



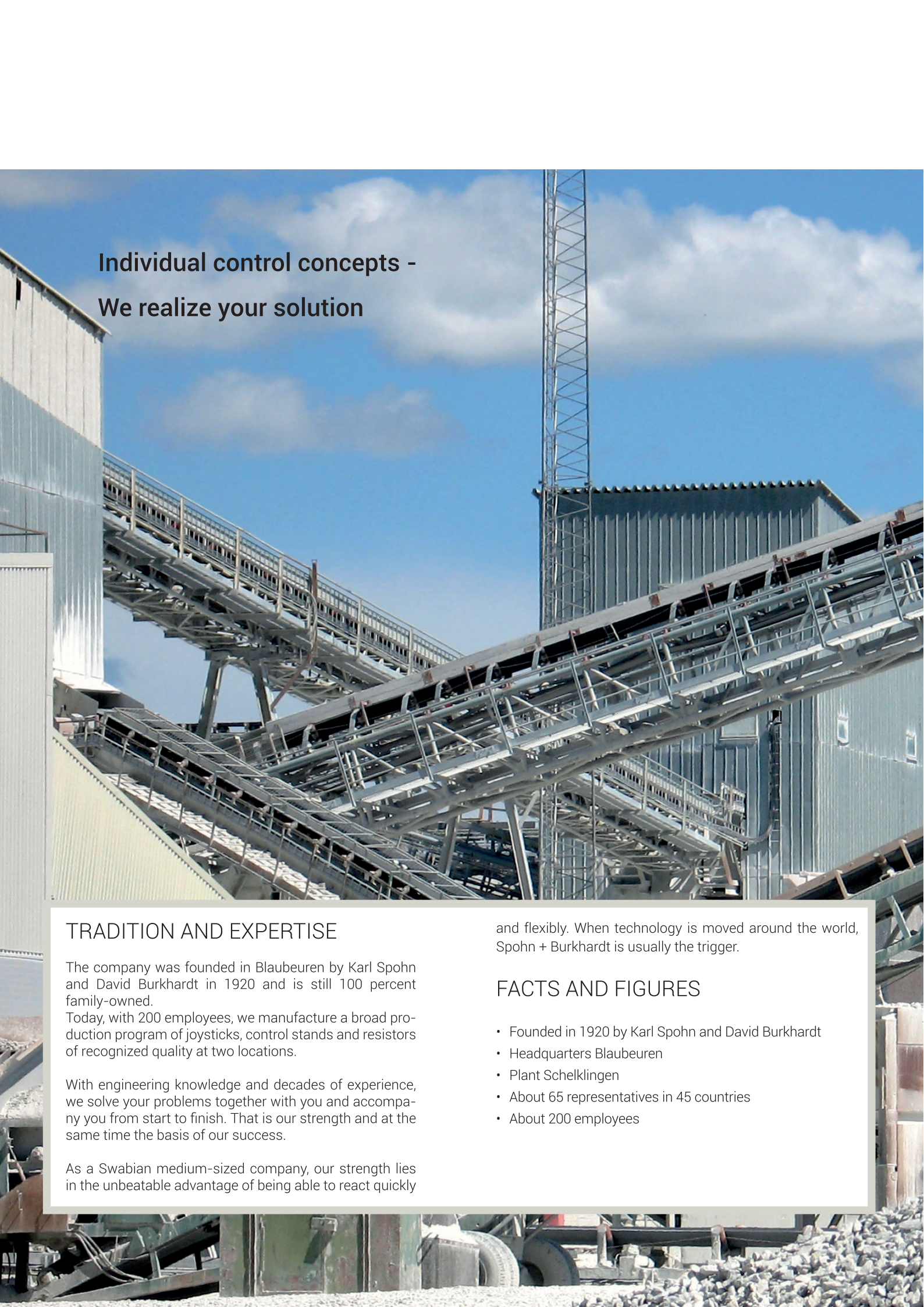
Spohn + Burkhardt

Elektrotechnische Fabrik Blaubeuren

Industry

Joysticks and handles





**Individual control concepts -
We realize your solution**

TRADITION AND EXPERTISE

The company was founded in Blaubeuren by Karl Spohn and David Burkhardt in 1920 and is still 100 percent family-owned.

Today, with 200 employees, we manufacture a broad production program of joysticks, control stands and resistors of recognized quality at two locations.

With engineering knowledge and decades of experience, we solve your problems together with you and accompany you from start to finish. That is our strength and at the same time the basis of our success.

As a Swabian medium-sized company, our strength lies in the unbeatable advantage of being able to react quickly

and flexibly. When technology is moved around the world, Spohn + Burkhardt is usually the trigger.

