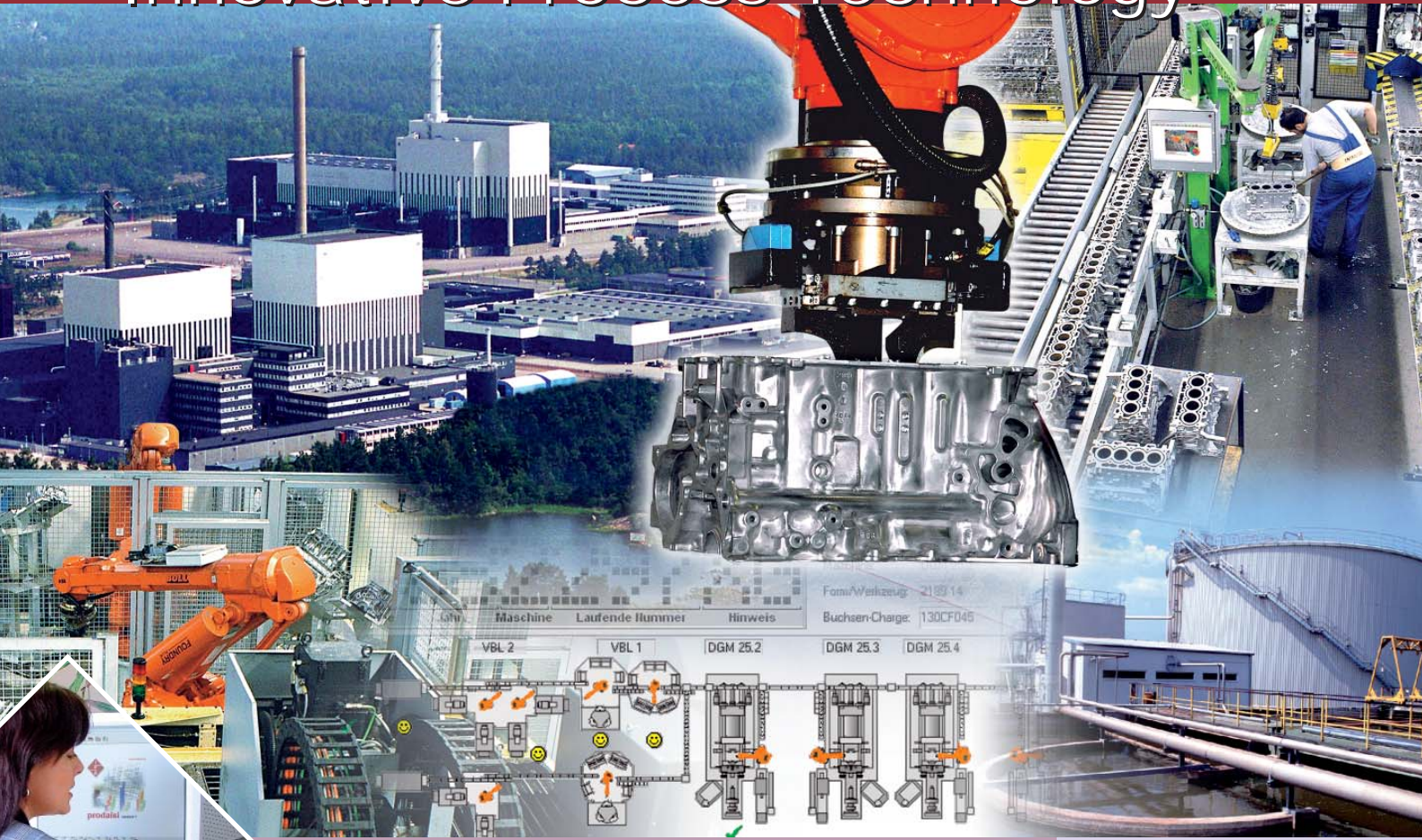


Innovative Process Technology



For a successful future



Secure operations – secure investments – secure future. We ensure optimum operation of your machinery.

