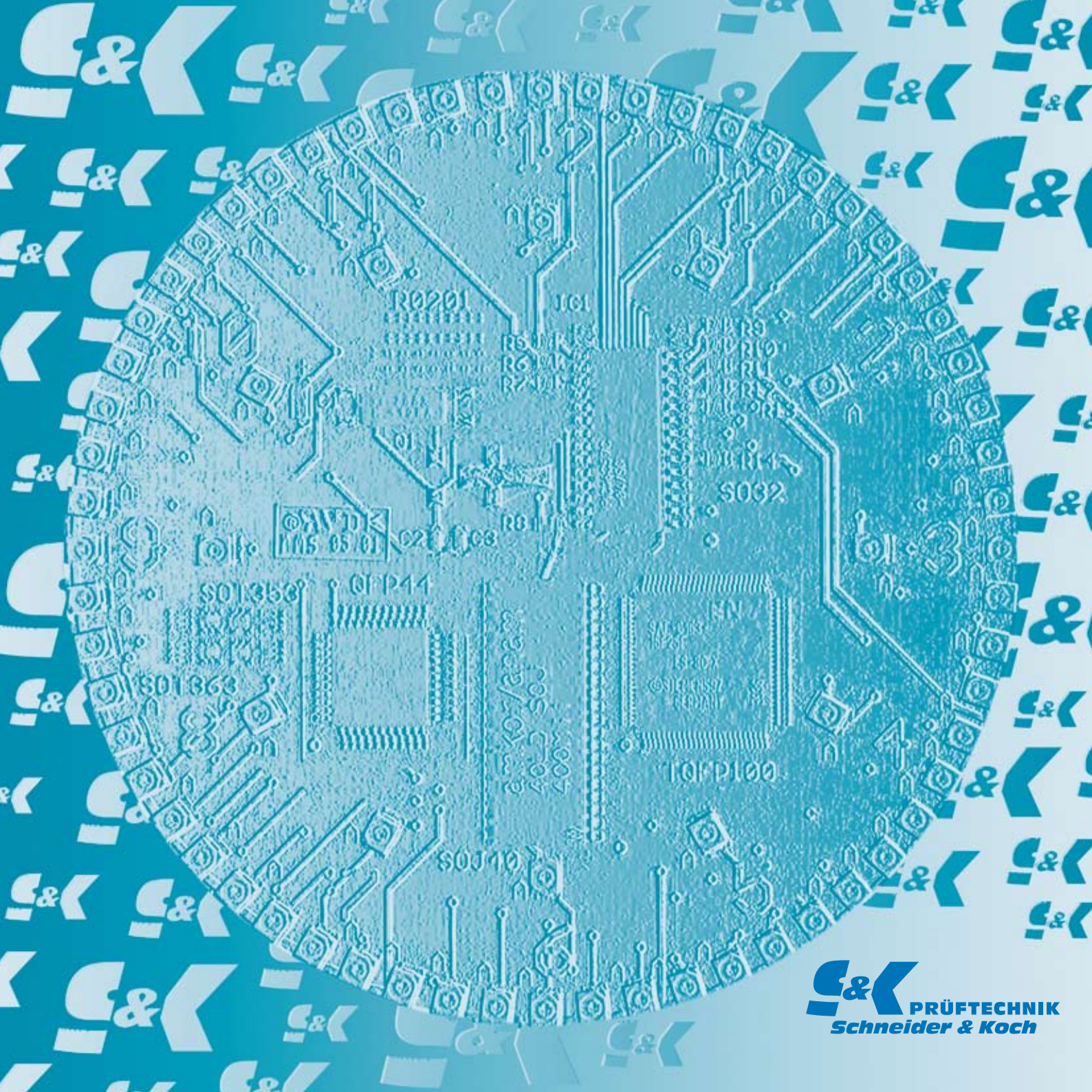


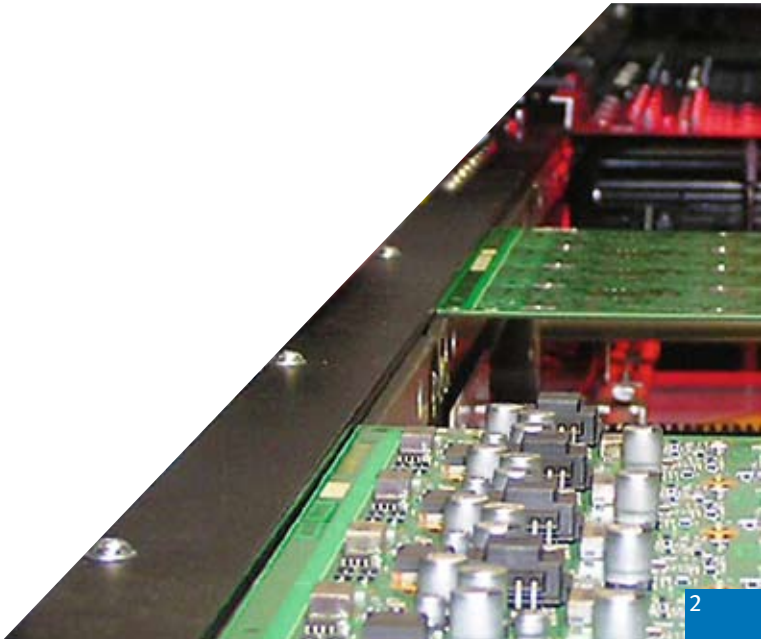
PRÜFTECHNIK
Schneider & Koch

Our offer –

New standards were set approximately three decades ago with the set-up of the core business area of Automatic Testing by the engineer Hans-Otto Schneider.

With the PRÜFTECHNIK Schneider & Koch Ingenieurgesellschaft mbH, today's oldest company in the field of Automatic Testing was created. Two decades ago, the company settled in the Technology Park of the University of Bremen in order to set new essential trends also at the interface between science and economy. So when launching the CombiVision system in 2002, for instance, optical inspection and electrical test options in one device were introduced for the first time.

