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## Product Solutions

Range overview

# Summary

## Fastening Technology



Standard Fastening Elements



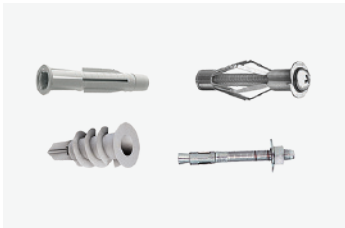
Direct Assembly Screws



Securing and Anti-Loosening Elements



Clamping and Positioning Elements



Anchorage Systems

## Specific Fastening Technologies



Clinching Technology



Rivet Technology



Threaded Inserts



Clip Fasteners



Welding Technology



Ultrasonic Welding



Embedding and Surface Bonding Fasteners

## PRODUCT SOLUTIONS

# Summary

## Functional Elements



Electrical Products



Access Solutions



Fluid Management



Sealing Technology

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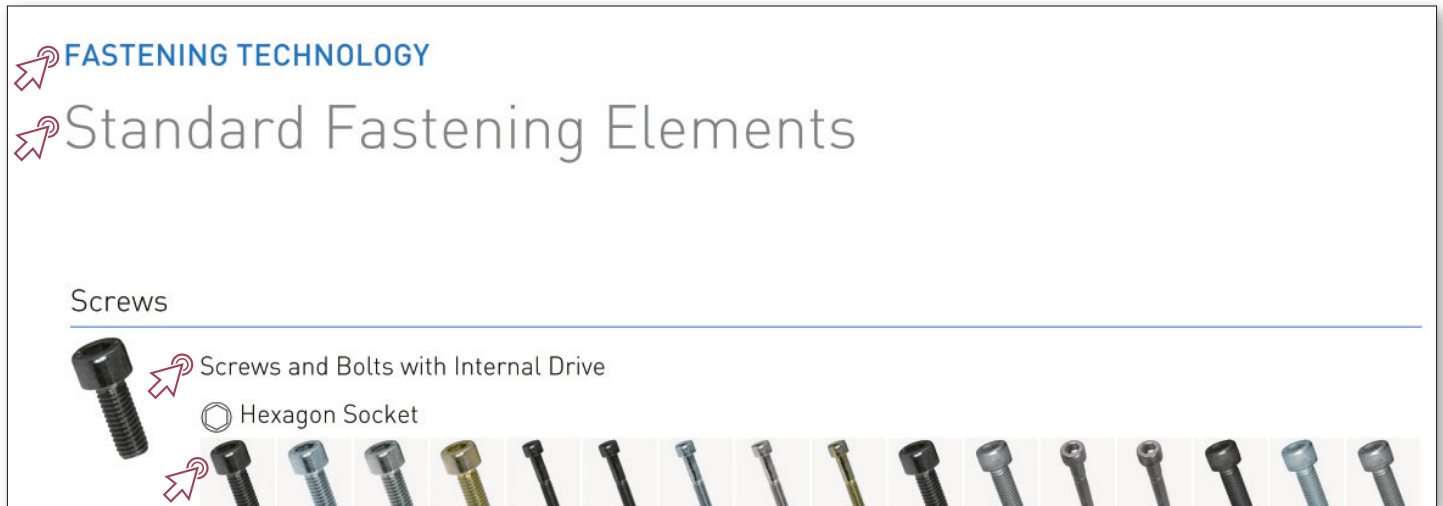
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05-2026

