



Product Solutions

Range overview

PRODUCT SOLUTIONS

Range overview

Fastening technology



Standard fastening elements



Direct assembly screws



Securing and anti loosening elements

Specific Fastening Technologies



Clinching technology



Rivet technology



Threaded inserts



Clip fasteners



Welding technology



Embedding and surface bonding fasteners

PRODUCT SOLUTIONS

Range overview

Functional Elements



Electrical Products



Access Solutions



Fluid Management



Sealing Technology

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4 Threaded rods and threaded studs



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4 Link to level 4 in e-Shop

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Standard fastening elements

Screws



Screws and bolts with internal drive



Screws and bolts with external drive



Standard fastening elements

Screws



Threaded rods and threaded studs



Set screws



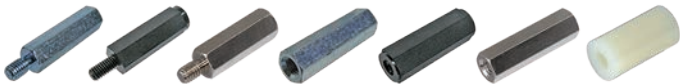
Stud bolts



Eye bolts and lifting eye bolts



Standoffs



Segment clamping bolts



Other screws and bolts



Standard fastening elements

Nuts



Hex nuts



Square nuts



Slotted round nuts



Nuts for T-slots



Wing nuts



Round nuts



Slotted flat countersunk nuts
Slotted round nuts



Lifting eye nuts



Suspension lug nuts



Turnbuckles

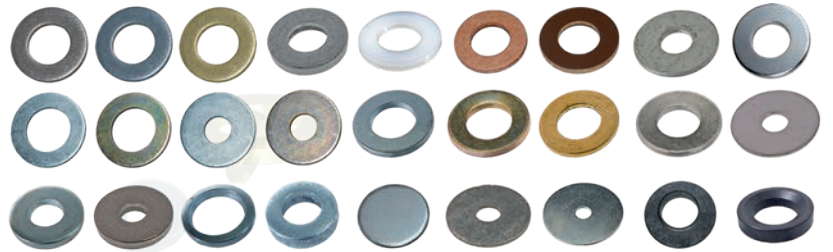


Standard fastening elements

Washers



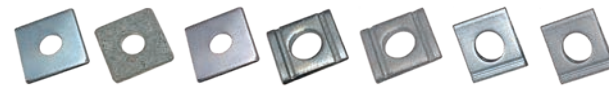
Washers flat, without chamfer



Washers flat, with chamfer



Square washers



Sealing washers



Finishing Washers



Washers for HV bolts



Pins



Spiral / Spring pins



Dowel pins



Grooved pins



Taper pins



Keys



Split pins



Standard fastening elements

Clamping and positioning elements



Balls



Hose clamps



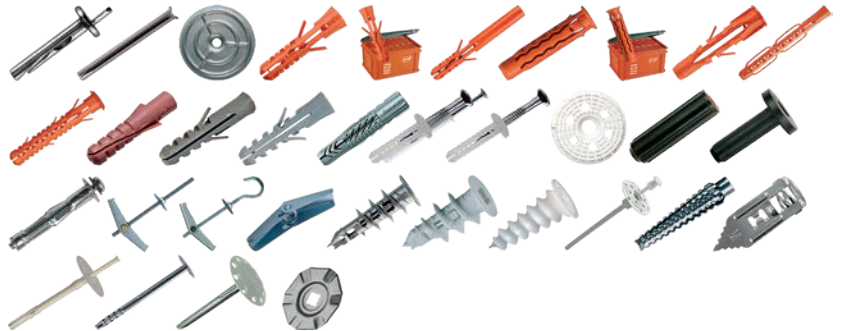
Wire rope shackles / Wire rope clips / Wire rope thimbles



