



Product Solutions

Range overview

Summary

Fastening Technology



Standard Fastening Elements



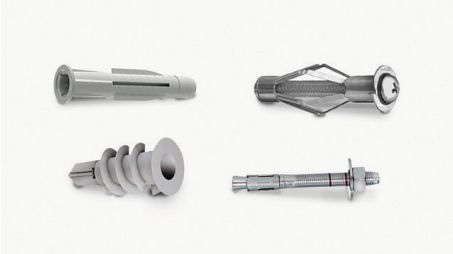
Direct Assembly Screws



Securing and Anti-Loosening Elements



Clamping and Positioning Elements



Anchorage Systems

Specific Fastening Technologies



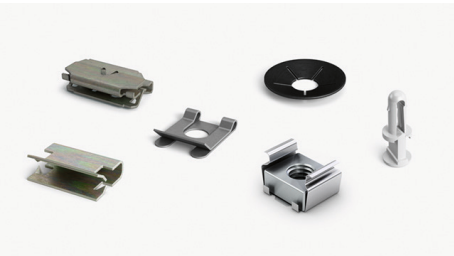
Clinching Technology



Rivet Technology



Threaded Inserts



Clip Fasteners



Welding Technology



Embedding and Surface Bonding Fasteners

Summary

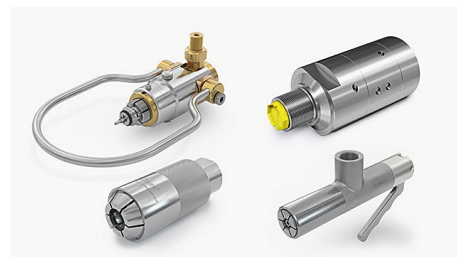
Functional Elements



Electrical Products



Access Solutions



Fluid Management



Sealing Technology

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Hexagon Socket



1

Link to level 1 in e-Shop

2

Link to level 2 in e-Shop

3

Link to level 4 in e-Shop

4

Link to product in e-shop

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Standard Fastening Elements

Screws

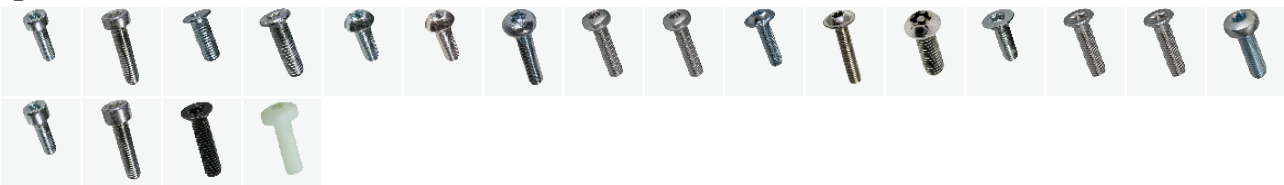


Screws and Bolts with Internal Drive

Hexagon Socket



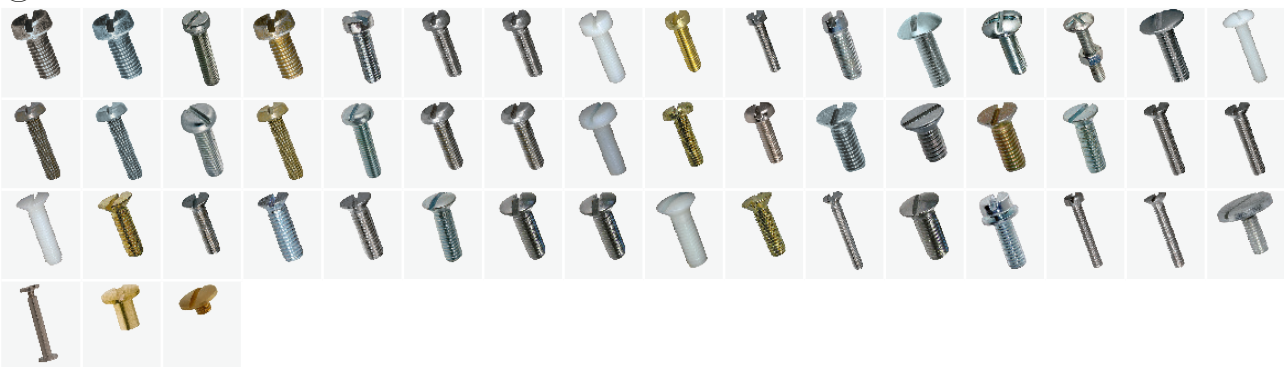
Hexalobular Socket



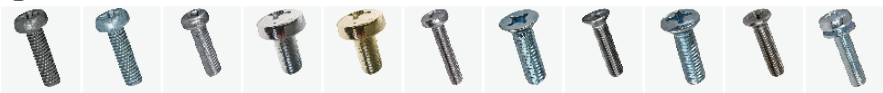
Hexalobular with Slot



Slot



Cross Recess H (Phillips)



Standard Fastening Elements

Screws



Screws and Bolts with Internal Drive

⊗ Cross Recess Z (Pozidriv)