# Standard Fastening Elements

## Screws

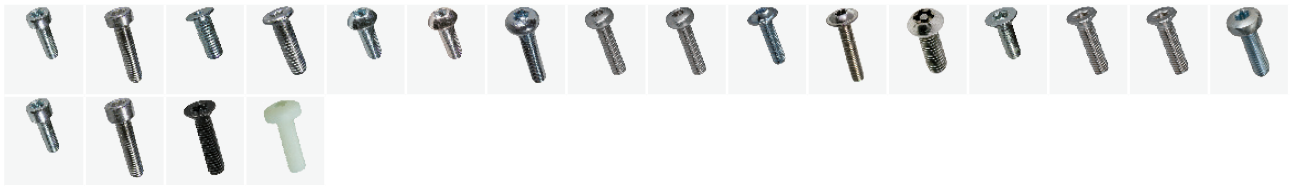


Screws and Bolts with Internal Drive

⊕ Hexagon Socket



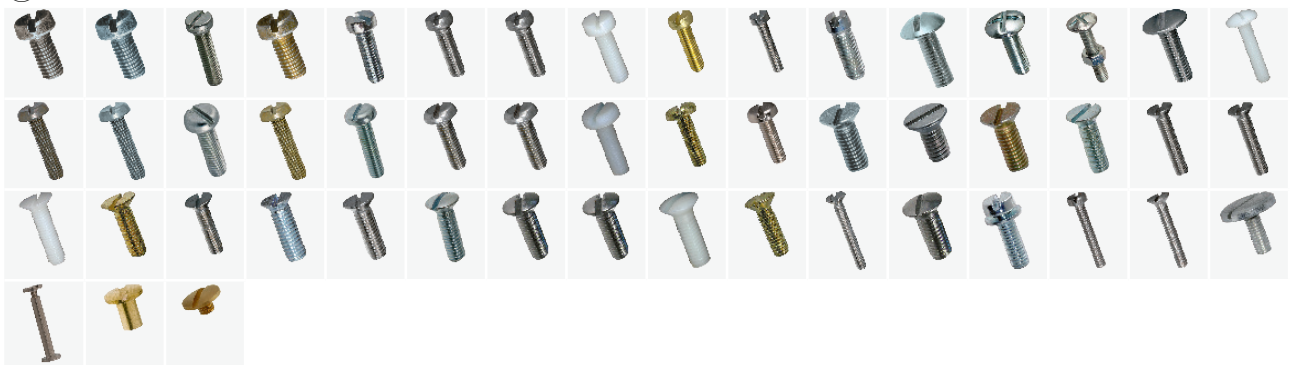
⊕ Hexalobular Socket



⊕ Hexalobular with Slot



⊖ Slot



⊕ Cross Recess H (Phillips)



# Standard Fastening Elements

## Screws



### Screws and Bolts with Internal Drive

⊗ Cross Recess Z (Pozidriv)



