

NEWAG S.A. has been relying on EMKA quality for 15 years

Locking systems, gaskets, and emergency hammers for trains

Trains are a particularly safe and comfortable means of transportation – kudos also to the most inconspicuous components working behind the scenes. EMKA products play a critical role in performing their services unnoticed but indispensable. For 15 years, the Polish company Newag S.A. has been utilising locking systems, gaskets, and emergency hammers in its trains and trams, made by the world market leader in Velbert, Germany.



The company Newag S.A. relies on EMKA components in its trams such as stainless steel compression locks and emergency hammers with hand protection and holders. These components have been contributing to safe rail transport in Poland for years.

Newag S.A. is a Polish company based in Nowy Sącz, specialising in manufacturing and maintaining rail vehicles. The history of the railway specialist dates back to 1876. This long history makes Newag one of the oldest and most traditional railway companies in Poland. Today, the name Newag is synonymous with the successful implementation of technical innovations. Currently, the company has a staff of approximately 1,300 employees. Newag products are being used in many European countries.

The Newag Group has been the Polish market leader for the production and modernisation of Electric Multiple Units (EMUs) and electric locomotives for several years. However, modernising diesel locomotives is still part of the company's range of services. Since 2012, trams have also been part of the company's product range.

The high quality of Newag trains has already been awarded twice with the IRIS (International Railway Industry Standard) gold certificate. This is one of the most prestigious awards in the railway sector. It is only awarded for the highest standards in quality management and continuous improvement. The company's splendid success in a highly competitive market is also reflected in the "Transforming the Polish Industry" award from the Trade Press, the Forbes Diamond, and the title of Lesser Poland Leader.

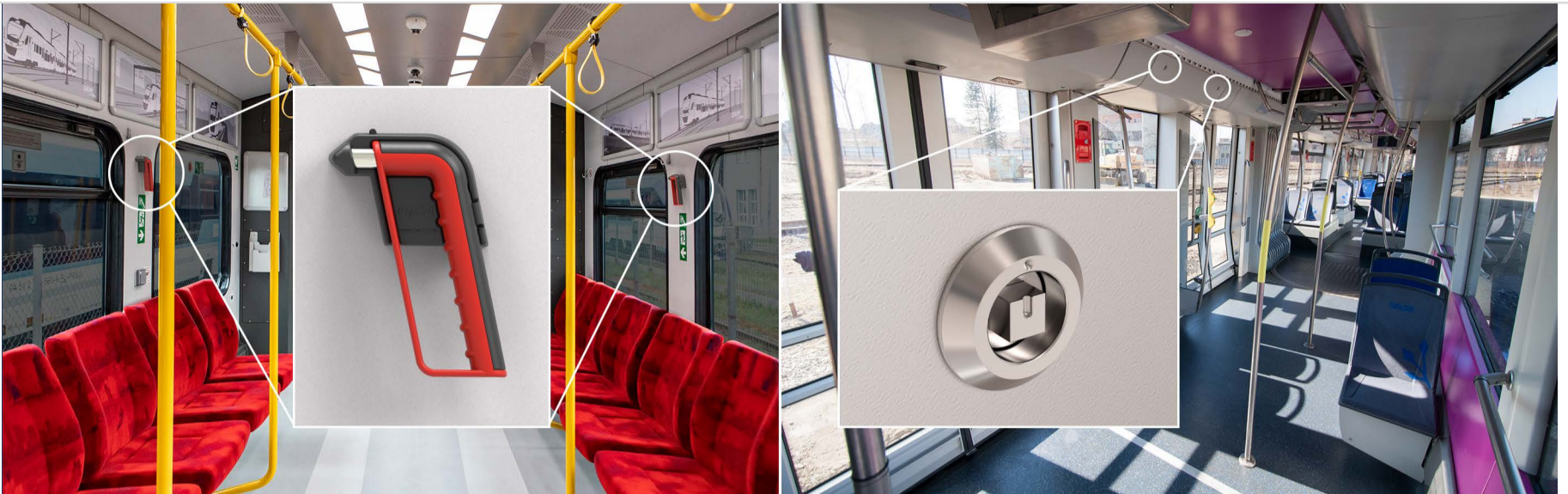
How the cooperation with EMKA got started

The collaboration with EMKA began in February 2009 when Newag S.A. was looking for a partner to supply components for locking systems. The global market leader from Velbert is also known in Poland for the high quality of its innovative solutions in the segment of industrial locking systems, which can be adapted to the specific requirements of the railway industry. The EMKA product catalogue for rail vehicles includes quarter turns, compression latches, multi-point locking systems, hinges, gaskets, and emergency hammers. The key requirements were high durability and reliability of the components under extreme operating conditions and compliance with the particularly high safety standards in rail transportation systems. In addition, the products had to meet the different design requirements of the Newag trains. EMKA's experience in the railway industry and its excellent customer service were also factors in its favour.