Process technology makes high demands of the know-how, team spirit and flexibility of the system developer. This is why the choice of the right automation partner is an important decision with far-reaching consequences, because the reliability and efficiency of your process systems plays a crucial role in the future of your company. Furthermore your partner should also remain available in future for servicing, on-going development and expansion of your automation solution.

As an innovative company, IFA offers detailed and complete solutions from one source. Many years of experience in many different branches, know-how right up-to-date with technological and product development and the high demands we make of the quality of our work make us a competent, efficient partner for your automation solutions. The use of many different synergetic effects in planning, analysis, handling, installation, commissioning and support offers you advantages in terms of lead times and project costs. And last but not least, long-term investment security in the automation solutions planned

and implemented by IFA is guaranteed by constant further development of the systems, continuous training of our staff, and our product and maintenance service.



Automation solutions

We implement specific, comprehensive automation solutions to meet your needs – with all our technical expertise and with the motivation to put your requirements into practice using the best possible technical solutions while creating clear cost structures. In doing so, we keep a firm eye on prime factors such as technical requirements, budgets, deadlines and quality. This is the only way to produce future-oriented, economic solutions.

Electrical engineering

Right from the very first consultation talks, you will be working together with experienced professionals. We offer you the complete planning and execution of all electrical systems and switchboards for your machinery, in compliance with all necessary standards and regulations. We are also your competent contact partner for solutions in Ex-zones or areas under water management law, as well as for structured network wiring.

Software development

Intelligent, well thought-out software is the basis for smooth, service-friendly process workflows. We develop the best, holistic software solution for you to satisfy your automation needs – geared to all different systems and platforms.

Operating data management

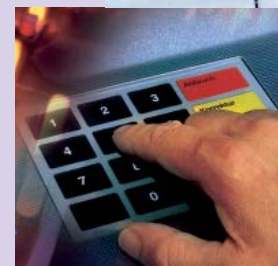
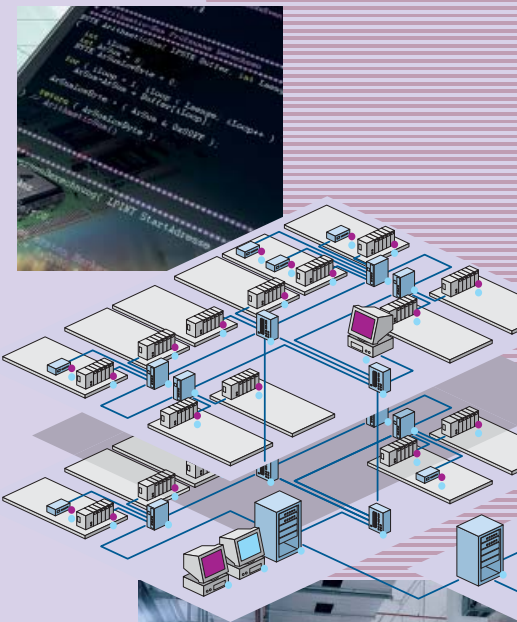
Acquisition, analysis and archiving the operating and production data form the basis for production planning, quality assurance and for definition of your company data to enable you to react quickly and flexibly to production and market requirements. Working on the basis of standard solutions, e.g. our production data system Prodais[®], we offer you operating data and quality assessment systems which are adopted to your specific requirements.

System house

Thanks to our sound practical know-how and our close cooperation with suppliers of automation products, you will obtain all information at first hand. Our experience in adjusting and developing solutions, which is frequently also used by the manufacturers, is at your full disposition for your own automation projects.

Service and training

Our cooperation does not end on handing over the system. Thanks to the specific use of remote maintenance and on-site service, we ensure that your systems operate troublefree. Our range of services is rounded off by training courses for your staff and well thought-out maintenance and servicing.