### Freedriv Phillips



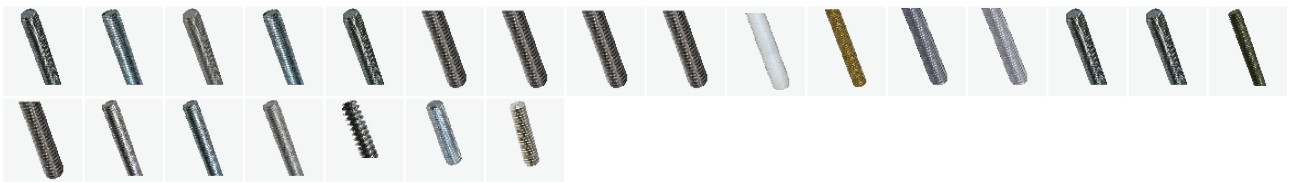
### Freedriv Pozidriv



### Screws and Bolts with External Drive



### Threaded Rods and Threaded Studs



### Set Screws

⊙ Hexagon Socket



# Standard Fastening Elements

## Screws

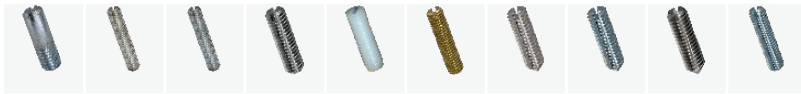


### Set Screws

#### Hexalobular Socket



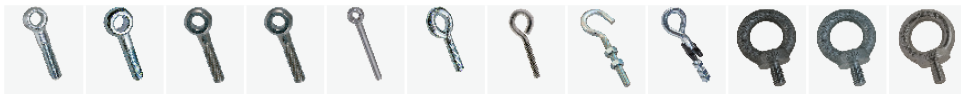
#### Slot



### 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

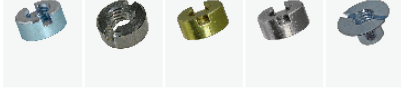


# Standard Fastening Elements

## 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 Wood



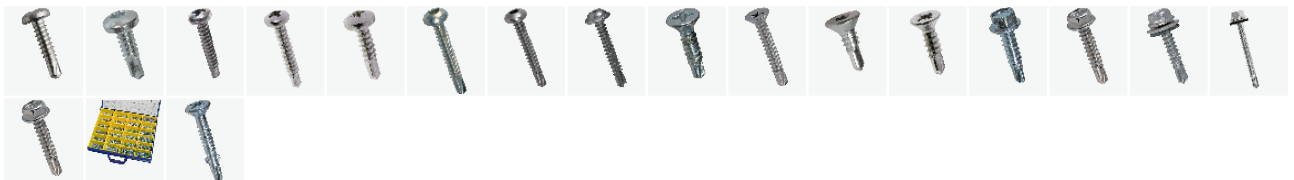
## Direct Assembly Screws for Metal



Thread Forming and Tapping Screws for Metal



Self-Drilling Screws for Metal



# Direct Assembly Screws

## Direct Assembly Screws for Metal



Self-Cutting Screws for Metal



## Direct Assembly Screws for Plastics



Direct Assembly Screws for Plastics



## Direct Assembly Screws for Masonry



Direct Assembly Screws for Masonry



## Tools and Equipment for Direct Assembly Screws



Tools and Equipment for Direct Assembly Screws



## Accessories 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



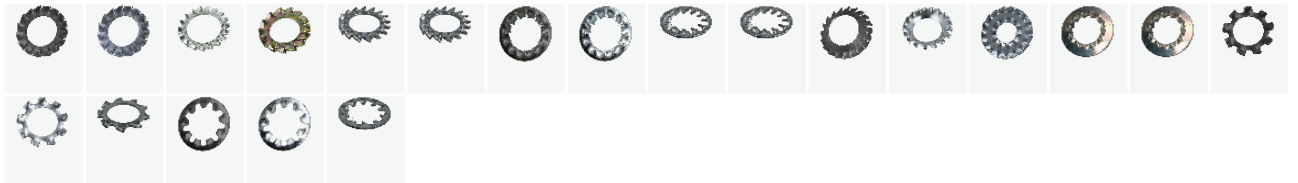
Spring Washers



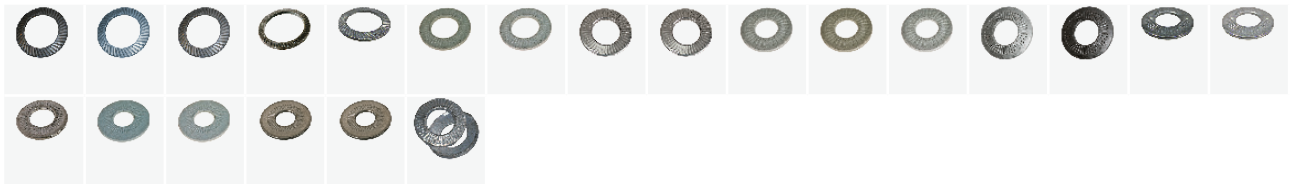
Split Spring Lock Washers



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

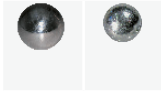


# Clamping and Positioning Elements

## Balls



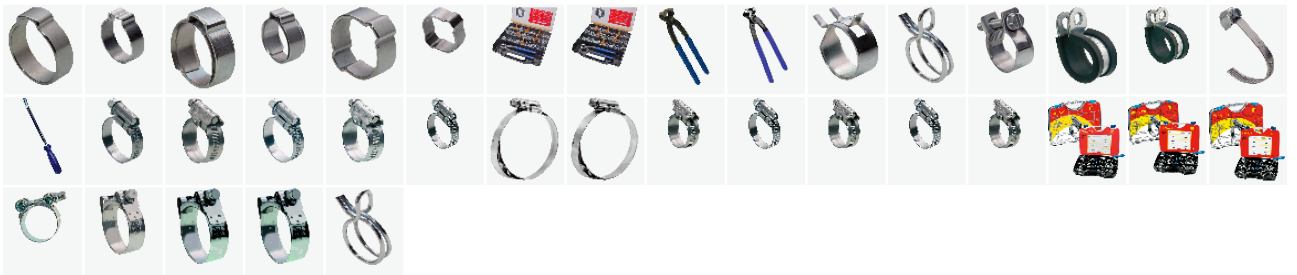
