



**Spohn+Burkhardt**

Elektrotechnische Fabrik Blaubeuren

# Control stations for every application

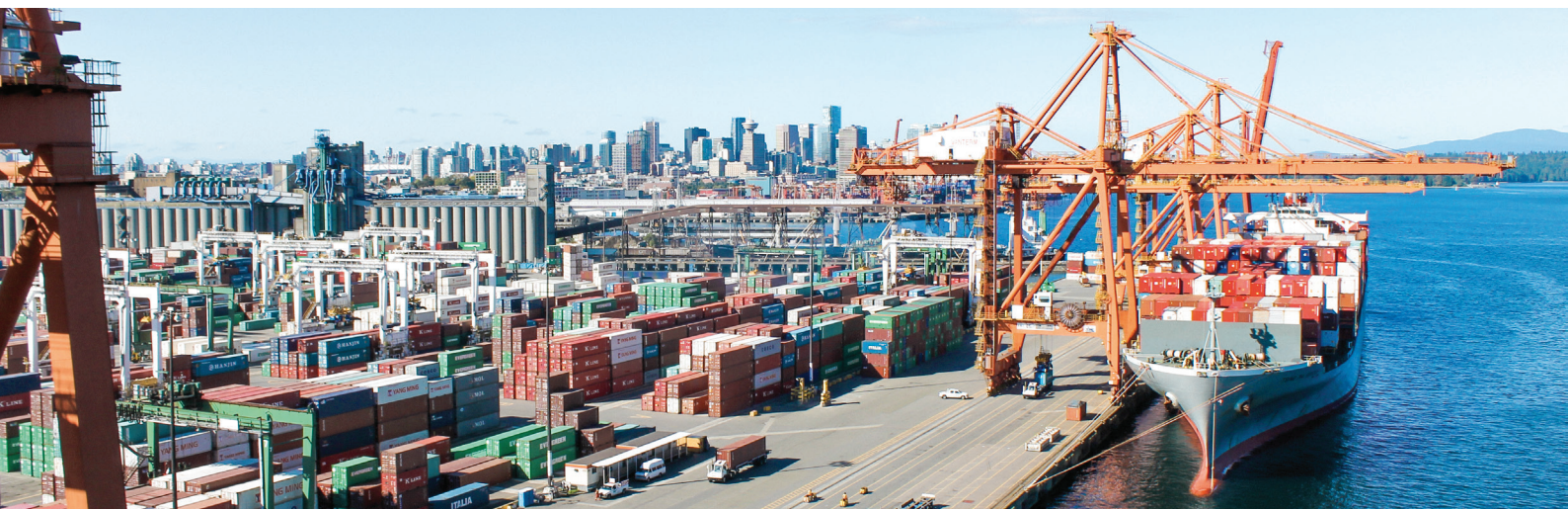
Stay in command with reliability and value





# Tradition and expertise

## Welcome to Spohn + Burkhardt



## The company.

Spohn + Burkhardt was founded in 1920 by Karl Spohn and David Burkhardt in Blaubeuren, Germany and continues to be family owned to this day.

The product line has grown from a small offering of transfer switches to a full line of products including joysticks, control stations and resistors, known worldwide for unmatched design and quality.

Our complete line of industry leading control products are manufactured at two facilities in Southern Germany.

Sheet metal fabrication, finishing, resistor assembly and control system wiring is done at the facil-

ity in Schelklingen while corporate headquarters, controllers, controller accessories and control system final assembly resides in Blaubeuren.

The plant in Schelklingen boasts state of the art fabrication equipment that allows quick turnaround and the highest of quality for all customer requirements, including custom designs per customer specifications.

Our team of product developers and engineers work to create the most innovative new products in response to today's quick changing and demanding requirements.

We offer purpose built mechanical systems that integrate innovative electronics into all products. With

industry leading engineering expertise and decades of experience, we work alongside our customers from start to finish in order to provide solutions to all of their control requirements.

We are prideful of this ability and see it as one of our many strengths and the foundation of our success.

Due to our size our strength lies in the unbeatable advantage of having the ability to be flexible and able to respond quickly and efficiently to new technological advances for any market throughout the world.

Made in Germany  
for more than 90 years.