Various EMKA products have been installed in the Newag Group's trains in the past 15 years, including stainless steel compression latches (with "square 8" insertion key), fire protection gaskets and edge protections, emergency hammers with hand protection, and anti-theft brackets. The compression latches for use in rail transport have successfully

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Most EMKA components work almost invisibly in the background. When looking around the interior of the trains, one can also see the emergency hammers and locking systems made by the world market leader in Velbert, Germany.

completed shock- and vibration resistant tests compliant with DIN EN 61373. Locking systems with colour markings make it particularly easy to identify the locking position. If required, the latches can be equipped with visual opening indicators such as flaps and lids, that are clearly visible when a latch is not locked. They are therefore easy to operate and fail-safe. The fire protection gaskets for rail transport are manufactured in EMKA's factory in Spain. Not only is this factory certified according to ISO 9001 and IATF 16949, but also has an in-house test laboratory. These gaskets fulfil the current fire protection standards and also withstand the stresses in hazardous areas. Strict safety regulations apply to fire protection, especially for trains travelling through tunnels and over bridges. The emergency hammer with hand protection is made of glass fibre-reinforced plastic, which meets all the prescribed fire safety regulations. It is certified in accordance with DIN EN 45545-2 HL3. The hammer's hardened steel tip easily breaks reinforced safety glass, laminated safety glass and insulating glass panes, thus quickly creating an escape route in an emergency. The EMKA emergency hammer holder has a concealed anti-theft device.

The product was recently presented with the Red Dot Design Award 2024. According to Newag, all EMKA products feature excellent properties in terms of corrosion resistance and mechanical strength, which are crucial for the railway company's applications. The trams and trains fitted with EMKA components are in operation throughout Poland and in some cases also in other European countries. The approval process is currently underway for the new "Griffin" locomotive from Newag,

which also uses EMKA's locking systems and gaskets. The "Griffin" is the first Polish locomotive to reach a speed of 240 km/h. This requires a higher load capacity for all components, which the specialist from Velbert also guarantees. In the future, the "Griffin" locomotive will be used on lines in Poland, Germany, the Czech Republic, Slovakia, and Hungary.

The focus is on optimising rail vehicles

Newag rates the long-term cooperation with EMKA as extremely positive. In particular, the high level of professionalism and flexibility and the extraordinary commitment to the Newag Group's projects are praised. "The outstanding quality and reliability of the products as well as the excellent customer service make EMKA the ideal partner when it comes to safety and comfort on the rails", explains Sebastian Smoleń – Head of Strategic Purchases. "Our successful cooperation underlines EMKA's expertise and innovative strength in the field of gasketing and locking systems for the railway industry. EMKA components contribute decisively to the optimisation of our rail vehicles."

EDITORIAL | Riding the rails with EMKA

Dear readers,

While many people enjoy the summer and the holiday season, preparations for InnoTrans (International Trade Fair for Transport Technology) in Berlin are in full swing at EMKA. At the end of September, the German capital will become the international meeting place for the railway industry. The exhibition centre will provide approximately 3.5 km of track for showcasing rail vehicles and their components. This presentation opportunity is unique in the world and makes InnoTrans an extraordinary experience. Of course, the traditional German draught beer is not to be missed.

The trade fair allows us to give more attention to certain products in our summer edition that often go unnoticed. In the following pages, you will discover our approach to meeting the demanding safety standards in rail transport. EMKA has had the pleasure of serving Newag, a Polish company in the railway industry, for 15 years. In this issue, we showcase their success as one of our satisfied customers.

Nevertheless, rail transport is not the only mode of transportation during the summer. EMKA France is working diligently on expanding our key and cylinder plant, allowing the initial departments to move in. Last but not least, football enjoyed special attention thanks to the European Championships and the outstanding success of Bayer Leverkusen. As a long-standing owner of a VIP box in the BayArena stadium, EMKA took the opportunity to personally congratulate the successful Spanish coach, Xabi Alonso.

