



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 for unmatched design and quality.

Our full 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 facility 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 along with 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 not only offer state of the art mechanical systems but are also integrate innovative electronics into

all products. With a high expertise of engineering and decades of experience we work along-side our customers from start to finish helping provide all your 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 being able to respond quickly and efficiently to new technological advances for any market in the world.

Made in Germany for more than 90 years.

OVERVIEW

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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
- 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 adjustment and slew adjustment with pushbutton release
- Console mounted armrests with angle adjustment

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



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 is offered with many industry leading features and options

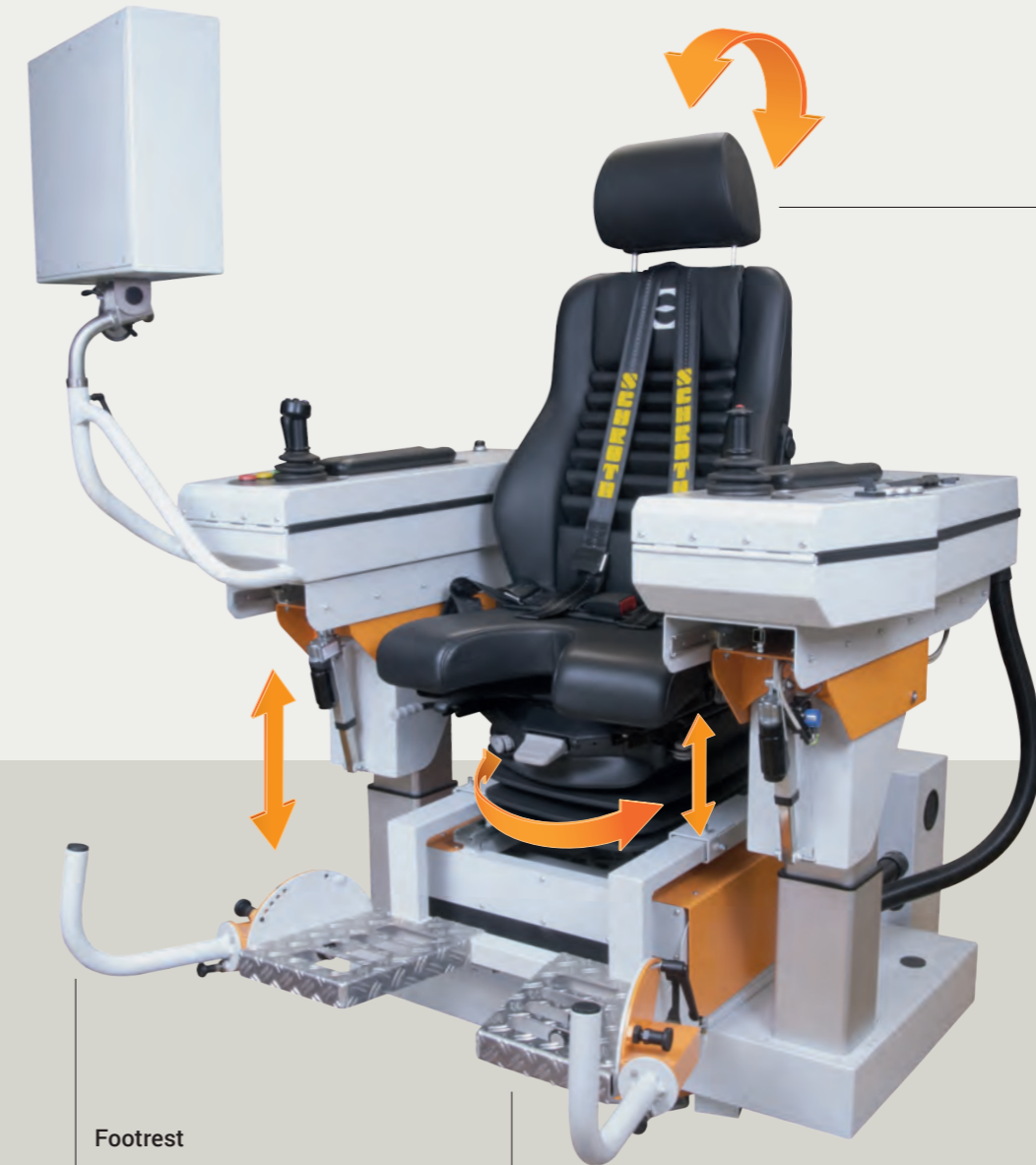
BENEFITS

- 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.

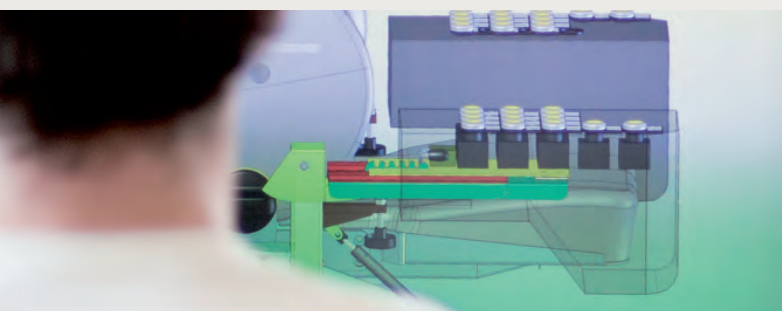
We listen to and take into consideration the needs of our customers and the markets we serve.

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.



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.

BENEFITS

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



SV1C console

FSRHGD console

FSRD console

FSBD console

FSAD console

FSK console

FSMMDER 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

- 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

Best solutions for effortless operating.



The joystick: Precision control built to your specifications.

Large variety of configurations.

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



GM0N/SM0N ST0 VCS0 CS1

HS2 NS3 VNS0/NNS0 VNS2

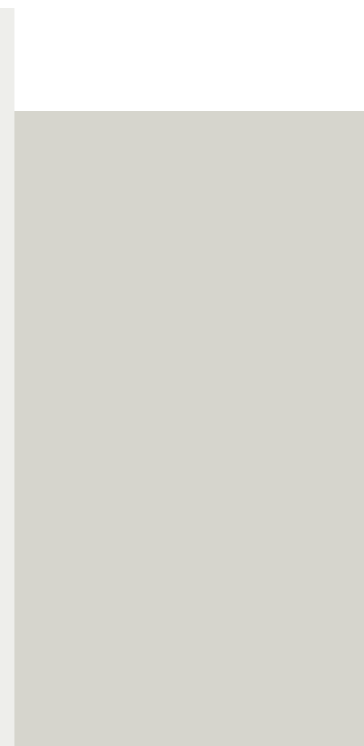


- Spring return
- Modular, compact design
- Shallow under panel depth
- 1 or 2 axis control
- With or without cross-gate
- Max. 5-0-5 steps
- Variety of analog output options

- 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



- 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

- 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

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

- 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



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