



Quality. Precision. Since 1867.



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SINCE 1867 ALWAYS ONE STEP AHEAD OF OUR TIME.

Ahead of our time

EDUARD KRONENBERG is as highly motivated today as it was a century and a half ago, when the company was founded. What started out as a factory producing pocket knife springs and tool parts has since developed into a valued partner to a wide range of industries, including the automotive, insulating glass, electrical engineering and solar industries.

Traditional craftsmanship and state-of-the-art technology converge at EK. The sum total of experience gained over a period of one and a half centuries in steel processing and precision stamping, combined with a constant striving for even further improvement with the aim of achieving the highest possible quality, has resulted in innovations that have made EK a leader in the manufacture of precision parts protected by numerous international patents.

Our people have always been and will remain the driving force behind our success. For this reason, EK invests heavily in the training and continuous professional development of its people. With our highly motivated team, we lead the way even today – from toolmaking, production and quality assurance to logistics and sales. And we have been doing this for 150 years.



Precision parts from steel and nylon.

Consultancy, product development and design.

Proprietary tooling technology.

Quality certified series production.

Procurement, inventory management, on-time delivery.

EK-Facts: Founded in 1867 | EK continues to be owned and managed by the Kronenberg family | a workforce of over 90 people | more than 700 million stamped and injection molded parts produced each year | delivery worldwide



HIGH-QUALITY SOLUTIONS PROVIDER.

Performance and delivery

EDUARD KRONENBERG not only manufactures steel and nylon parts, we also deliver solutions: many of our customers trust us with the development and design of their products. We have the experience and the creativity, and also work closely with recognised experts to find the perfect solution for your needs.

With a workforce of over 90 people at our new location, EK produces more than 700 million precision parts annually for a wide variety of industrial sectors using 18 PC-controlled, high-performance stamping machines, with a pressing force of between 250 and 3,000 kN. Parts are manufactured from steel strip and non-ferrous metals with thicknesses of 0.03 mm to 6.00 mm and we constantly invest in advanced systems and technology. We also have our own injection moulding machines for the manufacture of nylon parts.

We understand precision to mean quality-controlled, high-volume production and the continuous optimisation of the services we provide.

- Reliable procurement
- Product post-treatment
- Surface treatment
- 100-percent control
- Assembly
- Stocking
- Guaranteed on-time delivery worldwide

QUALITY IS THE BEST FORMULA FOR SUCCESS.

