



**Spohn+Burkhardt**

Elektrotechnische Fabrik Blaubeuren

# Port solutions

Innovative solutions for harbor applications



# 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 proud 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.

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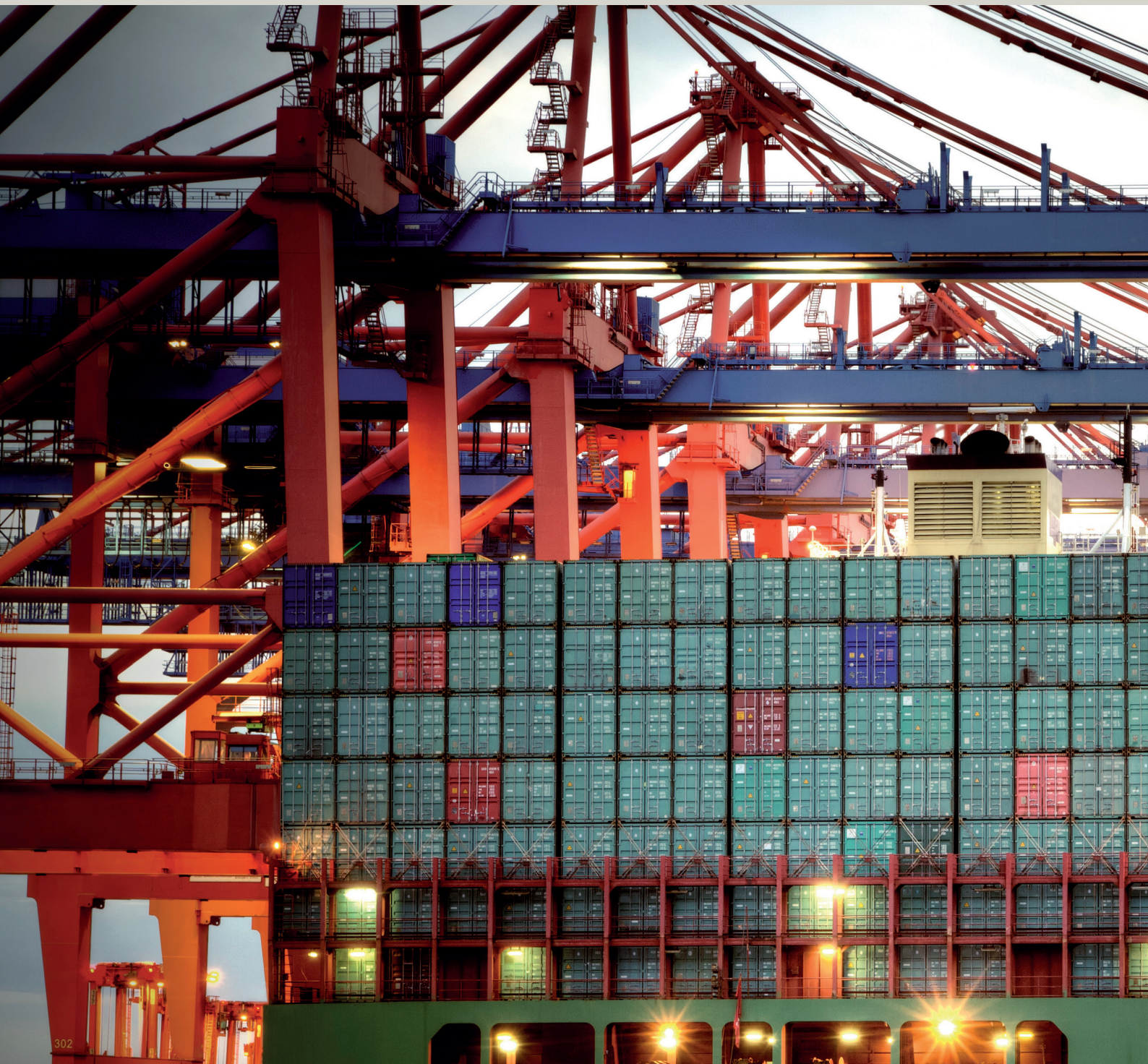


### Market applications

- All port crane control applications
- Vessel throttle and winch control
- Conveyors and drive control
- Transport engineering
- Regeneration
- Power distribution
- Electric supply networks

# Unique designs for your application

Industry leading solutions customized to your needs.



