

**Automation
for the 21st century**

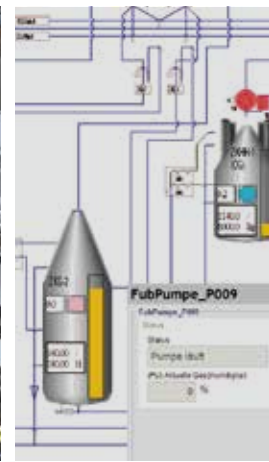
Our core competencies
for professional
and industrial
applications



**Our focus
Industry 4.0**



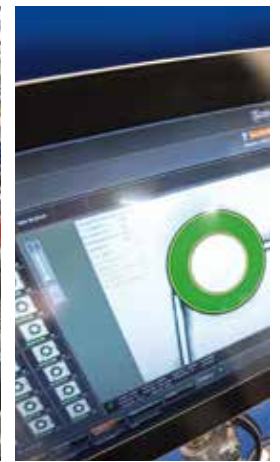
Automation



Process control



Robotics



Vision

We implement your individual automation requirements



KS CONTROL, KS – Schneider/Ruhland GmbH in Bavarian Mintraching near Regensburg, Saarbrücken, and at our USA branch office represents for many years of experience in all areas of communication, control and assembly technology also in machine and system construction. Our customers benefit from the synergies of the most diverse up to date technology which we use individually or in combination: from rational production to efficient assembles and specific machine and system solutions including production control with the system integration of individual industrial software.



Everything from a single source!

On this premise, we plan and construct our automation systems as a general contractor or as a reliable outsourcing partner with our own team of employees including specialists from the mechanical design, electrical-planning and programming.

FR.

Martin Ruhland – *Managing director*

Fridolin Reif – *Authorised signatory & Project manager*

Klaus Plischek – *Project manager/Measurement technology development, Image processing*

Alexander Zierhut – *Project manager for inspection technology*

Andrea Pludra – *Executive assistant*

Practice must always be founded on sound theory

Leonardo da Vinci

We control both!

Our industrial focus

Our uniquely wide range of solutions in the areas of industrial control and automation we are comfortable nearly in all industries.

Our control and automation technology offers future-oriented opportunities to optimise safety and reliability in all facets of production, handling and assembly.



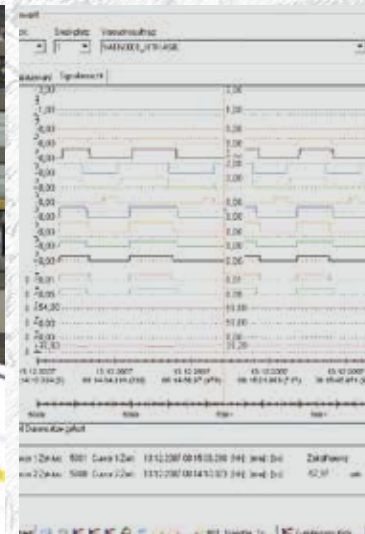
**Automotive technology
(Automotive)**



Beverage and Food industry



Electrical/electronic industry



Measurement and testing technology

Our company concept –

innovative and future oriented



Consultation and system planning

Engineering

Concept planning and development

Mechanical design (3D-CAD)

Circuit design (Eplan)

Cabinet construction

Assembly, machine and system construction

Programming and software development

Commissioning/training

After-Sales Service





Our services

- Competent consultation, planning, project organisation
- Budget planning, scheduling, accounting
- Project support before and during the implementation phase up to system start-up
- Tender preparation
- Selection from a wide range of suitable control and visualisation systems
- Design, development, implementation and programming
- Planning, delivery, installation and start-up
- Everything from small control systems up to the data networking of complex complete systems
- Control cabinet construction
- Commissioning user training
- Project documentation