## CONTENTS

Product benefits	4
Control station SV0G	6
Control station SV1C	8
Control station FSAD	10
Control station FSRHDG	12
Control station FSRHD-2G	14
Control station FSMMDER	16
Custom designs and solutions	18
Options	20
Technical data – an overview	21
Control consoles	22
Joysticks	24
Worldwide representatives	28



### Market applications

- Crane systems
- Container cranes
- Mobile cranes
- Power plants
- Drill rigs
- Ships



If your workplace is up here, it should  
be equipped with Spohn + Burkhardt

Made to order control stations.







## BENEFITS

- Numerous adjustments allow for optimum operator positioning and comfort
- Harmonious relationship between operator and equipment
- Relaxed and low fatigue work environment
- Upmost quality and service life
- Large dealer network providing service worldwide
- Smart, flexible designs allow for plug and play for most applications
- Custom designed solutions per customer requirements



# Control station SV0G

The best choice as an entry-level product if space is at a premium.





## Optimized for small cabs



### Control consoles

- Plenty of space for all of your control devices
- Simple or complex applications
- Console widths made per customer requirement
- Hinged console covers
- Removable console side cover



### Seat

- Choice of seat options from simple folding seat to comfort version

### BENEFITS

- Sturdy, compact design
- Great for retrofits
- Convenient cable feed through system
- Available with folding seat when space is at a premium



# Control station SV1C

The best choice if your application requires a large amount of control devices.





Optimized for complex applications



#### Control consoles

- Large, spacious control consoles
- Front and rear hinged console covers
- Optional removable console side cover

#### Heavy duty ball bearing rotator

- Optional motorized rotate

#### BENEFITS

- Lots of room
- Controls ranging from the simple to the complex
- PLC can be integrated
- High flexibility and level of combination
- Wide variety of applications
- Robust, sturdy configuration
- Excellently suited to mounting electronic input devices
- All seat and suspension systems can be used



# Control station FSAD

The best choice if your application requires many standard mechanical adjustments.





Optimized for a perfect overall view

### Adjustments

- Dual seat and console slide system allows the consoles and seat to slide together or the seat to slide independently of the consoles

### Comfortable seat

- Full body contoured seat for optimum back and lateral stability
- Optional headrest
- Optional seat belt system

### Control consoles

- Hinged, tilting consoles can also be flipped back for operator entrance and exit from the seat

### Suspension

- Mechanical 4-step suspension: fully hydraulic and spring dampened system with "dial in" weight compensation, incremental height adjustment and seat height lift assist system or optional pneumatic suspension

### System base / junction box

- Heavy duty formed steel construction with bolt down hinged cover

### Heavy duty ball bearing rotator

- Infinitely variable locking, eccentric brake system or pin lock with pre-determined stop positions between 180 degrees CCW and 90 degrees CW

## BENEFITS

- Rugged compact design
- Many standard manual adjustments
- Heavy duty ball bearing rotator
- Wide variety of standard features and options



# Control station FSRHDG

The best choice if you need to move hundreds of thousands of tonnes with pinpoint accuracy.





Optimized for lean forward working position

### Seat belt system

- Lap belt
- 4-point shoulder harness

### Suspension and tilt system

- Mechanical scissor for tilt and additional height adjustment
- Mechanical or pneumatic suspension system
- Dual seat and console slide system allows the consoles and seat to slide together or the seat to slide independently of the consoles
- Rotating with selectable brake system

### Footrest

- Footrest turns with the system and are offered with many industry leading features and options are available

### Comfortable seat

- Full body contoured comfort seat for optimum back and lateral stability
- Optional headrest
- U-cut seat for improved line of sight below
- Optional electric seat heater and operator presence switch
- Fins incorporated into the back rest to help reduce stress on the spine

### Control consoles

- Gas shock assist variable angle adjustment
- Console covers with slight inward slope
- Forward / back and slew adjustments
- Console mounted armrests with angle adjustment

### BENEFITS

- Significant number of standard adjustments to help position the operator
- Excellent support even when leaning forward



# Control station FSRHD-2G

The best choice if you have improved line of sight is because of the leading design of our control stations.





