

MTCONNECTIVITY

Power elements and connectors for
demanding high-tech applications



«Bossard and MTCONNECTIVITY
– Your global partner for high-current
contacts up to 1,000 amps.»

POWER ELEMENTS AND CONNECTORS

Concentrated power in all areas

»Great things originate in the details.« That is why we pay close attention to details in order to achieve the best possible results, particularly in terms of reliability and durability.

Take advantage of our innovative PCB technology and expertise: powerful, robust power elements and press-fit connectors for optimal performance in demanding industrial high-tech applications in sectors such as the automotive industry, off-road, electronic devices, aerospace and rail transport.

Benefit from our many years of expertise for your perfect customised PCB solution.

Thousands of satisfied customers worldwide trust in the quality of Bossard's products and services. They know why.



One-stop shop

- Fasteners for electrical purposes
- Fasteners for mechanical purposes



Engineered parts

- In-house engineering know-how
- International network of specialised partner companies



Professional consulting

- Comprehensive engineering services
- Customer trainings for fastening solutions



Own test laboratories

- ISO/IEC 17025-accredited test laboratories in 16 countries around the world.
- Comprehensive mechanical, optical, geometric and chemical test methods



Optimal delivery conditions

- We are on the spot with more than 90 subsidiaries worldwide
- Short response and delivery times
- E-Shop for all catalog products



Smart Factory Logistics

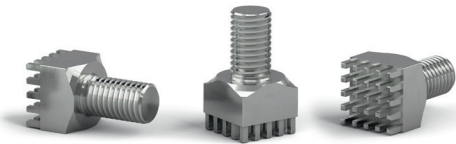
- B- and C-part management
- IoT ready
- Smart, lean and reliable

WE BRING POWER TO YOUR CIRCUIT BOARD

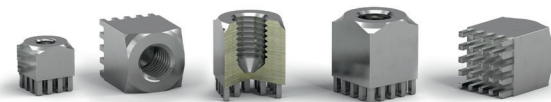
Power elements

Power Tower, Power Socket, Power Edge, Power 2, Power SMD or special MTCO anti-twist protection: choose your preferred variant – standard or tailored to your individual specifications.

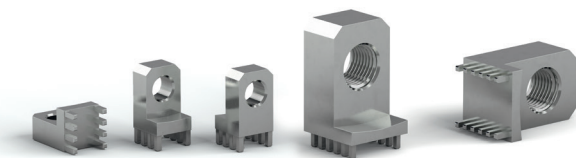
Power Tower



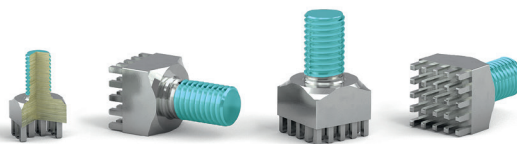
Power Socket



Power Edge



Power Tower Precote 85



Power 2



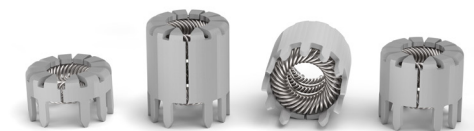
Power SMD



Power Protector



Power Crown



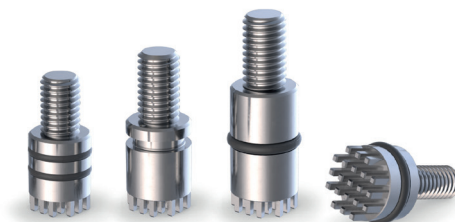
Brox Break Series



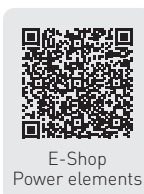
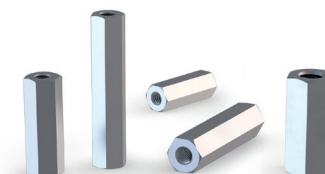
Power Socket Strong Series



Power Seal



Power Spacer



E-Shop
Power elements

PERFECT CONNECTION WITH BOSSARD!

Connectors

Fuse Holders, Relay Sockets, PCB Connectors: Whatever you need, we have it in our portfolio – in the highest quality and performance.