- Service and remote maintenance

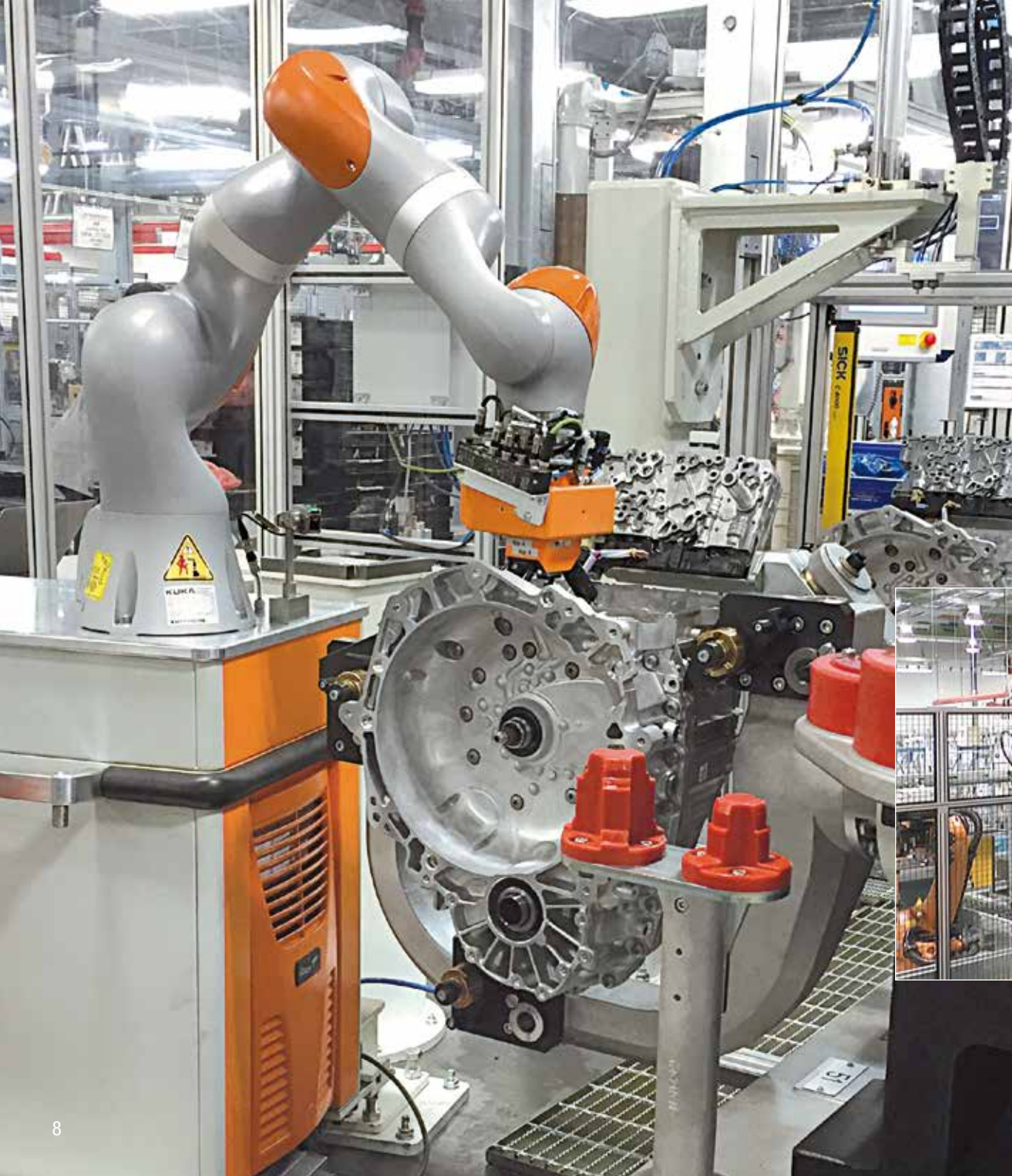
Customised control, Automation and assembly solutions

Controlling machines, mastering and documenting processes:
The requirements for automation are as diverse as our customers!

In this business section, we are primarily active in the art of automotive industry. Our assembly devices and systems and our control stations and test benches thus provide decisive support for zero-error rates and traceability in the increasingly faster model changes of the automotive industry, for example.

