



Spohn+Burkhardt

Elektrotechnische Fabrik Blaubeuren

Tradition and expertise

Made in Germany for more than 90 years



Joysticks | Control stations | Resistors



Tradition and expertise

Welcome to Spohn + Burkhardt



Foreword from the management.

Spohn + Burkhardt has now stood for quality and competence in a wide variety of sectors for more than 90 years.

This is thanks first and foremost to our qualified employees who tirelessly find solutions for continuously changing requirements.

We always develop new products with the requirement of offering our customers the best possibilities.

We have remained true to ourselves and our longstanding tradition and have grown in step with progress.

Made in Germany
for more than 90 years.

OVERVIEW

Advantages	4
The Company	6
History	8
Product portfolio	12
Joysticks	14
Control stations	16
Resistors	18
Additional products	20
Overview of departments	22
Administrative areas	24
Production departments	26
Assembly departments	28
Delivery	30
Worldwide representatives	32



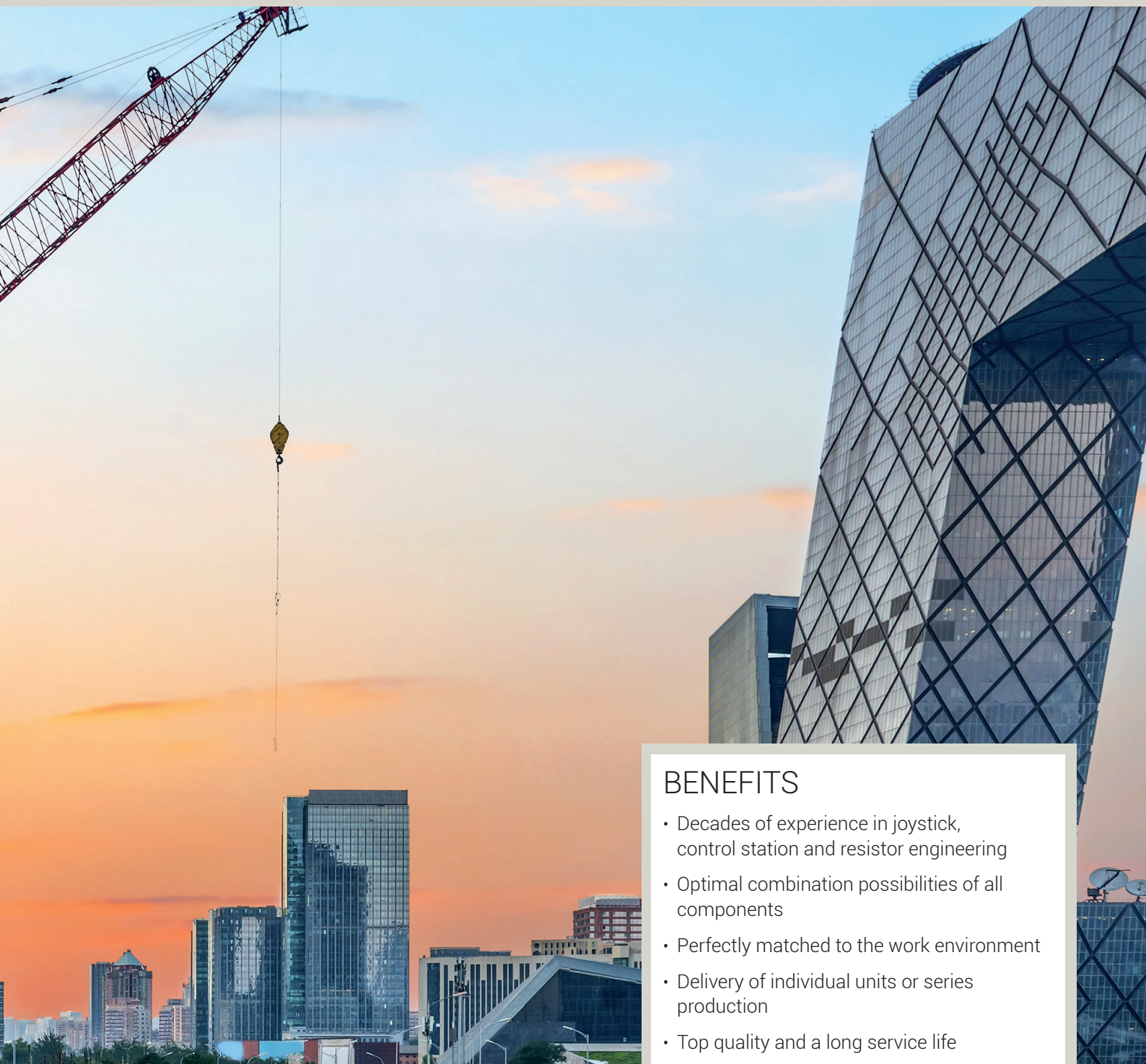
Innovative solutions for

- Crane operation / lifting equipment
- Construction machinery
- Agricultural technology
- Ship applications
- Conveyor / drive technology
- Traffic technology
- Plant engineering

Spohn + Burkhardt

We build it so you can control it.