## Optimized for maximum comfort

### Control consoles

- Gas shock assist variable angle adjustment with pushbutton release
- Console covers with slight inward slope
- Forward/back and in/out adjustment with pushbutton release
- Console mounted armrests with angle adjustment



### Footrest

- Footrest turns with the system and is offered with many industry leading features and options

### Comfortable seat

- Full body contoured comfort seat for optimum back and lateral stability
- Fins incorporated into the back rest to help reduce stress on the spine
- U-cut seat for improved line of sight below
- Optional headrest
- Optional electric seat heater and operator presence switch

### Suspension and tilt system

- Mechanical scissor for tilt and additional height adjustment
- Mechanical or pneumatic suspension system
- Dual seat and console slide system allows the consoles and seat to slide together or the seat to slide independently of the consoles
- Rotating with eccentric brake or pin lock system, also with motorized rotation available

### BENEFITS

- Gas shock assist variable angle and slew adjustment with pushbutton release
- Console covers with slight inward slope
- Integrated wire and cable routing



# Control station FSMMDER

The best choice if only a memory seat satisfies a multi-operator application.





## Optimized for multi-operator applications



### Comfortable seat

- Electric front / back, up / down and angle adjustment
- Electric backrest adjustment
- Headrest with manual height and angle adjustment

### Control consoles

- Manual slew adjustment
- Swivelling switch inlay
- Electric front / back, up / down and angle adjustment

### Footrest

- Additional foot rail can be manually adjusted up / down or swivel to the sides when not in use

### Suspension

- Pneumatic
- Electric height adjustment

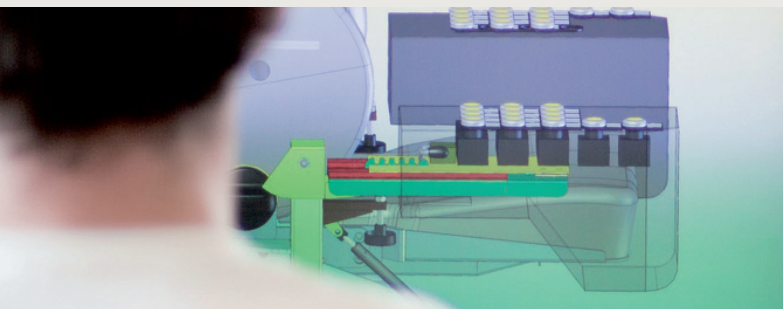
## BENEFITS

- Memory function for quickly restoring each individual operators settings
- Motorized seat and consoles adjustments
- Optional motorized rotate



# The control station architects: Spohn + Burkhardt

We build a solution for you.





## Every application is different and every solution is unique.

Since 1920 we have designed and manufactured high quality, custom joysticks and control stations.

We listen to and take into consideration the needs of our customers and the markets we serve.

Our research and development department is constantly working on new designs as to meet ever changing market demands. We constantly review, update and improve existing products to improve performance and increase value to our customers.

Our commitment to quality and innovative designs sets us apart from our competition.

We have a strong focus and commitment to offer the best solutions for all of our customers.

Spohn + Burkhardt:  
Made in Germany  
for more than 90 years.



### We build a solution for you.

Our design department works with you to develop made to order solutions with the objective of meeting your requirement effectively as possible. All in accordance with our motto:

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



# Line of sight is critical: Adjustability is crucial

Wide variety of adjustment options.

Every additional degree of adjustment capability increases the safety at your workplace.



14°

up to 14° angle  
adjustment for greater  
visibility over your work area





#### Technical data using the FSRHDG as a reference (see page 13)

Total weight (empty – without components) ..... 145 kg  
Width ..... 980 mm  
Height (floor – top of seat) ..... 1175 mm  
Turning radius ..... 810 mm  
Turning arc max. 270°, adjustable  
Mounting dimensions (base) ..... 245 mm x 245 mm

Rotate lock system ..... pin lock or friction held

Seat height (suspension compressed) ..... 480 mm  
Seat angle ..... +/-14°  
Seat base cushion depth setting ..... +/-40 mm  
Adjustable backrest angle ..... +/-80°

Height adjustment – pneumatic suspension ..... 80 mm

Weight setting ..... Automatic

Console adjustment options:

Fwd / back seat an console together ..... +/-100 mm  
Fwd / back seat only ..... +/-100 mm  
Console tilt ..... 50° up/20° down  
Console in / out ..... 20° out/5° in

Consoles with slightly inward sloped covers

Armrests with angle adjustment

Max. components per console

..... 6 built-in units Ø 22.5 mm devices + joystick  
..... 8 built-in units Ø 16.0 mm devices + joystick



# The console: Optimum conditions for safer operation

Function, ergonomics, safety.