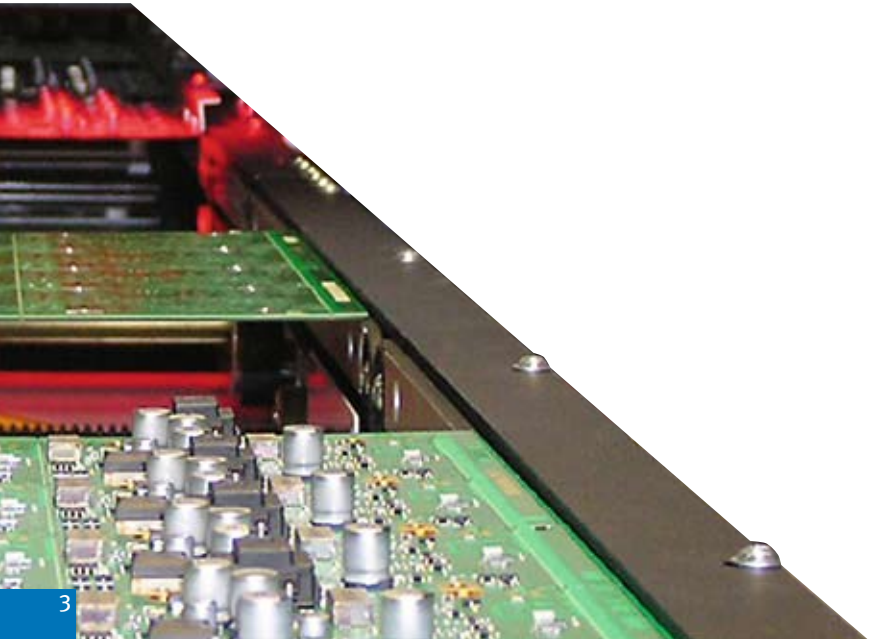
The company's presence is significantly aimed at new targets: The modern brand appearance as S&K PRÜFTECHNIK Schneider & Koch as well as the set-up of the city of Stadthagen location are visible signs for this.



Experience, innovation and vision

Nomen est omen (the name says it all) – To us, vision does not mean future, but as a forerunner in the areas of Automatic Optical Inspection (AOI), such as Automatic Test Equipment (ATE) it already became the presence: systems which are concretely aimed at measurable customer benefits and solutions.