BENEFITS

- Decades of experience in joystick, control station and resistor engineering
- Optimal combination possibilities of all components
- Perfectly matched to the work environment
- Delivery of individual units or series production
- Top quality and a long service life
- High availability with a worldwide dealer and service network
- Specialization in individual solutions according to customer wishes

The Company

Headquarters in Blaubeuren and Schelklingen factory.

Headquarters in Blaubeuren

With a staff of 250 in two locations, we currently produce a wide range of joysticks, control stations, and resistors in widely recognized top quality.

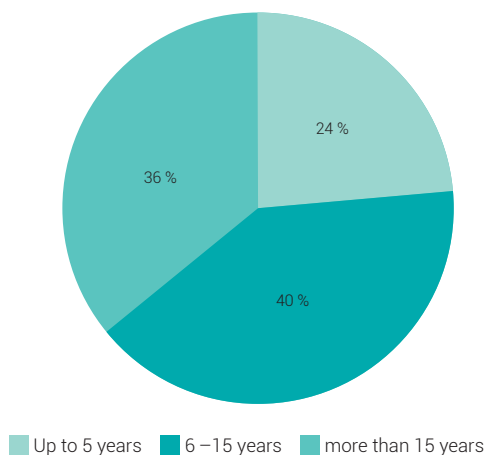
The heart of the company is in Blaubeuren. It is here, near the well-known Blautopf, that our development and engineering team works on innovative new products in order to satisfy constantly changing customer requirements.

Joystick assembly, completion of the units, and all company administrative areas are located at our head office.

With skilled engineering and decades-long experience, we work with you to solve your problems and assist you from start to finish. That is our strength and the basis of our success.



Affiliation of employees with the company



Schelklingen factory

Mechanical production, metalworking, surface refinement, control station and resistor construction take place in the Schelklingen factory.

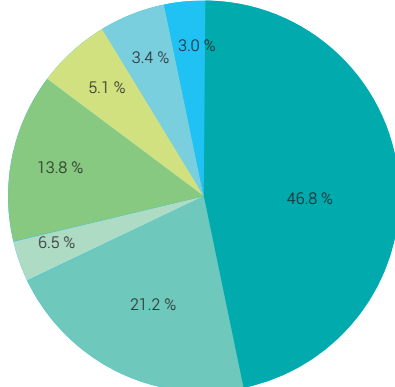
With a very high in-house production depth, we have the capacity to quickly and reliably address individual customer requests. Special skills in stainless steel

processing and in-house facilities for powder coating and liquid painting underscore our independence and competence.

As a medium-sized Swabian company, our size gives us the unbeatable ability to react quickly and flexibly.



Worldwide distribution



- Germany
- Western and southern Europe
- China / Asia / Australia
- Eastern Europe
- North America
- Scandinavia
- India / South America / Africa

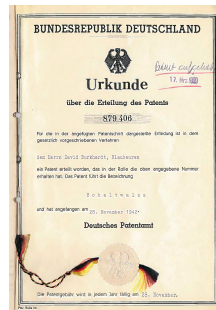
History

1920 to 2002.

The company was founded in 1920 in Blaubeuren by engineers Karl Spohn and David Burkhardt and is still family-owned. Initially, the company repaired motors and switch gears with two technicians. During this period, the company began development of its own switch-gears.



Spohn + Burkhardt filed for its first patent in 1942: the switch roller.



Due to the high demand for the company's products, the building in Blaubeuren was expanded in 1955 and renovated to provide more room for the employees.



1920

1930

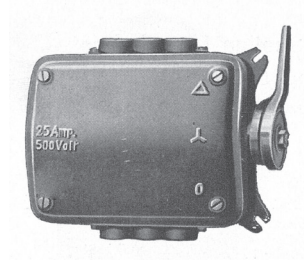
1942

1948

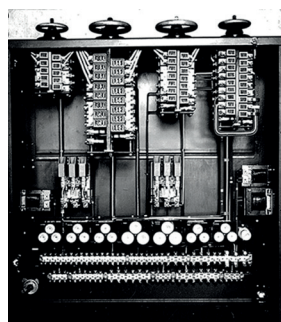
1955

1960

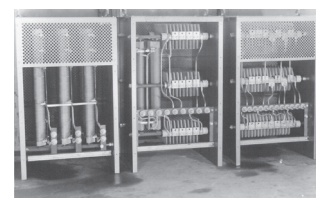
By 1930, Spohn + Burkhardt already had 30 employees and began with the production of larger devices, such as star-delta switches. Automatic switchgears were also incorporated into the production program.



Spohn + Burkhardt began building complete control cabinets for cranes in 1948.



Spohn + Burkhardt expanded the existing product portfolio of steel grating and wire resistors with cast resistors around 1960.



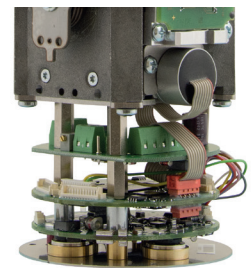
In 1964, construction of the second factory in nearby Schelklingen was completed. Initially, only metalworking took place there. The Schelklingen factory was successively expanded with the construction of additional halls in order to relocate the control station and resistor departments and paint shop.



The product assortment was expanded with the development of various universal handles. Integration of a variety of different push-buttons and controls made it possible to control several functions with the joystick.