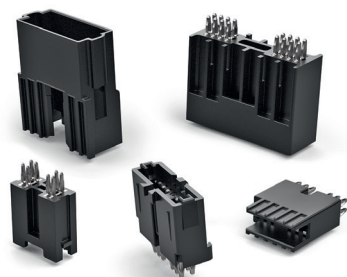
Fuse Holders in 1st Gen



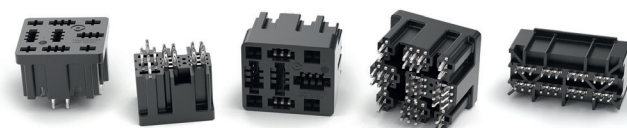
Relay Sockets in 1st Gen



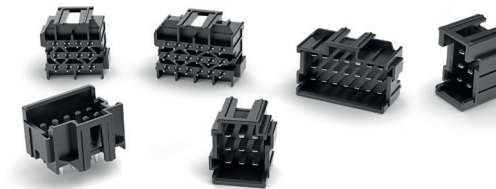
Fuse Holders in 2nd Gen



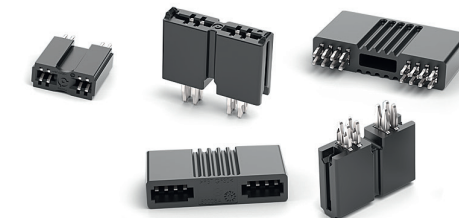
Relay Sockets in 2nd Gen



PCB Connectors in 2nd Gen



Fuse Holders in 3rd Gen



Relay Sockets in 3rd Gen



PCB Connectors in 3rd Gen



Contakt Elements in 2nd Gen



Contakt Elements in 3rd Gen

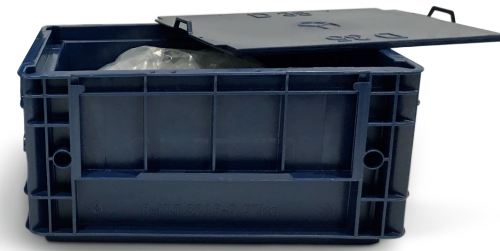


Packaging Systems

MTCON STANDARD-KLT

The practical small load carriers (KLT) made of polypropylene are particularly suitable for manual handling at the production line, automatic part removal from the containers and conversion to empty piles.

- Non-tilting stand, easy stacking
- Standardized sizes, optimized for Euro pallets
- According to VDA standard
- Return or buy



MTCON SET-BOX

The set box will transport power elements with just one hand and protect the components, especially the pins, from damage due to impact and vibration.

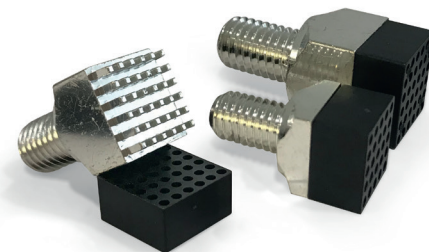
- Can be combined with MTCON standard-KLT
- Reusable
- Item specific with safety adhesive and quality seal
- Especially suitable for product processing directly at the press-fit machine



MTCON SAFE-PIN

The safe pins are a proprietary development and perfectly tailored to work with our power elements. They prevent the fine pins from being damaged during storage or transport.

- Different sizes
- Can be combined with all MTCON power elements
- Best possible protection when combined with our reusable packaging



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VACUUM PACKAGING

Vacuum packaging features essential benefits, e.g. improved protection, storage, transport of packaged products, including maximum scratch and oxidation protection of the SMD coating. Vacuumization enables space-saving packaging of bulk goods. Packaging is ESD protected.

- Over 6 months durability
- Electrostatic protection, maximum transport protection
- On demand also available for small and large batches



BLISTER TAPES

Blister tapes are precise feeding systems. Keep sensitive components like electronic and SMD components clean, dry and perfectly protected in customized packages. A packaging system consists of a blister tape, a matching reel, and a cover sheet. All individual components are customized and combined to customer requirements by our experts.

- Integration into automated production
- Precise positioning in the production process
- Clean, easy storage, automated assembly and processing



REELS

Reels are perfect for reusable transport systems. They are available in various widths and diameters for different feeder systems. The reels are usually made from antistatic polystyrene, depending on the applications. Reels are packaged in sturdy cardboard boxes.