FACTS AND FIGURES

- Founded in 1920 by Karl Spohn and David Burkhardt
- Headquarters Blaubeuren
- Plant Schelklingen
- About 65 representatives in 45 countries
- About 200 employees



Spohn+Burkhardt

Elektrotechnische Fabrik Blaubeuren



BENEFITS

- Made in Germany
- Decades of experience in joystick design and manufacturing
- Optimum combination options of our joysticks and handles
- Harmonious relationship between joystick and equipment
- Deliveries from single pieces up to series production
- Upmost quality and service life
- Large dealer network providing service worldwide
- Custom designed solutions per customer requirements



Joysticks

STO

MON

VCS0

VNS0/NNS0

VNS2

C



- Metal drive mechanism
- Maximum 5-0-5 stages
- Long mechanical service life of up to 6 million switching cycles
- Long-lasting lightweight plastic potentiometer or non-contact Hall sensors
- Friction brake or spring-return
- Optional mechanical neutral position lock

- Drive mechanism and housing made of high-quality plastic
- Long mechanical service life of up to 5 million switching cycles
- Long-lasting lightweight plastic potentiometer
- Up to 5-0-5 stages with up to 8 contacts
- Low installation depth with version W, WK, OS
- Weight-optimized design

- Metal drive mechanism, drive block made of high-quality plastic
- Long mechanical service life of up to 10 million switching cycles
- Optional retrofitting of potentiometers, optoelectronic encoders
- Maximum 6-0-6 stages with standard or custom switching mechanisms
- Weight-optimized design
- Friction brake, spring-return or indexed
- Combinable with several SPOBU handles

- Very robust drive mechanism and metal drive block
- Long mechanical service life of up to 20 or 25 million switching cycles
- Maximum 7-0-7 stages
- Optional retrofitting of potentiometers, optoelectronic encoders
- Versions for Ex-zone available
- Optionally with integrated interfaces for CANopen, SAEJ1939, Profibus, ProfiNet
- Version with double lever available
- Combinable with several SPOBU handles

- Extremely robust drive mechanism and metal drive block
- Long mechanical service life with up to 10 million switching cycles
- Maximum 7-0-7 stages
- Powerful DC, AC or gold contacts
- Optional retrofitting of potentiometers, optoelectronic encoders
- Version with double lever available
- Combinable with several SPOBU handles

- Metal drive mechanism and metal drive block made of high-quality plastic
- Long mechanical service life of up to 10 million switching cycles
- Non-contact sensors or plastic potentiometers
- Microswitch hardware with integrated interfaces for SAEJ1939, Profibus, ProfiNet
- Combinable with several SPOBU handles



S1	NS3	HS0	HS2	JMS3	NS00/NS20
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mechanism,
made of high-
strength
mechanical service
life of up to 10 million
switching
cycles
Non-contact HALL
sensors and/or light-
weight
plastic potentiometers
for
wiring
integrated
for CANopen,
Profibus
with several
handles

- Metal drive mechanism and drive block
- Long mechanical service life of up to 20 million switching cycles
- Non-contact HALL sensors and/or lightweight plastic potentiometers
- Microswitches for hardware wiring
- Optionally integrated interfaces for CANopen, CANopenSafety, Profibus, ProfiNet, ProfiNet with ProfiSafe protocol
- Combinable with several SPOBU handles

- Metal drive and housing
- Long mechanical service life of up to 10 million switching cycles
- Non-contact 3D Hall sensors
- Low installation depth
- Redundant analogue exit
- Optional external interfaces for CANopen, SAEJ1939, Profibus, ProfiNet
- Combinable with several SPOBU handles

- Metal drive and housing
- Long mechanical service life of up to 10 million switching cycles
- Non-contact 3D Hall sensors
- Redundant analogue exit
- Optional integrated interfaces for CANopen, SAEJ1939, Profibus, ProfiNet
- Combinable with several SPOBU handles

- Extremely sensitive, zero-play metal mechanism
- For smooth and precise control, optionally with oil damping
- Mechanical service life of up to 4 million switching cycles
- Non-contact HALL sensors or lightweight plastic potentiometers
- Low-profile rubber sheath for low handle height
- Combinable with various electronic interfaces

- Robust control switch with metal drive mechanics
- Long mechanical service life
- Optional retrofitting of potentiometers, optoelectronic encoders
- Optionally available with interfaces for CANopen, SAEJ1939, Profibus, ProfiNet
- Versions for Ex-zone available