Freedriv Phillips



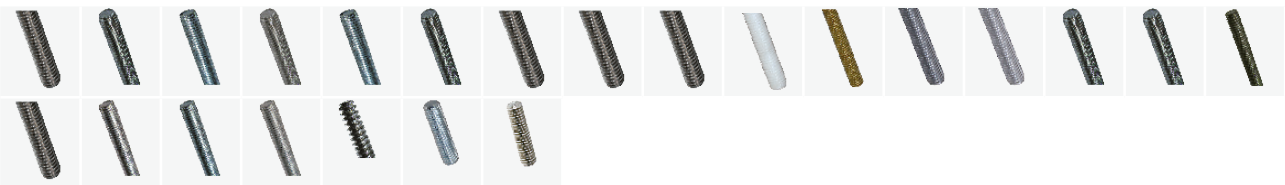
Freedriv Pozidriv



Screws and Bolts with External Drive

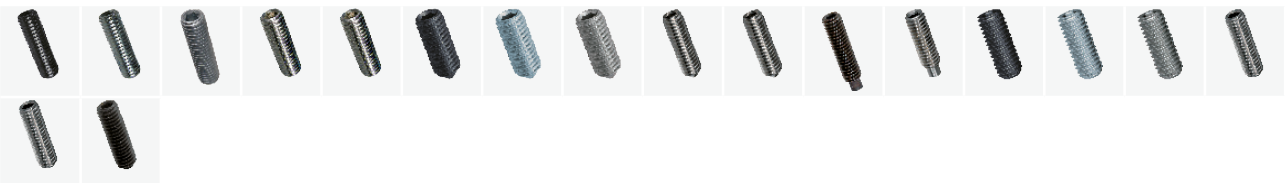


Threaded Rods and Threaded Studs



Set Screws

⊕ Hexagon socket



Standard Fastening Elements

Screws



Set Screws

⊕ Hexalobular socket



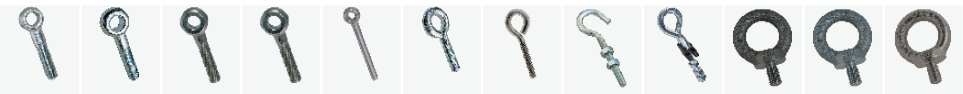
⊖ Slot



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



Standard Fastening Elements

Nuts



Slotted Flat Countersunk Nuts / Slotted Round Nuts



Lifting Eye Nuts



Suspension Lug Nuts



Spring Nuts



Turnbuckles



Washers



Washers Flat, without Chamfer



Standard Fastening Elements

Washers



Washers Flat, with Chamfer



Square Washers



Connecting and Sealing Washers



Finishing Washers



Washers for HV Bolts



Pins



Spiral / Spring Pins



Dowel Pins



Grooved Pins



Standard Fastening Elements

Pins