Anchorage systems



Anchoring for light loads



Anchoring for medium loads



Anchoring for heavy loads



FASTENING TECHNOLOGY

Standard fastening elements



Standard fastening elements

Anchorage systems



Tools and equipment for anchorage systems



Tools and equipment for standard fasteners elements



Accessories and protection elements for standard fasteners elements



Direct assembly screws

Direct assembly screws for wood



Direct assembly screws

The advertisement features a large background image of a wooden roof structure under construction. In the top right corner, the **SPAX®** logo is displayed in white on a green square. A large, semi-transparent graphic of a screw is overlaid in the center, with the word **WIROX®** and the text **Corrosion protection** written across it. Below this graphic, the text **SPAX Construction** is written in white on a brown horizontal band. Three large, detailed images of different screw types are shown vertically on the right side. At the bottom of the main image, there is a horizontal strip containing three smaller photographs: the first shows a completed wooden roof structure, the second shows the interior of a building under construction, and the third shows a worker using a power drill on a wooden beam. In the bottom right corner, there are two circular logos: **TUV NORD** (TUV NORD CERT GmbH, Made in Germany) and **MADE IN SPAX® GERMANY**, with a small screw icon between them.

Direct assembly screws

Direct assembly screws for metal



Thread forming and tapping screws for metal



Self-drilling screws for metal



Self-cutting screws for metal



Direct assembly screws for plastics

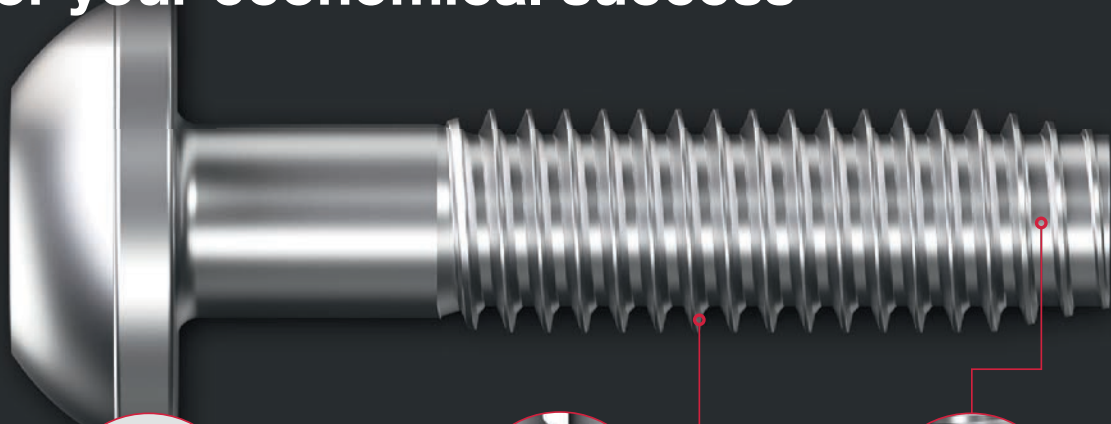


Direct assembly screws for concrete



Direct assembly screws

ALtracs® Plus For your economical success



ALtra CALC

ALtra CALC®

Determination of design and assembly parameters



ALtracs® Plus thread

Forms strengthened female thread with metric compatibility



Self-tapping zone

For a centered application and easy fastening

The ALtracs® Plus screw is the ideal element for direct fastening into light metals:

Process reliable assembly and excellent joint properties

- Female thread with high-strength joint properties
- Easy and simple locating of the screw, reliable penetration into the material
- High installation safety due to high stripping torque
- High clamp load and axial pull-out forces
- Metric compatibility

Time and cost savings through direct fastening

- Fastening directly into the cast hole
- Saving of process steps
- Significant cost savings
- Reduction of time
- Smaller installation depth possible