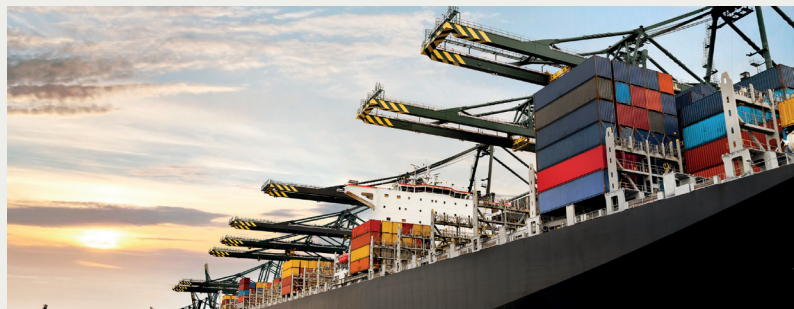
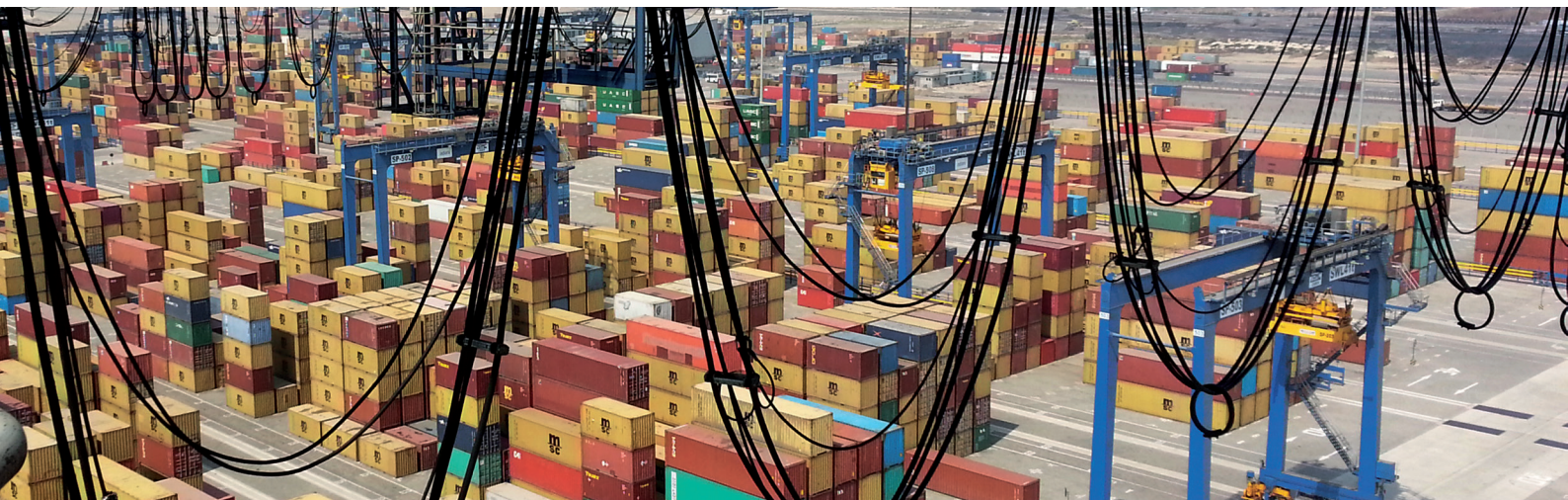


## BENEFITS

- Harmonious relationship between operator and equipment
- Numerous adjustments allow for optimum operator positioning and comfort
- Upmost quality and service life
- Large dealer network providing service worldwide
- Custom designed solutions per customer requirements
- Smart, flexible designs allow for plug and play for most applications:  
Component continuity, technical service and knowledgeable support from a single source supply

# Control stations

Highly adjustable in even the most critical applications.