Handles



Standard handles

- | | | | |
|---|--|--|--|
| <p>G41</p>  | <ul style="list-style-type: none"> • Standard plastic handle for CS1, VCS0 and VNS0 joysticks • Optionally with recessed or protruding button with various protection ratings • Available with integrated capacitive hand recognition sensor • Version G41-Z for mechanically locking joystick | <p>G48</p>  | <ul style="list-style-type: none"> • Standard plastic handle for NNS0 joysticks • Optionally with recessed or protruding button with various protection ratings • Available with integrated capacitive hand recognition sensor • Version G46-Z for mechanically locking joystick |
| <p>G22</p>  | <ul style="list-style-type: none"> • Plastic handle Ø 40 mm • A maximum of 1 pushbutton can be integrated • Recessed or protruding pushbutton installation • Version G22Z for mechanically locking joystick • Combinable with several SPOBU joysticks | <p>G21</p>  | <ul style="list-style-type: none"> • Plastic handle Ø 45 mm • A maximum of 2 pushbuttons can be integrated • Recessed or protruding pushbutton installation • Version G21Z for mechanically locking joystick • Combinable with several SPOBU joysticks |
| <p>G57</p>  | <ul style="list-style-type: none"> • Standard handle for joystick HS0 • Compact design • Ideal for installation in remote controls | <p>M054</p>  | <ul style="list-style-type: none"> • Standard handle for M0 joysticks • Optional pushbutton • Version M054-Z for mechanically locking joystick |


Palm handles

- | | | | |
|---|--|---|---|
| <p>G40</p>  | <ul style="list-style-type: none"> • Palm handle with several installation options • Push buttons on the side and/or on top • Alternatively with toggle switch on top • Optionally with hand rest • Combinable with several SPOBU joysticks | <p>G4T</p>  | <ul style="list-style-type: none"> • Forward-tilting palm handle • Lever switch on front • Optionally with toggle switch, pushbutton or rotary potentiometer on top • Combinable with several SPOBU joysticks |
| <p>G9</p>  | <ul style="list-style-type: none"> • Compact palm handle with/without pushbuttons • Optionally with capacitive hand recognition sensor • Operable with 2 fingers or whole hand • Combinable with several SPOBU joysticks | <p>G25</p>  | <ul style="list-style-type: none"> • Compact plastic handle • Operable with 2 fingers or whole hand • Up to 6 pushbuttons can be integrated • Combinable with several SPOBU joysticks |
| <p>G52</p>  | <ul style="list-style-type: none"> • Standard handle for joystick JMS3 • Slim design • Finger operation for extremely precise control | <p>G51</p>  | <ul style="list-style-type: none"> • Compact plastic handle • Up to 6 pushbuttons can be integrated • Combinable with several SPOBU joysticks |


Ball handles

- | | | | |
|---|---|--|--|
| <p>KG40/50</p>  | <ul style="list-style-type: none"> • Solid ball handle • Versions with 40 and 50 mm diameter • Combinable with several SPOBU joysticks | <p>G32B</p>  | <ul style="list-style-type: none"> • Robust ball handle • With capacitive hand recognition sensor • Combinable with several SPOBU joysticks |
|---|---|--|--|

T-handles

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|--|---|---|--|
| <p>G1</p>  | <ul style="list-style-type: none"> • T-handle with/without pushbuttons • Optional mechanical pivoting for ergonomic work • Version G1Z for mechanically locking joysticks • Optionally with dead man's function by pressing down • Optionally integrated capacitive hand recognition sensor • Combinable with several SPOBU joysticks | <p>G13</p>  | <ul style="list-style-type: none"> • T-handle with/without pushbutton • Stationary or rotating with a maximum of 2-0-2 stages • Version G13Z for mechanically locking joystick • Optionally with capacitive hand recognition sensor • Combinable with several SPOBU joysticks |
|--|---|---|--|

Rotary handles

- | | |
|---|---|
| <p>G50</p>  | <ul style="list-style-type: none"> • Handle with integrated rotating function • Sensors with lightweight plastic potentiometers with direction recognition • Combinable with several SPOBU joysticks |
|---|---|

Universal handles

G56



- Ergonomically shaped for left or right hand
- Integrated hand rest for work without fatigue
- Modular design with standard or custom equipment of insert panels
- Optionally integrated capacitive hand recognition sensor
- Optionally rotating
- Combinable with several SPOBU joysticks

G58



- Compact, symmetrical, can be used for left or right hand
- Ergonomically shaped for work without fatigue
- Modular design with standard or custom insert panels
- Catch on the rear
- Optionally integrated capacitive hand recognition sensor
- Combinable with several SPOBU joysticks