Our commitment to quality

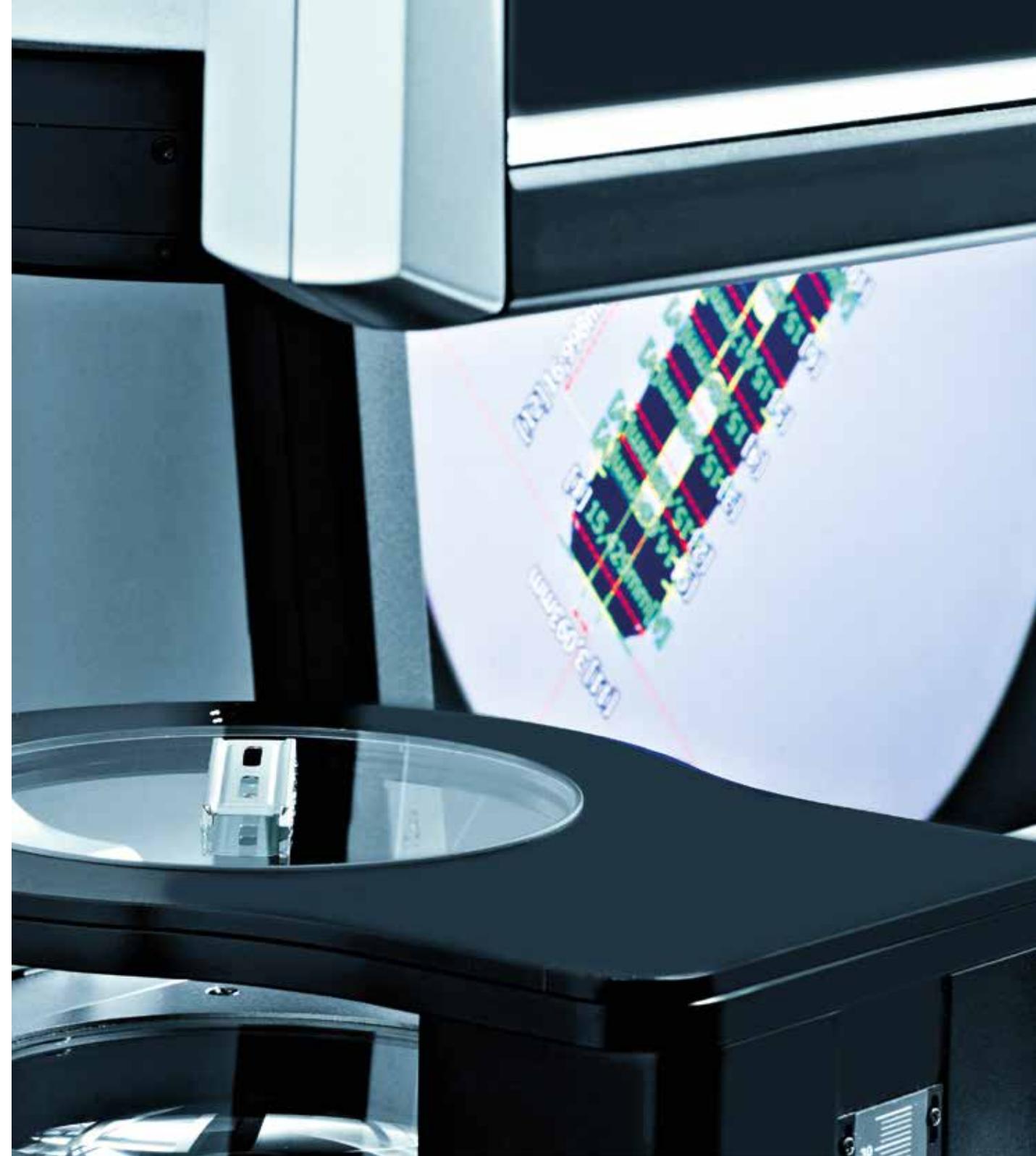
The automotive industry, like virtually no other, demands extremely high quality standards from their suppliers. As a result, EK's success and reputation in this field are a clear demonstration of its commitment to quality. This is also confirmed with the certification we have received to IATF 16949:2016 – the most stringent quality management standard in the automotive industry.

This also applies to our EK Connect product portfolio, which includes highly developed innovative products protected by worldwide patents that enjoy an outstanding reputation in the insulating glass industry.

EK has developed its own calibration catalogue for quality control along the entire production line to ensure that EK parts the highest standards in terms of safety, handling and durability. That is our commitment to quality – guaranteed.

EK's quality commitment:

Highest quality with respect to handling, safety, strength, and durability.





THE RIGHT SOLUTION FOR EVERY DEMAND – IN ANY APPLICATION.

Ideas and our area of expertise

No matter what your special requirements or area of application may be, EK will find the solution that is right for you. That is the goal of research and development at EK. Examples of our creative and individual solutions can best be seen in the diversity of the EK connecting elements we supply to the insulating glass industry. Our product range is designed to cover every possible requirement.

And we are familiar with every industrial sector. Together with our customers, we develop intelligent system solutions and customised products to meet the specific needs of the insulating glass, automotive, electrical engineering and solar industries, to name just a few.

In our new state-of-the-art production facility in the Technology Park Haan near Düsseldorf, we have given ourselves more space to innovate and develop new products. Wherever high quality stamped and injection moulded parts are needed, EK is there to offer its knowledge, experience, reliability and excellent solutions – with a passion.



Glass

Easy to use, stable and airtight

The straight connectors in the EK STEEL and EK POLO Connect series are available in numerous versions. They are designed to match any spacer bar profile, regardless of the type, width and material. Whether a desiccant passage or desiccant stop is required, for a standard or a warm edge profile – all EK straight connector versions feature reliable centring, optimum fit within the profile geometry, high stability and secure locking.

We continuously modify and improve the details of our connectors to ensure trouble-free assembly, durable fit and maximum loading capacity.