SV1C



FSRD



FSRHDG

Example of the FSRHD-2G

**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

**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



**Footrest**

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

**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**

- High degree of adjustability
- Excellent ergonomics promotes relaxed and low fatigue work environment

# Resistors

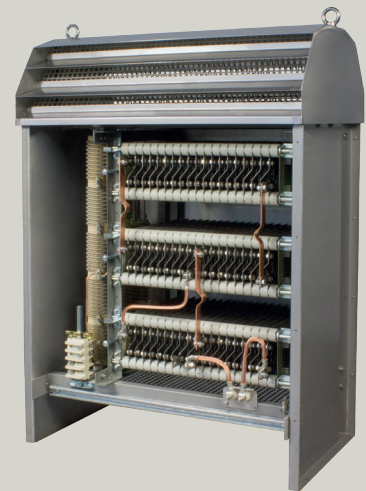
Custom solutions for your energy management needs.



Wire wound resistor



Cast iron resistor



Combination of steel grid and wire wound resistor units



Example of a steel grid resistor



**Roof vents**

- Large roof ventilation slots which promotes excellent air flow and optimal cooling
- Suitable for outdoor use

**Steel grid resistor unit**

- Steel grids made from high quality stainless steel alloy 1.4841 | 1.4541
- Individually mounted resistor sections and grids for ease of replacement

**Lifting eyelets**

- Sturdy eyelet rings for easy transport and quick installation

**Mounting**

- Floor or wall mounting per customer requirements

**Resistor frames**

- Resistor sections are mounted in individual frames for easy removal
- Patented Spohn + Burkhardt anti-vibration clamping fixture

**Options**

- Thermal switch
- Internal/external cooling fans

**Customer connections**

- Easy access design
- Retrofits easily to other manufacturers units
- Allows for flexible relocation
- Customizable

**BENEFITS**

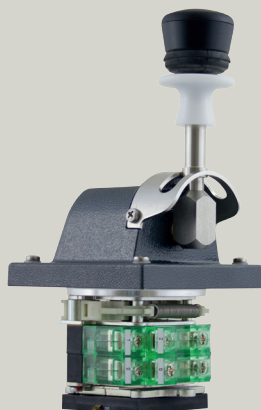
- Individually mounted resistor sections and grids for ease of replacement
- Low inductance
- High quality stainless steel alloy resistor grids
- Capable of withstanding extreme temperatures, with a melting point well over 1000 °C
- Surge-proof - high overload capacity

# Joysticks

Quality and value for the most demanding applications.



ST1



NS0-SFA



Custom made per customer requirements

## Example of the ST3 spur gear drive



### Permanent labeling

- Permanent custom labeling per customer requirements

### Protection housing

- With or without protection housing for indoor or outdoor applications

### Handle

- 1 or 2 levers for single drive engine - forward and reverse or 2 separate drive engines
- T-handle and friction brake supplied standard

### Handle movement stops

- Individual, adjustable lever stops

### Options:

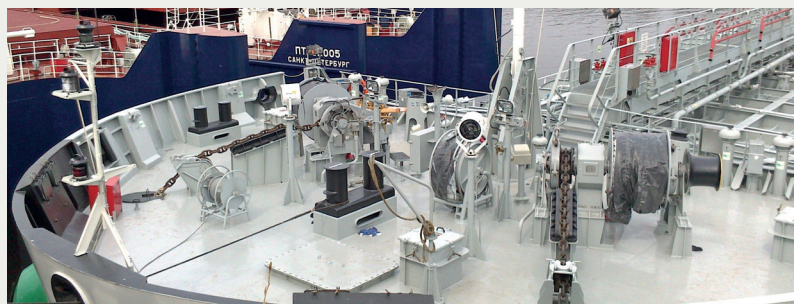
- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

## BENEFITS

- Made of special salt-water-resistant materials for use on ships and yachts
- A wide variety of options including digital direction contacts, handle functions, pushbuttons and protection housing
- Permanent custom labeling per customer requirements

# On deck control stations

Reliable performance in the toughest environments.



