

Cactus Automation

Data acquisition and processing,
monitoring, control and regula-
tion of processes and production.



We've been there

Most people have got to know us through our applications for the water industry. More than one out of every four Swedes has water supplied from a water treatment works which is controlled and monitored by Cactus systems. Over one in ten Swedes have their waste water purified in a plant where Cactus is used.

Our company history began in 1965 with involvement in the field of water treatment: one of our first commissions was for the design planning and delivery inspection of a computer-based monitoring system for the Kuwaiti government.

Working for industry and the public sector since 1965.

We began life as a division of VBB. The name Cactus came later. We are now an independent company.

Many years of work with process automation has not only given us experience of computers and software, but also of all manner of processes, in both industry and the public sector.

There are now a great many Cactus systems in use in Sweden and abroad (some of our original ones have already been replaced by second-generation Cactus systems).

You can read about some of them right here.

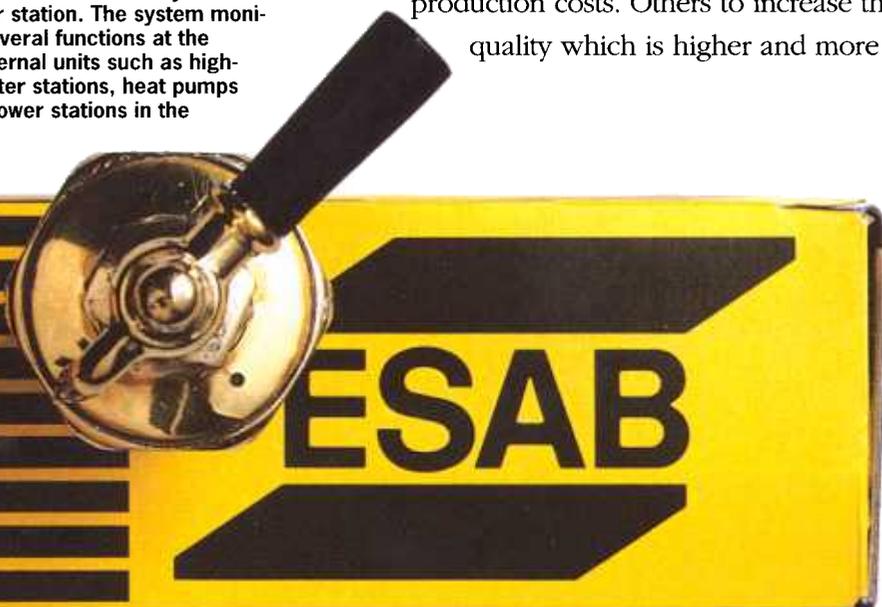
Process automation: the advantages.

The reasons for taking the step into an investment in process computers are varied. Many companies do it to reduce their production costs. Others to increase their profit through quality which is higher and more uniform.



Lista Aluminiumverk of Norway is one of Scandinavia's largest aluminium producers. Cactus equipment controls and monitors its production process. Using processed data from its 264 furnaces, Lista can more effectively prevent interruptions in production. This increases the life of the furnaces, which previously needed to be replaced every few years.

Borås Energiverk chose Cactus as its supervisory system when it modernised its Rya combined heat and power station. The system monitors and controls several functions at the station and also external units such as high-temperature hot water stations, heat pumps and hydroelectric power stations in the region.



ESAB's manufacturing is being planned more and more on the basis of customer orders. The tendency is towards shorter runs and quick changeovers in production. In ESAB's Perstorp plant the Cactus installation acts as a supervisory system for monitoring and controlling a complete packaging line. Changeover times have been cut and production has become more flexible.

ight from the start.

In most processes, monitoring and control produce not only a better environment but also lower energy and maintenance costs.

The risk of failures is also reduced.

By allowing computers to control production it is possible to reduce the costs associated with process changeovers, and even short runs become profitable.

For our clients, the improved control, better overview and enhanced reliability they have obtained have all proved compelling reasons for choosing automation.

Small PC-based systems...

Our offering of solutions and products is very comprehensive - everything from small data gathering systems to large supervisory systems for control and monitoring. When the PC first came onto the scene, not many people would have entertained the idea of using them in the production process. Now we are using PCs for more and more sophisticated tasks.

...or large supervisory systems for control and monitoring.

In large systems with more complex requirements we use workstations in something we call the Cactus System X, CSX.

This is a so-called open system based on the UNIX standard and networked computers (LAN). The choice of machine is quite independent of the software. The system can work with SQL databases, talk to almost anything, and display images with a freely selectable number of objects. Modern windows technology makes this an easy, convenient system for operators.