The introduction of BUS systems assured simpler wiring with a clearer arrangement, because everything can be controlled via a plug connector.



1964

1965

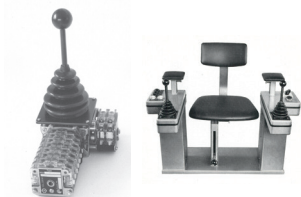
1984

1999

2002

The NS0 master switch is a 2-axis joystick that could be operated with a single lever, unlike earlier control wheels. With the versatile modular system, the NS0 became an all-rounder, because it could be used for nearly every application.

One of the first Spohn + Burkhardt crane control stations was a combination of control unit and seat.



The ergonomically designed FSMMD control station offered and continues to offer numerous functions that are very useful in multi-shift operation, in particular. It was now possible to adjust all functions electrically. It also had a "memory function" that made it possible to save specific settings.



History

2004 to present.

With its narrow and wide handle halves, the UGA offers a wide variety of combination possibilities and functions. Therefore, it is now possible for the customer to equip their individual handle with a variety of components.



The FSRHDG was introduced to the market in 2010. This control station is optimal for work in production. The high degree of freedom in adjustment possibilities and the outstanding ergonomics assure relaxed work without fatigue.



2004

2006

2010

2012

The FSRD is a universal control station for lifting equipment and industrial applications. It has hydraulic and gas strut cushioning.



All-metal joystick manufactured with the highest precision, the JMS3. An aluminum base element is assembled with a positive-locking fit on the modular stainless steel and brass parts. Gentle and precise control is achieved with a solid brass gear and special oil-damped rotation dampers.



The ST4 was specially designed for wind and weather, snow and ice. It guarantees a tight seal and functionality even if the rubber gaiter is defective.



The compact G50 handle expanded the control functions of a joystick with an additional axis. Rotating the spring-centered handle counterclockwise or clockwise generates a potentiometric output signal that can be used together with the direction rails integrated in the potentiometer for the various control tasks.



2014

2015

2016

Today

The HS2 was specially developed for applications with all various bus systems. The non-wearing 3D hall sensor system enables a control system with up to 5 million switching cycles. The FS innovation offers countless possibilities. Now customer-specific panels can be made in plastic with 3D printing.



Even if the functionality of our new 4-axis joystick or the multifunction arm rest remain a top priority, the design of the products becomes increasingly important.

Spohn + Burkhardt works constantly on its existing and future products for maximum functional, ergonomic and optical quality.



We build the solution for you

An overview of our products.





PRODUCT PORTFOLIO

- Joysticks
- Control stations
- Resistors
- Portable control panels
- Foot pedals
- Upper deck control columns

Joysticks

Perfect tools for professionals.



JMS3



ST4



VNS0

Spohn + Burkhardt develops joysticks for the widest variety of applications. Regardless of whether it involves crane applications, construction machinery, agricultural equipment, ship applications, conveyor, drive and traffic or plant construction, you always receive the best advice from Spohn + Burkhardt. With decades of experience in joystick design,

even complex solutions can be realized quickly according to special customer wishes. The wide assortment of different joysticks and handles offer optimal combination possibilities. Whether sea-water resistant or explosion protection, deliveries of individual units or series, for heavy-duty or high-precision applications, we make it possible.





Industry solutions for

- Crane applications and lifting equipment
- Construction machinery
- Agricultural technology
- Ship applications
- Conveyor and drive technology
- Traffic engineering
- Plant engineering

Tailor-made control stations

The right solution for any requirements.