To us, vision also means to not only want future customer solutions, but to continuously develop them. Aimed at this is the work of a highly competent PRÜFTECHNIK Schneider & Koch-team who can hark back to extensive experiences in order to prove themselves every day.



AOI –

Due to increasing miniaturisation of conventional electronic test procedures, electronic assemblies and devices which are produced using state-of-the-art manufacturing technologies can only be tested in a limited way using a lot of effort. In order to be able to meet the high quality demands anyway, other test procedures are required. Independent of the structure sizes, of the assembly and of the electrical access, they must be able to be used quickly and easily.

Optical test procedures come up to these demands. They are not reliant on electrical contacting, and they allow for tests which so far could not be realised using electronic methods.

Furthermore, the otherwise common visual inspection becomes unnecessary.

Optical test procedures are particularly appropriate to control the manufacturing process in order to detect and remove errors in time. So the test can be reduced to checking for the electrical function of the assembly.

This is the basis for a reliable process control using LaserVision which is designed for the control of the equipment and soldering process.

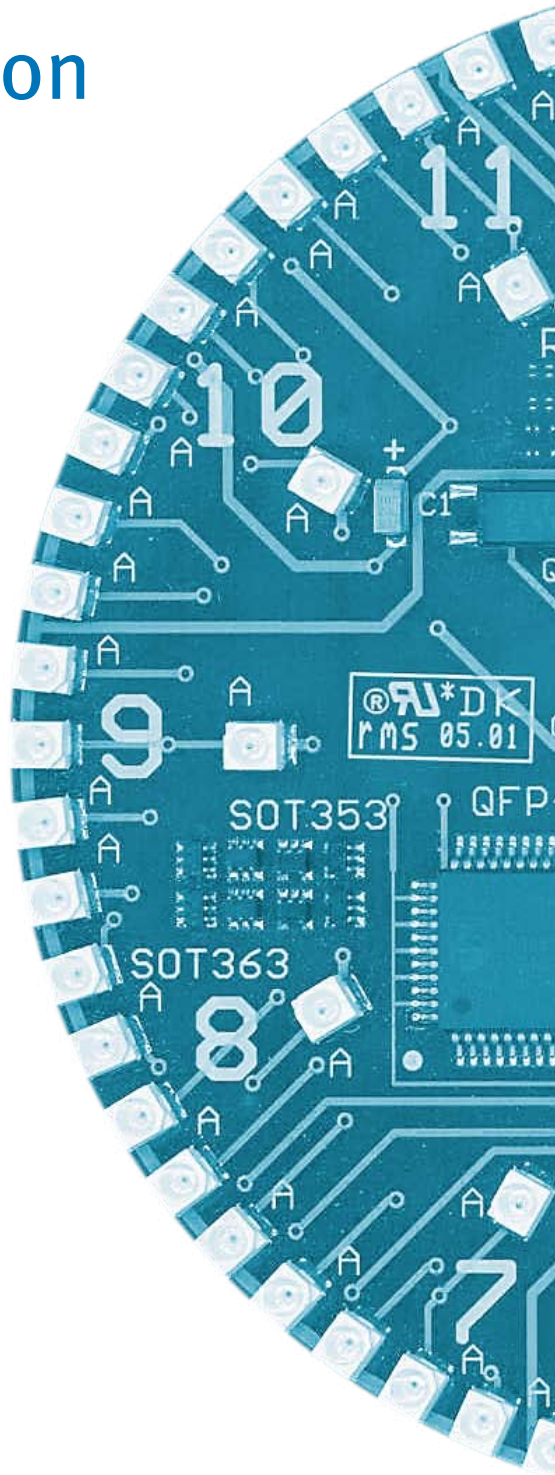
This applies to conventional equipment of wired components just as to the SMT technology.

Automatic Optical Inspection

LaserVision offers an optical inspection system combining three different test procedures. That way, a particularly high error coverage and a low pseudo error rate are achieved. For this reason, LaserVision aims at the process control in each type of electronics production.

LaserVision has a modular system architecture and is easy to adapt to very different requirements by means of numerous options.

LaserVision is available in variants as a tabletop-, standalone- or inline system.