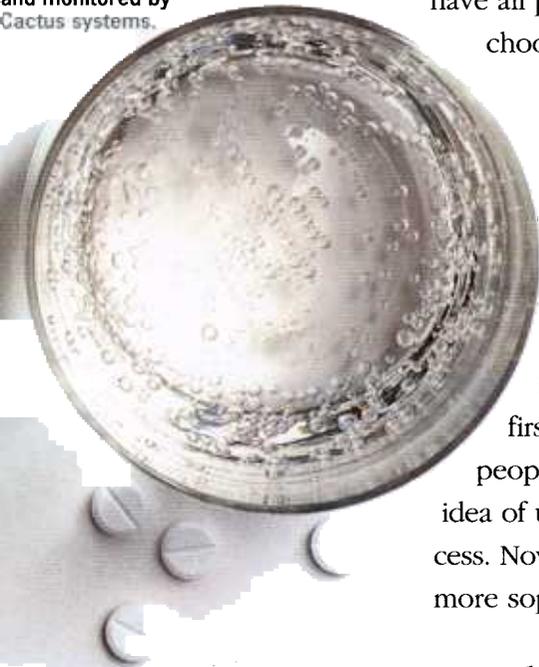
We produce most of the software ourselves. Thanks to progressive upgrades, often in co-operation with our clients, it can do things which many others have failed to achieve up to now.

Above all we have the experts who are skilled in getting to grips rapidly with complex processes.

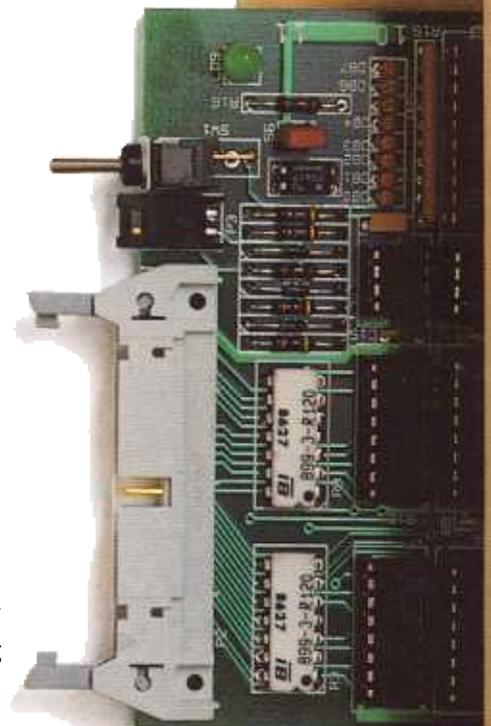
Nättraby Bruk supplies a large part of Europe with toilet tissue and paper for hand-drying. Their Cactus system has enhanced their overview of production and stores. Process interruptions have decreased and output has become more reliable. Product quality has been made more even.

The Volvo Car Corporation uses Cactus for the computer-controlled testing equipment of its electronic control units. For new components, Volvo has removed the need for complex and costly readjustment which the old testing system required.

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One of Pharmacia's pharmaceutical plants has a Cactus system which controls the entire production process. Pharmacia also uses the system as an aid in producing extensive documentation.



In the past a single centre monitored all the separate lines and trains in the Stockholm Underground. Now each line has its own operations centre. Cactus supplied a complete turn-key system to monitor all 103 stations.

Service, documentation and training.

Heavy costs for service and replacement parts can quickly undermine a low selling price. Cactus offers service and maintenance agreements of several levels.

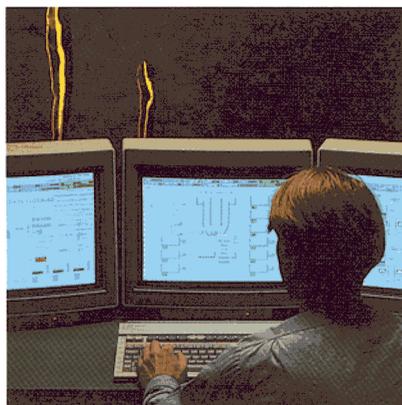
For all our clients we provide a software service via modem directly from our premises. We can be working on your case within 30 minutes. You can't get much faster than that.

New computer equipment in a plant means adjustment and new routines for personnel. For the

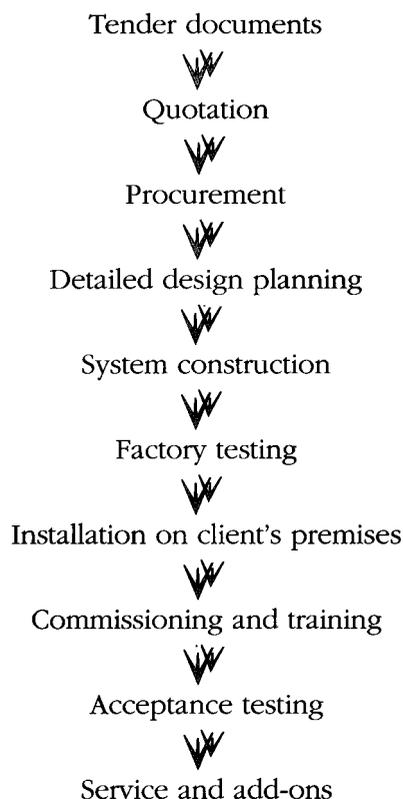
new installation to be a real success, the client's personnel need to feel a sense of involvement in the project. That is why relatively comprehensive information and training packages are usually a part of all

our projects.

Very detailed documentation is supplied with every Cactus system. It is designed to allow even personnel who are unfamiliar with computers to locate and use information very quickly.



The co-operation process in most projects.



CACTUS

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