UGA



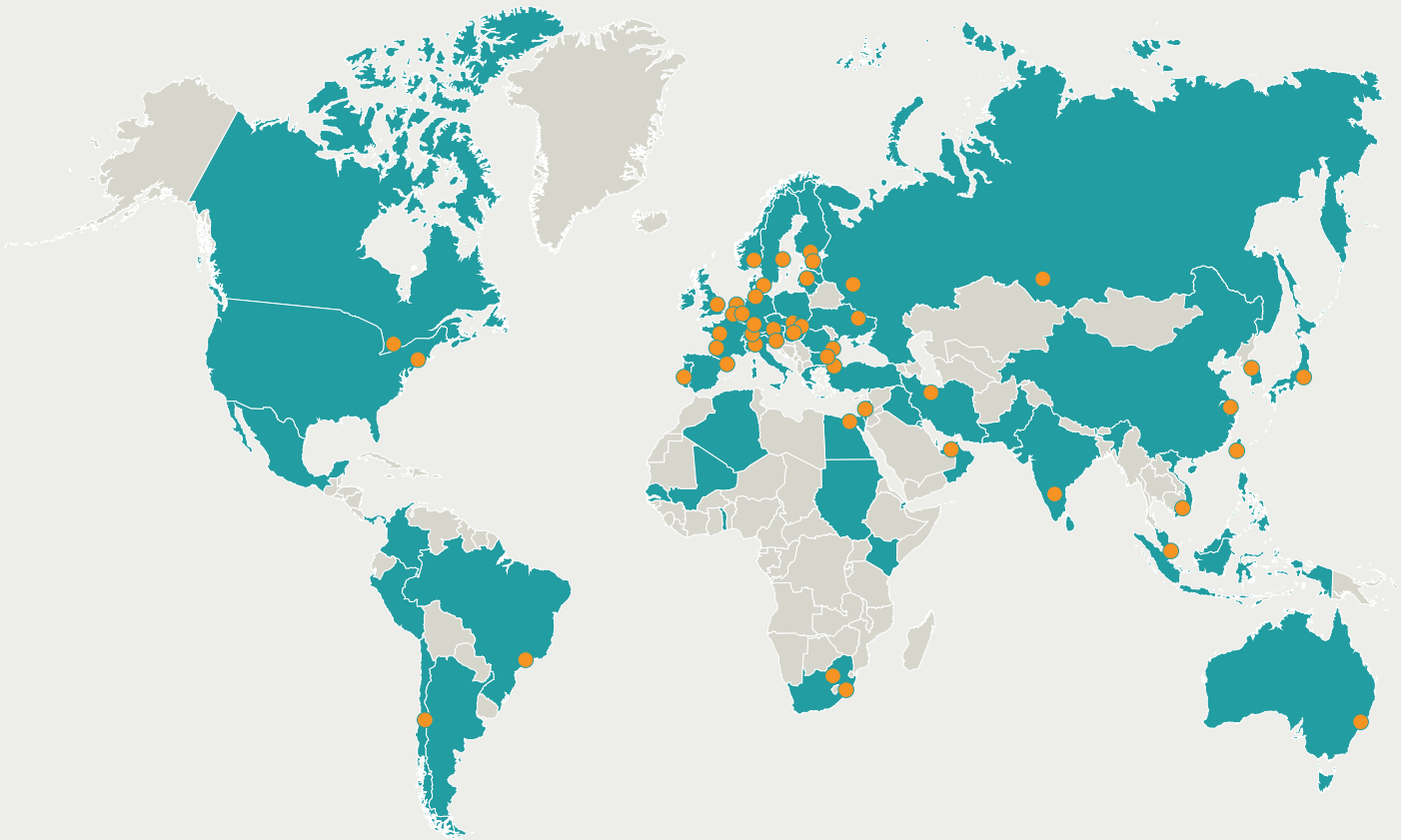
- Can be used for left or right hand
- Modular design with optional combination of wide and narrow handle halves
- High variability with installation of command devices on top, front or side
- Lever switch on the rear
- Optionally with hand rest, can also be updated
- Optionally rotating
- Optionally integrated capacitive hand recognition sensor
- Combinable with several SPOBU joysticks

UGN



- Compact handle can be used for left or right hand
- Ergonomically shaped for work without fatigue
- High variability with installation of command devices on top, front or side
- Integrated surrounding hand rest
- Optionally integrated capacitive hand recognition sensor
- Combinable with several SPOBU joysticks

Representatives of Spohn + Burkhardt National and international



More than 65 representatives in 45 countries
Find out more on our website www.spobu.com

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