Od2

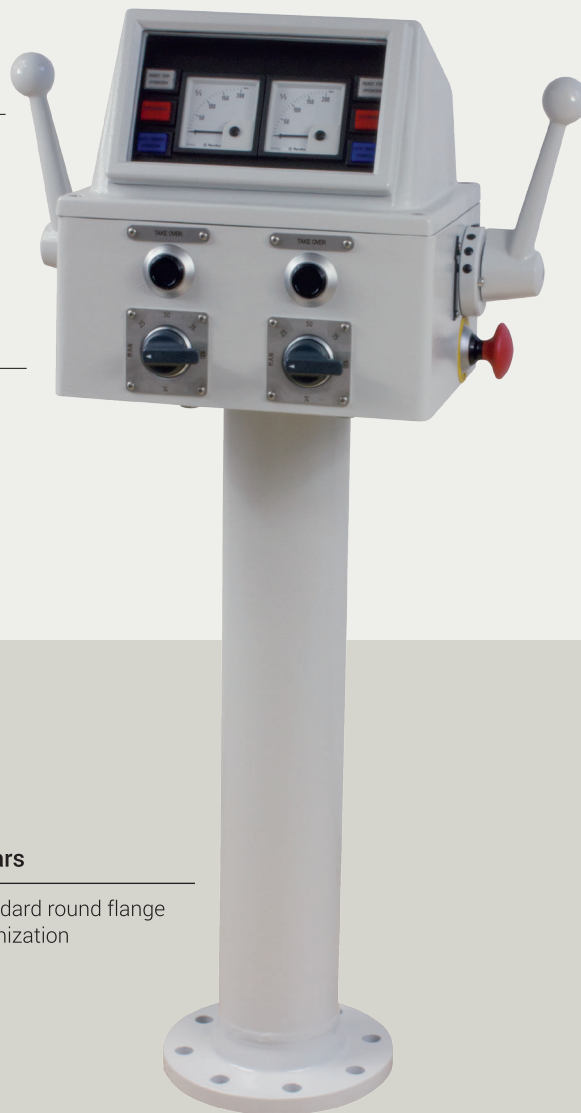


OdS



Available in stainless steel upon request

## Example of the Od22



### Display

- Display configurations per customer requirements (e.g. pressure, load or warning displays)

### Winch control

- Control lever on one or both sides for winch function

### Load switch

- Selector switch for tension setpoint

### Housing

- Housing made of salt-water-proof cast aluminum alloy
- Wet spray finish (up to 7-layers) or powder coating available per customer requirements
- Heating system to eliminate condensation

### Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

### Control station pillars

- With or without standard round flange pillar for space optimization

### BENEFITS

- Durable, compact design able to withstand harsh conditions and temperature extremes
- High protection rating (available in EExd upon request)
- Custom made to customer requirements
- Housing sizes and shapes are also freely selectable for special stainless steel productions

# Integrated solutions

The complete plug-and-play system.



**Cabin air conditioning**

- Creates optimum environmental conditions for operator and equipment thus increasing overall performance

**Ergonomic cabin**

- Rugged, industrial design and high-quality materials
- Unique solutions for every application: All design aspects, including color, can be specified
- Custom window options including, sound resistant, impact resistant, tinted glass or special heated glass
- Available with or without a windshield wiper system