Have a great summer with EMKA! I hope you enjoy reading the second issue of EMKA News in 2024.

R. Kloth

Dr Ralph Kloth, Head of Strategic Sales and Marketing

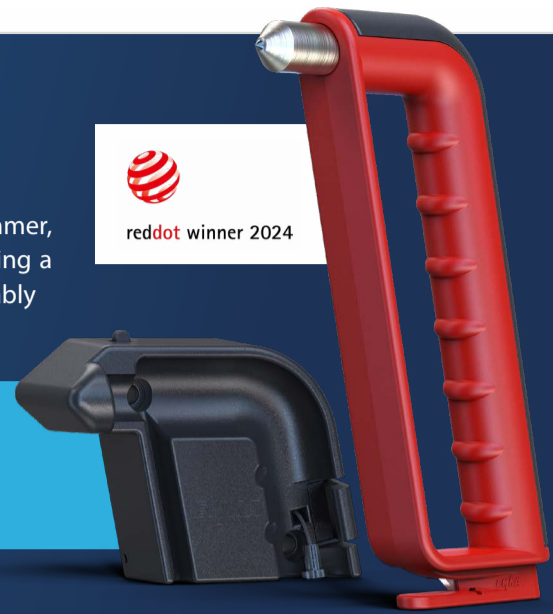
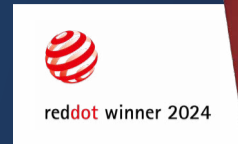


EMKA wins Red Dot Award 2024 for product design

The outstanding design of the EMKA emergency hammer, which features a hand guard and belt cutter, has received the prestigious Red Dot Award in 2024. An international jury of experts, consisting of professors, consultants, journalists, and industrial designers from 20 countries, award the coveted seal of quality annually to products that impress with their exceptional design. This year, entries for the award came from 60 different countries. The jury was impressed by the functionality and practical design of the product, which came from the global market leader based in Velbert,

Germany, among other factors. The EMKA emergency hammer, constructed from glass fibre-reinforced plastic and featuring a hardened steel tip, is designed for efficiently and dependably shattering windows in emergency situations.

Shown here, the EMKA emergency hammer with hand guard and belt cutter has received the prestigious RedDot Award 2024 due to its exceptional design.



During the Tech Days event, attendees have the opportunity to ask any questions they may have. The opportunity for personal dialogue is very well received.

EMKA India participates in the Tech Days event

The Indian market holds significant importance as a future market for switch cabinet construction. EMKA India has recently initiated the Tech Days event as a means to promote the growth of this market and showcase the hidden champion EMKA. Usually, between 50 and 100 customers attend the events to discover more about EMKA's product range and its production site in India. The lighting of traditional candles followed by a delicious buffet sets the stage perfectly. The most recent Tech Day in Coimbatore, in the Indian state of Tamil Nadu, commenced with an opening speech from Kumar Srinivasan, Vice President of EMKA India. This was followed by three brief presentations on innovations from the EMKA portfolio, before the production site in India was introduced by Managing Director Kumar Subramaniam. The event ended with a question-and-answer session. The feedback remained consistently positive as customers valued the chance to engage in personal conversations. Upcoming Tech Days events are scheduled to be held in Mumbai, Pune, New Delhi, Lucknow, Chennai, and Ahmedabad. If a production site is nearby, a factory tour will also be offered.

EMKA France production site increases to 4,800 m²

The expansion of the EMKA production site in Henriville, France, is nearly finished. The completion of the key and cylinder plant near the German-French border is scheduled for September 2024 – approximately one year after the ground-breaking ceremony. "This means that the construction work is right on schedule", reports Andreas Prellwitz, member of the EMKA France Management Board. Previously, EMKA France had workspaces covering approximately 2,400 m². The new building in the immediate vicinity of the existing site will now expand this area to 4,800 m², furthermore, a showroom will be added. The relocation of the production departments began in July. The offices will follow in late summer. The opening ceremony is planned for the end of the year.

The production site in Henriville primarily manufactures locks and locking systems for switch cabinets, safety boxes, foot/storage lockers, and letterboxes. The product range also includes protective boxes for vehicle batteries, streetlamps and food vending machines. Prior to the expansion, the factory produced more than 500,000 locks of different designs per month, amounting to an annual output of up to 10 million locks. Close to 90 per cent of the products are supplied to the EMKA Group.



