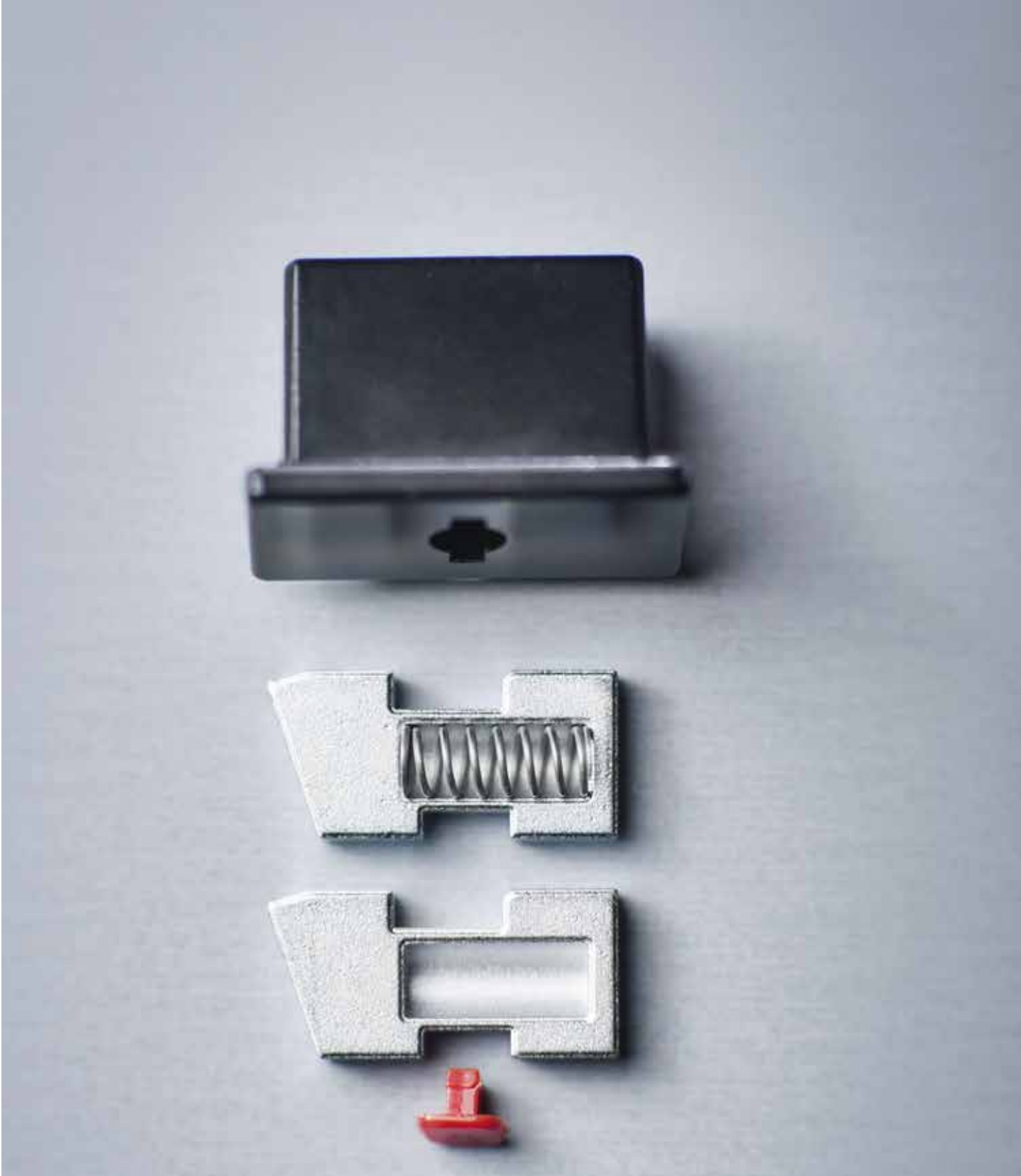




DIRAK

SNAP-Technology, Quarter Turns,
Swinghandles and Hinges



“The high-quality DIRAK products offer individual customer solutions beside a large standard assortment. Innovative solutions, such as DST, complement the DIRAK range.”

DST - DIRAK-SNAP-TECHNOLOGY

Unlimited variety

In a world full of connections, DIRAK developed a pioneering technology. With DIRAK-SNAP-Technology (DST) you can create high-strength connections easily, without the use of any tools – so that you can create the perfect solution, simply and securely.

DIRAK-SNAP-Technology combines flexibility, convenience, and security in every application, without the need for tools. These products slide perfectly through the panel cutout and snap into position, creating a strong and secure connection.

There is no possibility for loosening or turning. The DIRAK-SNAP-Technology is reliable, sophisticated, and the perfect solution for your application.



DIRAK-SNAP-Technology

A well-engineered fastening technology ensures innovation and quality.

Joining different types of materials

We have various DST products available for different types of materials, such as sheet metal, plastic, or wood for your individual application requirements. If necessary, reinforcement plates are available to increase strength and load capacity.

