Based in Europe, globally present

The various companies in the Schaltbau Group have sales and manufacturing facilities worldwide. They also work together with external sales partners. With their specialised knowledge and a high degree of product innovation, the companies in our Group have worked hard to win the confidence of their customers and strive continually to strengthen their current market position through well-targeted research and development activities. Organic growth is the result of innovative products and solutions, the concentration on new target groups and greater market penetration.

Play it safe

In order to guarantee maximum safety, Schaltbau products are subject to a strict quality and optimization management. This enables us to standardise and optimise our processes and keep the failure rate low. Thus Schaltbau fulfills all the requirements for continuous product improvements – with a view to safety.
With annual Group revenue in the region of EUR 500 million and around 3,000 employees at 30 locations, Schaltbau Group is an internationally leading supplier of systems and components in the field of transportation technology and the capital goods industry. With Schaltbau, Bode, Pintsch and SBRS as their core brands, Schaltbau Group companies develop a wide range of high-quality technologies and customer-specific technological solutions for rolling stock, rail infrastructure, road vehicles and commercial vehicles. As one of the few specialists for smart DC energy concepts, the Schaltbau Group is also a driver of innovation for the fast-growing markets of tomorrow such as new mobility, new energy and new industry.

Core brands of the Schaltbau group

**Leading in mobile and stationary transportation technology and electromechanical components**

**Bode**

*The Door*

Bode is one of the world’s leading suppliers of innovative door and access systems for trains, buses, commercial and electric vehicles and the number one in Europe.

**Pintsch**

*Safety for Rail*

Pintsch stands for safety and availability in national and international rail traffic. As a manufacturer of safety-relevant products for railway infrastructure, PINTSCH focuses on the provision of systems, components and services.

**SBRS**

*Efficiency First*

SBRS focuses on the resource-saving complete and partial modernization of trains, including service, as well as sustainable fast-charging technology for electric vehicles, such as e-buses or commercial vehicles.

**Schaltbau**

*Connect Contact Control*

Schaltbau GmbH has been a global leader in the development and manufacture of electromechanical components for rail technology and industry and is increasingly occupying the young markets of New Energy and New Mobility.

**Market orientation**

**Versatilely positioned – internationally leading**

The Schaltbau Group is a leading international expert in energy and mobility and has the key technological core competencies to support its customers in the development of integrated mobility concepts and smart energy solutions.

**Efficient solutions provide innovation, safety and comfort in trains, buses and commercial vehicles.**

**As experienced specialists, we are paving the way for sustainable, safe mobility concepts, both now and in the future.**

**We devise solutions for energy conversion, storage and utilization that are more efficient and environmentally compatible.**

**As direct current experts, we offer optimal solutions for the efficient operation of industrial plants.**

**Schaltbau Group 2020**

<table>
<thead>
<tr>
<th>Sales:</th>
<th>€502m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employees at year-end:</td>
<td>2,916</td>
</tr>
</tbody>
</table>

**Travelling safely**

**The full load of mobility**

**More power for electricity**

**Efficiency in production**
Schaltbau GmbH Group

Connect – Contact – Control

Schaltbau GmbH develops and manufactures electromechanical components and innovative driver’s desks for railways and industry. Since 1929, we have been responsible for the safe operation of rail services, and today we protect systems in industrial applications for renewable energy, e-mobility and automation. We follow the highest safety standards for our customers, and create safe solutions for your applications. Electrical energy is our passion.

Schaltbau worldwide

Subsidiaries, representative offices, sales partners

The Schaltbau GmbH Group has a global presence with 12 foreign subsidiaries / representative offices and more than 40 sales partners.

Locations:
- Germany, Austria, France, UK, Italy, Russia, South Africa, China, India, Japan, USA

Headquarters:
- Munich, Germany

Turnover:
- 2020: €143m consolidated

Staff:
- 2020: 989

Products/markets:
- Electromechanical components and customized solutions in industrial renewable energy applications, e-mobility, automation and railway technology

Schaltbau Russia rep. office
Schaltbau Austria GmbH
Schaltbau France S.A.S.
Schaltbau_machine_electrics_Ltd
Schaltbau Radel South Africa (Pty.) Ltd.
Schaltbau Machine Electrics Ltd.
Schaltbau North America Inc.
Schaltbau Asia Pacific Ltd.
Schaltbau China & Hong Kong SAR
Schaltbau India Pvt. Ltd.
Schaltbau Japan rep. office
Schaltbau America Inc.
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Schaltbau China & Hong Kong SAR
Schaltbau India Pvt. Ltd.
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Schaltbau Japan rep. office
Schaltbau America Inc.
Schaltbau America Inc.
Schaltbau China & Hong Kong SAR
Schaltbau India Pvt. Ltd.
Close to the customer worldwide

Companies, representative offices

Schaltbau GmbH
Headquarters

Schaltbau France S.A.S.