The expansion of the EMKA production site in Henriville is being completed on schedule. The first departments are already moving into the new building.

A locking technology featuring a system specially designed for rail vehicle construction

When embarking on a journey, travellers have the sincere desire to reach their destination safely. To ensure the safety of passengers and train crew, all components must perform their intended function with utmost reliability, particularly in the event of a fire. The significance of each and every component, regardless of its size, cannot be emphasized enough in this context. This includes closures on flaps and doors, both in the engine room and in the passenger compartment and the driver's cabin. EMKA offers a comprehensive portfolio of sophisticated locking systems, including hinges and special fire protection gaskets that are perfectly tailored to safe use in rail vehicles.

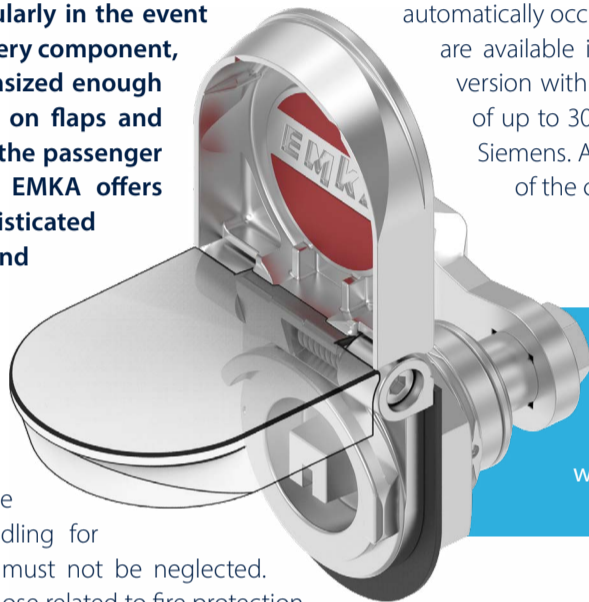
Locking solutions in trains are subject to rigorous requirements. The significance of fire protection and safety cannot be overstated while at the same time handling for the train crew and comfort for travellers must not be neglected. Compliance with regulations – especially those related to fire protection – is significantly influenced by the application area and travelling route. Various locking systems are employed inside and outside railway vehicles, depending on their respective areas of application. Inside the train, for example, the locking solutions are located on ceiling and wall panelling, in the galley or the area of the displays and screens. External components such as underfloor containers, covers, access hatches, and rooftop units are equipped with suitable locking mechanisms for security purposes. World market leader EMKA offers a comprehensive range of products for these areas of application.

Quarter turns and compression latches for rail vehicles

Quarter turns are a versatile and cost-effective solution. These products come in various designs and are made with different materials for casings and actuators. Special safety quarter turns and vibration-resistant quarter turns are available for use in railway vehicles. To engage the safety quarter turn lock, the actuator is inserted into the housing and then turned 90°. This creates a vibration-resistant closure. The vibration-resistant quarter turn has a latching function that prevents automatic rotation. Special requirements are also taken into account, for example, EMKA offers a quarter turn with a cover that can be used as a floor lock. The cover is simply screwed on and gaskets flush with the floor. This guarantees that the closure is impenetrable to both moisture and dirt.

In addition to its range of quarter turns, EMKA also offers compression latches for use in trains. When closing, a combined turning and lifting movement takes place. Firstly, the actuator is rotated 90°. Further rotation of the actuator

leads to an axial movement of the latch. The compression gently and securely draws the door, flap, or panel into the circumferential gasket. This provides additional safety. The doors remain firmly closed despite the vibrations that automatically occur during the travelling movement. Compression latches are available in die-cast zinc and stainless steel as well as a hybrid version with an aluminium housing. This allows a weight reduction of up to 30%. EMKA developed this special solution, especially for Siemens. As an option, a cap can be used to protect the actuation of the compression fastener from dirt and moisture.



EMKA has developed a compression latch with a cover and visual opening indicator, which can be recognised from a distance whether it is locked.

