

CREATEC, together with its Partners, offers comprehensive implementations of computer expert systems that support manufacturing processes. The systems we build are created using state-of-the-art information tools and technologies. They provide invaluable support for technologists and process engineers. The process data acquisition and data processing algorithms make it possible to perform advanced analyses – not only concerning the technological process as a whole, but first of all, individual production units in the form of a casting, forging or moulded piece.



The computer expert systems are designed and built by the interdisciplinary team of IT specialists, automation specialists and technologists.

The systems support the performance of technological processes in the scope of ensuring the required quality of products when it is impossible to control the processes based on the current inspection results. The systems solve the problem of instabilities occurring in the process - both in terms of own as well as extraordinary (emergency) variability and explain the reasons for the occurrence of adverse events. The process data analysis and dedicated cause and effect models make it possible to implement corrective and improvement actions. These solutions can be defined as dedicated real-time advisory systems.

- 1 Intelligent planning of order processing and production scheduling.
- 2 Real-time acquisition and visualisation of process data.
- 3 Supervising the condition of devices, instrumentation and measuring systems.
- 4 Developing and sending automatic warning signals.
- 5 Control of technological processes aimed at stabilizing parameters, eliminating extraordinary variations and reducing standard variations.
- 6 Modelling and simulation of processes aimed at forecasting the quality of products.
- 7 Determining key characteristics of processes.
- 8 Analysing process data and supporting operational decisions using statistical methods (SPC).
- 9 Analysing historical data and developing proposals for process improvement.
- 10 Building the knowledge base necessary to create the mechanisms for submitting proposals to support decision-making processes.

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