Rattle, vibration, and shock- proof

DST products are vibration-resistant and can withstand the heaviest strains without compromising their high-strength connections. Many of our DST products are tested according to DIN EN 61373 for vibration and shock and GR-63-CORE, Issue 4 for earthquakes.

High strength and secure locking

The DIRAK-SNAP-Technology is able to withstand high load conditions and guarantees connection and pull-forces equal to traditional fastening solutions.

Tool-less and quick assembly

DIRAK-SNAP-Technology products can be mounted in seconds without the use of any tools.





Error-free and reliable assembly

The DIRAK-SNAP-Technology ensures proper installation for your applications. The risk of assembly errors, such as improper torque specs are eliminated. An audible click confirms proper assembly which is helpful especially in applications which are hard to access.

Secure and grounded

In addition to providing strong and secure connections, DIRAK-SNAP-Technology components offer safe and reliable electrical grounding with belonging grounding clips.



Safe and convenient removal

Many of the DST products are as easily disassembled as they are assembled. Depending on the individual product, this can be done with either standard or DIRAK specific tools. Components requiring specialized DIRAK tools are recommended in cases where vandalism or theft are concerns. But overall, our fasteners can be conveniently and easily removed for repairs and transportation.

Wide variety of products

QUARTER TURNS

We offer a variety of quarter-turns with unique properties, such as compression quarter-turns with vibration resistance. Additionally, we can provide individual components that can complement our standard quarter-turn offerings, such as customized gaskets, grounding clips, and so much more.

- Modular configuration
- Over 30 standard inserts for quarter-turns
- Customized
- Assembly by using screws, welding or without tools (DST)
- Zinc, die-cast, polyamide or stainless steel



SWINGHANDLES

In comparison to the simple quarter-turn, swinghandles offer a much higher torque. With these latches, access control to server racks can be professionally managed.

As special equipment, we offer several systems for special applications, for example:

- 1-, 2-, and 3-point latching system
- Optional Mechatronically secured latches
- Latches with locking cylinder or actuator
- Flush-mounted and visible handle
- Tool-free installation
- Versions in zinc die-cast, polyamide or stainless steel

For additional security, we offer rod latches for multi-point locking.



FASTENING TECHNOLOGY

The tool-less fastening elements have been specially developed for demanding industrial environments and makes the assembly process quick and easy.

- Fasteners for two metal sheets
- Single or double fasteners
- Fasteners that can be disassembled from the outside and/or the inside
- Cage nuts



LATCHES

We offer numerous locking systems for special applications, for example:

- Lift-and-turn latches
- Snap locks (e.g. adjustable snap lock, stainless steel snap lock)
- Compression latches (also flush and/or clip-on)
- Tension locks (e.g. adjustable tension lock, stainless steel tension lock)
- Slam latches (among others, as a stainless steel latch with outstanding corrosion resistance)
- Quick locks
- Rim locks
- Vertical bolts
- Tool-less installation (DST)



MULTIPOINT LATCHES

DIRAK offers multi-point rod latches to ensure your doors are securely closed and locked, providing you with peace of mind in the security of your enclosures. The multi-point latches can be seamlessly integrated into various quarter-turns, swinghandles, T- handles, and L- handles and they function with both round and flat rounds.

The multi-point latches are easy to use, flexible, and can be installed with screws or without the use of traditional hardware and tools. They are ideal for application areas that require high vibration and shock resistance and demand constant contact pressure over the entire edge length, such as:

- Rail Transportation
- Traffic engineering, infrastructure and tunnel construction
- Data centers, network cabinets and IT
- Energy and environmental technology



HINGES

With our diverse range of hinges, we can fulfill virtually any customer request.

- Concealed or installed visibly
- With opening angles of 90°, 120° or 180°
- Hinges for single cabinets or rows of cabinets
- Hinges for surface-mounted doors and flush-mounted doors
- Versions as concealed hinge, torque hinge or removable hinge
- Stainless steel hinge
- Tool-less installation (DST)
- Available in zinc die-cast, polyamide and stainless steel



GASKETS

Ideal for enclosures and electrical cabinets, DIRAK developed a variety of gaskets and optimized them for their respective application. We offer an extensive range of gaskets, including: along with customized gaskets, not only including unique customized application requests. For example:

- Edge protection profiles
- Window profiles
- Sealing profiles, self-locking sealing profiles
- Rectangular profiles
- Door sealing profiles
- Special profiles
- EMV profiles