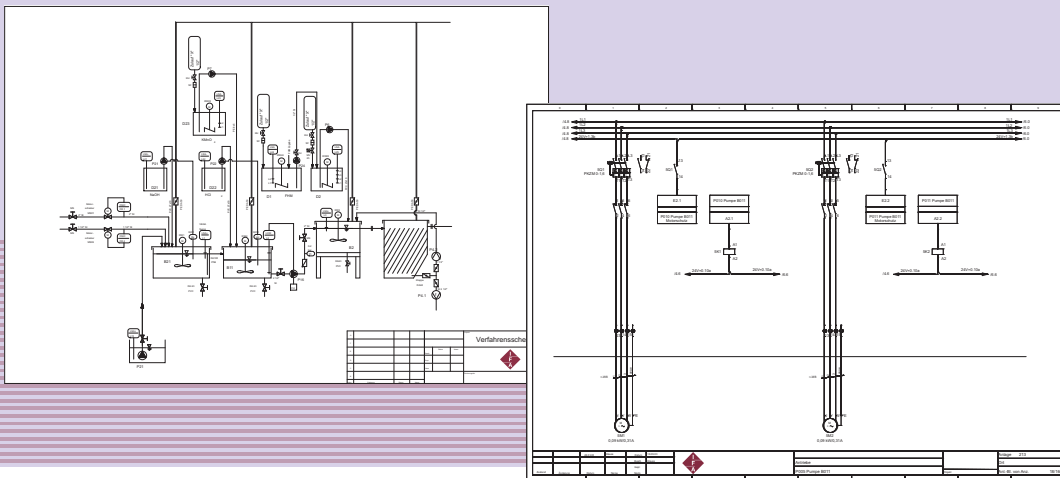
Future-oriented systems demand efficient concepts. We have them.

The exact and systematic analysis of your processes and requirements is prerequisite for a specific concept geared to your needs. This is the basis on which we then elaborate well thought-out, future-oriented solutions.

Modern components and technology, together with the many years of experience accumulated by our staff, guarantee consistent planning and handling of your individual automation task.

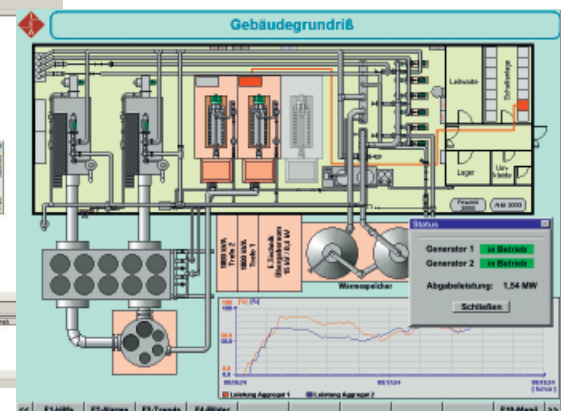
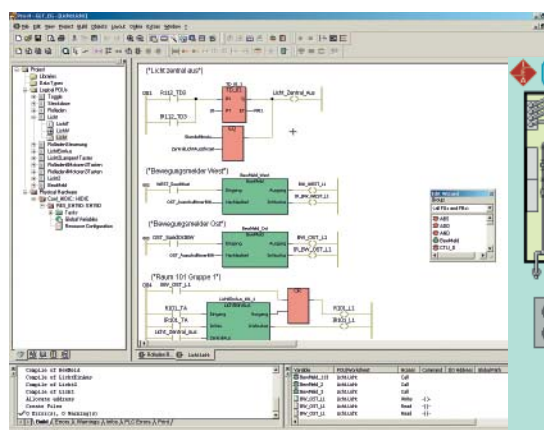
Continuous quality controls guarantee the quality of our work – both in terms of standard systems we have developed, and any individual solutions we elaborate for your specific needs. Compliance with agreed cost schedules and time frames is warranted by continuous checks and controls.