SV1C



FSRHGD

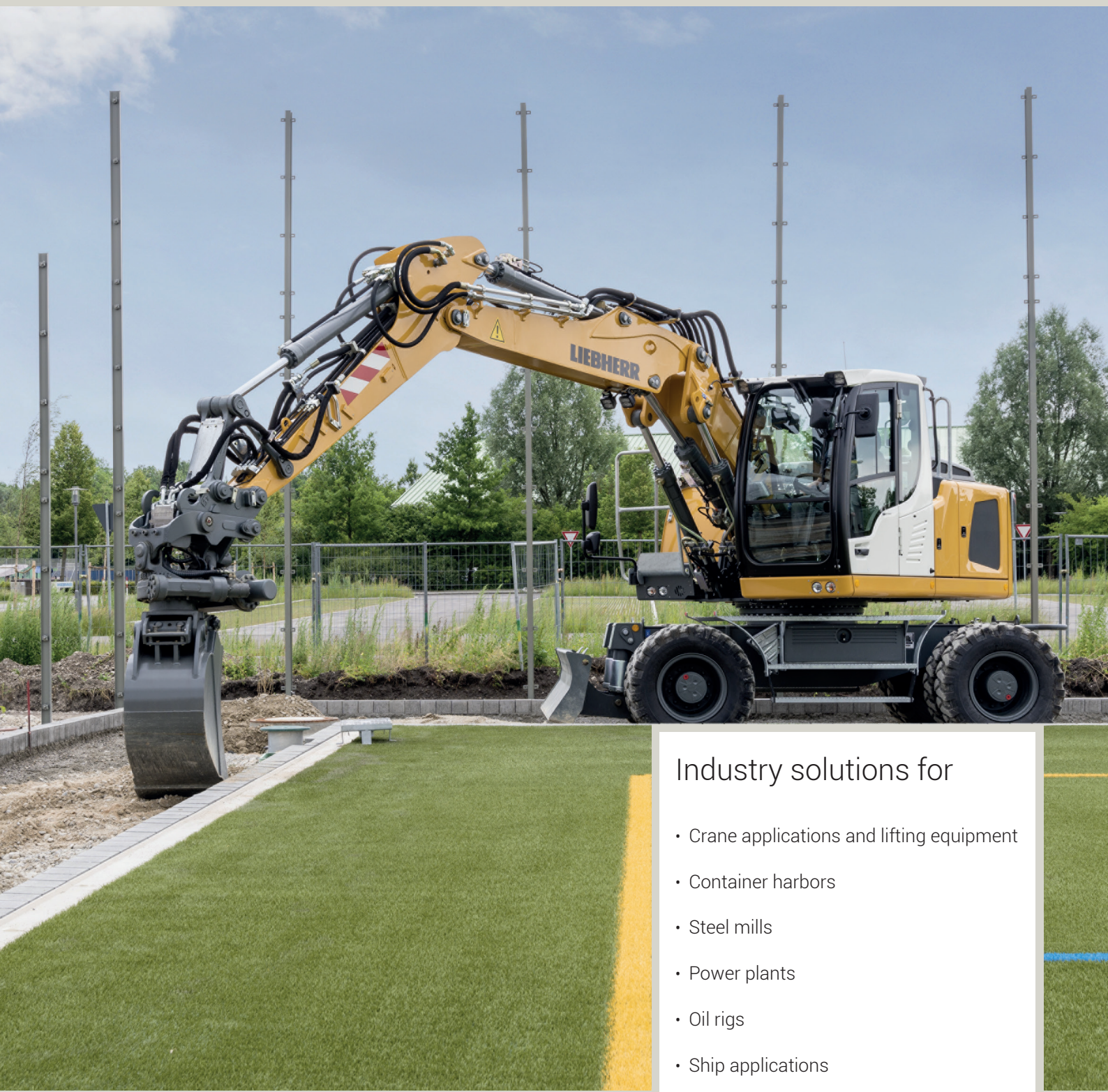


FSRHD-2G

The control stations of Spohn + Burkhardt are as special as their tasks. We value the optimal positioning of control elements and perfect matching to the work environment. Whether under spatial constraints or at dizzying heights, our control stations assure relaxed work without fatigue thanks to outstanding ergonomics. The consoles can be

perfectly adapted to the required conditions with individual designs. The side control panels also offer a high degree of freedom with their adjustment possibilities and optional electric seat heating, a seat outlet or a memory function to quickly return to the seating positions of different users can be integrated.



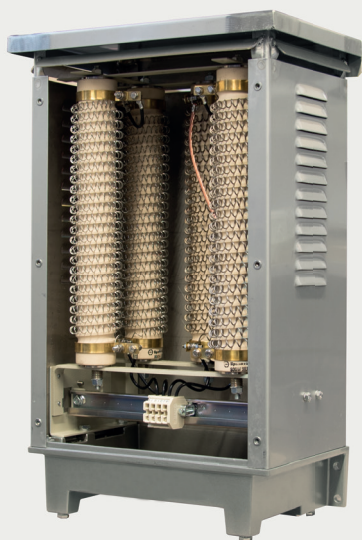


Industry solutions for

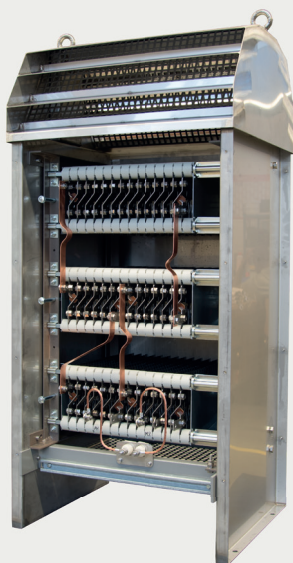
- Crane applications and lifting equipment
- Container harbors
- Steel mills
- Power plants
- Oil rigs
- Ship applications

Resistors

Proven technology for the highest flexibility.



Wire resistors



Steel grid resistor



Cast resistors

Spohn + Burkhardt resistors are distinguished by top quality and a long service life. With decades of experience in resistor construction, we specialize in solutions tailored to customer wishes. Our rust-free stainless steel versions are available in different colors with the in-house powder coating paint shop. Modular design enables short

delivery times and our worldwide dealer and service network assures high availability. The resistors can also be optionally delivered with thermocouples, internal or external ventilation. You determine performance, size, housing, design, material, combinations, etc. and we delivery.





Industry solutions for

- Crane applications and lifting equipment
- Ship applications
- Conveyor and drive technology
- Regenerative energies
- Power distribution
- Plant engineering
- Testing and laboratory technology

Additional products

Foot pedals, control panels, upper deck control columns.