- Matched to standard reel sizes
- Transport-proof
- Dirt repellent
- Stackable
- 100% recyclable



PCB system solutions and complete high-voltage boxes

PCB SYSTEM SOLUTIONS

Press-fit connectors enable direct mounting of the components on the circuit board without requiring soldering or additional cabling, thus ensuring long durability and robustness of the central electric even in the most demanding environmental conditions.

Advantages of a circuit board system solution

- Reduced cost
- Reduced assembly time
- Reduced complexity
- Reduced amount of product numbers in purchasing
- High reliability, reduced number of error sources
- Copper rail and press-fit technology (solder-free high power connections)
- Customized design
- Reduced space requirements
- Easy spare part access
- Reduced weight

Advantages of MTCO's press-fit connection

- 90 % lower electric resistance
- 25 % lower operating temperature
- Min. 80 N holding force per circuit board pin
- Gas-tight, corrosion-free connections
- No pin/soldering interface
- No soldering/PCB interface
- No heat during assembly
- Component assembly from both sides
- No thermal stress on the components



Central technology black box H2 vehicle

HIGH-VOLTAGE BOXES

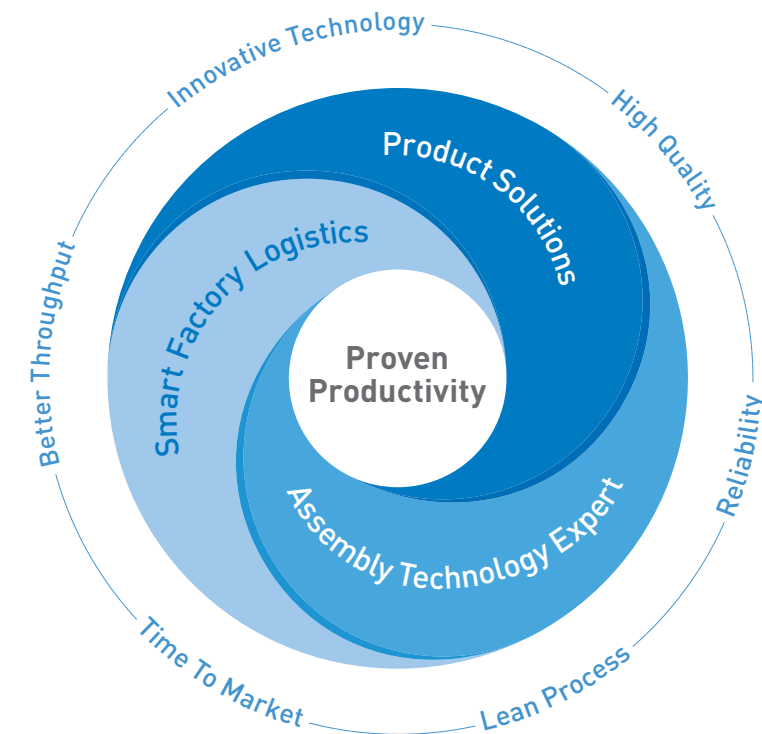
We are happy to assist you with the design, development or optimisation of your high-voltage box.



High-voltage battery pack

PROVEN PRODUCTIVITY – A PROMISE TO OUR CUSTOMERS

The strategy for success



From years of cooperation with our customers we know what achieves proven and sustainable impact. We have identified what it takes to strengthen the competitiveness of our customers. Therefore we support our customers in three strategic core areas.

Firstly, when finding optimal **Product Solutions**, that is in the evaluation and use of the best fastening part for the particular function intended in our customers' products.

Second, our **Assembly Technology Expert** services deliver the smartest solutions for all possible fastening challenges. Our services cover from the moment our customers developing a new product, to

assembly process optimization as well as fastening technology education for our customers' employees.

And thirdly, optimising our clients' productions in a smart and lean way with **Smart Factory Logistics**, our methodology, with intelligent logistics systems and tailor-made solutions.

Understood as a promise to our customers, "Proven Productivity" contains two elements: Firstly, that it demonstrably works. And secondly, that it sustainably and measurably improves the productivity and competitiveness of our customers.

And this for us is a philosophy which motivates us every day to always be one step ahead.

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