**Control cabinet**

- Drive cabinets and control panels can be integrated into the cabin if required

**Ergonomic control station**

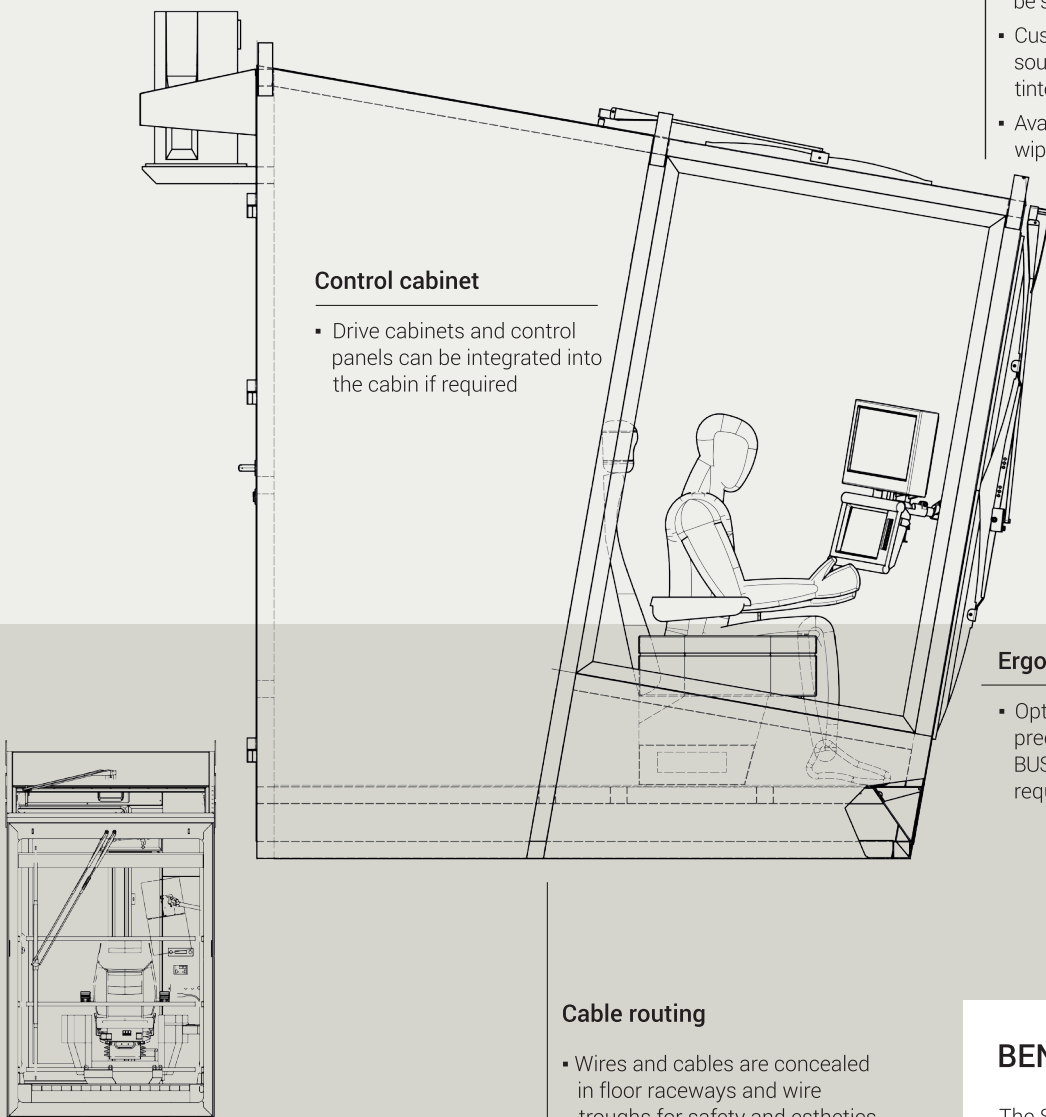
- Optimized control stations and precision joysticks with integrated BUS systems per customer requirements

**Cable routing**

- Wires and cables are concealed in floor raceways and wire troughs for safety and esthetics

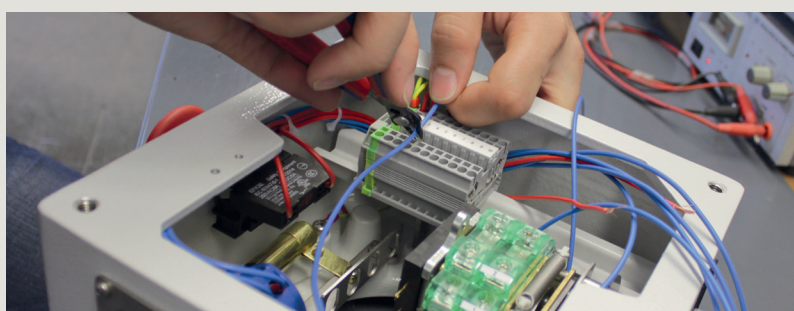
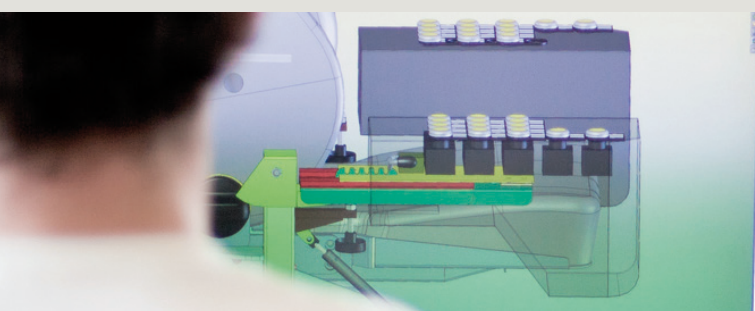
**BENEFITS**