SF



FST



FPS, FPW



FSTS, FPSS, FPWS



- One or two step output with reset
- Powder-coated aluminum housing
- Protection rating IP42 or IP56
- Actuator with deep ribbing
- Sturdy flange plate
- Optional: metal cable screw connection
- Use in industrial applications

- Analog with optional contacts with reset
- Powder-coated aluminum housing
- Protection rating IP54
- Ergonomically ribbed aluminum step plate with heel edge for foot positioning
- Simple, stable mounting
- Optional: metal cable screw connection
- Use in industrial applications

- Maximum 4-step output or analog with reset
- Powder-coated aluminum housing
- Protection rating IP42
- Large, ergonomically ribbed aluminum step plate with heel edge for foot positioning
- Simple, stable mounting
- Optional: metal cable screw connection
- Specially designed for use in harsh industrial applications

- FST, FPS, FPW version with sturdy metal protective hood
- Industrial applications in which activations entails a hazard

On deck controllers



Portable control station T-022



Portable control station TB-56



- Durable, compact design for harsh conditions, even at the lowest and / or highest temperatures
- High protection rating, also available in EExd version
- Individually configurable according to customer wishes
- Housing sizes and shapes are also freely selectable for special stainless steel productions

- Sturdy, compact design
- Fiberglass reinforced plastic housing (dimensions 285 x 195 x 120 mm):
 - Temperature-resistant and waterproof
 - Oil- and fuel-resistant
- Equipped according to customer wishes
- Surrounding seal between top and bottom section
- Stainless steel securing lugs
- With / without breastplate
- With / without stainless steel base support

- Optionally with:
- CAN, CANopen
 - PROFIBUS, PROFINET, PROFI-safe

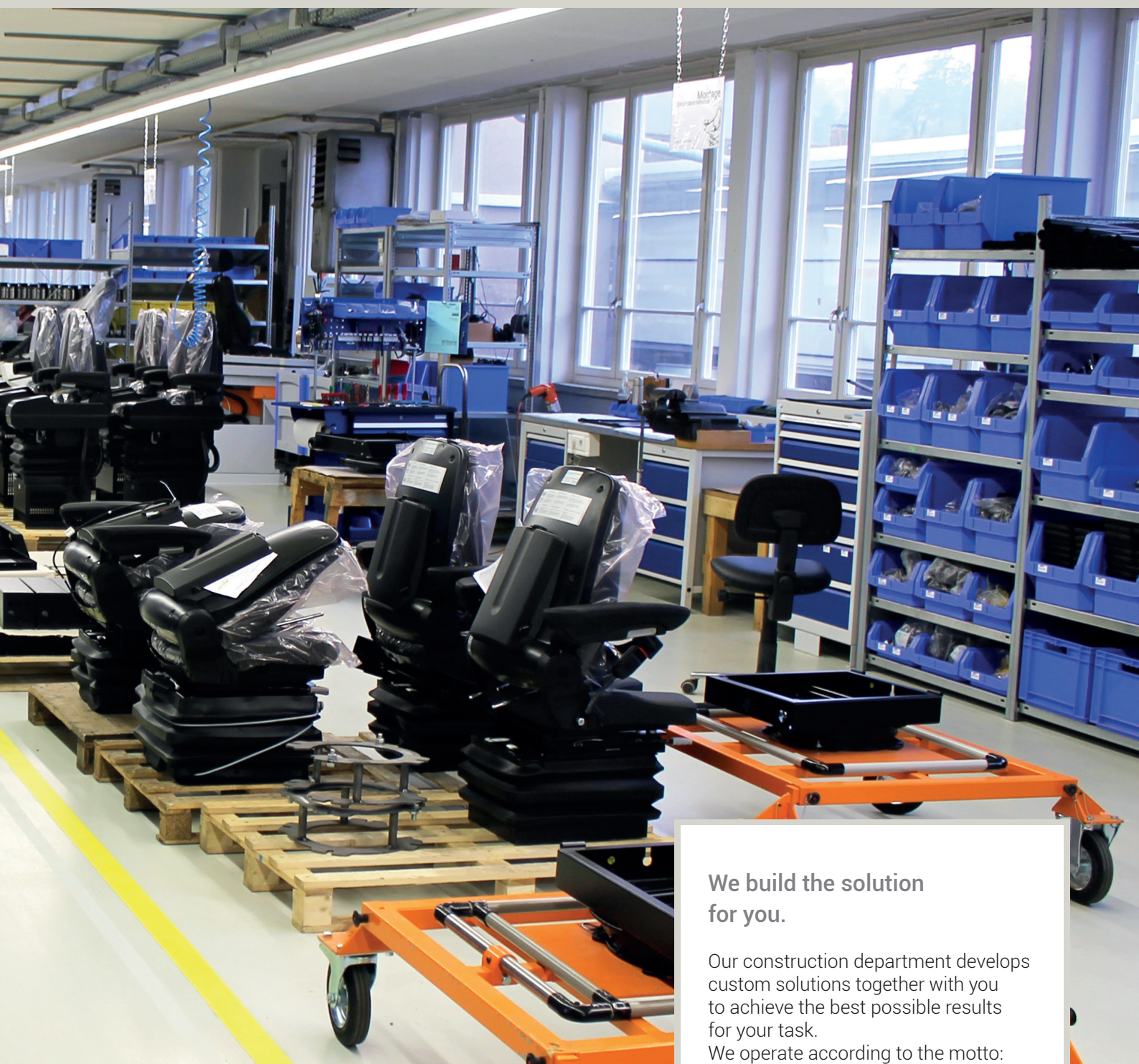
- Sturdy, compact design
- Fiberglass reinforced plastic housing (dimensions 430 x 260 x 116 mm):
 - Temperature-resistant and waterproof
 - Oil- and fuel-resistant
- Equipped according to customer wishes
- Surrounding seal between top and bottom section
- Stainless steel securing lugs
- With / without breastplate
- With / without stainless steel base support

- Optionally with:
- CAN, CANopen
 - PROFIBUS, PROFINET, PROFI-safe

From the idea to delivery

An overview of our departments.