Technical drawing



Electronic diagram

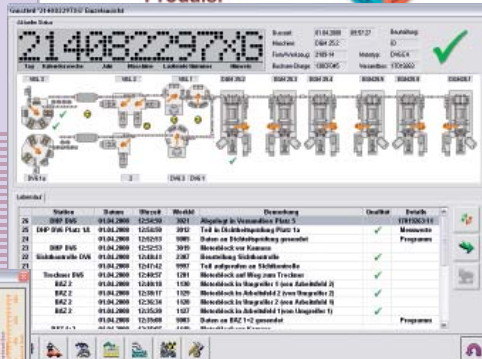
Automation program



User interface

Proficast

Proficast, which was developed by the IFA, is a recording system for casting procedures and a steering system; it can determine the accumulated measurement values of a casting procedure (shot) from light metal casting machines. These measurement values are stored in a SQL database and depending on the upgrading of the Proficast 3 Systems can then be further worked on. All stored measurement values can then be shown in the form of curves or tables to be further analysed.

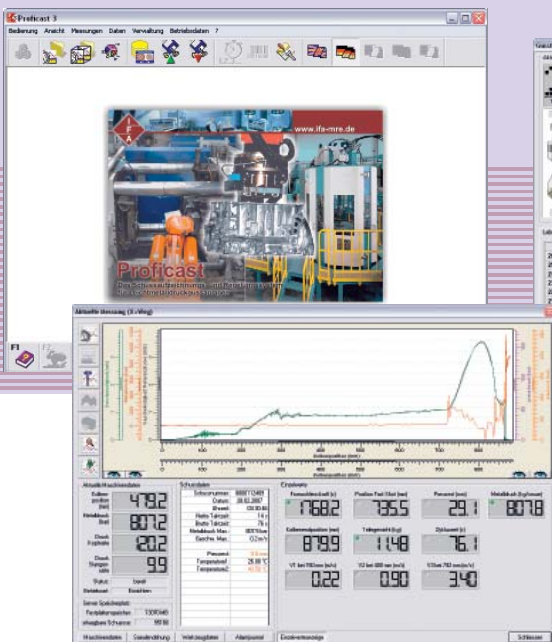
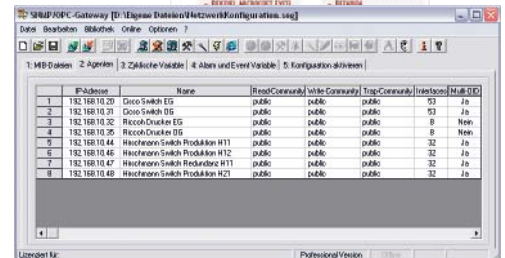
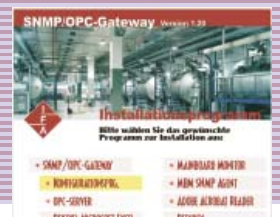


Prodaisi®

As a MES application Prodaisi® offers all necessary functionality for the continuous and transparent production but also for a high and constant level of quality standards in your products. The current manufacturing- and quality data from the individual machines and workplaces from the production is collected directly in Prodaisi® and can be analysed there, that way direct influence can be taken on the steering/controlling of the production.

SNMP/OPC-Gateway

Our diagnosis system ensures smooth operation of your Ethernet industrial network. Increase your operational safety by granting access throughout the whole company to the status information in your production network.



Interdisciplinary solutions. Tailor-made services.



In numerous successful projects for many different branches, we have demonstrated our skill and expertise. Our know-how in the development and implementation of automation solutions can be put to use in many branches, even if the activities and requirements of our customers differ greatly.

All services from the planning through to commissioning and beyond are supplied by IFA from one single source. On the basis of the solutions and plans that we have developed, the systems are manufactured and tested in our modern production facilities by qualified, skilled staff.