Taper Pins



Keys



Split Pins



Tools and Equipment for Standard Fasteners Elements



Tools and Equipment for Standard Fasteners Elements



Accessories and Protection Elements for Standard Fasteners Elements

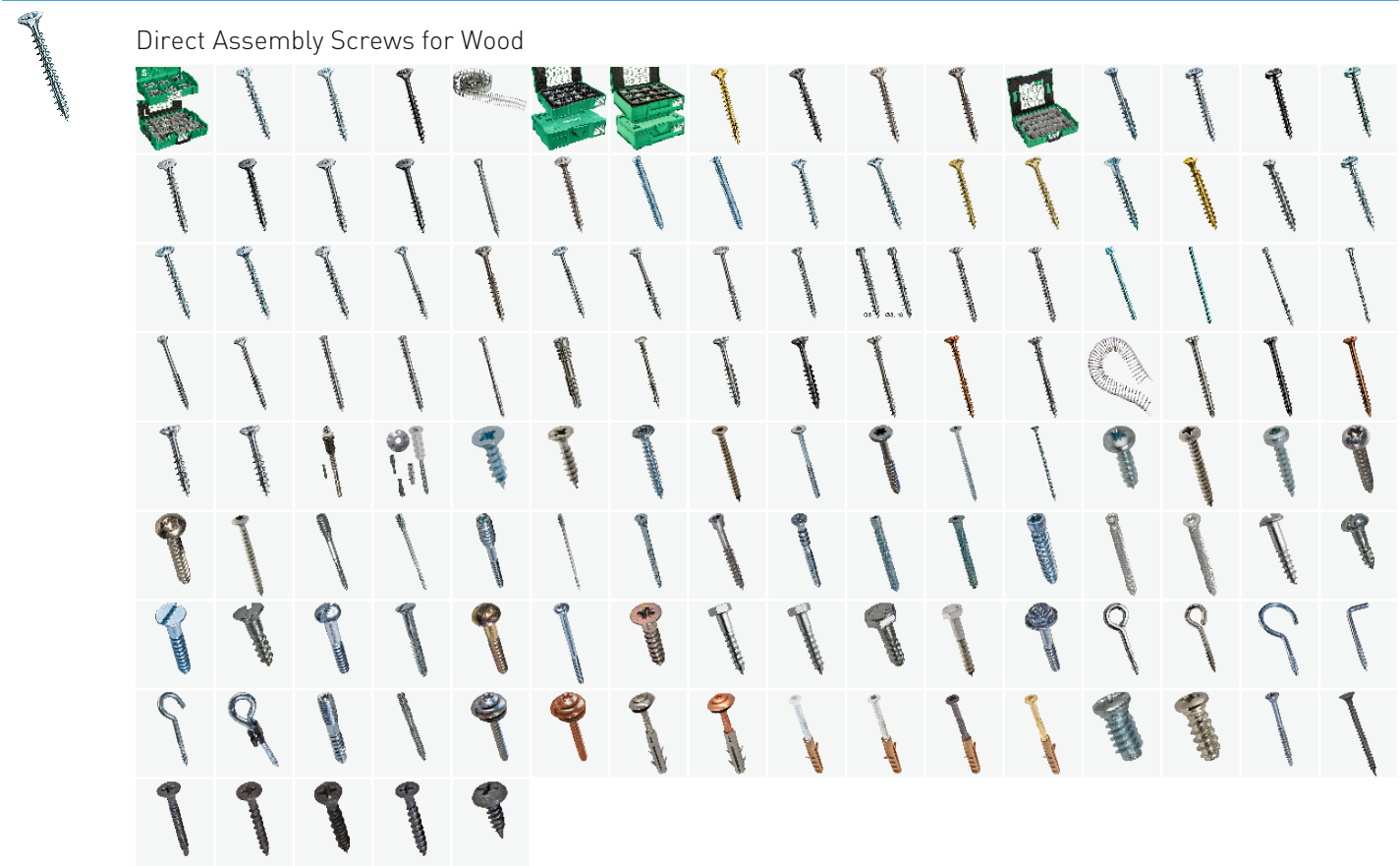


Accessories and Protection Elements for Standard Fasteners Elements

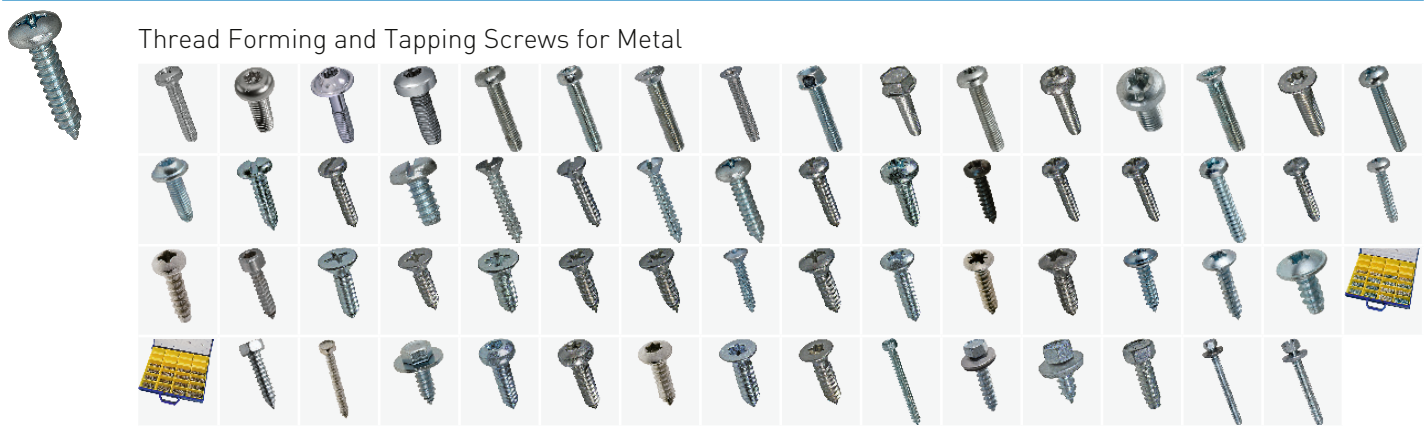


Direct Assembly Screws

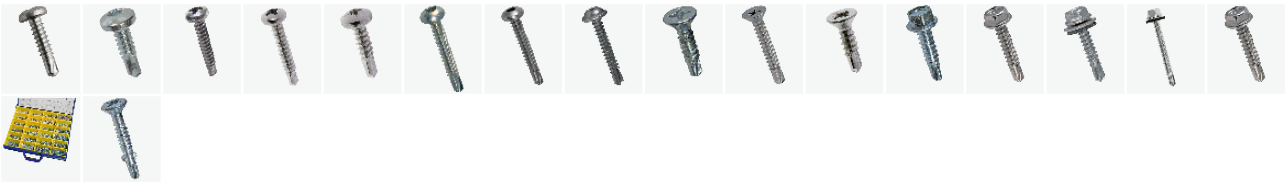
Direct Assembly Screws for Wood



Direct Assembly Screws for Metal

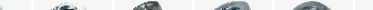


Self-Drilling Screws for Metal





A 3x16 grid of 48 images showing various types of nuts and bolts. The first two rows contain 16 images each, and the third row contains 6 images followed by 10 empty cells. The images show a variety of nut types, including hexagonal, square, and flange nuts, in different materials and finishes.