STRAIGHT CONNECTORS





Adaptable, versatile, reliable

Features of our corner keys and model corners include simple insertion, permanent grip and extremely high loading capacity. The model corners are flexible and bendable to simplify the production of special-purpose and custom shaped window units, while providing a reliable sealing to prevent dust entering the space between the panes, without shifting from their original position on insertion.



CORNER KEYS

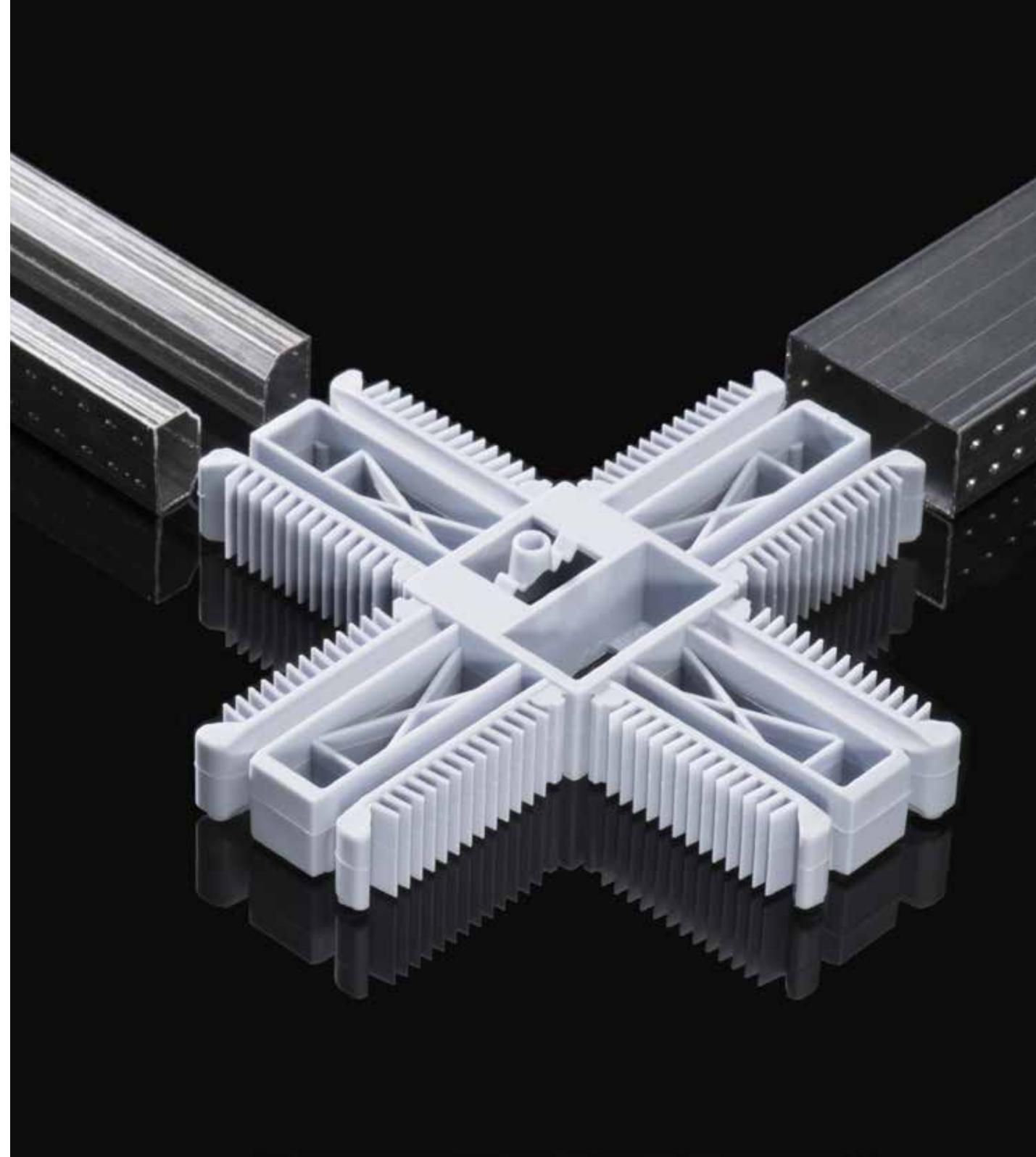
Universal, noiseless, secure

Georgian bar grids should sit tightly, not rattle and be positioned securely. EK's wide range of Georgian bar accessories have universal application and meet the highest standards required for Vienna Georgian bars (box profile), Georgian bar 2000, Swiss Georgian bars and Georgian bar 76.