FASTENING TECHNOLOGY

Direct assembly screws

Tools and equipment for direct assembly screws



Accessories for direct assembly screws



Securing and anti loosening elements

Securing and anti loosening screws



Securing and anti loosening screws with internal drive



Securing and anti loosening screws with external drive



Locking nuts



Metallic locking nut



Hex nuts with integrated locking washer



Locking nuts with polyamide insert



Axial locking

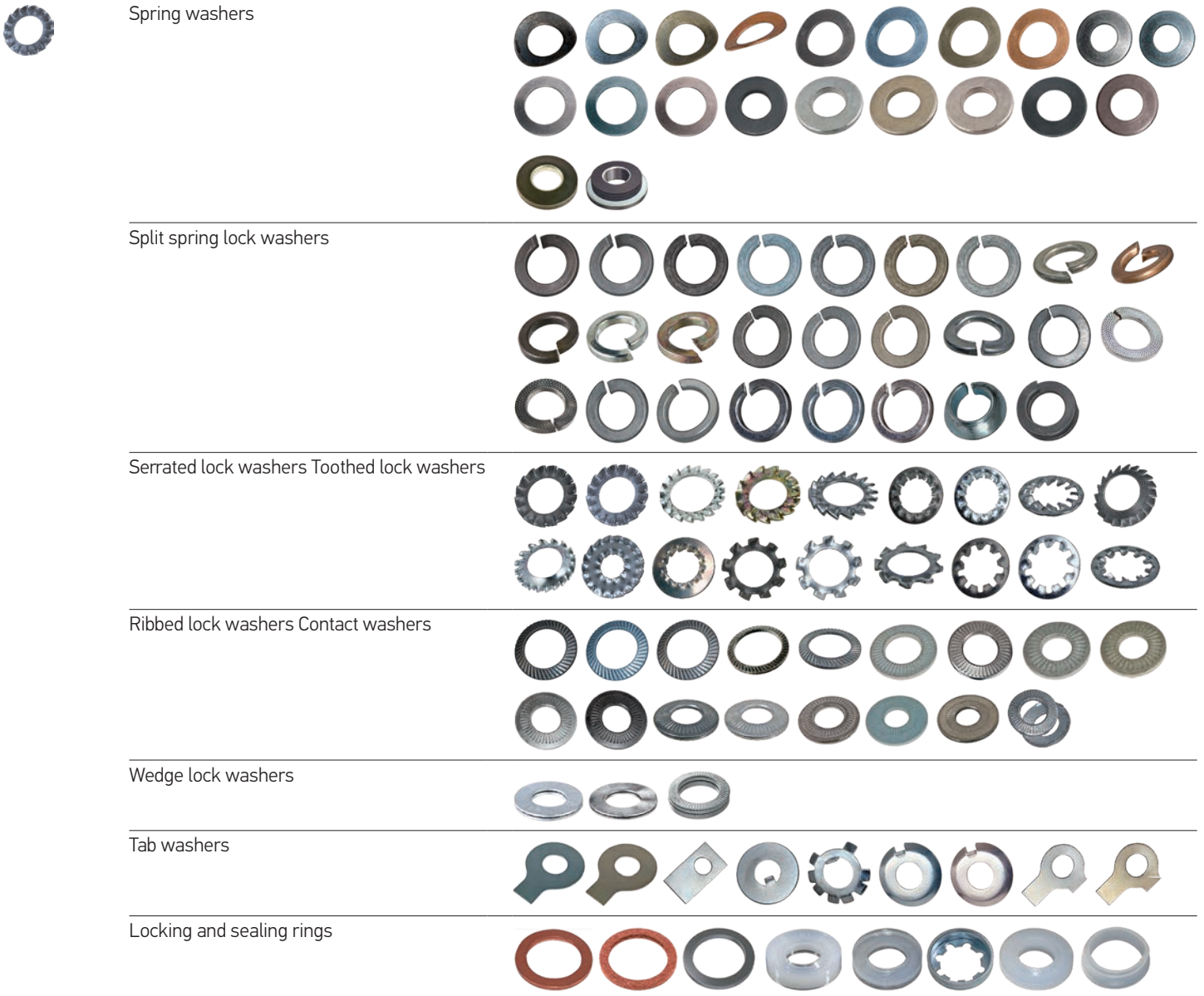


Radial locking



Securing and anti loosening elements

Securing and anti loosening washers



Retaining rings for shafts and bores



Securing and anti loosening elements

Retaining rings for shafts and bores



Securing elements for shafts



Tools for securing and anti loosening elements



Securing and anti loosening elements

NORD-LOCK
GROUP



**OFFERS MAXIMUM SAFETY
FOR BOLTED JOINTS**



Nord-Lock original washers



Nord-Lock X-series washers
















Nord-Lock SC Steel Construction washers

The most reliable solution to secure critical applications

Clinching technology







Clinching clinch

	Self-clinching nuts	
	Self-clinching threaded standoffs	
	Self-clinching threaded studs	
	Self-clinching locking nuts	
	Self-clinching fasteners with concealed head	
	Panel fasteners	
	Spotfast fasteners	
	Self-clinching pins	
	Riveting nuts	
	Self-clinching micro fasteners	
	Self-clinching right angle fasteners	
	Self-clinching standoffs	