Test adapter – Design and manufacture

Consulting – benefiting from competencies

Commission test and repair for series production

Development and manufacture of test devices

Automatic Optical Inspection, LaserVision System

Automatic Test Equipment, applications

ATE –

With increasing miniaturisation of electronic assemblies and devices manual visual inspections and conventional tests can be implemented in a limited way only.

Innovative test procedures are necessary in order to meet high quality demands on the production without restrictions.

Such procedures must individually come into operation independently of the demands on the delivery quality, the function, complexity and the assembly design. In addition to optical test procedures, electrical test systems meet these requirements. For the development of applications as well as the design and manufacture of test devices, including adaptations, automatic test equipment (ATE) is indispensable. Automatic test equipment is geared to small and mass production as well as designed as individual or inline solution.

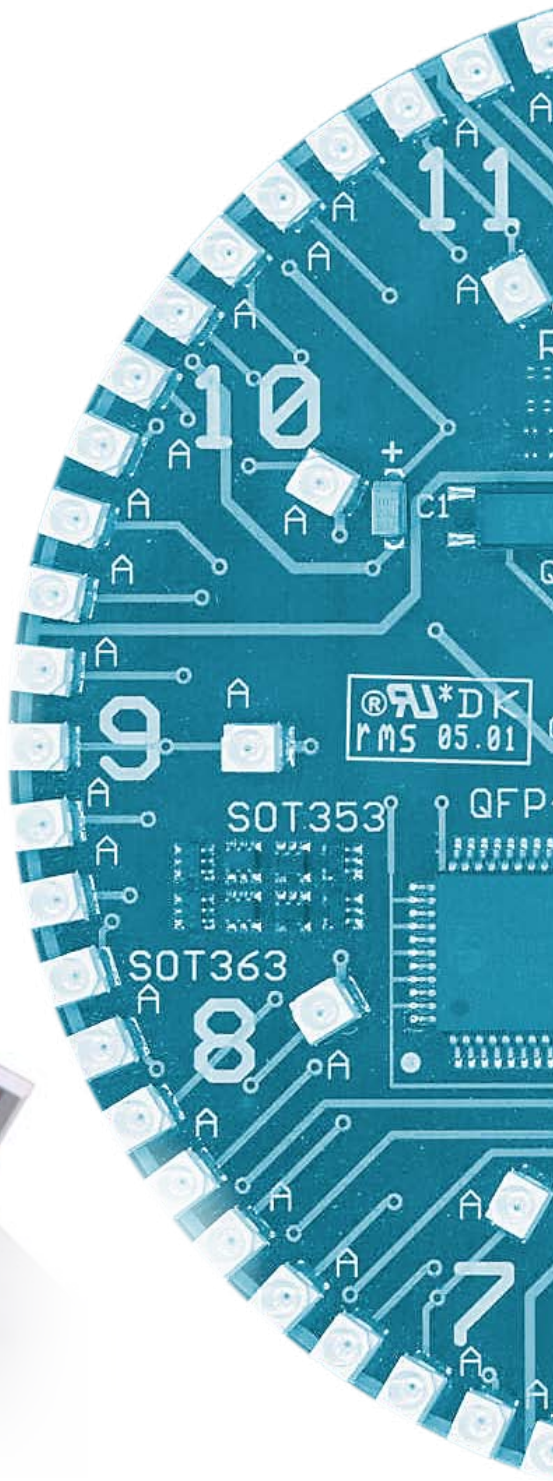
Essential here is the test system software, providing all necessary functions for electrical tests in a state-of-the-art production.

With the modules offered, extensive tools are available to users, also for the realisation of customer-specific test systems.