France
Paris-Argenteuil

Schaltbau Machine Electrics Ltd.

United Kingdom
Ciernban

Schaltbau Austria GmbH

Austria
Venna

SPI S.p.A.

Italy
Savonna

Schaltbau Russia

Russia
Moscow

South Africa (Pty) Ltd.

South Africa
Johannesburg

North America Inc.

USA
Hauppauge (NY)

PR China

PR China

Xian Schaltbau

PR China
Xi’an (Shaanxi)

Electric Co. Ltd.

Shenyang Schaltbau

PR China
Shenyang (Liaoning)

Electrical Co Ltd.

Xi’an Schaltbau

PR China
Xi’an (Shaanxi)

Electric Corp. Ltd.

Shenyang Schaltbau

PR China
Shenyang (Liaoning)

Electrical Co Ltd.

Xian Schaltbau

PR China
Xi’an (Shaanxi)

Electric Co. Ltd.

Shenyang Schaltbau

PR China
Shenyang (Liaoning)

Representative office

Shenyang Schaltbau

PR China
Shenyang (Liaoning)

Representative office

Shenyang Schaltbau

PR China
Shenyang (Liaoning)

Representative office

Shenyang Schaltbau

PR China
Shenyang (Liaoning)

Representative office

Schaltbau Japan

Japan
Yokohama

India
New Delhi

Activities

Center of competence

connectors, switches,
contactors

Technical support,
Sales

Customizing

Manufacture

Assembly

Service

USA

Hauppauge (NY)

Technical support,
Sales

Customizing

Manufacture

Assembly

Service

South Africa

Johannesburg

Technical support,
Sales

Customizing

Manufacture

Assembly

Service

North America Inc.

Hauppauge (NY)

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Sales

Customizing

Manufacture

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Service

PR China

Xi’an (Shaanxi)

Technical support,
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Service

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Service

Technical support,
Service

Technical support,
Service

Technical support,
Representative
functions

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Locations

Germany

Munich (HQ)

Velden

Aldersbach

France

Paris-Argenteuil

United Kingdom

Ciernban

Austria

Venna

Italy

Savonna

Russia

Moscow

South Africa

Johannesburg

USA

Hauppauge (NY)

PR China

Xi’an (Shaanxi)

Shenyang Schaltbau

PR China
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India

New Delhi

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The Schaltbau 360° competence

C Consulting

Experts are the best consultants. Schaltbau is a specialist in electromechanical components and customer-specific solutions with decades of experience in development and manufacture.

A Application

No need to reinvent the wheel! Schaltbau sales engineers have access to a treasure trove of knowledge and experience including a host of realized applications. Thus you will benefit from analogies and empirical data that may be of some value for your application.

P Product

The right solution may eventually be an item from our product line, a special variant with little need for adaptation, or a completely new design – because customizing is standard with us!

- Consulting
  + Expertise
    Benefit from the Schaltbau know-how
  + Consulting
    Experienced sales engineers work on-site with you
  + Solution
    Cooperation spells success

- Application
  + Customer
    Added value and maximum benefit for your solution
  + Safe
    Safety for man and machine in your application
  + Cost-effective
    Robust, no maintenance, long life

- Product
  + 3 possibilities – 1 solution
  + Pick-to-order
    Existing product from our product line
  + Configure-to-order
    Well-proven and tested special variant with little need of adaptation
  + Design-to-order
    Completely new development to customer requirements
Our diverse solutions for applications are used in a whole host of systems around the globe. Safety and reliability are our greatest good. We contribute our experience from railway engineering to other markets. Our products are designed to protect your systems and ensure personal safety.

Electromechanical components and customer specific solutions from Schaltbau for a wide variety of applications.

**RAILWAY**
- Safely on track.
- Switching and controlling features which meet the highest requirements.
- For goods and passengers.