Balls



## Hose Clamps



Hose Clamps



## Wire Rope Shackles / Wire Rope Clips / Wire Rope Thimbles



Wire Rope Shackles / Wire Rope Clips / Wire Rope Thimbles



## Spherical Washers and Conical Seats

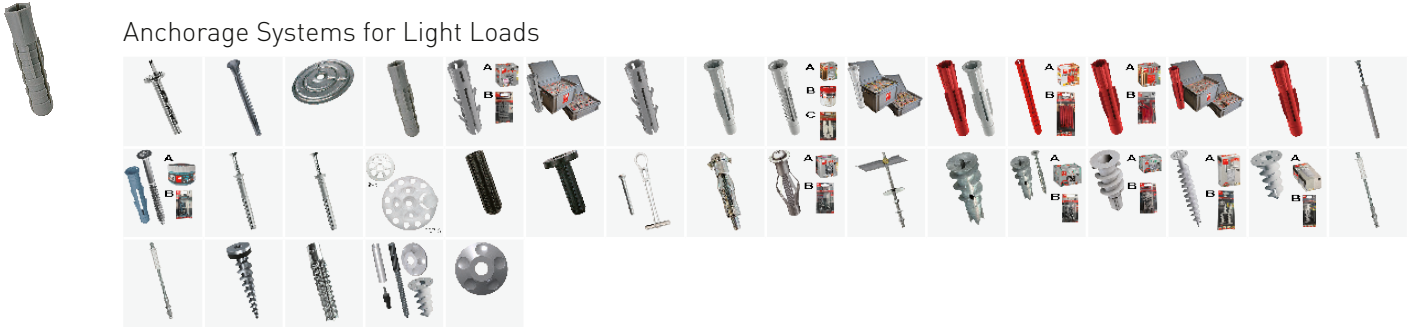


Spherical Washers and Conical Seats



# Anchorage Systems

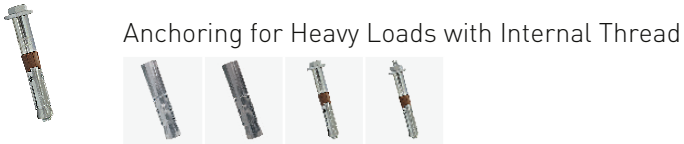
## Anchorage Systems for Light Loads



## Anchorage Systems for Medium Loads



## Anchorage Systems for Heavy Loads



### Anchoring for Heavy Loads with External Thread



### Chemical Fixings



## Tools and Equipment



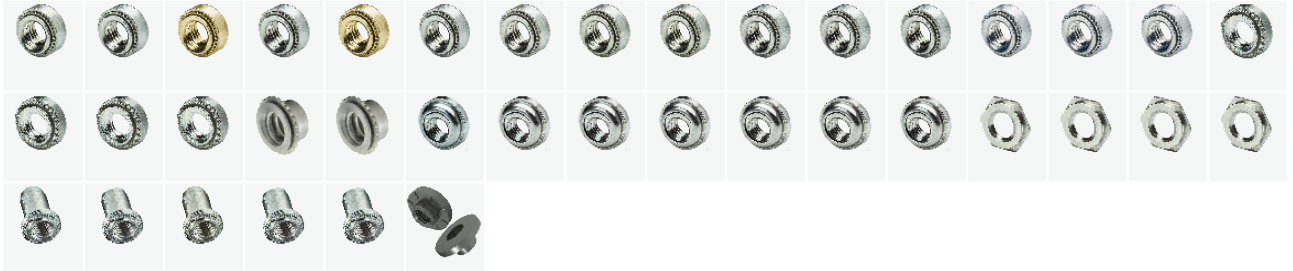
# Clinching Technology

## Clinching Clinch for Metallic Materials

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Self-Clinching Nuts



Self Clinching Locking Nuts



Revolving Rivet Nuts



Self-Clinching Threaded Standoffs



Broaching Standoffs



## SPECIFIC FASTENING TECHNOLOGIES

# 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

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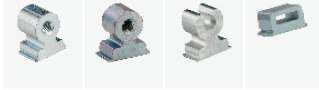
Riveting Nuts



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

---



Broaching Standoffs



Solder Fasteners SMT



### 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



## SPECIFIC FASTENING TECHNOLOGIES

# Rivet Technology

### Blind Rivets

---



Pull-Thru Blind Rivets



Grounding Blind Rivets



### Structural Blind Rivets

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High-Strength Structural Blind Rivets