SPECIFIC FASTENING TECHNOLOGIES

Clinching technology

Clinching broach

	Broaching standoffs	
	Broaching nuts	
	Broaching threaded standoffs	
	Surface mount fasteners	
	Broaching studs	

Tools and equipment for clinching technology

	Machines	
--	----------	--

Rivet technology

Blind rivets



Open end blind rivets



Closed end blind rivets



Multigrip blind rivets



Load-spreading blind rivets



Peel blind rivets



Plastic blind rivets



Speed rivets



Pull-thru blind rivets



Grounding blind rivets



Rivet technology



STANLEY
Engineered Fastening

Premium engineered
blind rivets and rivet nuts

POP[®]

 STANLEY Engineered Fastening

stanleyengineeredfastening.com

Rivet technology

Structural blind rivets



High-strength structural blind rivets



Structural blind rivets Multigrip



Blind rivet nuts



Open end blind rivet nuts



Closed end blind rivet nuts



Controlled deformation blind rivet nuts



Multigrip blind rivet nuts



Micro blind rivet nuts



Blind rivet studs



Standard blind rivet studs



SPECIFIC FASTENING TECHNOLOGIES

Rivet technology

Lockbolts



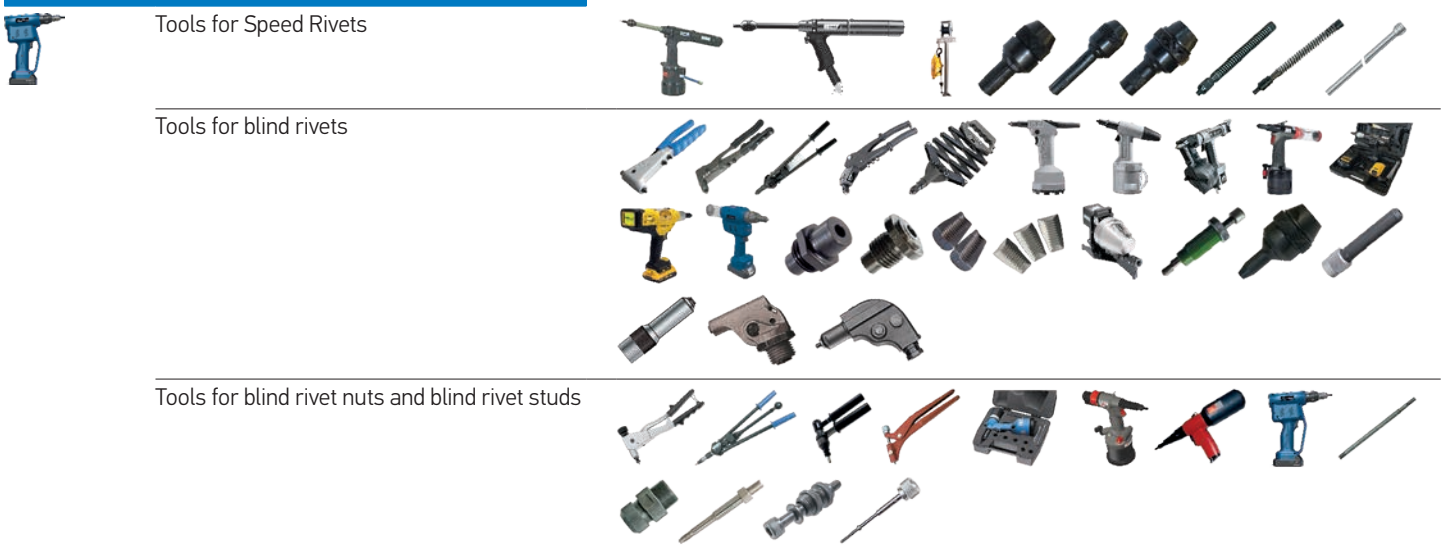
Tubular rivets



Solid rivets



Tools and equipment for rivet technology



SPECIFIC FASTENING TECHNOLOGIES

Rivet technology

Tools and equipment for rivet technology



Tools for lockbolts



Rivet technology



Assembly Technology Expert

Design, Optimierung, Ausbildung

Assembly Technology Expert

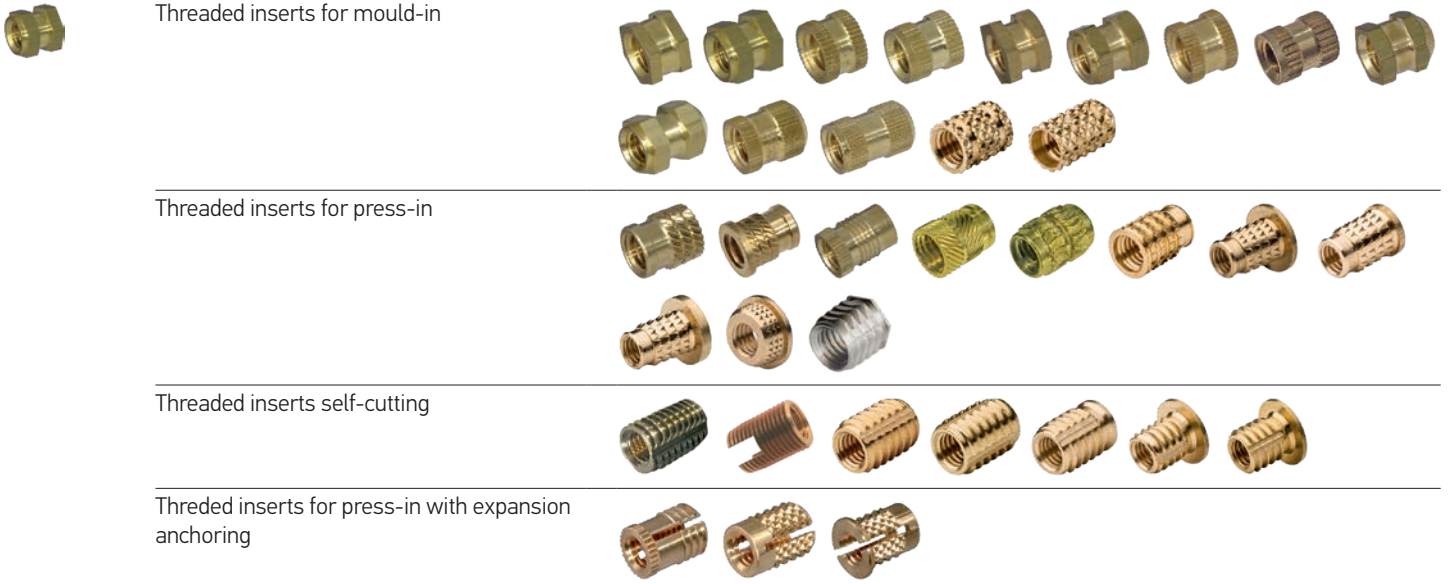
Design, Optimize, Educate

Assembly Technology Expert

Progettare, Ottimizzare, Educare

Threaded inserts

Threaded inserts for plastic materials