Special compression latch with visual opening indicator

When performing maintenance tasks, a large number of latches often must be opened and closed. This follows that each time it must be ensured that all latches are securely closed after the maintenance work is completed. Neglecting this can lead to the door opening without warning or potentially causing a flap to be torn off during the trip. This usually has serious consequences. The ability to visually confirm from afar if the latches are open or locked is a time-saving, convenient, and safe feature. EMKA has developed the compression latch with a cover and visual opening indicator for this specific purpose. The benefit is that if the compression latch is not fully closed, the lid is clearly visible at a 90° angle. As an option, the lock is also available with coloured markings on the cover. The colour indication on the inside of the cover makes it even easier to identify the open position. In addition, the locking solution is tested in accordance with DIN EN 45545-3 and complies with fire protection class E60.

Special swinghandle with interchangeable modules

While fire protection and safety are crucial factors in trains, it is equally important to prioritise usability, aesthetics, and access control when it comes to locking solutions. The low-profile swinghandle made of powder-coated die-cast zinc is particularly suitable for the often narrow passages in trains. The lock is available in a version measuring 167 mm long and a short version



measuring 89 mm long. The swinghandle protrudes by just 9 mm and features rounded corners. It is therefore particularly suitable for escape routes and has clear advantages compared to conventional handles, which protrude further into the aisle and pose an increased risk of injury. An additional advantage is the simple and quick replacement of the locking centre insert (module) when installed. This means that the swinghandle can be used universally. Depending on the intended use and existing requirements in terms of security (access control), a high-quality locking cylinder or a simple square actuation can be selected. For example, a profile half cylinder is ideal for access to the engine room or driver's cab, while a simple solution is completely sufficient for cabinets with less important contents such as cleaning utensils and therefore a lower security level. For special security requirements, the long handle can be fitted with a DIN or KABA cylinder and a rod lock for connection to a multi-point locking system.

The multi-point locking feature is extremely user-friendly

Cabinets inside the train and underfloor containers outside, which are often challenging to access, can be securely locked using the multi-point locking system. The multiple locking points, enable the best distribution of the locking forces. The locking mechanism is extremely user-friendly because of its synchronized locking procedure. Instead of many individual elements, only a single element needs to be actuated to lock the door of an electrical enclosure or the lid of an underfloor container, for example. An internal, continuous rod connects the individual locking points and thus prevents delays or transmission errors during the locking process. This leads to significant time savings and maximum security. This system, offered by locking expert EMKA, can be chosen with or without compression and, optionally, with a corner drive. By incorporating a multi-point locking mechanism with a rotary clamping feature, the door can be made even tighter and easier to operate. By implementing EMKA's optional corner drive, the locking system can be expanded to multiple sides. These additional locking points in a cross-bracing fashion ensure increased security. The corner drive is available both in a hybrid plastic/zinc die-cast design and as a "rocker" made of galvanised steel or stainless steel. This guarantees that it fulfils the most stringent criteria for fire protection, corrosion resistance, and safety. The multi-point locking system is shock and vibration-tested and can be used for both low and high fire protection requirements.

The multi-point locking system can be used to securely lock cabinets inside the train as well as underfloor containers that are usually difficult to access. They can be operated using a swinghandle or a quarter turn.

Locks and fire protection gaskets for every requirement

Special regulations apply to the design of railway vehicles. The focus is on travelling safety to protect passengers and staff – especially in the event of a fire. Not only the flames and heat, but also the resulting smoke and toxic gases pose a major threat. Depending on the safety level, the locking system must fulfil different specifications and standards. As the global market leader for locking systems, hinges, fire protection gaskets, and accessories, EMKA has a large portfolio for rail vehicle construction and can supply the right product for every requirement, in the right design and with the right material. Customised solutions are also part of our day-to-day business. Over 92% of all standard and customised products are manufactured in-house.



The flat swinghandle made of powder-coated die-cast zinc with an extractable module that can be removed from the front is ideal for the often narrow passages in trains.

This also applies to fire protection gaskets for rail transport, which EMKA manufactures at its production site in Arnedo, Spain. The fire protection test procedures are described in the EN 45545-2 standard. It differentiates between three hazard levels for plastics and gaskets. EMKA has the fire behaviour, smoke gas development and toxicity of its profiles tested in a special laboratory to ensure that the gaskets do not allow smoke gases to pass through in the event of a fire and do not release any toxic substances. By using flame-retardant materials, EMKA's tested and certified fire protection gaskets achieve the highest fire protection class HL3.

In order to meet the high requirements for gaskets in rail vehicles, EMKA uses special flame-retardant material and thus achieves the highest fire protection classes.