Structural Blind Rivets Multigrip



### Blind Rivet Nuts

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Open End Blind Rivet Nuts

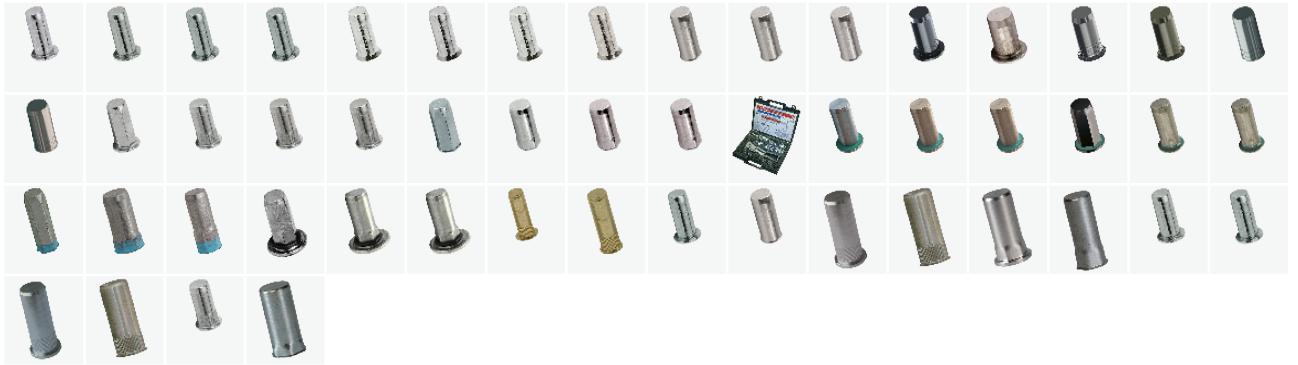


# Rivet Technology

## Blind Rivet Nuts



Closed End Blind Rivet Nuts



Controlled Deformation Blind Rivet Nuts



Multigrip Blind Rivet Nuts



High-Strength Blind Rivet Nuts



Micro Blind Rivet Nuts



## Blind Rivet Studs



Standard Blind Rivet Studs



## Lockbolts



Breakstem Lockbolts



## SPECIFIC FASTENING TECHNOLOGIES

# Rivet Technology

### Lockbolts

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Multigrip Lockbolts



Non-Breakstem Lockbolts



### Tubular Rivets

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Tubular Rivets



### Solid Rivets

---



Solid Rivets



### Tools and Equipment for Rivet Technology

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Tools for Speed Rivets

Hydropneumatic Tools for Speed Rivets



Battery Powered Tools for Speed Rivets



Equipment for Speed Rivets



## SPECIFIC FASTENING TECHNOLOGIES

# Rivet Technology

### Tools and Equipment for Rivet Technology

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#### Tools for Blind Rivets

##### Hand Tools for Blind Rivets



##### Hydropneumatic Tools for Blind Rivets



##### Battery Powered Tools for Blind Rivets



##### Smart Tools for Blind Rivets



##### Equipment for Blind Rivets



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#### 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



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



##### SmartTools for Blind Rivet Nuts and Blind Rivet Studs



## SPECIFIC FASTENING TECHNOLOGIES

# Rivet Technology

### Tools and Equipment for Rivet Technology



Tools 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



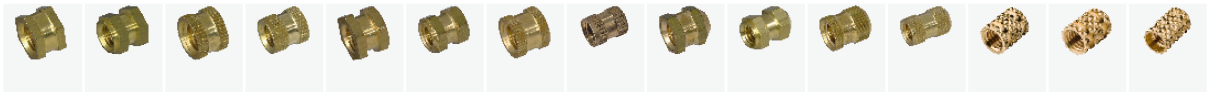
Compression Limiters Oval



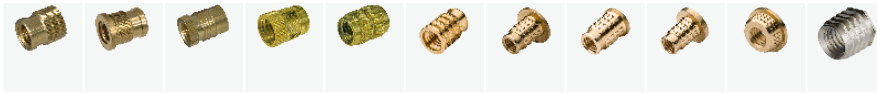
## Threaded Inserts for Plastic Materials



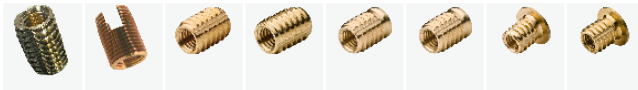
Threaded Inserts for Mould-In for Plastic Materials



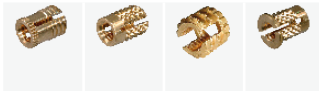
Threaded Inserts for Press-In for Plastic Materials



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



## SPECIFIC FASTENING TECHNOLOGIES

# Threaded Inserts

### Threaded Inserts for Wooden and Soft Plastic Materials

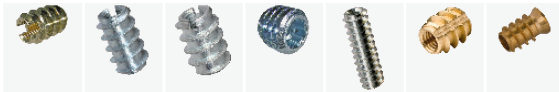
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Threaded Inserts for Press-In for Wooden and Soft Plastic Materials



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

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Wire Thread Inserts



Threaded Inserts with Kee-Locking



Press-In Threaded Inserts for Light Metal Materials



### Tools and Equipment for Threaded Inserts

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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

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Tools and Equipment for Self-Cutting Threaded Inserts

Equipment for Tools for Self-Cutting Threaded Inserts



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Tools and Equipment for Press-In Threaded Inserts

Machine Tools for Press-In Threaded Inserts



Equipment for Tools for Press-In Threaded Inserts



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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



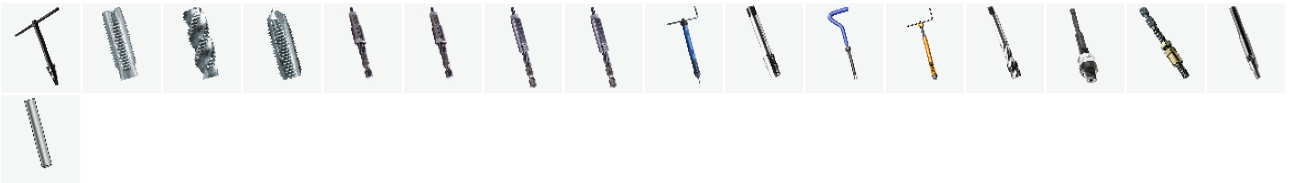
Equipment for Tools for Threaded Inserts with Kee-Locking



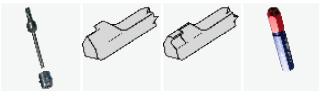
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Tools and Equipment for Wire Threaded Inserts

Assembly Tools for Wire Threaded Inserts



Equipment for Tools for Wire Threaded Inserts

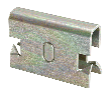


## SPECIFIC FASTENING TECHNOLOGIES

# Clip Fasteners

### Panel and Trim Fasteners

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Panel Clips



### Clip-Threaded Fasteners and Retainers

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Speed Clips Nuts



Cage Nuts



### Tools and Equipment for Clip-Fasteners

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for Threaded Fasteners and Retainers