Our development engineers, E-planners, control system builders, and programmers have extensive experience in the newest technologies in hardware and software, also in combination with our circuit- and machine construction. We speed up production processes such as component and complete assembly, and product and material handling by individual control programs for the robotic industry.





Our services

- Competent consultation
- Planning, project organisation
- Project support before and during the implementation phase up to system start-up
- Budget planning, scheduling, accounting
- Component selection, preparation of tenders
- Development of software and programming
- Installation, commissioning, user training
- Project documentation
- Service and remote maintenance



Robotic material and workpiece handling

The increasingly sophisticated automation of production and assembly systems using specialised industrial robots this ensures precision with an increased speed of production and reliability. With no supplier preference, we offer our customers the best possible component solution for each customised task from the product lines of our robot suppliers.

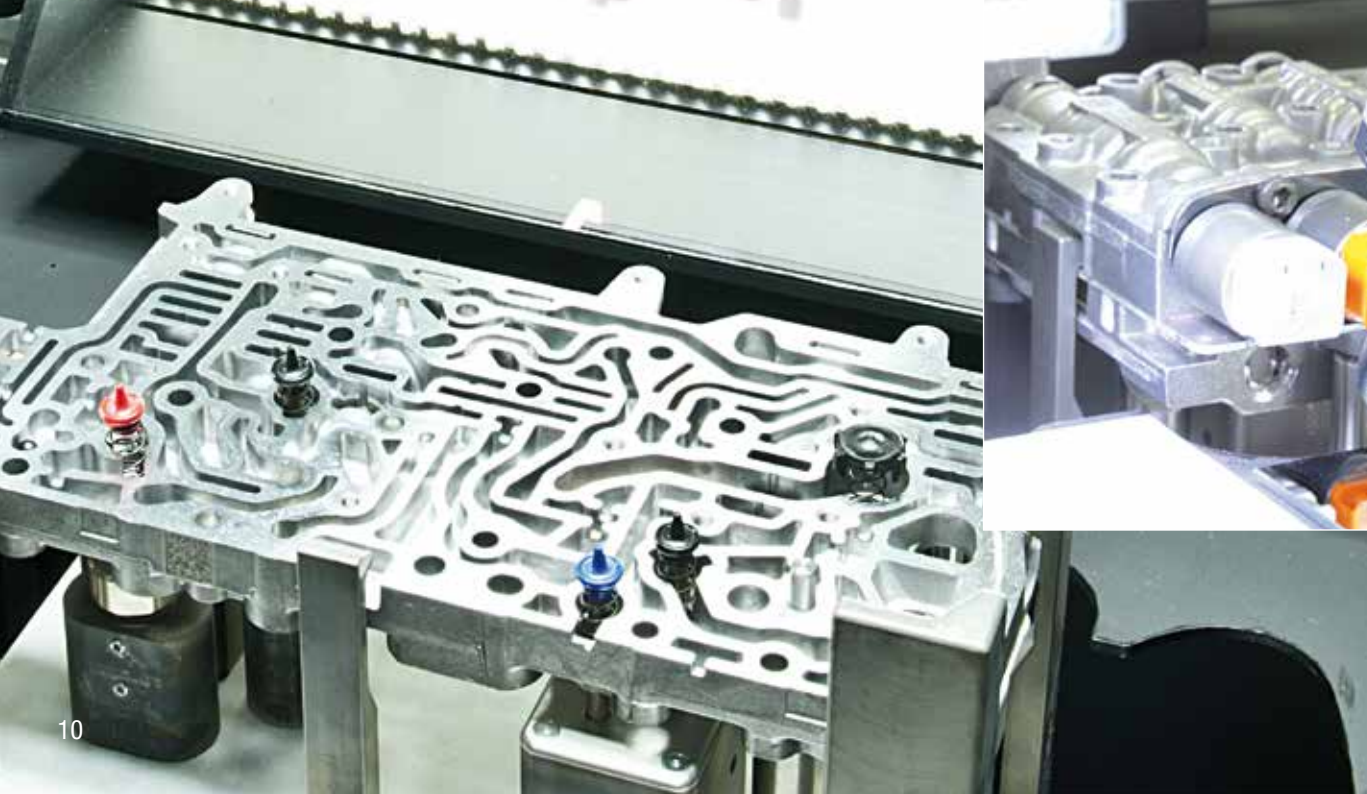
By requirement, we use the portal and robotic systems of such manufacturers as KUKA, EPSON, Fanuc, Adept, Yaskawa and ABB. We develop special gripper systems to fit all popular robot types and create individual, customised programs with special program structure, which makes future updates faster.