SV1C console



FSRHDG console



FSRD console



- Lots of space for components
- Made per customer requirements

- User-friendly slight inward sloped console covers
- Large armrests with angle adjustment
- Hand rest which help reduce wrist strain
- Console angle adjustment with gas shock assist

- Sleek, rounded design
- Side panels for easy access inside the console
- User-friendly console settings

Best solutions for effortless operating.







## BENEFITS

- Customizable per customer requirement
- Custom finish
- Custom colors
- Unique shapes

FSBD console



FSAD console



FSK console



FSMMDER console



- Rounded with multi-level covers
- Ball joint provides swivel, slant and tilt adjustments standard

- Ideal for applications requiring narrow to medium sized consoles

- Sheet metal console with forward sloping plastic covers
- One size only – 160 mm

- Ideal for applications requiring large consoles
- Designed for control stations with motorized adjustments



# The joystick: Precision control built to your specifications

Large variety of configurations.

GM0N/SM0N



ST0



VCS0



CS1



- Spring return
- Modular, compact design
- Shallow under panel depth
- 1 or 2 axis control
- With or without cross-gate
- Max. 5-0-5 steps
- Variety of analog output options

- Compact, narrow, 1-axis joystick
- Spring return or friction held
- With or without mechanical interlock
- With or without contacts and / or a variety of analog output options

- 1 or 2 axis control
- Spring return or friction held
- With or without contacts and / or a variety of analog output options

- 1 or 2 axis control
- Spring return or friction held
- With or without contacts and / or a variety of analog output options

Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe
- Current output
- Voltage output
- Valve driver boards





## BENEFITS

- Modular design – standard parts that can be configured many different ways
- Large variety of handle options
- We specialize in custom designs
- One controller or thousands, we can handle it

HS2



- 3D hall sensor
- Spring return
- No contacts
- Shallow under panel depth

### Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe
- Redundant 3D hall sensor
- Current output
- Voltage output
- Valve driver boards

NS3



- 1 or 2 axis control
- 12 mm operating shaft
- Spring return or friction held
- With or without contacts and / or a variety of analog output options

### Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe
- Current output
- Voltage output
- Valve driver boards

VNS0/NN50



- 1, 2 or 3 axis control
- Spring return, maintained or friction held
- With or without contacts and / or a variety of analog output options

VNS2



- 1 or 2 axis control
- 12 mm operating shaft
- With or without contacts and / or a variety of analog output options



You can turn and slide with confidence:  
The perfect system has the perfect foundation

The right solution for every application.









# Representatives of Spohn + Burkhardt

## National and international



### Spohn + Burkhardt GmbH & Co. KG

Mauergasse 5  
 89143 Blaubeuren/Germany  
 Postfach 1163  
 89135 Blaubeuren/Germany

Tel: +49 7344 171-0  
 Fax: +49 7344 171-99

E-mail: [info@spobu.de](mailto:info@spobu.de)  
 Internet: [www.spobu.de](http://www.spobu.de)

### Germany

ELEKTRO SEIWERT GmbH / Southwest  
[info@elektro-seiwert.de](mailto:info@elektro-seiwert.de)

HOCK INDUSTRIEVERTRETUNGEN / South  
[vertrieb@hock-tv.de](mailto:vertrieb@hock-tv.de)

VOSSLOH KIEPE GmbH  
 Alfred Czech / West  
[a.czech@kiepe-elektrik.com](mailto:a.czech@kiepe-elektrik.com)  
 Axel Jürgenlimke / North  
[a.juergenlimke@kiepe-elektrik.com](mailto:a.juergenlimke@kiepe-elektrik.com)  
 Holger Otte / East  
[h.otte@kiepe-elektrik.com](mailto:h.otte@kiepe-elektrik.com)

**Australia, New Zealand**  
 LEVELTEC ENGINEERING PTY Ltd  
[www.leveltec.com.au](http://www.leveltec.com.au)

**Austria**  
 REGATRONIC GmbH  
[www.regatronic.at](http://www.regatronic.at)

**Belgium**  
 VIALEC BVBA - SPRL  
[www.vialec.be](http://www.vialec.be)

**Brazil**  
 GRUPO C + TECNOLOGIA  
[www.ctecnologia.com.br](http://www.ctecnologia.com.br)

**Canada**  
 WAVETECH CONTROLS Ltd.  
[www.wavetechcontrols.ca](http://www.wavetechcontrols.ca)

**China**  
 IS INDUSTRIAL SERVICES PTE Ltd.  
[www.bonave.cn](http://www.bonave.cn)

PORTEK CHINA Ltd.  
[www.portek.com](http://www.portek.com)