Securing and Anti-Loosening Elements

Securing and Anti-Loosening Washers



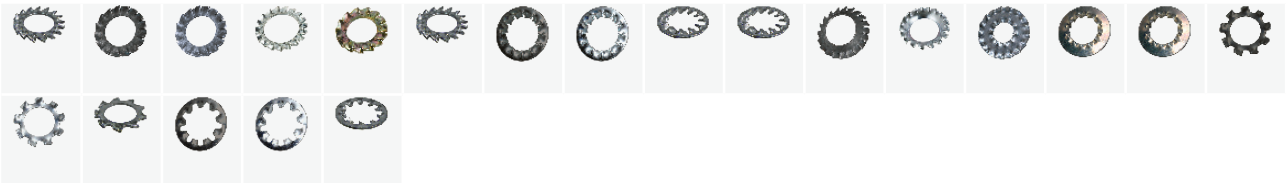
Spring Washers



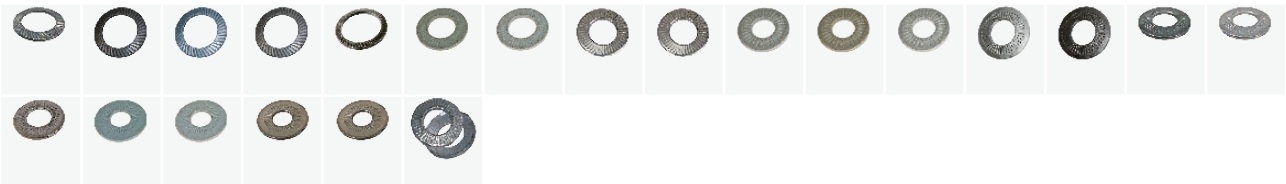
Split Spring Lock Washers



Serrated Lock Washers / Toothed Lock Washers



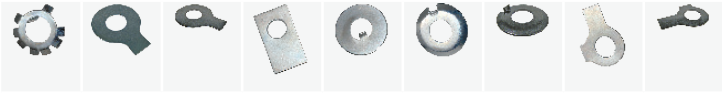
Ribbed Lock Washers / Contact Washers



Wedge Lock Washers



Tab Washers



Locking and Sealing Rings



Securing and Anti-Loosening Elements

Retaining Rings for Shafts and Bores



Securing Elements for Bores



Securing Elements for Shafts



Tools for Securing and Anti-Loosening Elements

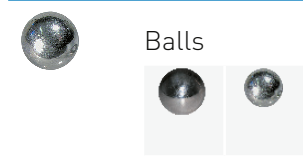


Tools for Securing and Anti-Loosening Elements



Clamping and Positioning Elements

Balls



Hose Clamps



Wire Rope Shackles / Wire Rope Clips / Wire Rope Thimbles

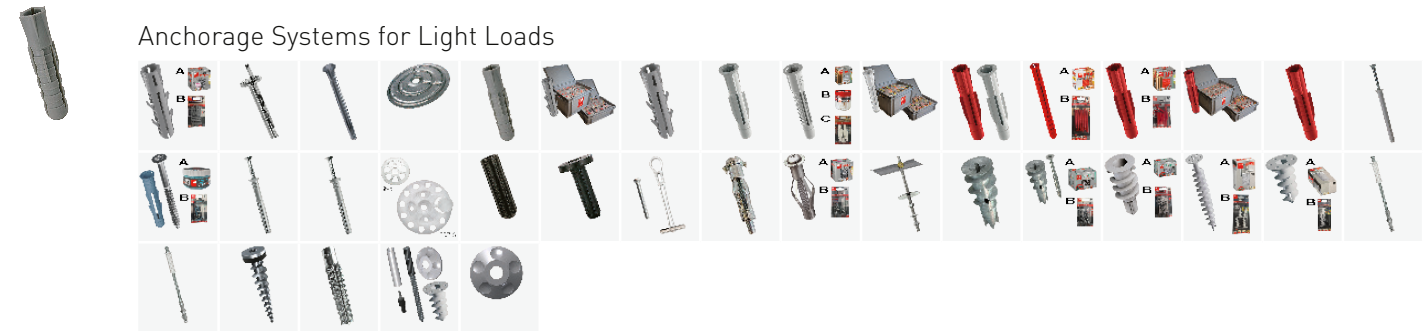


Spherical Washers and Conical Seats



Anchorage Systems

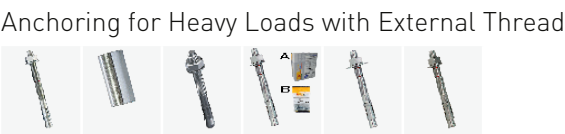
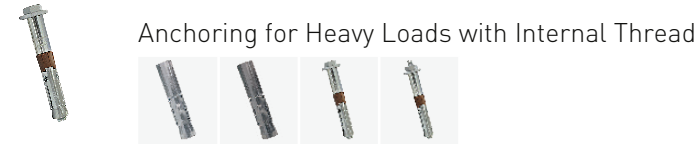
Anchorage Systems for Light Loads