Our services

- Competent consultation
- Planning, project organisation
- Project support before and during the implementation phase up to system start-up
- Budget planning, scheduling, accounting, tender preparation
- Development, implementation and programming of customised solutions
- In-house development and production of specific-lighting systems
- Individual evaluation algorithms
- Installation, commissioning, user training
- Intuitive user interface
- Service and remote maintenance



Optical measurement and test systems for production and assembly

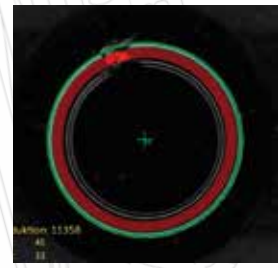
Our range of services in camera technology range from simple individual camera systems (e.g. label controls) to complex multi-camera applications with traceability functions. Especially in applications with a time- and an evaluating technical requirement, we show our strengths through individual solutions – perfectly matched to the specific customer requirements.

Our system scores with its flexible and customised interface data, image, and result archiving. We not only offer solutions in the area of **optical 2D and 3D camera testing**, but also in **3D laser testing**. The user and configuration interface always remains the same. We don't limit ourselves to just the camera application here, but also offer complete stations with hardware and the control segment – and naturally everything from a single source. Our systems are used for **component installation monitoring** (e.g. in the automotive industry) and also in the **semiconductor and food and beverage industries**.



Our services

- Consultation, project planning, production, installation and commissioning
- Modular design with the option of later upgrading from single inspection to full inspection
- Compact stainless-steel hygienic design
- For new installations and subsequent installation for system modernisation
- Smooth, open stainless-steel design for easy access and cleaning
- State-of-the-art system technology with CCD/CMOS cameras and durable high-power LED surface lights
- Integrated network interface, Industrial Ethernet, TCP/IP
- Easy multi-lingual operation by touch panel



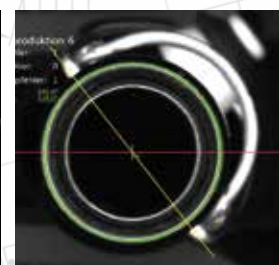
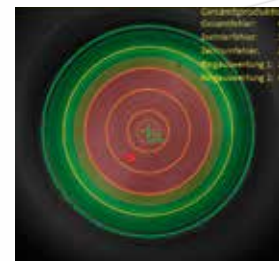
- Service and remote maintenance

Inspection and monitoring system for the Beverage, food and pharmaceutical industry

Our inspection and monitoring systems for maximum product reliability for **empty bottle inspection**, the **monitoring of swing-top bottles** and **fill-level monitoring** are specially matched to the needs of mid-sized breweries and bottlers. In this process, we integrate everything from single machines to complete transport systems and system controls.

Outstanding features include the compact dimensions, which also enable later installation in existing bottling systems, the reliable fault detection by newest state of art in LED, camera and visualisation technology, as well as trouble-free subsequent equipping for future inspection and monitoring requirements.

Through the innovative modular system, makes customised solutions rationally and efficiently possible.





Our services

Cabinet systems

- In-house production of cabinet systems, distributor cabinets, control panels
- Conversion and expansion of existing systems
- Installation of specific and tested components
- Consideration of supplier requirements
- Tests/measurements as per BGVA3 for stationary and mobile cabinet systems
- Network/Ethernet installation
- Field bus installation and testing

Mechanical design

- Development and design (3D-CAD Inventor) of individual components, assemblies, machines and complete systems



- Consideration of production-related requirements with respect to performance and quality increase
- Project planning and technical support

Circuitry construction/EPLAN – Mechanical design / 3D-CAD

As specialists for automation and control systems our work is to the highest standards and quality of manufacture. On the one hand, our qualified electrical and mechanical engineers, electricians, programmers and skilled fabricators handle everything ranging from the design and wiring of components related to performance and control such as terminal boxes, control consoles, and electrical cabinets with high voltage circuitry. On the other hand, they provide innovative developments and the design and assembly of mechanical modules and special machines for inspection, control and automation technology.