The Spohn + Burkhardt system is truly plug and play. The complete operator and drives interface system is delivered to you from a single source. The operator cabin, control station, control panels, joysticks, bus system, air conditioning system and options, with associated wiring, delivered to your site ready for installation - simple, efficient, cost effective.



# Engineering excellence Customer focused control experts

We build a solution for you.





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

We respond to our customer's needs and the markets we serve. Our two independent, customer focused, technical and mechanical departments bring engineering excellence to the products and solutions developed for our customers.

Our mechanical design team works alongside you from start to finish helping provide a solution for all of your control requirements.

Our electronic and electrical design team develop software and hardware solutions to meet the ever changing market demands – "Made in Blaubeuren" – to our customers worldwide. Unique solutions are developed using engineering expertise and de-

cadets of experience. Whether based on our large variety of standard configurations or a custom design, we have the right solution for you.

As a medium sized company, our strength lies in the unique ability to remain flexible while responding quickly and efficiently to your needs.

Our commitment to quality and innovative designs sets us apart from our competition. We have an unmatched 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 custom solutions with the objective of meeting your requirement as effectively as possible. All in accordance with our motto:

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

# Floor slide systems, foot pedals and portable control stations

The single source for all your control needs.

Floor slide system  
SM13008-8



Floor slide system  
SM13008-7



Floor slide system  
SM13008-5



Bi-directional foot pedal  
FW, FWO



- Made to order lengths and slide ranges
- Heavy duty design for use with complete control stations
- Manual or motorized operation
- Lockable in multiple positions
- Surface or recessed mounting
- Optional double-lock design
- Special colors available upon request

- Made to order lengths and slide ranges
- Integrated curves upon request
- Designed for use with seats only
- Lockable in multiple positions
- Surface or recessed mounting
- Optional double-lock design
- Special colors available upon request

- Made to order lengths and slide ranges
- Heavy duty design for use with complete control stations
- Lockable in multiple positions
- Recessed mounting only
- Special colors available upon request

- Analog potentiometer or one or two step output
- Heavy duty, compact design
- Powder coated aluminum housing
- Special colors available upon request

Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

**Footswitch SF**



- One or two step output
- Heavy duty, compact design
- Powder coated aluminum housing
- IP 42 or IP 56 mounting options
- Special colors available upon request

Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

**Foot pedal FPS, FPW**



- Up to four step output
- Heavy mill duty design
- Powder coated aluminum housing
- With contacts or potentiometer
- Special colors available upon request

Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

**Portable control console TB-56**



- Rugged, compact design
- Fiberglass reinforced plastic housing (dimensions 430 x 260 x 116 mm):
  - Temperature-resistant and waterproof
  - Oil- and fuel-resistant
- Equipped per customer requirements
- Heavy duty gasket seal between top and bottom enclosure sections
- Stainless steel sealing clamps
- With or without breastplate
- With or without stainless steel base

Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

**Portable control console T-022**



- Rugged, compact design
- Fiberglass reinforced plastic housing (dimensions 285 x 195 x 120 mm):
  - Temperature-resistant and waterproof
  - Oil- and fuel-resistant
- Equipped per customer requirements
- Heavy duty gasket seal between top and bottom enclosure sections
- Stainless steel sealing clamps
- With or without breastplate
- With or without stainless steel base

Options:

- CAN, CANopen
- PROFIBUS, PROFINET, PROFIsafe

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