Our innovative nylon end pieces and cross connectors from the EK POLO Connect series make it possible to produce a Georgian bar grid in the same material used for the frame - they can also be used with both standard and warm edge profiles. The end pieces can be pressed on or screwed on to provide more flexible assembly.



GEORGIAN BAR ACCESSORIES



Product features.



Material STEEL

The right material for your application: galvanized, high-strength steel, micro-alloyed multiphase steel, carbon steel (hardened and galvanized), stainless steel or designs with black surface.



Serrated edges

A variety of designs are available – with staggered heights – for easy insertion and a secure, durable grip in the profile.



U-Shape

A fast and secure filling of the hollow spacer bar is an absolute must for the efficient manufacture of the insulating glass unit. This is where the thin-walled materials of the EK STEEL Connect straight connectors prove their worth and ensure a smooth production process.



Centering

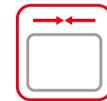
Provides a 50/50 positioning of the connecting element at the junction point and thus optimum performance. Centring ensures that an end-to-end seal is achieved and the profiles are prevented from sliding over each other. Several versions are available – we choose the most appropriate design for the application in question.

Product features.



3 side sealing

Dust-tight seal on the inner contour of the profile to the space between the panes and the butyl section along the edges: optimal positioning of the connecting element provides a perfect fit and tight profile connection. Release of dust or molecular sieve material into the space between the panes is prevented.



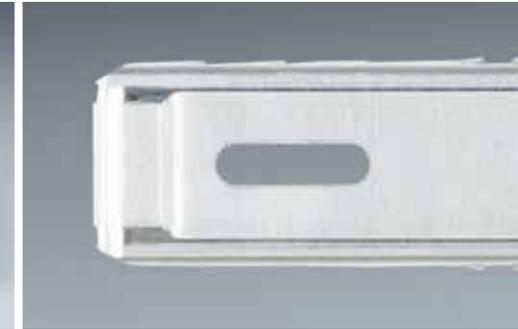
Durable spacer connection / frame connection

Prevents the frame from opening during subsequent handling and ensures a long life cycle for the insulating glass unit.



Seam

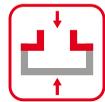
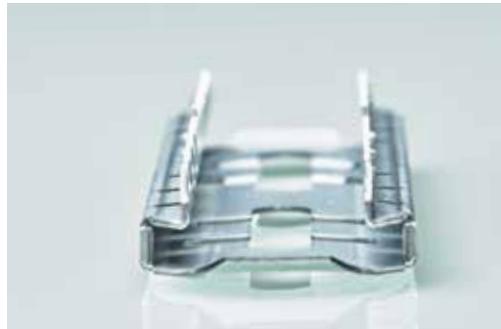
are very high, especially for thin-walled profiles. The optimised design of the central rib increases the stability and loading capacity of the insulating glass unit.



Slots

Provide an optional connection for Georgian bars at the junction point. The middle section is closed to prevent dust or molecular sieve material penetrating into the space between the panes. The slots permit a fastener (pin, screw) to be used to secure the Georgian bars while maintaining stability.

Product features.



Grip support

Ensures a strong grip of the connecting element and thus a high load capacity of the junction point even for large and heavy insulating glass units.



Back plate

To increase stability and (as a tube-in-tube system) for sealing the spine of the profile. Adjusted to fit our connectors and delivered as a single unit, which can easily be filled with desiccant.



Butyl application

To achieve a gas-tight unit, butyl is applied to the back plate of the straight connector. This provides a reliable seal along the spine of the profile and the adjacent side walls at the junction point.



Spring tongue

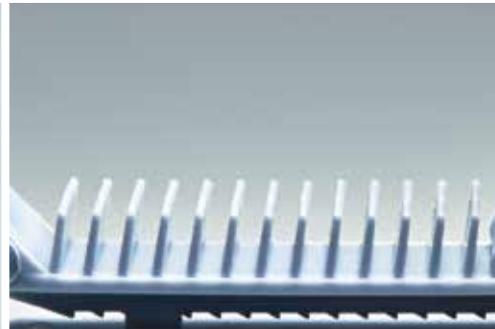
To provide a secure grip and prevent possible removal. When used with a straight connector, the spring tongue hooks into the perforation of the profile. In the case of the corner key or model corner, the tongue provides a tight seal and permanent grip within the spacer.