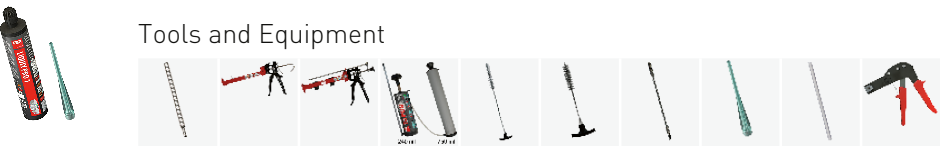
Anchorage Systems for Medium Loads



Anchorage Systems for Heavy Loads



Tools and Equipment



Clinching Technology

Clinching Clinch for Metallic Materials



Self-Clinching Nuts



Self-Clinching Locking Nuts



Revolving Rivet Nuts



Self-Clinching Threaded Standoffs



Broaching Standoffs



Clinching Technology

Clinching Clinch for Metallic Materials



Self-Clinching Threaded Studs



Self-Clinching Pins



Self-Clinching Grounding Pins



Self-Clinching Fasteners with Concealed Head



Panel Fasteners



Spotfast Fasteners



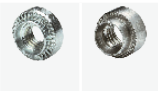
SPECIFIC FASTENING TECHNOLOGIES

Clinching Technology

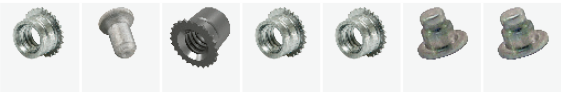
Clinching Clinch for Metallic Materials



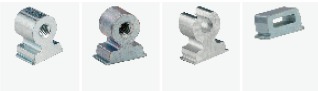
Riveting Nuts



Self-Clinching Micro Fasteners



Self-Clinching Right Angle Fasteners



Self-Chlinching Standoffs



Clinching Broach for PC Boards and other Plastics



Broaching Nuts



Broaching Threaded Standoffs



Broaching Standoffs



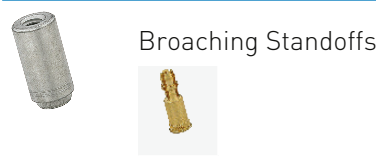
Broaching Studs



SPECIFIC FASTENING TECHNOLOGIES

Clinching Technology

Clinching Broach for PC Boards and other Plastics



Solder Fasteners SMT



Tools and Equipment for Clinching Technology



Rivet Technology

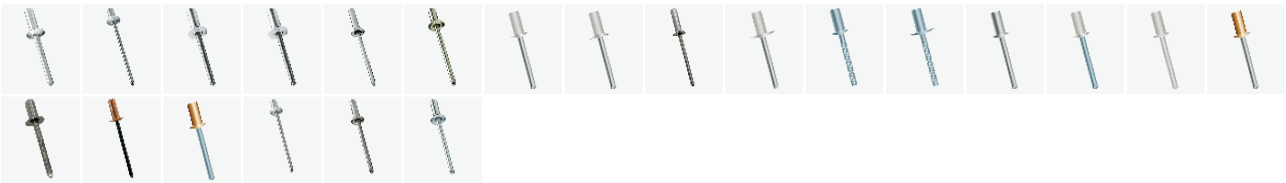
Blind Rivets



Open End Blind Rivets



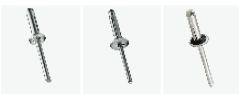
Closed End Blind Rivets



Multigrip Blind Rivets



Load-Spreading Blind Rivets



Peel Blind Rivets



Plastic Blind Rivets



Speed Rivets



Rivet Technology

Blind Rivets



Pull-Thru Blind Rivets



Grounding Blind Rivets



Structural Blind Rivets



High-Strength Structural Blind Rivets



Structural Blind Rivets Multigrip



Blind Rivet Nuts



Open End Blind Rivet Nuts



Rivet Technology

Blind Rivet Nuts



Controlled Deformation Blind Rivet Nuts



Multigrip Blind Rivet Nuts



High-Strength Blind Rivet Nuts



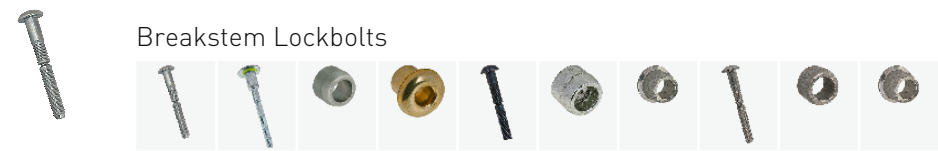
Micro Blind Rivet Nuts



Blind Rivet Studs



Lockbolts



Rivet Technology

Lockbolts



Multigrip Lockbolts



Non-Breakstem Lockbolts



Tubular Rivets



Tubular Rivets



Self-Piercing Rivets



Self-Piercing Rivets



Solid Rivets



Solid Rivets



Tools and Equipment for Rivet Technology



Tools for Speed Rivets

Hydropneumatic Tools for Speed Rivets



Battery Powered Tools for Speed Rivets



Rivet Technology

Tools and Equipment for Rivet Technology



Tools for Speed Rivets

Equipment for Speed Rivets



Tools for Blind Rivets

Hand tools for Blind Rivets



Hydropneumatic Tools for Blind Rivets



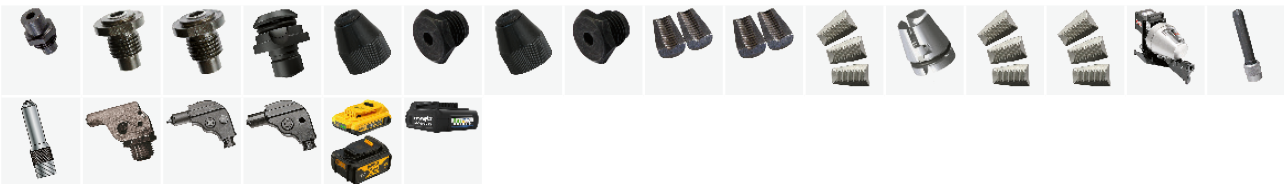
Battery Powered Tools for Blind Rivets



SmartTools for Blind Rivets



Equipment for Blind Rivets



Tools for Blind Rivet Nuts and Blind Rivet Studs

Hand Tools for Blind Rivet Nuts and Blind Rivet Studs



Hydropneumatic Tools for Blind Rivet Nuts and Blind Rivet Studs



Rivet Technology

Tools and Equipment for Rivet Technology



Tools for Blind Rivet Nuts and Blind Rivet Studs
Battery Powered Tools for Blind Rivet Nuts and Blind Rivet Studs



SmartTools for Blind Rivet Nuts and Blind Rivet Studs



Equipment for Blind Rivet Nuts and Blind Rivet Studs



Tools for Lockbolts

Hydraulic Tools for Lockbolts



Hydropneumatic Tools for Lockbolts



Battery Powered Tools for Lockbolts



Equipment for Lockbolts



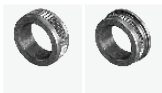
Threaded Inserts

Compression Limiters



Compression Limiters for Press-In and Mould-In

Compression Limiters Round



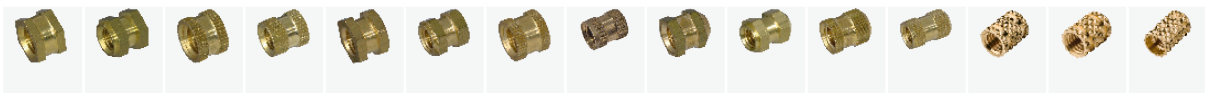
Compression Limiters Oval



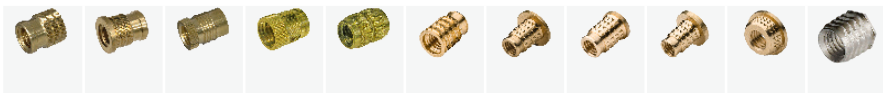
Threaded Inserts for Plastic Materials



Threaded Inserts for Mould-In for Plastic Materials



Threaded Inserts for Press-In for Plastic Materials



Threaded Inserts Self-Cutting for Plastic Materials



Threaded Inserts for Press-In with Expansion Anchoring for Plastic Materials



Threaded Inserts for Light Metal and Plastic Materials



Threaded Inserts Self-Cutting for Light Metal and Plastic Materials



Threaded Inserts

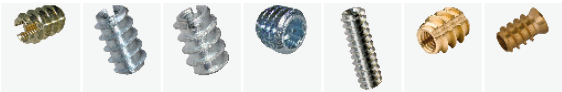
Threaded Inserts for Wooden and Soft Plastic Materials