**INDUSTRY**
- Reliable in production.
- Certified variations on safety-relevant solutions.
- For man and machine.

**NEW ENERGY**
- More power for electricity.
- Top-notch safety for stationary energy supply systems.
- For renewable energies.

**NEW MOBILITY**
- Safe otherwise.
- Safely disconnecting high voltages in electric vehicles.
- For tomorrow’s solutions.

**Applications:**
- Light rail
- EMUs / DMUs
- Suburban trains
- Underground trains
- High speed trains
- Machinery and plant engineering
- Tunnel and Mining
- Medical technology
- Battery test stands
- Building control
- Test systems
- DC power network
- Stationary battery energy storages
- Wind turbines and PV systems
- Tracking systems for wind turbines and PV systems
- Fuel cells
- Battery charging stations
- Energy Conversion
- Battery second life
- e-Buses
- e-Trucks
- e-Cars
- Battery charging stations
- Battery test stands
- e-Fork lift trucks
- AGV
- e-Boats

industry.schaltbau.com
rail.schaltbau.com
energy.schaltbau.com
mobility.schaltbau.com

Page 12 1 Schaltbau GmbH
Schaltbau is a brand name for connectors, snap-action switches, contactors, electrics for rolling stock and complete drivers cab equipment that fully conform to the highest safety standards. Thus you will find worldwide in all branches of industry, in which electrical systems have to be connected, switched and controlled reliably under harsh ambient conditions, electromechanical components and customer specific solutions from Schaltbau.

Products

Decades of experience in engineering and production

Connectors

High-quality connectors for industry, transportation and telecommunications.
Connecting reliably under extreme conditions.

Snap-action switches

Our snap-action switches comply with high standards for safety circuits.
Switching with precision when it really matters.

DC and AC contactors

Users in industry and the rail sector benefit from our know-how in switching high currents.
Reliably extinguishing the electric arc.

Control devices

Our electrics for rolling stock make railway vehicles both safe and comfortable.
Arriving punctually.

Service

Planned maintenance and modernisation.
Our know-how ensures safe operation.
Feel in good hands.
Connectors

Schaltbau connectors are characterized by: long life and rugged design, up to 10,000 mating cycles, tightness up to IP69K, high material and temperature resistance as well as resistance to shock and vibration. This makes them ideally suited to be used for years of continuous operation and under harsh environmental conditions.

Reliable connections

- for transportation systems
- to railway and industry standards
- for signal and data transmission
- for industrial trucks
- to customer requirements
Snap-action switches

Featuring double break contacts and positive opening operation, snap-action switches from Schaltbau have proven for 40 years to be the ideal components for failsafe systems. Both a high breaking capacity and a design life of up to 10 million operating cycles provide solid reasons to make Schaltbau switches the components of choice for realising the functional safety of machines and systems.

Switches for failsafe systems

- Double-break contacts and positive opening operation
- Variants for extreme conditions
- Mechanical endurance up to 10 million cycles
- 3 sizes
- Continuous thermal current up to 20 A
- Sealed up to IP67 (IP code, IEC 60529)
- Temperature range up to -55°C ... +85°C
- Gold contacts, optional

According to the internationally accepted rules of scuba diving it is not allowed for safety reasons to dive without a buddy (second diver). Likewise, Schaltbau has developed such a buddy for the micro switch since 1975: a snap-action switch with double-break contacts and positive opening operation, which guarantees that the contacts will open, even when they have become welded together or the spring of the snap mechanism has broken. So there is a reliable alternative to the micro switch – the switch with double safety from Schaltbau.

For more information visit www.schaltbau.info/switches
WE CONTROL ELECTRIC ARCS RELIABLY

The quality of a contactor is best seen when switching off. Electric arcs are ignited between the contacts as they open – just like lightning bolts in a thundercloud. In order to extinguish these arcs we have developed a patented contactor concept by which the arc is driven into the arc chute and extinguished within a few milliseconds. Thus Schaltbau can offer real equipment safety. For this innovative contactor technology prevents the contacts from welding or burning and the equipment from being totally destroyed as a result of a component failure.

For more information visit www.schaltbau.info/contactors

DC and AC contactors

Schaltbau contactors play a key role in the mobility of the future. Compact DC switching devices ensure galvanic isolation between the battery and the on-board network in the safety circuit and switch reliably in the event of a fault.

With renewable energies and the use of DC networks in manufacturing, the switching of high DC loads is gaining in significance.