Product features.



Material POLO

Whether polyamide (PA) is used with different amounts of fibre glass (M = medium, H = hard, XH = extra hard) or anti-fog polypropylene (PP), in particular for our press-on and screw-on end pieces – we choose the best material with the highest quality.



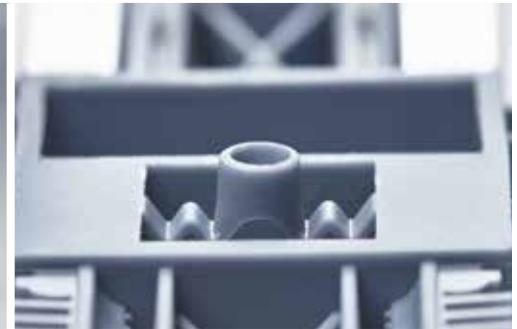
Lamellas

To provide a secure grip in the perforation and to hold straight connectors, corner keys and model corners, end pieces and cross connectors in position. Lamellas prevent possible removal and compensate for any profile irregularities.



3 column design

The 3 column design of our Georgian bar cross connectors and end pieces increases stability and grip and enables Vienna Georgian bars (box profile) and numerous standard and warm edge spacers to be used for universal application.



Anti-rattle system

As a result of their bellows-type design, EK Georgian bar cross connectors provide a permanent grip between the panes and thus prevent movements and rattling in the installed units - without damaging the coating on the panes.

Connecting Profiles.





COMPLETE SYSTEM SOLUTIONS.

Dynamics and control

Products and services provided by EDUARD KRONENBERG are highly valued in the automotive industry and by their component suppliers. One of the reasons for this is that our company offers the automotive sector complete system solutions, including procurement and inventory management services – optionally available with component assembly and 100 percent quality control. We also offer our customers a wide range of award-winning EK precision parts made of steel and non-ferrous metals, including surface treatment – from foil to high tensile strength spring steel strip.

EK stamped parts that are manufactured with the highest precision are used primarily for suspension, powertrain, steering and exhaust system components. Our customers can be assured that we comply with the highest standards at all times – because EK has achieved company-wide IATF 16949:2016 certification and thus meets the most demanding global quality management standard within the automotive industry.

COMPETENT PARTNER OF THE SOLAR INDUSTRY.

Energy and know-how

EDUARD KRONENBERG sees its role in the solar industry as a development partner with innovative ideas, intelligent system solutions and tailor-made products designed to meet our customers' specific requirements. We apply our extensive technological expertise to ensure that projects in which we are involved are completed successfully.

To this end, we support our customers all the way from the development of new products to quality-controlled volume production – as the example of the RS1 universal clamp for secure and permanent mounting of solar panels shows. In this case, many years of experience and our comprehensive knowledge in the field of stamping and metal forming was a major factor for the successful completion of this project and the resulting award-winning system. Yet another example demonstrating that all EK products meet the highest quality standards at all times – in terms of load-bearing capacity and clamping force, in addition to long service life and efficient handling.





COVERING EVERY NEED.

Additional reliable solutions

The wide range of products and services provided by EDUARD KRONENBERG extends far beyond the simple manufacture of stamped and injection moulded parts. Our design engineers are frequently asked to develop innovative solutions for a large number of our customers, since EK is capable of manufacturing virtually any precision part to meet a customer's individual requirements.

For the electrical engineering industry, for example, we produce flat and contact connectors, contact bridges and relay parts – including subsequent heat or surface treatment and, on request, preassembled and thus ready for installation for the corresponding application. Because EK meets the highest quality and environmental standards at all times and has built up a reputation for reliability, our company has become the preferred partner of long-standing for the fastener and fixing industry, the cutlery industry and the machine tools industry.

See for yourself whether EK delivers on its promise.

MEMBER



IGMA INSULATING GLASS MANUFACTURERS ALLIANCE



TÜV certified in accordance with IATF 16949:2016.

EK Connect products are protected by international patent.

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