Threaded Inserts for Press-In for Wooden and Soft Plastic Materials



Threaded Inserts Self-Cutting for Wooden and Soft Plastic Materials



Threaded Inserts for Press-In with Expansion Anchoring for Wooden and Soft Plastic Materials



Threaded Inserts for Light Metal Materials



Wire Thread Inserts



Threaded Inserts with Kee-Locking



Press-In Threaded Inserts for Light Metal Materials



Tools and Equipment for Threaded Inserts



Tools and Equipment for Self-Cutting Threaded Inserts

Machine Tools for Self-Tapping Threaded Inserts



Assembly Tools for Self-Tapping Threaded Inserts



Threaded Inserts

Tools and Equipment for Threaded Inserts



Tools and Equipment for Self-Cutting Threaded Inserts

Equipment for Tools for Self-Cutting Threaded Inserts



Tools and Equipment for Press-In Threaded Inserts

Machine Tools for Press-In Threaded Inserts



Equipment for Tools for Press-In Threaded Inserts



Tools and Equipment for Threaded Inserts with Kee-Locking

Machine Tools for Threaded Inserts with Kee-Locking



Assembly Tools for Threaded Inserts with Kee-Locking

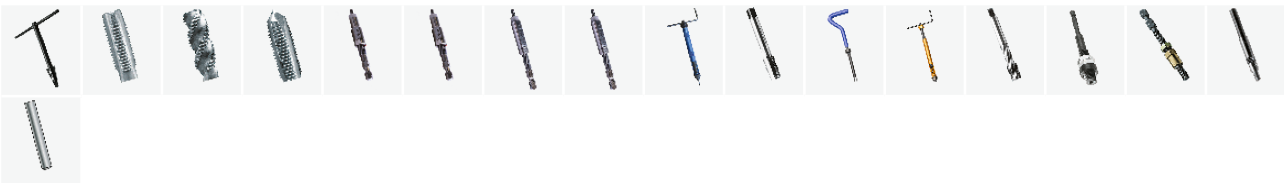


Equipment for Tools for Threaded Inserts with Kee-Locking

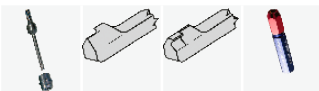


Tools and Equipment for Wire Threaded Inserts

Assembly Tools for Wire Threaded Inserts



Equipment for Tools for Wire Threaded Inserts



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

Handtools



Welding Technology

Welding Nuts



Weld Nuts



Spot Weld Nuts



Welding CD-Tip Ignition



Threaded Studs for CD-Tip Ignition



Welding CD-Tip Ignition Pins



Threaded Bushes for CD-Tip Ignition



Flat Plugs for CD-Tip Ignition



Nails for CD-Tip Ignition



Insulation Clips for CD-Tip Ignition



Welding Technology

Welding GLV-Drawn Arc



Threaded Studs for GLV-Drawn Arc



Ceramic Rings



MultiMaterial-Welding®



MultiMaterial-Welding®



Embedding and Surface Bonding Fasteners

bigHead® with Threaded Stud



bigHead® with Threaded Stud

round head



square head



rectangular head



bigHead® with Threaded Collar



bigHead® with Threaded Collar

round head



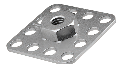
square head



rectangular head



bigHead® with Nut



bigHead® with Nut

round head



square head



Embedding and Surface Bonding Fasteners

bigHead® with Nut



bigHead® with Nut
rectangular head



bigHead® with Pin



bigHead® with Pin
round head



rectangular head



bigHead® with Nail



bigHead® with Nail
round head



square head



bigHead® with Cable Tyrap



bigHead® with Cable Tyrap
round head



square head



Embedding and Surface Bonding Fasteners

bigHead® with Loop



bigHead® with Loop

round head



square head



Accessories for Embedding and Surface Bonding Fasteners



Cover Caps