Handtools



# Welding Technology

## Welding Nuts

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Weld Nuts



Spot Weld Nuts



## Welding CD-Tip Ignition

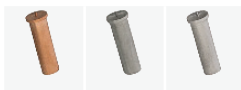
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Threaded Studs for CD-Tip Ignition



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



## SPECIFIC FASTENING TECHNOLOGIES

# Welding Technology

### Welding GLV-Drawn Arc

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Threaded Studs for GLV-Drawn Arc



Ceramic Rings



## SPECIFIC FASTENING TECHNOLOGIES

# Ultrasonic Welding

### LiteWWeight® Pin for Sandwich Structures

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LiteWWeight® Pin for Sandwich Structures



### LiteWWeight® Lotus for Fibrous Materials

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LiteWWeight® Lotus for Fibrous Materials



### LiteWWeight® zEPP for EPP Materials

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LiteWWeight® zEPP for EPP Materials



### LiteWWeight® Fastener for Thermoplastic Sheet Materials

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LiteWWeight® Fastener for Thermoplastic Sheet Materials



## SPECIFIC FASTENING TECHNOLOGIES

# Embedding and Surface Bonding Fasteners

### bigHead® with Threaded Stud

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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



## SPECIFIC FASTENING TECHNOLOGIES

# 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



## SPECIFIC FASTENING TECHNOLOGIES

# Embedding and Surface Bonding Fasteners

### bigHead® with Loop

---



bigHead® with Loop

round head



square head



### Accessories for embedding and surface bonding fasteners

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Cover Caps



Spring Clips



# Electrical Products

## Cable Glands



Cable Glands without Thread



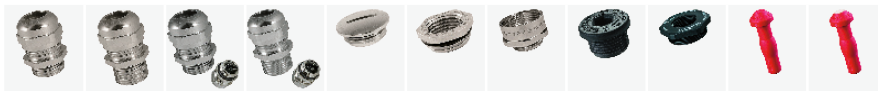
Cable Glands with Metric Thread



Cable Glands with Pg-, NPT- and Pipe Thread



Cable Glands for Hazardous Areas



Sealing Grommets



## FUNCTIONAL ELEMENTS

# Electrical Products

### Cable Glands



#### Pressure Balance Elements



#### Accessories and Single Parts for Cable Glands



### Contact Parts



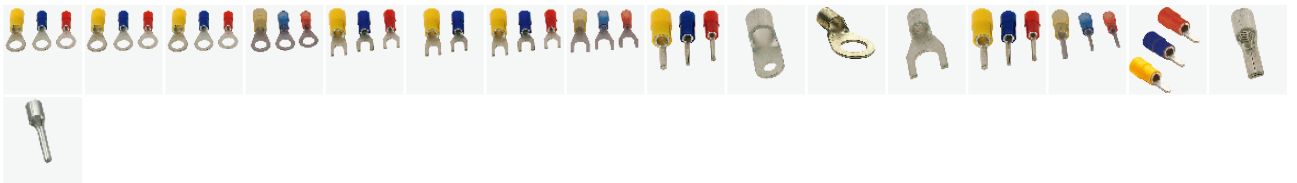
#### Compression Cable Lugs



#### Compression Joints



#### Solderless Terminals



#### Female Receptacles and Male Tabs



## FUNCTIONAL ELEMENTS

# Electrical Products

### Contact Parts

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#### Pin Connectors and Pin Receptacles



#### Connectors



#### End Sleeves



#### Assortments

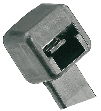


#### Terminal Blocks



### Cable Ties

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#### Standard Cable Ties



#### Cable Ties with Tongue



#### Cable Ties Adjustable



## FUNCTIONAL ELEMENTS

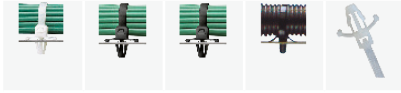
# Electrical Products

### Cable Ties

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Cable Ties Wing Push Mount



Cable Ties with Integrated Mounting Hole



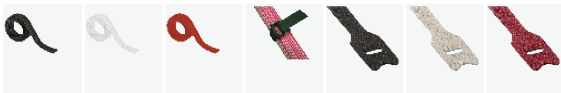
Cable Ties Double Loop



Cable Ties Releasable



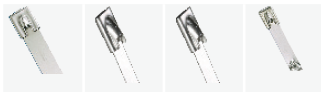
Cable Ties Strip Hook and Loop



Cable Ties Detectable



Cable Ties Ball-Locking



Cable Ties Ladder Type



High-Strength Cable Ties



## FUNCTIONAL ELEMENTS

# Electrical Products

### Cable Ties

---



Various Cable Ties



### Mountings for Cables and Pipes

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Cable Tie Mounts



Adhesive Backed Mounts



Fixed Cable Clamp



Hook and Loop Cable Tie Mounts



Flat Cable Mounts



Edge Fixing



## FUNCTIONAL ELEMENTS

# Electrical Products

### Industrial Enclosures

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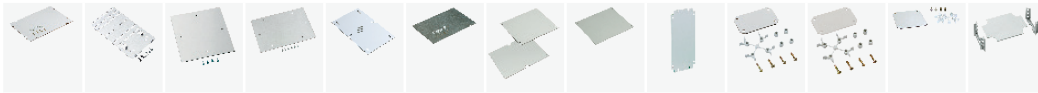
#### Enclosures