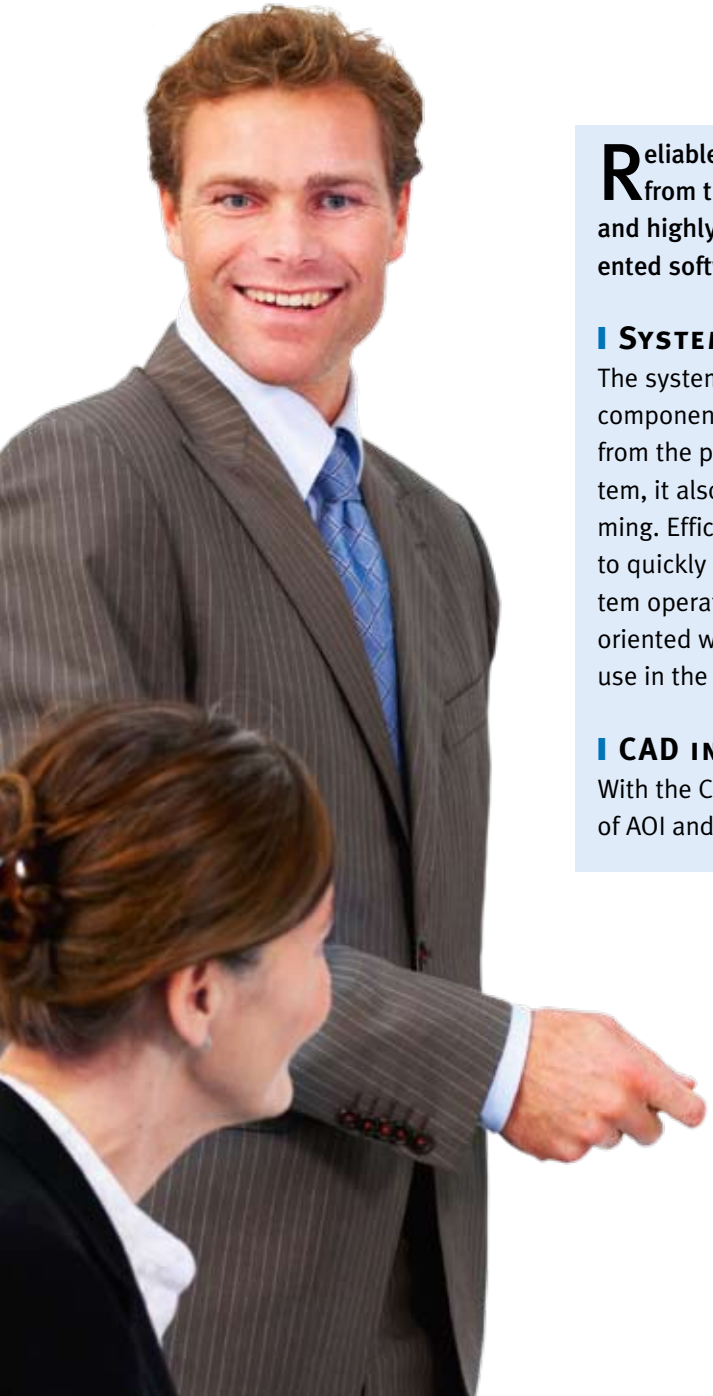
Automatic Test Equipment

Depending on the relevant number of pieces and the complexity of manufactured assemblies, test methods must always be defined under cost-benefit aspects. While doing so, special value is attached to a quick test program creation and short set-up times in case of product change.

In the area of ATE applications, the development of test programs takes place for standard board test systems. The adapters are designed and manufactured as customer-specific solutions. Furthermore, commission tests and repairs for the series production are an important service offer.



Software and consulting –



Reliable test results always emerge from the sum of reliable systems and highly up-to-date, solution-oriented software.

System software

The system software forms the core component of the test systems. Apart from the program creation at the system, it also enables offline programming. Efficiently designed tools lead to quickly measurable successes. System operation is designed in a user oriented way, enabling an optimum use in the manufacturing process.

CAD integration

With the CAD converters for the areas of AOI and ATE, the user has available a very flexible tool to transform the format of data for program creation.

Repair place

The repair place software rounds off the product range. It offers the user an efficient error detection by means of a target-oriented search for defined parameters for the repair to be carried out.

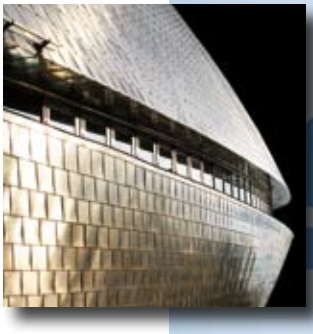
Analysis and statistics

Highly productive tools are available for analysing the achieved test and repair data. In addition, weak points can be detected via statistical evaluations in order to optimise processes in the production as well as the test itself.

