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Ready to explore new paths to sustainable success: with integrated automation solutions for the areas of production data acquisition, factory automation and quality assurance.

WE MAKE AUTOMATION

THAT BRINGS YOU SUCCESS

PROVITEC develops futureproof solutions for your automation needs

Our team will guide and support you from the initial concept all the way through to mass production. We employ cutting-edge, secure systems which ensure that your automation project is perfectly implemented through our solutions.



INDUSTRIES

with the highest standards rely on PROVITEC.

- Mechanical engineering
- Automotive
- Process engineering
- Environmental protection and many more ...

OUR CONTRIBUTION

PRODAISI®

The basic **software for the production and manufacturing control system** revolving around the acquisition, storage and analysis of data. Prodaisi® allows you to quickly and easily visualise and analyse production data, and control your system.



Automation

Precise, fast and safe processes with the highest degree of repetition accuracy.



Traceability

A continuous chain of information enables you to achieve improvements and increase your production processes.



Quality control

Outstanding levels of customer satisfaction through the use of advanced quality assurance systems.

“ With our many years of experience and the comprehensive expertise of our motivated team, we guarantee solutions for sustainable success.

Your task definition will be analysed by our staff and translated into a solution concept.

Through consistent improvement and optimisation, the solution concept will be perfected, to guarantee a fast and secure return on your investment.”

— Robert Endress, CEO

TAKE FULL CONTROL

OF YOUR PRODUCTION

PRODAISI®

continuously connects all automation levels.



Prodaisi® connects the visualisation and MES tasks in a single system. An standardised user interface, both for operating the systems and for the MES tasks, enables straightforward interaction for all employees, from users to managers. Direct interfaces to all commonly used PLCs (e.g. Siemens S7, B&R, Beckhoff, etc.), as well as the most popular ERP systems (e.g. SAP), make a continuous automated structure possible, built on Prodaisi.

PRODAISI®: the innovative manufacturing execution system

For consistent, transparent manufacturing as well as for invariably high standards, PRODAISI® is an MES application with all the necessary functions. The current manufacturing and quality data from the individual machines and the work stations in the production department will be recorded directly in PRODAISI®.

PRODAISI® OPTIMISES YOUR PRODUCTION



Collecting and archiving data

The production data is determined directly from the connected machines or recorded via the monitor work stations and stored in the SQL database.



Editing and documenting data

Continuous lifelong documentation of all production and quality data. Simple statistical editing of the data for work preparation, quality management (QM) and production, as well as company management and controlling.



Displaying and analysing data

All data can be analysed in a simple and structured manner with respect to the required tasks. Decisions regarding production and work preparation are simplified and form the basis for quality management and production efficiency.



Controlling the system

With material flow control, inventory management, route analysis and other modules as well as direct access to system and machine data, Prodaisi® optimises your entire production.



YOUR BENEFITS

- Transparent product manufacturing from the supplier right through to the customer
- Detailed information about machine workload, faults and downtime
- Logging of all quality management activity
- Traceability of each production step
- Linking production and delivery data with the order, accounting and delivery processes of the ERP system
- Always up to date on what's happening in production

PROVITEC MAKE YOUR SYSTEM RUN MORE EFFICIENTLY

We transform your individual requirements into solutions

Process technologies require high standards. Choosing the right automation partner is therefore an important decision with far-reaching consequences – because the reliability and performance of your process system is of crucial importance for the future of your business.

IMAGE PROCESSING

Everything clearly visible.

Thanks to modern imaging systems; difficult tasks can be processed quickly, easily and reliably. High quality expectations can be met through various camera systems. This allows time-critical tasks to be executed safely within the required cycle time. Whether a part's position is to be determined, bore holes and surface characteristics of a part checked or part identification numbers recognised by reading a data matrix code, **Provitec has a reliable solution and can automate your systems according to your specifications.**



OUR CONTRIBUTION TO YOUR AUTOMATION



Technical management

Through our integrated project management, we offer a high degree of operational, investment, and future security.



Retrofit

Modernise your systems with advanced technology: quickly, reliably, sustainably.



CAD systems

Hardware design with the latest CAD systems: well planned, structured and futureproof.



Operation and monitoring

Provitec visualises your systems: clear, user friendly and intuitive to operate.



PLC systems

Automation software to meet the highest demands: straightforward, reliable, service-friendly. Compatible with all PLCs commonly available on the market (e.g. Siemens S7, B&R, Wago, ...).