The basis for reliable function is formed by our careful and professional electrical planning with EPLAN and 3D-CAD programming in the mechanical design.



Automatic glass panel cleaning systems for large-sized and display aquariums

In our aquaristic business segment, we deal with the development and production of automatic glass panel cleaning systems for the inside panels of large-sized and display aquariums.

The fully automatic battery-operated cleaning Robot **KS SlideCleaner XL**, is designed for example, for home aquariums and show aquariums in restaurants, hotels, exhibition and sales areas and medical practices.

The **KS SlideCleaner XXL**, a fully automated panel cleaning system for large-scale and display aquariums in hotels, zoos, restaurants and exhibition and sales areas, provides the highest level of comfort for aquarium lovers.



KS SlideCleaner XL



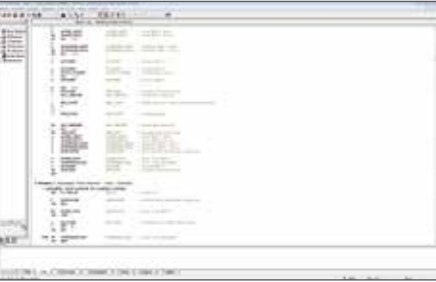
KS SlideCleaner XXL



KS SlideCleaner XXL

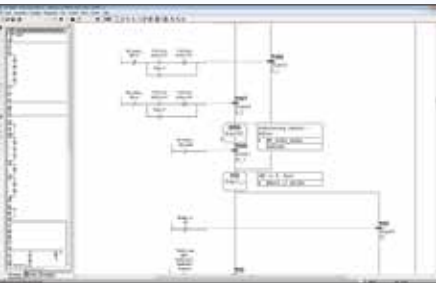


More at
www.slidecleaner.de



**Programming languages
(PLC technology and sophisticated languages):**

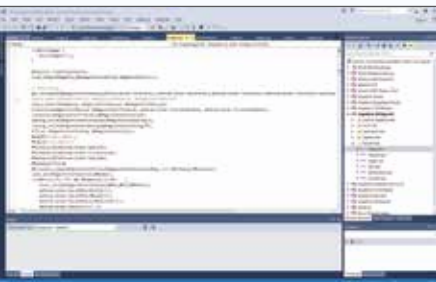
Siemens (S5 / S7 / TIA) B&R Automation Studio
Beckhoff TwinCat 2 / 3
Opcon
Codesys
C++, C#, VB, VB.net, Qt
Allen Bradley database programming
(SQL databases)



Robotics and Servos
KUKA
Epson
Fanuc
Adept
Yaskawa
ABB



**HMI & SCADA-Systeme/
Visual systems**
atvise
Vision Components
WinCC
iFix
Java Script /
HMI on any device /
for all platforms



Bus systems
Profibus
Profinet
Ethercat
X2X
Powerlink
CAN
ASI
Interbus

Image-processing library
Halcon
Open CV



Our locations: Germany and the USA
Our top priority: Customer satisfaction!





www.kssr.de

Head Offices – Mintraching:

KS Control GmbH

Germanenstraße 2
D-93098 Mintraching
Phone: +49 (0) 9406 28449-0
Fax: +49 (0) 9406 28449-29
office@kssr.de

Office Saarbrücken

Südring 1
D- 66117 Saarbrücken
Phone: +49 (0) 681 927 4131
Fax: +49 (0) 681 927 4130
office.sb@kssr.de

USA:

KS Control Inc.

1200 Woodruff Rd
Greenville, SC 29607
USA
Phone: +1 (864) 729 8007
office@kssr.us

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