Designing processes

We support our customers based on long-term project experience gained in test engineering through consulting in order to lead them to success in a definite and target-oriented way.

In direct cooperation with customers, we create test concepts oriented at their benefits, including all services from the area of "Design for Testability", with complete projects in the sense of project management from the development of a new product to production start-up being taken over, on request. That way, there is always achieved an optimum of system integration.



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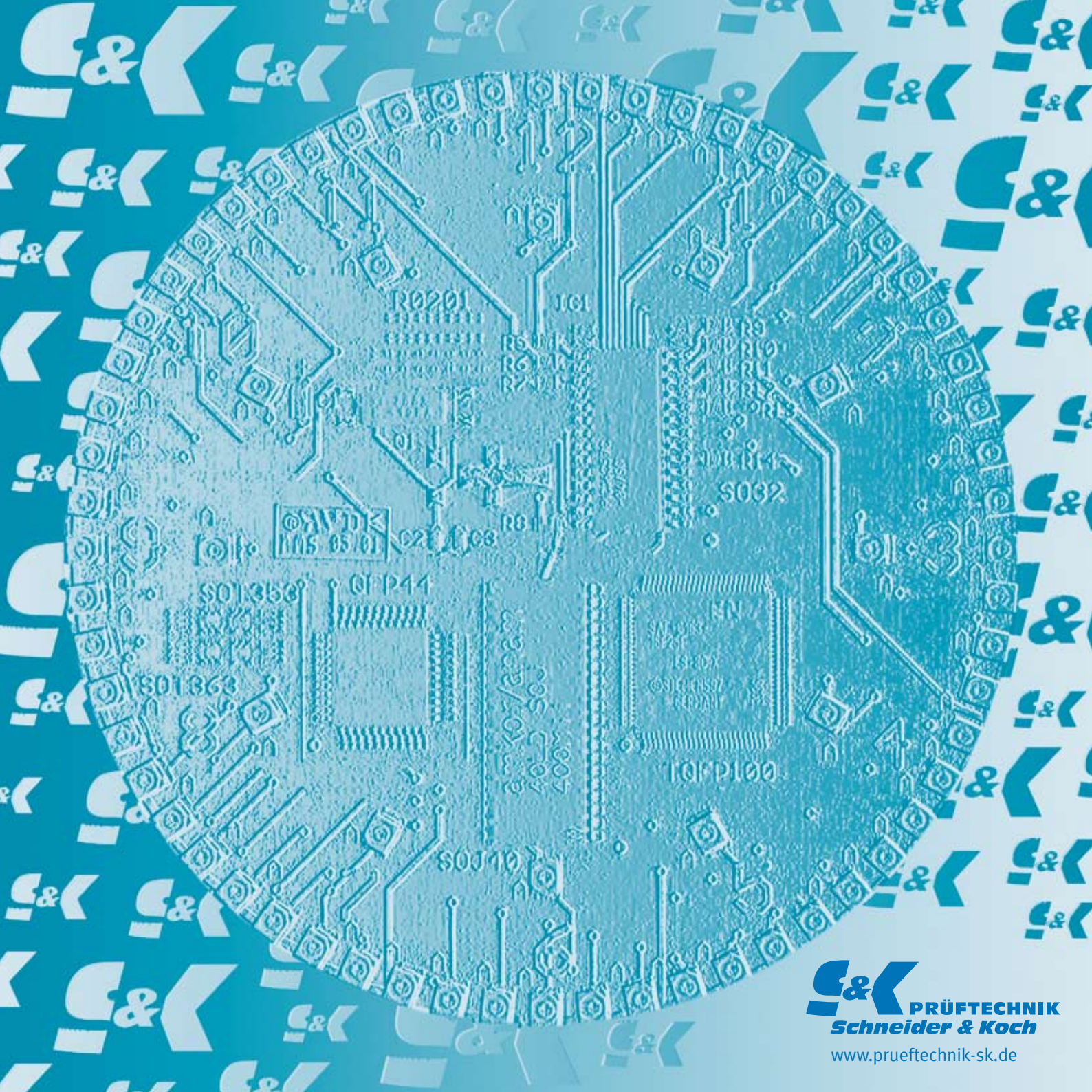

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