**We build the solution
for you.**

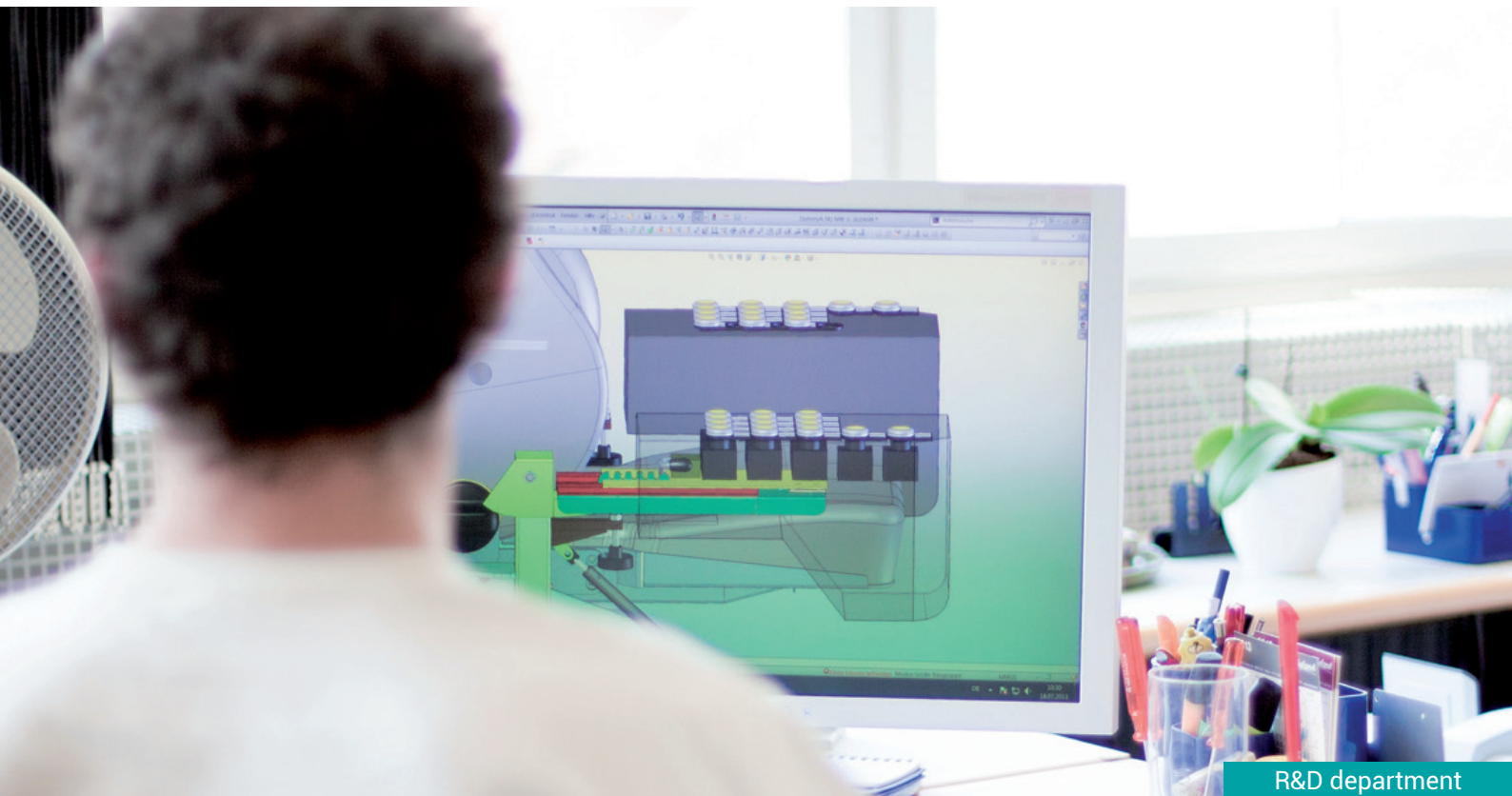
Our construction department develops custom solutions together with you to achieve the best possible results for your task.

We operate according to the motto:

Spohn + Burkhardt:
We build it so you can control it.