Threaded inserts for light metal and plastic materials



Threaded inserts for wooden and soft plastic materials



Threaded inserts

Threaded inserts for light metal materials



Tools and equipment for threaded inserts



SPECIFIC FASTENING TECHNOLOGIES

Clip fasteners

Panel and trim fasteners



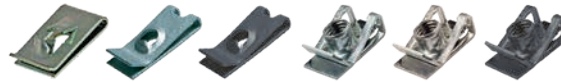
Panel clips



Clip-Threaded fasteners and retainers



Speed clips nuts



Cage nuts



Tools and equipment for clip-fasteners



for Threaded fasteners and retainers



SPECIFIC FASTENING TECHNOLOGIES

Welding technology

Welding nuts



Weld nuts



Spot weld nuts



Welding CD-Tip ignition



Weld studs



MultiMaterial-Welding®



MM-Welding®



SPECIFIC FASTENING TECHNOLOGIES

Embedding and surface bonding fasteners

bigHead® with threaded bolt



bigHead® with threaded bolt
square head



bigHead® with threaded bolt
rectangular head



bigHead® with threaded bolt
round head



bigHead® with pin



bigHead® with pin
square head



bigHead® with pin
rectangular head



bigHead® with pin
round head



bigHead® with nail



bigHead® with nail
square head



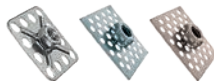
bigHead® with nail
round head



bigHead® with nut



bigHead® with nut
square head



bigHead® with nut
rectangular head



bigHead® with nut
round head



SPECIFIC FASTENING TECHNOLOGIES

Embedding and surface bonding fasteners

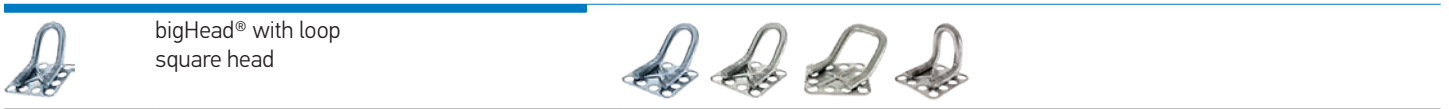
bigHead® with threaded collar



bigHead® with hook



bigHead® with loop



bigHead® with cable bracket



Accessories for embedding and surface bonding fasteners

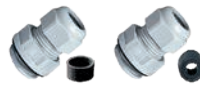


Electrical Products

Cable glands



Cable glands without thread