High level languages and database systems

State of the art technologies and databases: sophisticated, object-oriented and structure-optimised.

PROCESS ENGINEERING

FOR SUSTAINABLE SOLUTIONS

We optimise production processes efficiently and sustainably

We are the right partner when it comes to process engineering tasks with our proven, sustainable and futureproof process technologies. Benefit from our decades of experience across all aspects of process engineering.

OUR CONTRIBUTION TO YOUR PROCESS ENGINEERING TASKS



Technical management

Comprehensive project management for a high level of operational reliability and investment security.



Process control system

Batch control and batch tracing are possible at all times when our systems are deployed.



P&I diagrams

We can produce piping and instrumentation diagrams for you in conjunction with your process engineers.



Operate and observe

Provitec visualises your systems: clear, user friendly, intuitive to operate.



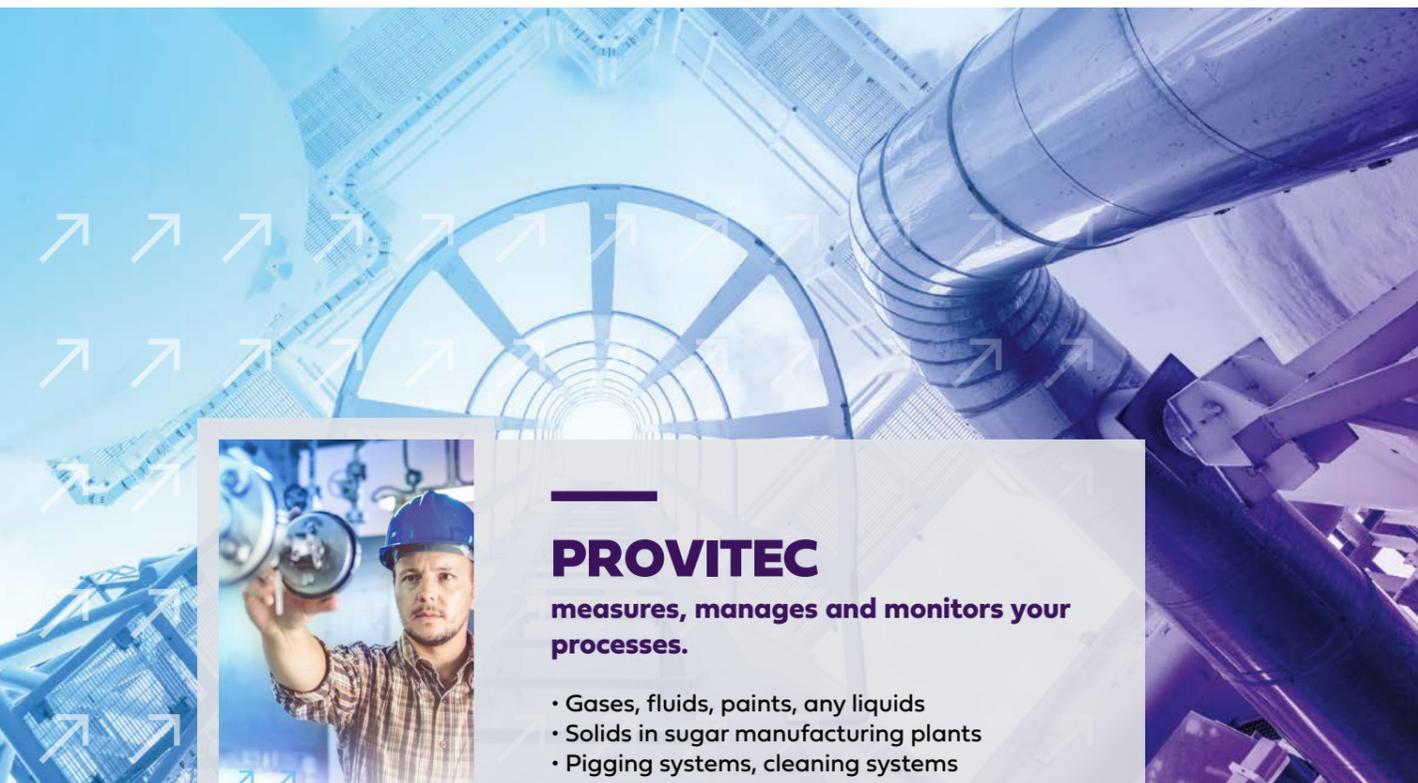
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PROVITEC

measures, manages and monitors your processes.