Spring Clips



Electrical Products

Cable Glands



Cable Glands without Thread



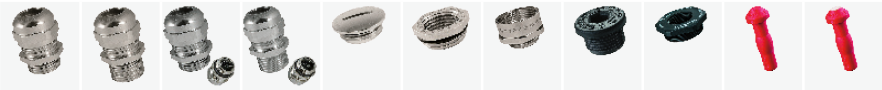
Cable Glands with Metric Thread



Cable Glands with Pg-, NPT- and Pipe Thread



Cable Glands for Hazardous Areas



Sealing Grommets



Electrical Products

Cable Glands



Pressure Balance Elements



Accessories and Single Parts for Cable Glands



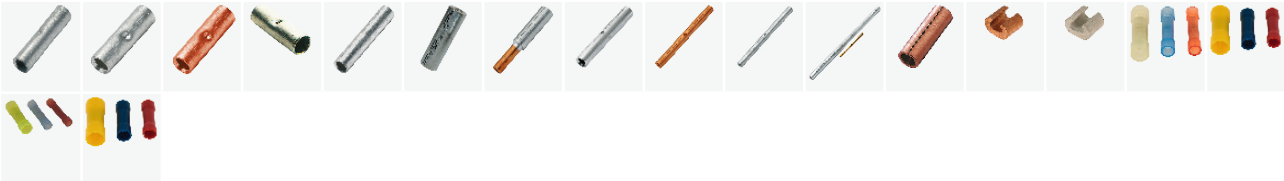
Contact Parts



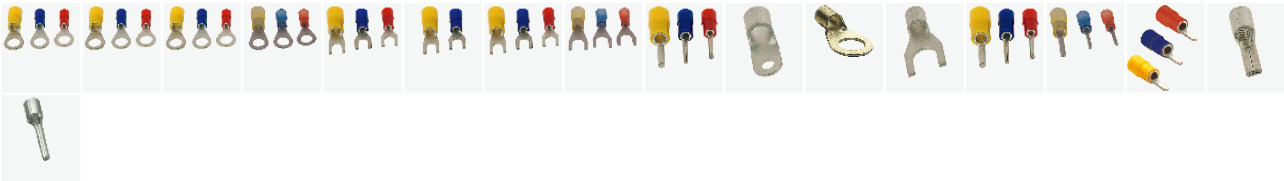
Compression Cable Lugs



Compression Joints



Solderless Terminals



Female Receptacles and Male Tabs



FUNCTIONAL ELEMENTS

Electrical Products

Contact Parts



Pin Connectors and Pin Receptacles



Connectors



End Sleeves



Assortments



Terminal Blocks



Cable Ties



Standard Cable Ties



Cable Ties with Tongue



Cable Ties Adjustable

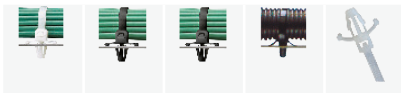


Electrical Products

Cable Ties



Cable Ties Wing Push Mount



Cable Ties with Integrated Mounting Hole



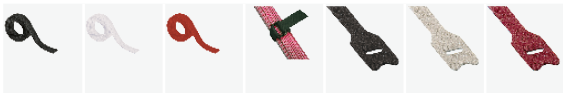
Cable Ties Double Loop



Cable Ties Releasable



Cable Ties Strip Hook and Loop



Cable Ties Detectable



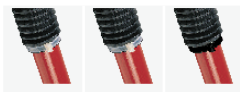
Cable Ties Ball-Locking



Cable Ties Ladder Type



High-Strength Cable Ties



Electrical Products

Cable Ties



Various Cable Ties



Mountings for Cables and Pipes



Cable Tie Mounts



Adhesive Backed Mounts



Fixed Cable Clamp



Hook and Loop Cable Tie Mounts



Flat Cable Mounts



Edge Fixing



Electrical Products

Industrial Enclosures



Enclosures



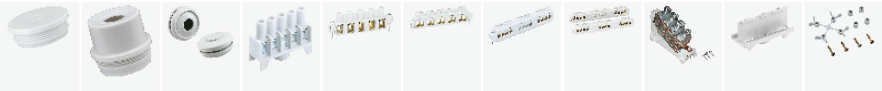
Junction Boxes



Mounting Plates for Enclosures and Junction Boxes



Accessories and single parts for enclosures and junction boxes



Mounting Rails for Enclosures and Junction Boxes



Accessories and Single Parts for Control Cabinet



Cable Protection



Tubings



Electrical Products

Cable Protection



Tupe Connectors



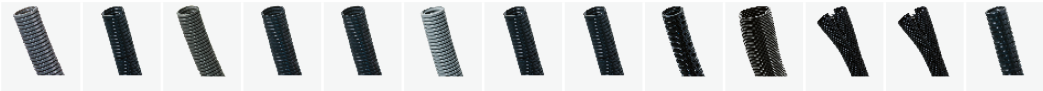
Spiral Wraps



Grommets



Tubings for Cable Protection



System Support



Arched Elbows



Straight Connectors



FUNCTIONAL ELEMENTS

Electrical Products

Cable Protection



Push-In Tube Connectors



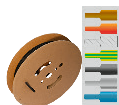
Buckling Resistant / Seals



Wiring Ducts



Shrinking Technology



Heat Shrink Tubing



Power Elements



Power Elements



Tools and Accessoires for Electrical Products



Handtools for Cable Glands



Handtools for Cable Protection



Handtools for Cable Ties



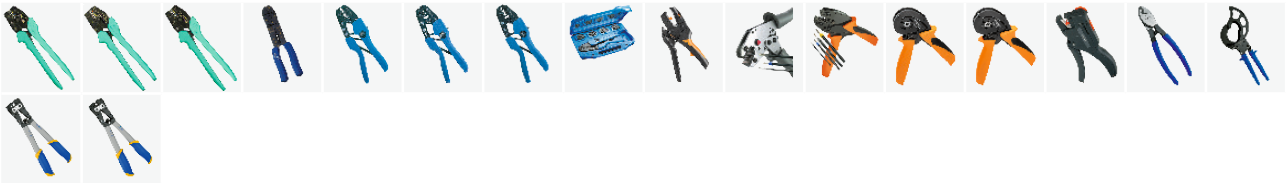
FUNCTIONAL ELEMENTS

Electrical Products

Tools and Accessoires for Electrical Products



Handtools for Contact Parts



Battery Powered Hydraulic Tool and Accessories for Contact Parts



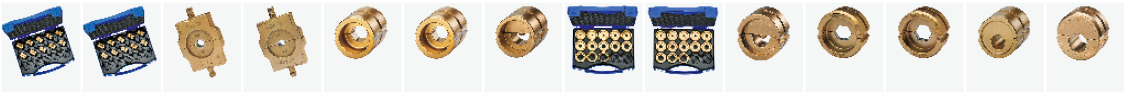
Electromechanical Tools for Contact Parts