Cable glands with metric thread



Cable glands with Pg-, NPT- and pipe thread



Cable glands for hazardous areas



Sealing grommets



Pressure balance elements



FUNCTIONAL ELEMENTS

Electrical Products

Cable glands



Accessories and single parts for cable glands



Contact parts



Compression cable lugs



Compression joints



Parallel groove clamps



Solderless terminals



Pin connectors and pin receptacles



Female receptacles and male tabs



Connectors



End sleeves



Terminal blocks

















Assortments



Electrical Products

Cable ties

	Cable ties adjustable	
	Cable ties wing push mount	
	Cable ties with integrated mounting hole	
	Cable ties double loop	
	Cable ties strip hook and loop	
	Cable ties ball-locking	
	Cable ties with tongue	
	Standard cable ties	
	Cable ties releasable	
	Various cable ties	
	High-strength cable ties	
	Cable ties detectable	
	Cable ties ladder type	
	Cable ties no tool needed	

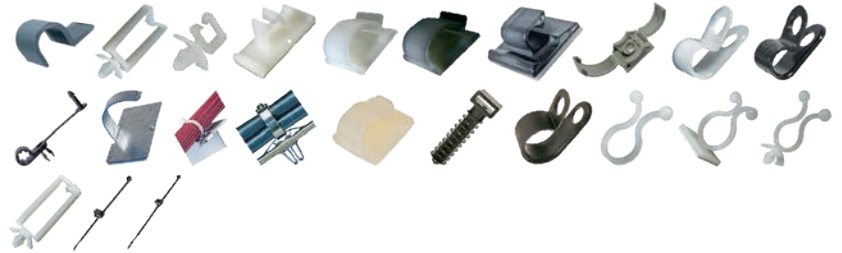
FUNCTIONAL ELEMENTS

Electrical Products

Mountings for cables and pipes



Fixed cable clamp



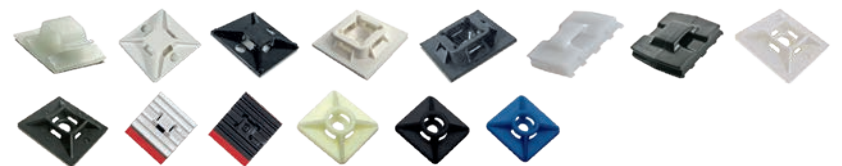
Cable tie mounts



Hook and loop cable tie mounts



Adhesive backed mounts



Flat cable mounts



Industrial enclosures



Enclosures



Mounting rails






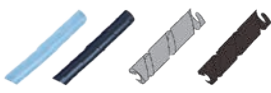








Threaded plates / Socket head screws



FUNCTIONAL ELEMENTS

Electrical Products

Cable protection

	Tubings	
	Tube connectors	
	Spiral wraps	
	Grommets	
	Tubings for cable protection	
	System support	
	Arched elbows	
	Straight connectors	
	Push-in tube connectors	
	Buckling resistant / seals	
	Wiring ducts	