#### 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



# FUNCTIONAL ELEMENTS

## Electrical Products

### Cable Protection



Tube Connectors



Spiral Wraps



Grommets



Tubings for Cable Protection



System Support



Arched Elbows



Straight Connectors



## FUNCTIONAL ELEMENTS

# Electrical Products

### Cable Protection

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Push-In Tube Connectors



Buckling Resistant / Seals

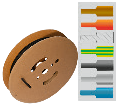


Wiring Ducts



### Shrinking Technology

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Heat Shrink Tubing



### Power Elements

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Power Elements



### Tools and Accessoires for Electrical Products

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Handtools for Cable Glands



Handtools for Cable Protection



Handtools for Cable Ties



## FUNCTIONAL ELEMENTS

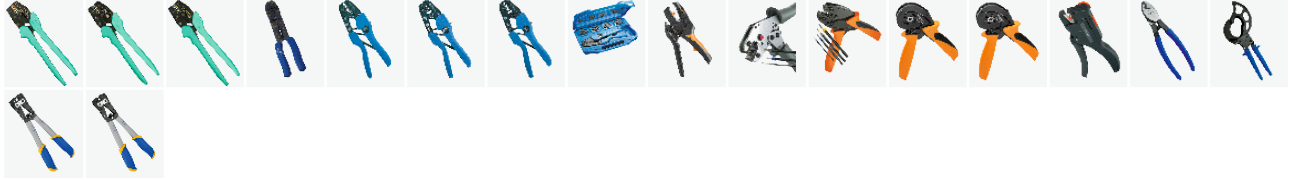
# Electrical Products

### Tools and Accessoires for Electrical Products

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Handtools for Contact Parts



Battery Powered Hydraulic Tool and Accessories for Contact Parts



Electromechanical Tools for Contact Parts

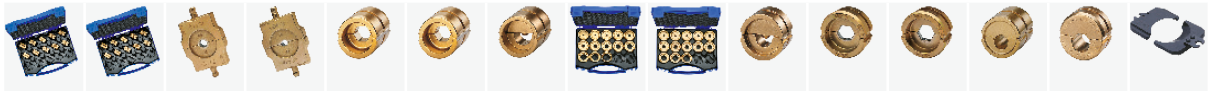


### Spare Parts for Electrical Product Tools

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Spare Parts for Electrical Product Tools



## FUNCTIONAL ELEMENTS

# 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



## FUNCTIONAL ELEMENTS

# Access Solutions

### Operating and Control Elements

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Indexing elements

Index Plungers



Tools and Accessoires for Indexing Elements



Accessories



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Levelling Elements

Levelling Feet



Wheels and Castors



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Handwheels and Crank Handles



## FUNCTIONAL ELEMENTS

# 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



## FUNCTIONAL ELEMENTS

# Access Solutions

### Positioning Elements

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Hinges

Hinges Detachable



Gas Springs and Accessories

Gas Springs



Cam-Stay



### Adjusting Rings / Clamping Rings

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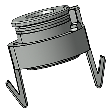


Quick Access Fasteners

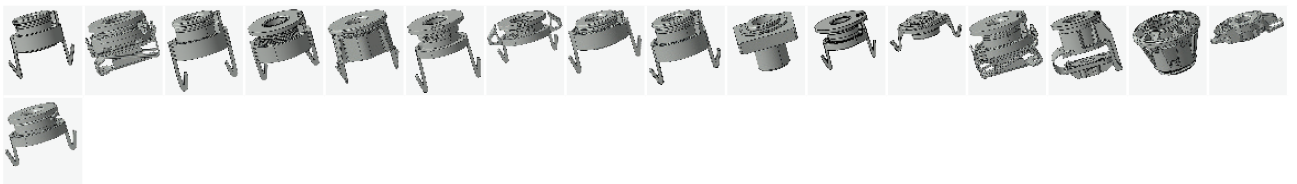


### Tolerance Compensating Elements

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Tolerance Compensating Elements