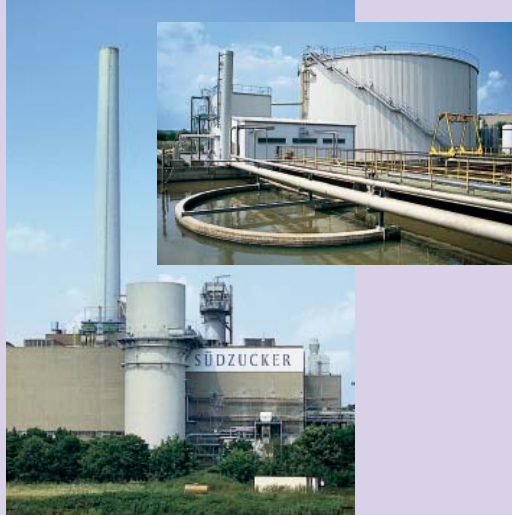
The electrical systems and switchgear are then erected and installed on site in close consultation with the customer by our skilled fitters under the coordinating responsibility of our installation managers, even in Ex-zones or areas under water management law. The signal test and procedures for programming the parameters of peripheral equipment act as the basis for successful commissioning of the automation program and user interfaces. Quality controls and function tests in compliance with all necessary standards and safety regulations guarantee a constantly high level of manufacturing quality. Service and regular maintenance guarantee troublefree operation of your systems and round off our range of services.

Project management



Environmental technology

Prantner, Reutlingen
Groundwater treatment
Air and water are among the most valuable resources of our environment. Prantner relies on IFA's experience and technical know-how when it comes to the production of its top quality environmental protection systems. We are responsible for both the complete electrical engineering concept and also for rating the network infrastructure, developing the necessary software for groundwater treatment, and designing the ergonomic user interface.

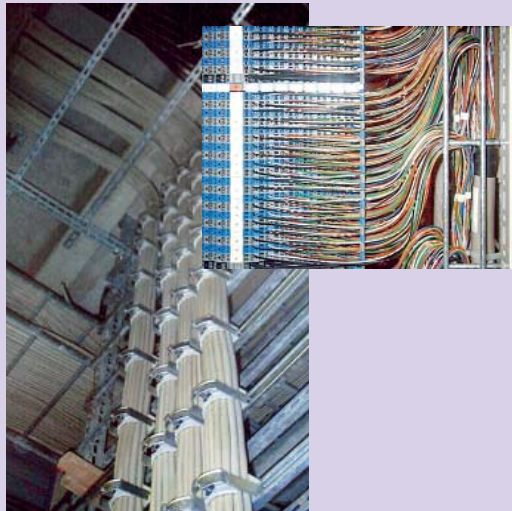


Process engineering

Südzucker, Offenau
Sewage plant
Modern sewage plant not only treat contaminated water but also generate an additional form of energy in doing so – bio-gas. When it came to treatment of the sugar beet washing water in a two-stage anaerobic sewage system run by Südzucker, IFA planned and installed the entire electrical systems, produced the switchboards and developed the automation software required for the process, together with the user interfaces for the networked multi-workstation systems.

Aerospace engineering

EADS, Lampoldshausen
Power plant test facilities
Power plant, the crucial aspect of every space mission, have to meet the very highest demands in terms of reliability and service life. This is why the power plant components undergo constant measurements and quality controls. IFA supplies not only the necessary electrical equipment for registration of the measured data but above all, the software required for recording, archiving and analysing the measured data including the database structure.