FUNCTIONAL ELEMENTS

Electrical Products

Shrinking technology



Heat shrink tubing



Tools and accessoires for electrical products



Handtools for cable glands



Handtools for cable protection



Handtools for cable ties



Handtools for contact parts



Spare parts for electrical product tools

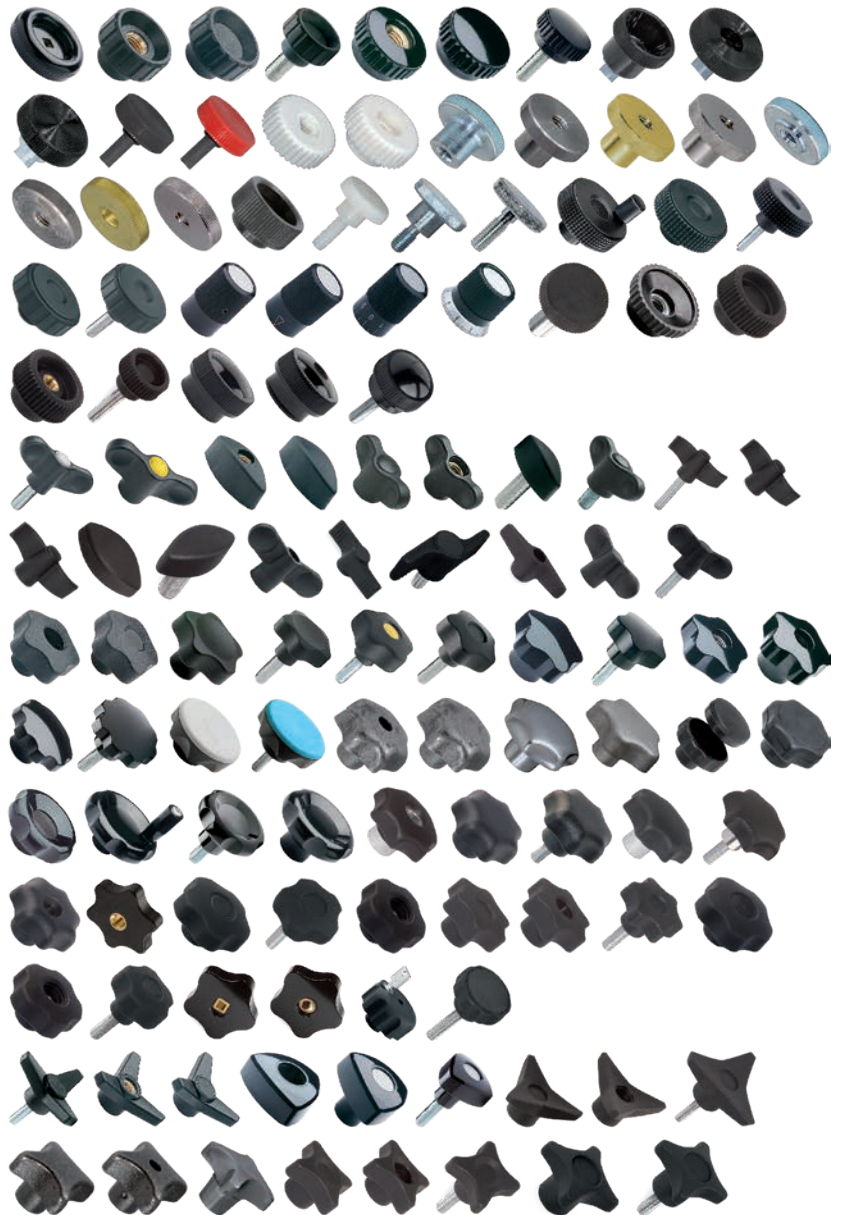


Access Solutions

Operating and control elements



Clamping handles



FUNCTIONAL ELEMENTS

Access Solutions

Operating and control elements



Handles



Access Solutions

Operating and control elements



Indexing elements



Levelling elements



Handwheels and crank handles



FUNCTIONAL ELEMENTS

Access Solutions

Operating and control elements



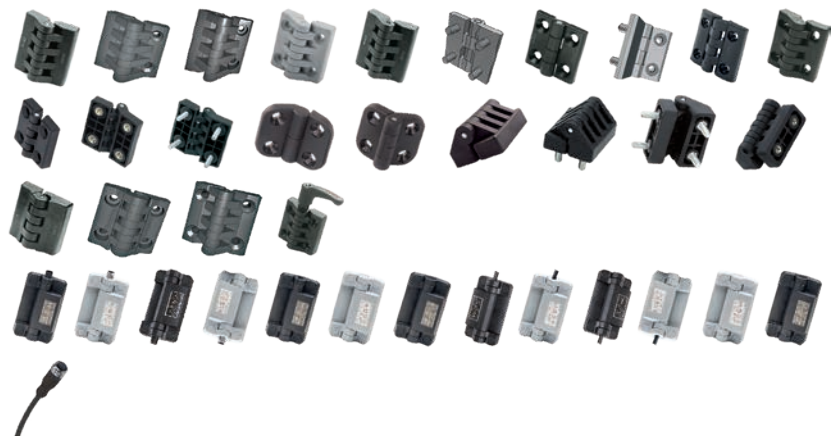
Clamping levers



Positioning elements



Hinges



Gas springs and accessories



