT can also use the systems of other manufacturers, such as Siemens, GE Fanuc, Saia, etc. Software by HP, DELL, IEI, Advantech, and Kontron, supporting ZAT visualisation applications based on Wonderware and Reliance products, are used to design master computer systems.

ZAT Abroad

Foreign contracts currently represent approximately 35% of the total sales volume of the company. Foreign activities of ZAT mostly consist of the installation and commissioning of supplied devices and their maintenance. The systems manufactured by the company control technologies all around the world, e.g. in South America, Mongolia, as well as Finland, Sweden, Slovakia and the Czech Re-

public. "When delivering our control systems and maintenance, we want to be as close as possible to our customers; which is why we have a trade agency and branch office in Slovakia. This year we plan to open new branch offices in Cuba", adds Česáková.



Ing. Vladislava Česáková

Investment in the Future

At the moment, more than 75% of the company's employees are secondary school or university graduates. Every year ZAT invests EUR 1.6 mil. in new products and innovations. Despite the economic recession, support provided to young and well-educated employees, as well as long-term research and development investments, generate profit for the company. In the 2011 financial year (ending March 31, 2012), the company recorded a year-on-year sales increase of 20%, and a 30% increase in profit.

Business with a Human Face

In 2001, ZAT became the only company to possess an exclusive patent right for the manufacture of special medical devices enabling the application of the mesodiencephalic modulation method. This method is used to facilitate the treatment of painful and difficult-to-treat complications of diabetes and microcirculation malfunctions. "Our efforts in developing and advocating – on the territory of the EU – the practical use of the new MDM physical method to provide efficient treatment of disease complications, that are otherwise only difficult or lengthy to treat, represent the social contribution of our company, as we see it", concludes Vladislava Česáková. ZAT also supports disabled athletes, as well as cultural, social and sporting events in the areas where its employees live.

50
1962-2012

years of
ZAT

Mature company
with a young face

Supplier
of complex automation solution
for power-engineering
and industrial processes

- Automation for Nuclear Power Plants
- Automation for Generation in Heat Power Plants
- Technological Process Automation
- Production of Industrial Electronics
- Repairs and Maintenance
- Special Medical Equipment

The Headquarters

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