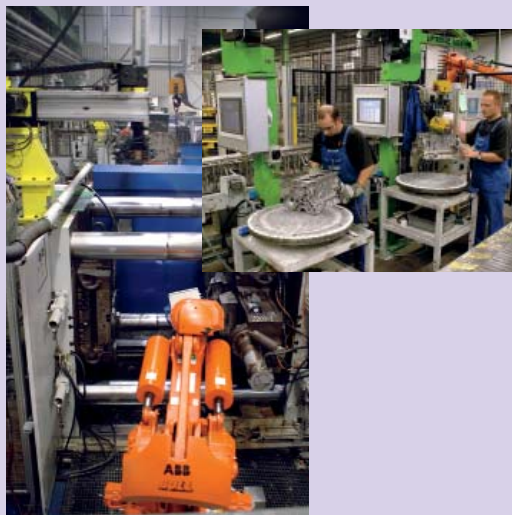


Energy supply

Westinghouse, Mannheim
Nuclear power station modernization
Power stations have to fulfil special requirements in terms of availability and service life. The electrical systems involved have to satisfy the very highest demands with regard to execution quality, retraceability and easy maintenance. IFA as responsible contractor assumed responsibility for setting up the control systems, installing the electrical systems together with assembly management in compliance with the required function and quality controls according to currently valid standards and regulations.

Machine construction

KS-ATAG, Neckarsulm
Light alloy diecasting
Increase quantities even of safety-relevant vehicle parts are being produced in lightweight structures, in order to decrease weight and reduce consumption levels. This gives increasing significance to light alloy diecasting processes. IFA was commissioned by the machine manufacturer to plan and install the entire electrical systems, and to develop the automation software for the machines together with the user interfaces for the networked multi-workstation systems.



Automobile Industry

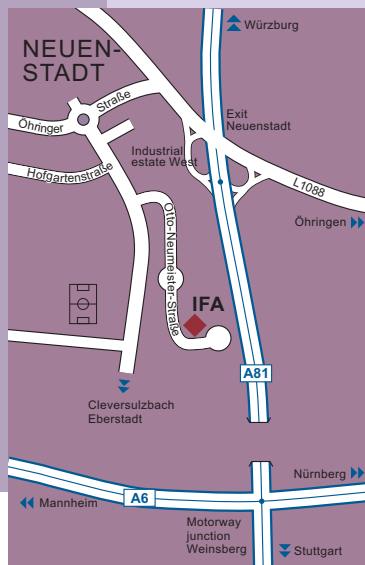
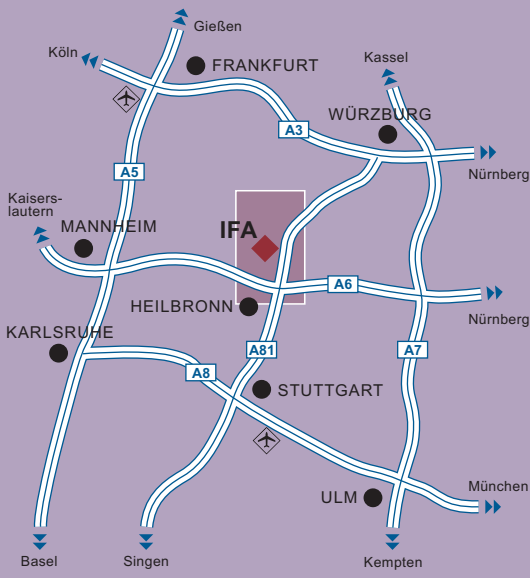
Georg Fischer, Werdohl
The automobile industry demands the highest quality standards in the production of vehicle components. Prodaisi®, which was developed by the IFA, is a system for the controlling of and gathering of production data. It is used in the assembly line for the daily production of 3500 motor blocks and offers all the security needed. It covers all working steps of the manufacturing process and steers the complete flow of all material required. All parts are clearly identified at any time using intelligent cameras and the necessary production steps can then be full-automatically assigned and carried out.

IFA – your partner for automation technology

IFA Mess-, Regel- u. Elektrotechnik GmbH

was founded in 1969 with its headquarters in Neuenstadt a. K. as an engineering bureau for automation technology.

What started up as an engineering bureau concentrating primarily on the selection, rating and commissioning of measuring and control equipment, has turned into a modern services company. Today IFA offers a wide range of services for all aspects of automation technology.



Certified by:



ISO 9001:2008



OHSAS 18001



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