Cam-Stay



Adjusting rings / Clamping rings



Tolerance compensating elements



FUNCTIONAL ELEMENTS

Access Solutions

Latching



Cam latches



Push to close latches



Quick access fasteners



Swell action latches



Angle joints / Fork heads / Articulated joints



Fork heads



Rod Ends



Angle joints



Fluid Management

Hydraulic components



Tubes and fittings



FUNCTIONAL ELEMENTS

Sealing technology

Sealing plugs



Push version



Pull version



Flow control



Forward-Flow



Reverse-Flow



Tools and equipment for sealing technology



for sealing push version



for restrictor, forward-flow and reverse-flow



Hydropneumatic table press for sealing technology

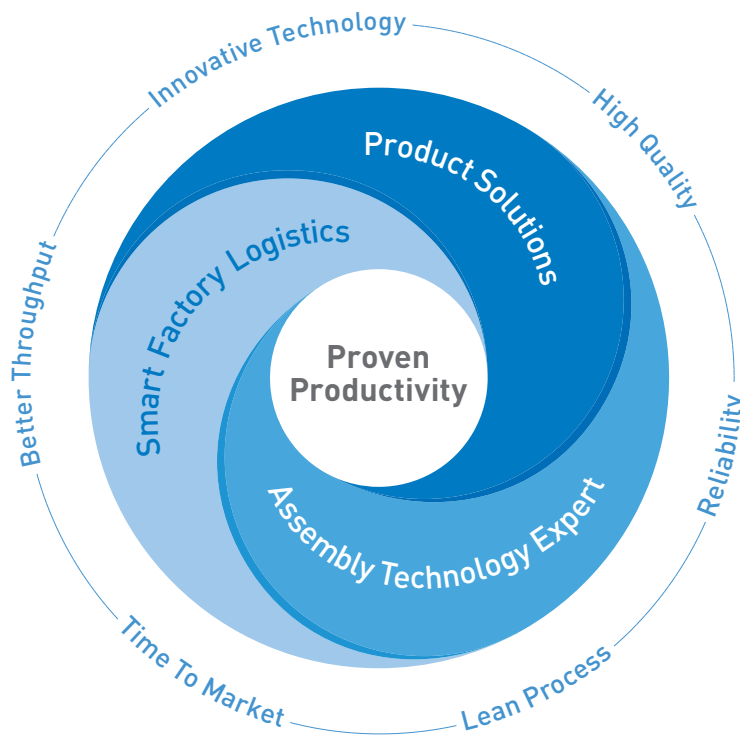


Pull version



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.

www.bossard.com