Further information on the subject of fire protection gaskets can be found on the next page.

Production in Spain

La Rioja, tapas, and fire protection gaskets

It's common knowledge that in Spain, the appreciation for mouthwatering dishes and exceptional wines is deeply ingrained in the culture. The EMKA plant in Arnedo, Spain places great importance on upholding high-quality standards, particularly in the production of rubber and plastic profiles. Besides manufacturing fire protection gaskets for railway vehicles, the facility ensures the gaskets meet the rigorous safety standards of rail transport. Our team of professionals can accommodate almost all customers' individual needs and preferences.

Throughout its history, EMKA has become a leading expert in the extrusion of rubber and plastic profiles. In the town of Arnedo, Spain, a workforce of 85 employees manufactures over 18 million meters of gaskets and edge protection profiles annually. These products are made using a range of materials like EPDM, NBR, TPE, and PVC, and they undergo rigorous quality checks. Flame-retardant additives and fillers are used to



The EMKA plant in Arnedo in the Spanish region of La Rioja specialises in the production of gaskets.



210 different cross-sections were already extruded on 10,500 m² of production space in the first half of 2024.

meet the required fire protection standards. Some examples of these additives and fillers are halogens, phosphorus, antimony compounds, aluminium hydroxide, magnesium hydroxide, and silicates. The production of fire protection gaskets in Spain is certified to comply with ISO 9001 and IATF 16949 standards. EMKA conducts rigorous inspections of both the raw materials and gaskets in their internal laboratory, ensuring the highest quality.

Fire protection gaskets in particular, which are used in trains, must fulfil numerous standards. The relevant standard in Europe is DIN EN 45545, which deals with fire protection in railway vehicles. EN 45545-2 deals with the requirements for the fire behaviour of materials and components. EN 45545-3 regulates the fire resistance for fire barriers. Plastics and gaskets are categorised into different hazard levels (HL) in accordance with EN 45545-2. A distinction is made between different design classes. It is also important whether the vehicle is only travelling on the surface or through tunnels. If it is not possible to evacuate passengers from the side, the highest hazard level (HL3) applies. EMKA tests the fire behaviour, smoke gas development



and toxicity of the profiles in its in-house laboratory. It must be ensured that the gaskets fulfil their function for as long as possible. While it is important to prevent any flue gas from entering the interior, it is equally important to ensure that the gaskets do not emit any toxic substances. For this reason, EMKA uses special flame-retardant material and thus achieves the highest fire protection classes. EMKA fulfils the requirements of HL3 for all gaskets in the railway sector. The materials undergo testing based on DIN EN 45545-2, but a thorough fire protection test of the entire products is conducted following DIN EN 45545-3. Fire resistance is quantified in terms of minutes. The determining factor is the duration for which the components can perform their function safely. Stainless steel closures, for example, are subjected to a test time of 60 minutes (E60).

In total, the range of elastomer gaskets and profiles manufactured at Arnedo currently comprises more than 1,500 variants. Additionally, they find applications in industries like switch cabinet manufacturing and air conditioning technology. Customers can customize various aspects of the product to meet their needs, including colour, surface coating, strain relief, assembly aids, and extra-strong clamps. Different manufacturing processes such as ultra-high frequency (UHF) and salt bath guarantee precise production according to individual requirements. In addition, EMKA products are characterised by their long service life and high performance, even under extreme conditions.



In order to meet the high requirements for gaskets in rail vehicles, EMKA uses special flame-retardant material and thus achieves the highest fire protection classes. Fire behaviour, smoke gas development and toxicity are tested in the company's own laboratory.

Champion performance in football – exceptional accomplishment in the rescue of stray dogs

Bayer Leverkusen is writing football history, while EMKA enthusiastically supports them from their exclusive spectator's box. The "Werkself" (nickname of Leverkusen's football team), is the first undefeated German champion in history and also winner of the Cup. However, there is reason to rejoice beyond the borders of Germany as well. In Bosnia Herzegovina, the EMKA animal shelter in Goražde is commemorating its 50th anniversary and is on the verge of rescuing 1,000 stray dogs—an incredible milestone. The outdoor area of the rescue centre has been expanded once more.



The Leverkusen football team celebrated the presentation of the Championship trophy in their home stadium.



The rescue centre for dogs in Goražde has been in existence for five years now. The outdoor area was recently extended. (Photo above right). The photo on the top left shows the entire 9,000 m² area.