Thanks to many years of experience in railway technology Schaltbau supplies contactors for all fields of application, in which load circuits have to be safely switched and disconnected.

Contactors for various applications

- DC contactors in the High-Voltage Battery Disconnect Unit (HV-BDU) of electric vehicles
- DC high-voltage contactors for battery charging
- Universal compact contactors for DC and AC up to 1,500 V
- HV contactors for renewable energies up to 3,000 V and 2,000 A
- Contactors for traction inverters, DC and AC, up to 3,000 V and 2,000 A
- Contactors for auxiliaries/HVAC
- Traction contactors for AC up to 400 Hz
WE HAVE EVERYTHING UNDER CONTROL

Modern transport systems demand reliable and high-quality components working in flawless unison like a rider and steed. Schaltbau’s control and signalling devices work to ensure outstanding safety and short downtimes in rail vehicles around the globe. Their components deliver on the highest standards, working impeccably and ensuring efficient and smooth operations on a daily basis. As a result, both operators and manufacturers always enjoy a smooth ride and unswerving control despite the sometimes challenging nature of the rail industry.

Control devices

Schaltbau develops and manufactures complete driver cabs as well as various components and systems for applications in passenger coaches, locomotives, EMUs, DMUs, special vehicles and bus drive systems, that meet all requirements for quality, reliability, safety and service life. With our specific know-how and technical capacity, we are the ideal source of pioneering, economical concepts.

Equipment for drivers cab and passenger use

- Complete drivers cab equipment
- Interactive displays
- Master controllers and toggle switches
- Control panel assemblies and emergency brake handles
- Electronic buzzers

For more information visit www.schaltbau.info/rail
WE ENSURE SMOOTH OPERATION

Maintenance as needed and modernization of complete rail vehicles or their parts is crucial for the operation and service life. A flawless technical condition is an absolute must for the safe, punctual and economical operation of your rail vehicle. Downtimes can instantly cost you customer trust and money. In addition to the loss in revenue and higher costs, they can also harm the company’s image because nothing is more annoying or worrying for the passengers and transporters than delays or cancellations.

«Our service is local» – we provide our services wherever they are required. As part of this, we are able to draw on an extensive international network within the Schaltbau Group as well as on many Schaltbau partners. Efficient organisation and regular depot visits come as standard.

For components and systems on rolling stock

- Repairs
- Maintenance
- Overhaul
- Replacement parts
- Drop-In
- Logistics
- Assembly
- Analysis
- Training

For more information visit www.schaltbau.info/service-en

High availability
End-to-end planning certainty
Highly convenient
Cost-efficient maintenance
Safety and sustainability

Safety for man and machine

Schaltbau industrial products such as connectors and switchgear are particularly suited to meet the more stringent requirements of the new EU machinery directive or industrial safety and health protection. If you are looking for components for your safety-related application, a look into our product line would be worthwhile. You can also learn a lot from our many realized applications for your particular application situation. Or benefit from our consulting expertise in order to find out how to implement optimal safety with maximum cost-effectiveness.

Certified safety

Safety and reliability are our greatest assets. We’ve been producing snap-action switches with positive opening operation for four decades and also offer the greatest variety. Every series is built, tested and certified according to VDE, UL and when necessary even CCC.

Quality and the environment

Active, innovative, for the long run

The customer is the main focus of our thoughts and deeds. Comprehensive quality management is the guarantee of customer satisfaction and therefore safeguards the long-term success of Schaltbau GmbH. We are aware of our social responsibility for maintaining the natural environment and act accordingly.

The future is sustainability

Sustainability and the „green spirit“ are our inspiration. As a globally operating company we have a particularly high responsibility for the sustainable development of products that meet the requirements of our customers and comply with the regulations for the protection of human health, safety and the environment. For us a sustainable development also includes both the responsible use of resources and the full exploitation of all possibilities to save energy.
Schaltbau – Electrical Components and Systems for Railway Engineering and Industrial Applications

For detailed information on our products and services visit www.schaltbau.com – or give us a call!

<table>
<thead>
<tr>
<th>RAILWAY</th>
<th>INDUSTRY</th>
<th>NEW ENERGY</th>
<th>NEW MOBILITY</th>
</tr>
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<td>Safe either way. Safely disconnecting high voltages in electric vehicles. For tomorrow’s mobility solutions.</td>
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For detailed information on our products and services visit www.schaltbau.com – or give us a call!

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