- Gases, fluids, paints, any liquids
- Solids in sugar manufacturing plants
- Pigging systems, cleaning systems
- Energy self-sufficient buildings, energy management, CHP modules and many more ...

GOOD JOB!

SUCCESS STORIES



Bleichert MECHANICAL ENGINEERING

Provitec supplied the control technology in its entirety as well as the automation software for the Daimler MDC engine plant in Arnstadt, Germany. For this contract, Provitec's chief focus was on rapidly and reliably fulfilling the project requirements.

↘ Facts + figures

- Development of automation software for Siemens S7 Transline
- Connection to Prisma production data acquisition system
- Design of the entire electroautomation system with Eplan P8
- Build, delivery and installation of the 26 control cabinets and 33 control panels in the electrical system

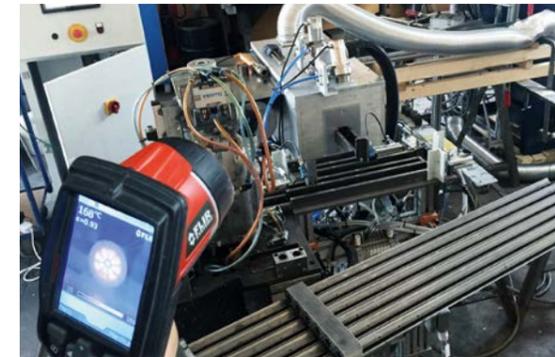


Häberlein TIMBER INDUSTRY

From tree to finished beam or board. With PRODAISI® as the management execution system, production can be recorded, analysed and controlled with ease.

↘ Facts + figures

- Transparent manufacturing – from supplier to end customer
- Detailed information about machine workload, faults and downtime
- Logging of all quality management activity
- Always up to date on what's happening in production
- Technical support from concept to mass production



Hidria Bausch MECHANICAL ENGINEERING

High speed heating systems for the removal of oil residue from components for the automotive industry.

↘ Facts + figures

- Heating of components through induction unit
- Heating to over 200 °C in just a few seconds
- Control of system and logging of all production data
- Display of temperature changes and evaluation of temperature data for quality analysis
- Environmentally responsible thanks to high energy efficiency



Georg Fischer AUTOMOTIVE

At Georg Fischer, PRODAISI® controls the production of 3500 motor blocks every day. All production steps, from casting, further processing, quality control and delivery, are managed with PRODAISI®.

↘ Facts + figures

- Manufacture of 3500 motor blocks per day
- Realisation and recording of approx. 60,000 manufacturing orders per day
- Production control of 18 machines in two lines
- 16 PRODAISI® terminals for system operation, quality control and shipping
- 14 camera systems for part identification via data matrix code
- PRODAISI® database system with 2 redundancy servers
- Data exchange with higher based SAP system



Honeywell KCL CHEMICAL INDUSTRY

Protective gloves are produced fully automatically here, in about 200 various models, starting with refined chemical protective gloves, through to special solutions for protection against heat, cold and cuts, as well as gloves for use in high voltage areas.

↘ Facts + figures

- Manufacture of 2000 protective gloves per day
- Realisation and recording of approx. 280,000 manufacturing orders per day
- Production control of 1 robot, 17 immersion baths, 7 ovens and 5 user work stations on 2 levels
- 4 PRODAISI® terminals for system operation
- Fully automatic optimisation of production during the process sequences
- Dynamic order management and optimisation of manufacturing



Kurz AUTOMOTIVE

Production line for deburring and packaging of foam parts according to type for the automotive industry with production design, shipping control and management of transported empties subject to deposit controls.