From the idea to the drawing

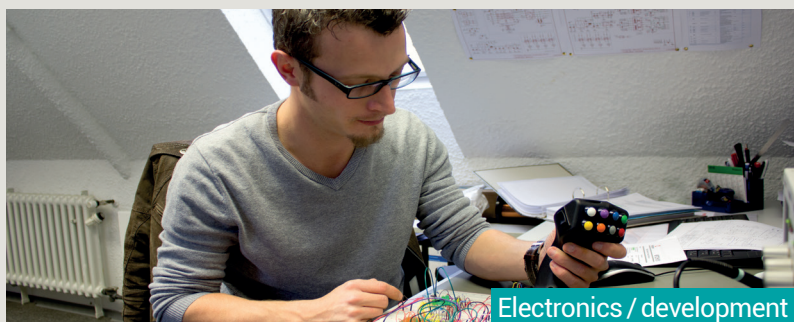
An overview of our administrative departments.



R&D department



R&D / climate test



Electronics / development

Every task is different and every truly good solution is individual.

The administrative departments are located in the Blaubeuren headquarters. New products are planned and developed here.

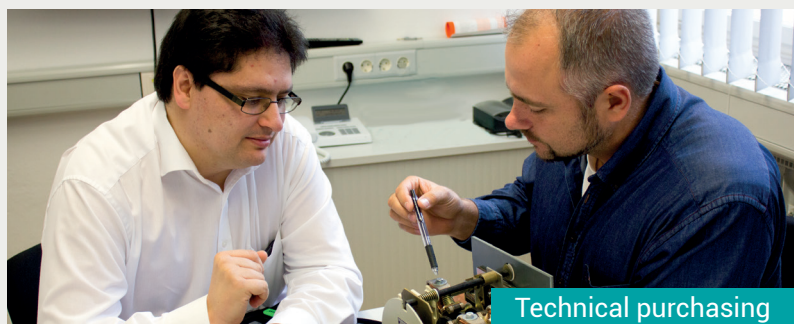
Our design department and the electronics / development department work continuously on the design of new products and continuous development of existing products. In order to meet the technical requirements of our customers and the requirements of the individual sectors, we develop products and solutions in an in-house, highly specialized department.

What distinguishes us is high-quality production and intelligent engineering in pursuit of a single goal: The optimal solution to our customers' tasks.

The engineers can test newly designed handles for handling and haptics with the help of a 3D printer.

The project design team remains in direct contact with the customer. They answer customer questions, create offers and process orders. The purchasing department is responsible for procurement of individual parts for the production departments. Offers are provided and framework agreements are negotiated there.

Once drawings are completed or the required materials are delivered, our production department can begin with the implementation.



Craftsmanship "Made in Germany"

An overview of our handcraft departments.



Welding shop



High bay storage



Punching shop

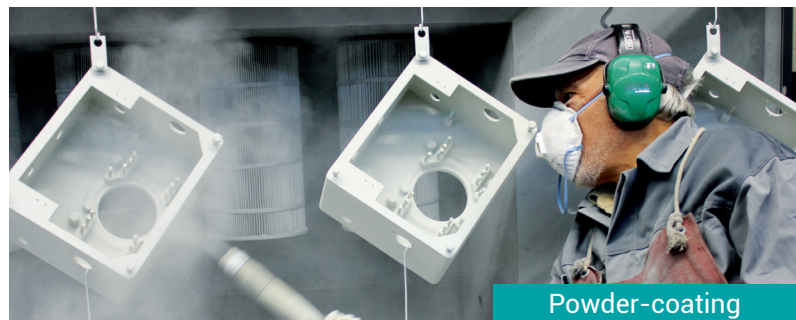
We implement your requests with craftsmanship and high precision.

The materials are sorted in a clear arrangement in our modern high bay storage system and can be retrieved by the various production departments.

Work begins in the punching shop, where the raw materials are processed with the latest machinery. A precise working method can be assured, because the punched parts can be processed easily in the metalworking shop.

Bending, filing and grinding are the order of the day. Then the machined sheet metal or stainless steel parts are joined and welded seamlessly.

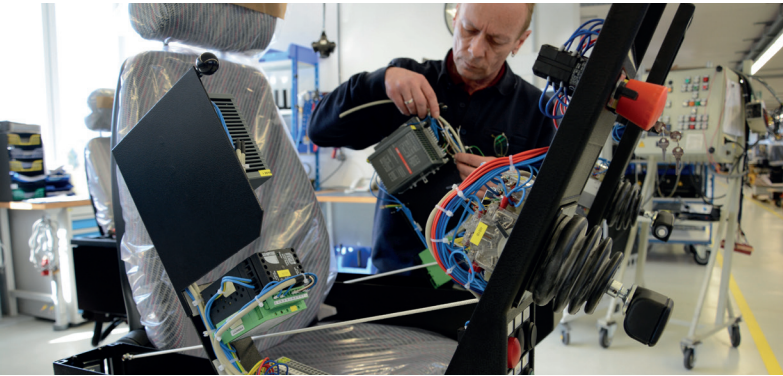
Parts can be painted or powder-coated in our in-house powder-coating and paint shop.



Fastening, wiring, inspection

An overview of our assembly departments.





Reliable and efficient.

Care and precision are top priorities in the assembly departments. Our employees ensure that your joystick, control station or resistor leaves the company in fault-free condition.

The final product is tested for quality and functionality with testing devices specially developed for Spohn + Burkhardt.



The road to the customer

An overview of our departments.



QM / QA



Sales process



Shipping

Your satisfaction is important to us: See for yourself.