### Latching

---



Cam Latches



## FUNCTIONAL ELEMENTS

# Access Solutions

### Latching



Compression Latches



Draw Latches



Push to Close Latches



# FUNCTIONAL ELEMENTS

## Access Solutions

### Latching



Lever Latches



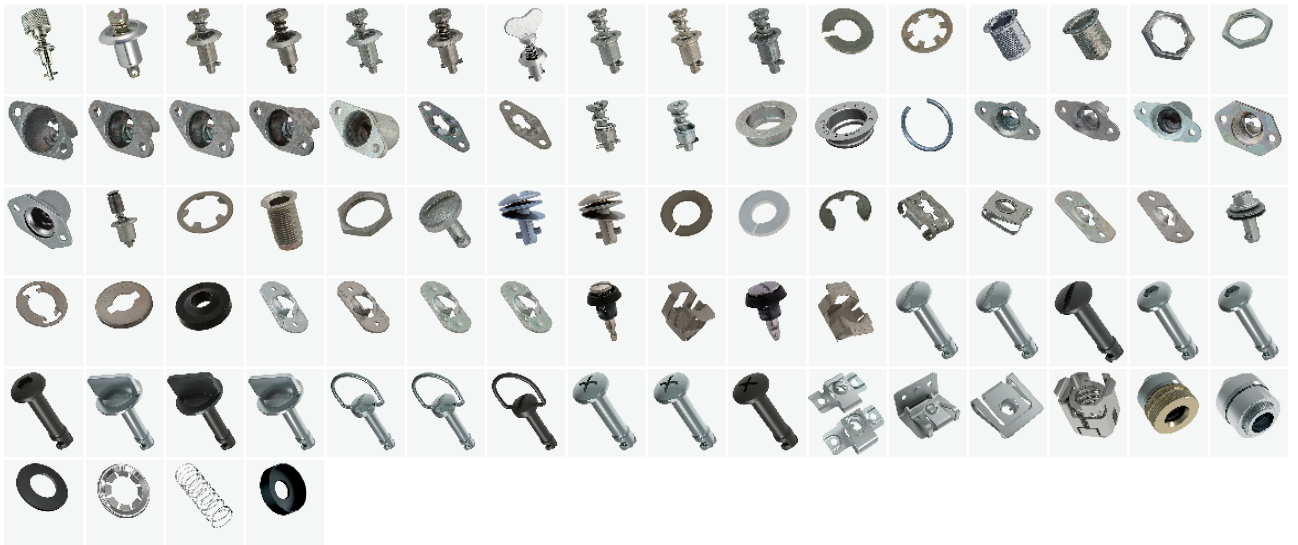
Over-Center Lever Latches



### Quick Access Fasteners



Quarter-Turn Latches



Hooks



### Angle Joints / Fork Heads / Articulated Joints



Fork Heads



## FUNCTIONAL ELEMENTS

# Access Solutions

### Angle Joints / Fork Heads / Articulated Joints

---



Rod Ends



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



## FUNCTIONAL ELEMENTS

# 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

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For Sealing Push Version



For Restrictor, Forward-Flow and Reverse-Flow



Hydropneumatic Table Press for Sealing Technology



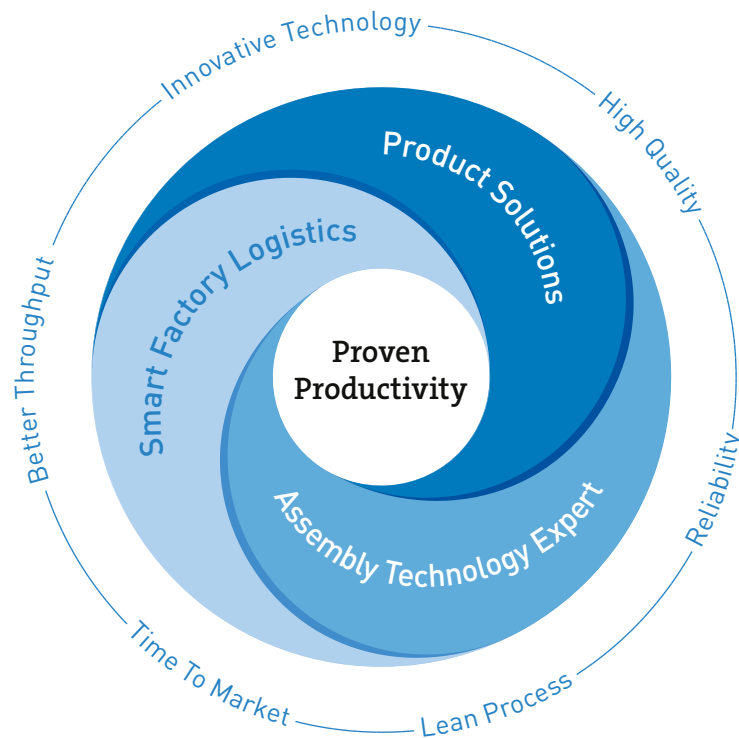
Pull Version



## PROVEN PRODUCTIVITY – A PROMISE TO OUR CUSTOMERS

# The strategy for success

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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.

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