Spare Parts for Electrical Product Tools



Spare Parts for Electrical Product Tools



Access Solutions

Operating and Control Elements



Clamping Handles

Knurled Grip



Wing Knobs



Star Knobs



Three-Star Knobs



Cross Knobs



Access Solutions

Operating and Control Elements



Handles

Bridge handles



Mushroom knobs



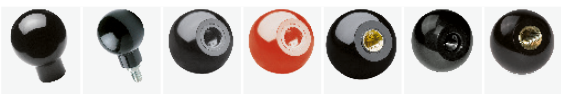
T-Handles



Cylindrical handles



Ball knobs



Knurled head



Revolving handles



Flush pulls



Access Solutions

Operating and Control Elements



Indexing Elements

Ball lock pins



Lifting pins



Spring plungers



Ball-ended thrust screws



Retaining cables



Access Solutions

Operating and Control Elements



Indexing Elements

Index plungers



Tools and accessoires for indexing elements



Accessories



Levelling Elements

Levelling feet



Wheels and Castors



Handwheels and Crank Handles



Access Solutions

Operating and Control Elements



Clamping Levers

Lever handles with internal thread



Lever handles with internal thread, adjustable



Lever handles with threaded stud



Lever handles with threaded stud, adjustable



Positioning Elements



Hinges

Free Swinging Hinges



Hinges with Friction



Hinges with Built-In Safety Switch



Access Solutions

Positioning Elements



Hinges
Hinges Detachable



Gas Springs and Accessories

Gas springs



Cam-Stay



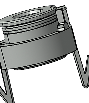
Adjusting Rings / Clamping Rings



Quick Access Fasteners



Tolerance Compensating Elements



Tolerance Compensating Elements



Latching



Cam Latches



Access Solutions

Latching



Compression Latches



Draw Latches



Push to Close Latches



Lever Latches



Access Solutions

Latching



Over-Center Lever Latches



Quick Access Fasteners



Quarter-Turn Latches



Hooks



Angle Joints / Fork Heads / Articulated Joints



Fork Heads



Rod Ends



Access Solutions

Angle Joints / Fork Heads / Articulated Joints



Angle Joints



Tools and Accessoires for Quick Access Fasteners



Tools and Accessoires for Quick Access Fasteners



Fluid Management

Hydraulic Components



Tubes and Fittings

Banjo Fittings and Metric Banjo Fittings

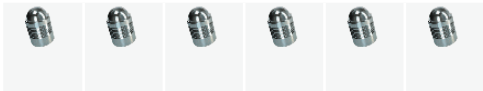


Sealing Technology

Sealing Plugs



Push Version



Pull Version



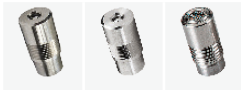
Flow Control



Flow in Installation Direction (Forward)



Flow against Installation Direction (Reverse)



Tools and Equipment for Sealing Technology



For Sealing Push Version



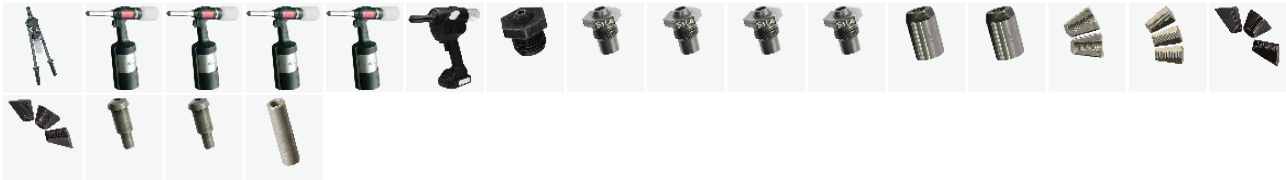
For Restrictor, Forward-Flow and Reverse-Flow



Hydropneumatic Table Press for Sealing Technology

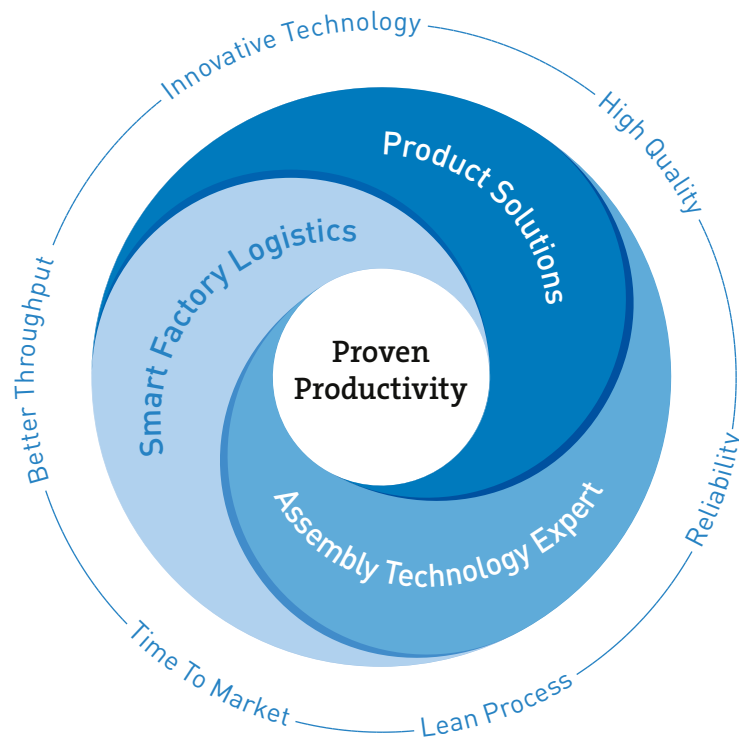


Pull Version



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**, 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.