SHANGHAI AJOYS AUTOMATION  
 EQUIPMENT CO. Ltd.  
[www.ajoy.com.cn](http://www.ajoy.com.cn)

SHANGHAI OLOGY ELECTRICAL  
 ENGINEERING CO. Ltd.  
[www.hy-ology.com](http://www.hy-ology.com)

**Czech Republic**  
 ELEKTROPOHONY SPOL. S R. O.  
[www.epo.cz](http://www.epo.cz)

**Denmark**  
 INDUSTRIKOMPONENTER A/S  
[www.industrikomponenter.dk](http://www.industrikomponenter.dk)

**Finland, Estonia, Latvia, Lithuania**  
 SKS AUTOMAATIO OY  
[www.sks.fi](http://www.sks.fi)

**France**  
 EFA FRANCE SARL  
[www.efa-controls.com](http://www.efa-controls.com)

SYSTEM EXPERT INDUSTRIE  
<http://systemexpert.free.fr>

**Greece**  
 ARSI SERVICE  
[www.arsiservice.gr](http://www.arsiservice.gr)

**Hungary**  
 C-SAFETY  
[www.c-safety.hu](http://www.c-safety.hu)

**India**  
 SEVA SWITCHGEAR PVT Ltd.  
[www.sevaspl.com](http://www.sevaspl.com)

**Israel**  
 OMEGA ENGINEERING Ltd.  
[www.omegae.net](http://www.omegae.net)

**Italy**  
 KIEPE ELECTRIC S.p.A  
[www.kiepeelectric.com](http://www.kiepeelectric.com)

**Japan**  
 ICAN COMPANY Ltd.  
[www.ican.co.jp](http://www.ican.co.jp)

**Malaysia**  
 PORTEK (MALAYSIA) SDN BHD  
[www.portek.com](http://www.portek.com)

**Netherlands**  
 ELMA B.V.  
[www.elmabv.nl](http://www.elmabv.nl)

**Norway**  
 ASI AUTOMATIKK AS  
[www.asiautomatikk.no](http://www.asiautomatikk.no)

**Poland**  
 RADIOSTER SP. Z O.O.  
[www.radioster.pl](http://www.radioster.pl)

**Portugal**  
 SIDETI SYSTEMS  
[www.sideti.com](http://www.sideti.com)

**Romania**  
 S.C. ELRO S.R.L.  
[www.elro.ro](http://www.elro.ro)

**Russia**  
 CREATIVE TECHNOLOGY NS LTD  
[www.creativetechnologyns.ru](http://www.creativetechnologyns.ru)

SINETIC  
[www.sinetic.ru](http://www.sinetic.ru)

**Singapore, Indonesia,  
 Philippines, Thailand**  
 IS INDUSTRIAL SERVICES PTE Ltd.  
[www.is-indsvc.com.sg](http://www.is-indsvc.com.sg)

PORTEK SYSTEMS  
 & EQUIPMENT PTE Ltd.  
[www.portek.com](http://www.portek.com)

**South Africa**  
 SAGATRONIC  
[www.sagatronic.co.za](http://www.sagatronic.co.za)

**South Korea**  
 SEHWAN ETEC CO., Ltd.  
[www.sehwan.co.kr](http://www.sehwan.co.kr)

**Spain**  
 KE-WORLDWIDE®  
 Kiepe Electric S. p. A.  
[www.ke-worldwide.com](http://www.ke-worldwide.com)

**Sweden**  
 SKÅNSK ELTEKNIK AB  
[www.skanskelteknik.se](http://www.skanskelteknik.se)

**Switzerland**  
 CARL GEISSER AG  
[www.carlgeisser.ch](http://www.carlgeisser.ch)

**Turkey**  
 PROTEK TEKNİK ELEKTRİK Ltd.  
[www.protek-teknik.com.tr](http://www.protek-teknik.com.tr)

**UK**  
 A S JOYSTICKS Ltd.  
[www.asjoysticks.co.uk](http://www.asjoysticks.co.uk)

**United Arab Emirates, Pakistan,  
 Bahrain, Oman, Kuwait, Qatar**  
 ASSENT TRADING EST.  
[www.alhebaishi.com](http://www.alhebaishi.com)

**USA, Mexico**  
 J.R. MERRITT CONTROLS, INC.  
[www.jrmerritt.com](http://www.jrmerritt.com)