The QM/QA department works with the production departments to ensure and optimize processes and product quality.

Our sales team is responsible for order confirmations, schedule monitoring, preparation of shipments to countries throughout the world and invoicing.

If the product is fully assembled and has been put through its paces, it is sent to our shipping department. Your product is

gently and carefully packaged so that it reaches you safely and undamaged.

Your joystick, control station or resistor is sent to you after it has been safely packaged.

Our friendly service team handles repairs, modifications and return deliveries. Regardless of your problem, our qualified employees help you find an appropriate solution as quickly as possible.



Representatives of Spohn + Burkhardt

National and international



Spohn + Burkhardt GmbH & Co. KG

Mauergasse 5
89143 Blaubeuren
Postfach 1163
89135 Blaubeuren

Tel.: +49 7344 171-0

E-mail: info@spobu.de
Internet: www.spobu.de

Germany

ELEKTRO SEIWERT GmbH / Southwest
info@elektro-seiwert.de

HOCK INDUSTRIEVERTRETUNGEN / South
vertrieb@hock-tv.de

EFD ELEKTROTECHNISCHE FABRIK
DÜSSELDORF GmbH
Rainer Lühning / Sales management:
rainer.luehring@sitec-components.com
Tino Beyreuther / East:
tino.beyreuther@sitec-components.com
Axel Jürgenlimke / North:
axel.juergenlimke@sitec-components.com
Abed Nowati / West:
abed.nowati@sitec-components.com

Australia, New Zealand
LEVELTEC ENGINEERING PTY Ltd
www.leveltec.com.au

Austria
REGATRONIC GmbH
www.regatronic.at

Belgium
VIALEC BVBA - SPRL
www.vialec.be

Brazil
GRUPO C + TECNOLOGIA
www.ctecnologia.com.br

Canada
WAVETECH CONTROLS Ltd.
www.wavetechcontrols.ca

China
IS INDUSTRIAL SERVICES PTE Ltd.
www.bonave.cn

PORTEK CHINA Ltd.
www.portek.com

SHANGHAI AJOYS AUTOMATION
EQUIPMENT CO. Ltd.
www.ajoy.com.cn

SHANGHAI OLOGY ELECTRICAL
ENGINEERING CO. Ltd.
www.hy-ology.com

Czech Republic
ELEKTROPOHONY SPOL. S R. O.
www.epo.cz

Denmark
INDUSTRIKOMPONENTER A/S
www.industrikomponenter.dk

Estonia, Latvia, Lithuania
VSF BALTIC
www.vsf-baltic.com

Finland, Estonia, Latvia, Lithuania
SKS AUTOMAATIO OY
www.sks.fi

France
EFA FRANCE SARL
www.efa-controls.com

AUTOMATISMES ETUDES SERVICES
(port cranes, ship and marine sector)
www.ae-services.fr

Greece
ARSI SERVICE
www.arsiservice.gr

Hungary
C-SAFETY
www.c-safety.hu

India
SPOHN + BURKHARDT INDIA Pvt.
Ltd.
www.spobu-india.in

Iran
ABIMEX GmbH

GOHARHOMA Co. (SSK)

Israel
OMEGA ENGINEERING Ltd.
www.omegae.net

Italy
KIEPE ELECTRIC S.p.A
www.kiepeelectric.com

Japan
ICAN COMPANY Ltd.
www.ican.co.jp

Malaysia
PORTEK (MALAYSIA) SDN BHD
www.portek.com

Netherlands
ELMA B.V.
www.elmabv.nl

Norway
ASI AUTOMATIKK AS
www.asiautomatikk.no

Poland
RADIOSTER SP. Z O.O.
www.radioster.pl

Portugal
SIDETI SYSTEMS
www.sideti.com

Romania
S.C. ELRO S.R.L.
www.elro.ro

Russia
CREATIVE TECHNOLOGY NS Ltd.
www.creativetechnologyns.ru

SINETIC
www.sinetic.ru

**Singapore, Indonesia,
Philippines, Thailand**
IS INDUSTRIAL SERVICES PTE Ltd.
www.is-indsvc.com.sg

PORTEK SYSTEMS
& EQUIPMENT PTE Ltd.
www.portek.com

Slovenia
TIPTEH D.O.O.
www.tipteh.si

South Africa
SAGATRONIC
www.sagatronic.co.za

South Korea
SEHWAN ETEC CO., Ltd.
www.sehwan.co.kr

Spain
KE-WORLDWIDE®
Kiepe Electric S. p. A.
www.ke-worldwide.com

Sweden
IC NORDIC
www.icnordic.se

Switzerland
CARL GEISSER AG
www.carlgeisser.ch

Taiwan
Jye-Young Enterprise Corporation
www.jyeyoung.com.tw

Turkey
PROTEK TEKNİK ELEKTRİK Ltd.
www.protek-teknik.com.tr

UK
A S JOYSTICKS Ltd.
www.asjoysticks.co.uk

**United Arab Emirates, Pakistan,
Bahrain, Oman, Kuwait, Qatar**
ASSENT TRADING EST.
www.alhebaishi.com

USA, Mexico
J.R. MERRITT CONTROLS, INC.
www.jrmerritt.com