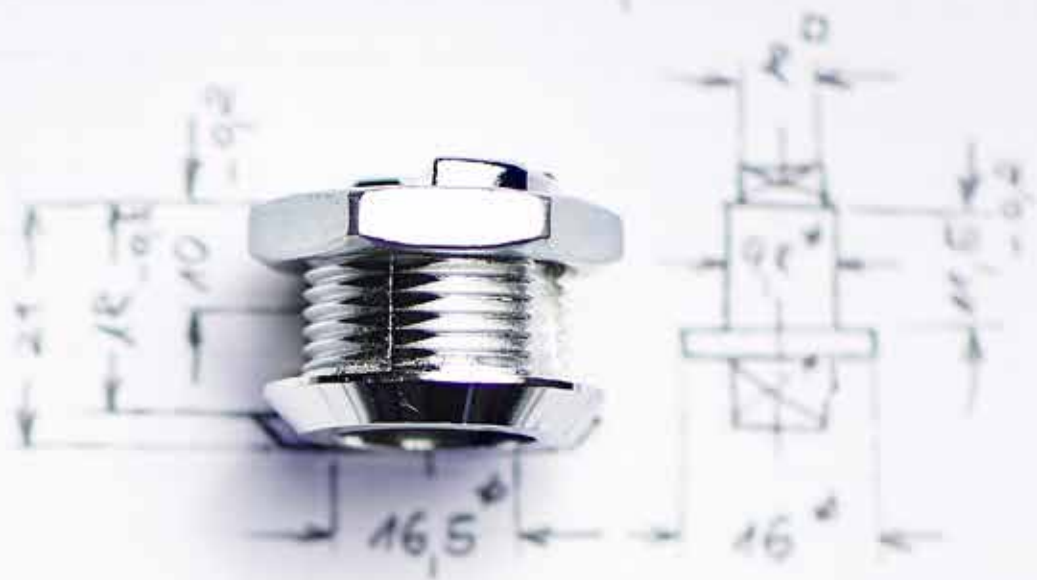


HANDLES

We have optimized our handle assortment for a large number of applications. Many of our handles utilize DIRAK-SNAP-Technology and can be installed without tools and are available in zinc diecast, polyamide, or stainless steel.

- Bridge handles, finger pulls, rod handles, hinged recessed handles and revolving pull handles
- Handle strips
- Flush handles
- Clip-on grip plates
- zinc die-cast, polyamide, or stainless steel
- Tool-less installation (DST)





SW 20_{-0,2}

2 St. Einsatz
Dreikant



2 St. Einsatz
Vierkant



“Whether you need a swinghandle, quarter-turn, hinge, fastener, gasket, or a customized part manufactured to meet your specifications, we will take full responsibility – ensuring that you receive a quality product that meets your requirements.”

4 St. Zungen
a = 18

A STEP AHEAD

Always the best product for your application

It is our objective to find the best product for your application – ensuring the optimal solution for you.



Based on your specific requirements, we will tailor our development with DIRAK. Our sales representatives are competent and capable partners, happy to advise you throughout the process.

With a support team of more than 14 developers, DIRAK has vast experience and knowledge in creating solutions beyond those available in the catalog.

In addition Bossard is using a three-stage methodology – Assembly Technology Expert. It helps our customers reduce their production time and significantly cut their costs. Bossard helps you become more competitive by slashing your time to market.

Design

We assist our customers in designing perfect products. In cutting-edge design centers, Bossard's highly trained engineers oversee our customers' design procedures. They also keep close track of total product lifecycle costs.

Optimize

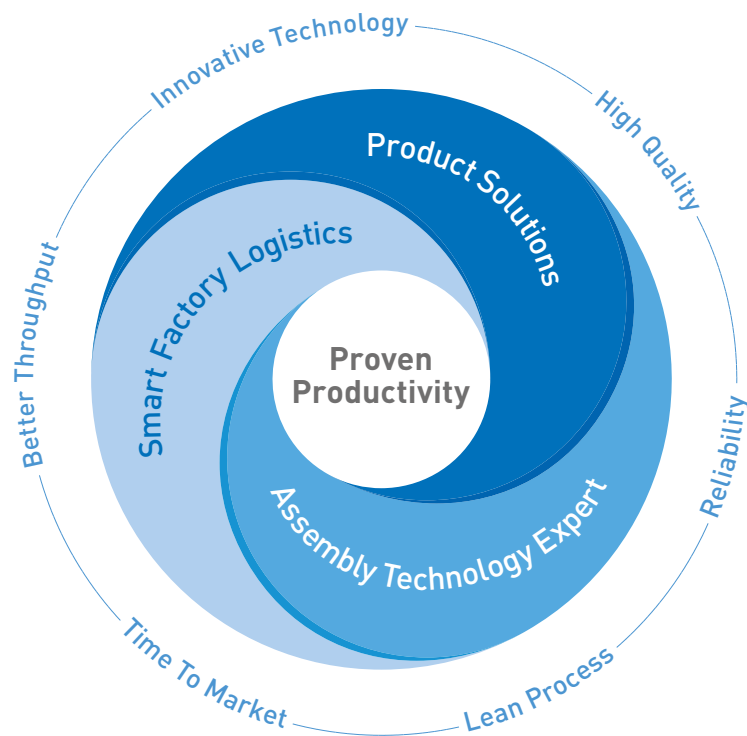
We hone our customers' processes to perfection. In this step, we use proven methodologies, smart sensors and industrial analytics. We enable our customers to streamline every inch of their assembly process. This leads to Proven Productivity.

Educate

We believe that our customers themselves can become experts. Therefore, we educate them on the science around. Tailor-made training sessions on engineering principles, applications, and technology create synergies in our customer's minds.

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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