↘ Facts + figures

- Manufacturing of parts for the automotive industry
- Completion and logging of approx. 40,000 steps a day
- Production control of the system over three storeys, including a lift
- Prodaisi terminals for system operation
- Control of laser system
- Connection of camera systems and label printer
- Production design, production monitoring, shipping control and empties management

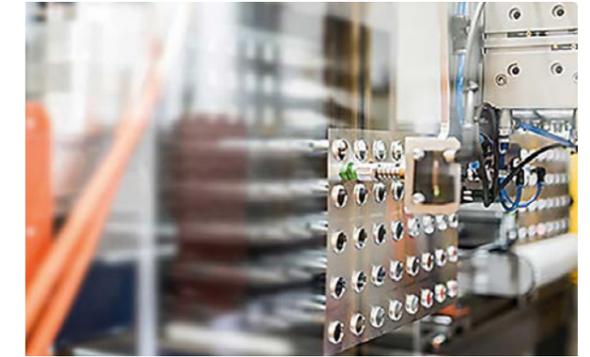


UBE Europe MECHANICAL ENGINEERING

Use of control software in diecasting process, particularly in squeeze casting. High grade aluminium components with new rheo casting. Provicast® in foundry machines and systems.

↘ Facts + figures

- Acquisition of the path and speed of the shot piston. Recording of the metal pressure
- Measurement resolution adjustable from 1 ms to 200 ms
- Maximum resolution of the shot piston position 10 µm
- Up to 256 analogue measurements.
- Shot piston control as an option
- Quality assessment of metal pressure and piston speed profile
- Simple envelope definition through the use of a reference shot
- Long-time recording of analogue measurements
- Statistical analysis of the shot data
- Tool and mould management



Kühner Wärmetauscher MANUFACTURER OF METAL GOODS

Quality optimisation thanks to a new fin scoring machine: with the aim of positioning the company for the future, Kühner decided to invest in a new and innovative fin scoring machine. The project involved developing an original system in collaboration with Provitec, supported by Kühner's many years of experience in this specialist area. The new machine boasts improved quality, higher efficiency and flexibility.

↘ Facts + figures

- 8 servo axes
- Unattended production
- Torque logging
- Finned panels for grid sizes 1 x 4 to 8 x 8, in 35 mm and 40 mm grids
- Unfinished lengths up to 2650 mm

HISTORIE

SINCE 1994

Establishment of Provitec GmbH on 8 July 1994 from design engineering firm Baum und Endreß GbR.

1995

Annual turnover of DM 500,000, first full year of trading

1997

Inclusion of Provitec GmbH as a limited partner in the IFA Group in Neuenstadt am Kocher

Move to Öhringer Strasse 24

2001

Development of Provicast® as a measuring and control system for diecasting machines

Real-time controls with B&R systems for mechanical engineering applications and associated process monitoring

2003

Development of the PRODAISI® production control and manufacturing execution system

2011

Provitec GmbH, together with the PRODAISI® system, withdraws from IFA Mess-, Regel- und Elektrotechnik GmbH

2013

Introduction of an integrated management system based on international regulations EN ISO 9001 and OHSAS 18001 with successful certification

First PROJECTS

- Bayer: vacuum dryer (Leverkusen)
- Heraeus: various projects (Hanau)
- UBE: squeeze casting system (KS KOLBENSCHMIDT, Neckarsulm)



1996: company brochure



2003: Provitec develops the PRODAISI® production and manufacturing control system

2014

Purchase of premises at Robert-Bosch-Strasse 1 in Neuenstadt a. K.



2017

Systems partnership with B&R

2018

Strategic collaboration with ITAC

EUROGUSS trade fair: exhibition stand together with ITAC

2020

B&R and Provitec pave the way for the future for Industry 4.0 and digitisation: the Wilhelm-Maybach vocational school in Stuttgart, Germany, receives an ACOPOStrak system, a flexible transport system with high-speed diverters

2022

Moritz Noe and Sebastian Vogt are appointed as shareholders and managing directors and play a key role in shaping the future of the company

Newspaper Heilbronner Stimme, 12 August 2013

Provitec pushes strongly ahead

Neuenstadt am Kocher
The automation specialist
Provitec is set for growth.
The company is predicting a turnover of 2.3 million euros this year, compared to only 1.3 million euros in 2012.

The number of staff employed by the company since its foundation in 1993 by Robert Endress has now increased to 20. Provitec is a developer and full-service provider of automation solutions, with a clientele mainly comprising automotive suppliers and mechanical engineering firms.

The company, which is located in the Unteres Kochertal business and industrial park (GIK) in Neuenstadt, sets great store by its integrated management system and continuous improvement processes. Consequently, Provitec recently underwent certification in three areas of its business: quality management, corporate environmental management and occupational safety management. "It was hard work but it was worth it," said CEO Robert Endress upon receiving the certificates from auditing organisation Dekra.



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PROVITEC