Bayer 04 dominates German football: unbeaten in both the National Championship and the DFB Cup

Considering our long tenure as the owner of the VIP box in the BayArena, EMKA would like to express its earnest congratulations to Bayer Leverkusen on their remarkable achievement of winning their first German Championship. The men's team – undefeated in 34 matches – was given the prestigious title of the first undefeated champion since the establishment of the German Bundesliga. At the same time, the "Werkself" also proved itself in the cup competition and lifted the DFB Cup for the second time since 1933. As a result, Leverkusen concluded the season with two titles ("Double"), which stands for the men's team as a club record. EMKA seized the opportunity to extend personal congratulations to coach Xabi Alonso during a meeting. We wish him and Bayer Leverkusen continuous success. Even in the Championship week in the new season!



Following his team's outstanding success, coach Xabi Alonso was thrilled to be personally congratulated by EMKA Managing Director, Jan Renig (centre), and Dr. Ralph Kloth (left).

Area almost doubled in size and 950 stray dogs already rescued

The EMKA Animal Shelter in Goražde, Bosnia and Herzegovina is currently commemorating its fifth anniversary. Since its establishment in 2019, the canine rescue centre has successfully found shelters for around 950 stray animals from the streets and successfully found a home for most of them. Marita Runge, a passionate advocate of the project, co-owner of EMKA, and the wife of our managing partner Friedhelm Runge, took it upon herself to establish a rescue centre specifically for puppies and young dogs. Alongside the recently expanded outdoor arena measuring 9,000 m², the shelter boasts its own veterinary clinic. Over the course of five years, a dedicated team of volunteers, along with nine professional animal carers and two veterinarians, have been tirelessly working to capture dogs and nurture them back to health. Around 240 animals currently live at the centre and are waiting for a new home.



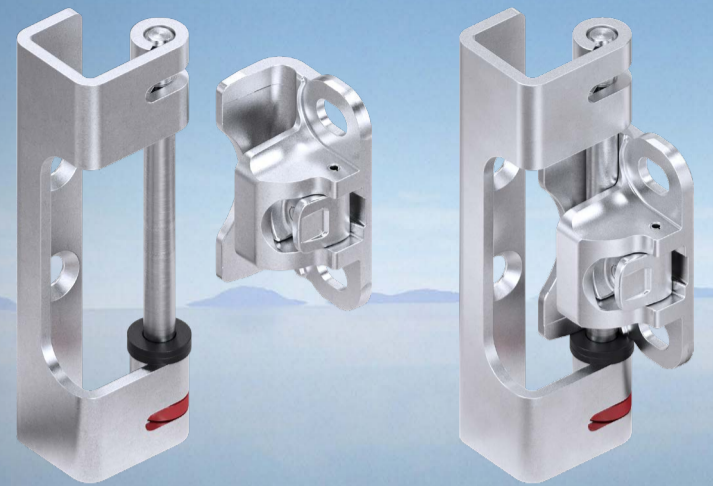
New: No tools required to install the 125° clip-in hinge into the door

Why making it difficult when it can be so easy? With the new 125° clip-in hinge from EMKA, doors and flaps can be easily mounted to the frame and removed again. The internal hinge for surface-mounted doors is suitable for classic industrial applications as well as for use in special vehicle construction or in rail vehicles.

Typically, to install a surface-mounted door or flap using conventional hinge systems is inconvenient. The hinge pin can only be inserted if the door frame bracket and door bracket are perfectly aligned. Since there are typically multiple hinges, this procedure needs to be done on each hinge. Disassembly is also laborious. Depending on the installation situation, the hinge pin must be pulled up or down or driven out in order to separate the door from the door frame. However, there is often not enough space above or below the hinge. EMKA now provides a straightforward solution to this issue with their new 125° clip-in hinge.

Installation and removal as simple as child's play

The internal hinge, invisible from the outside, can be mounted on either the left- or right-hand side of the frame. The door section assembly is positioned on the plastic sliding discs of the frame section to attach the surface-mounted door or flap. Subsequently, the door section assembly is simply pushed horizontally in the direction of the hinge pin until the door is in position. A clicking sound confirms the proper installation. This clipping function distinguishes the new hinge from conventional hinges, because the hinge pin is permanently installed in the frame section and therefore does not need to be moved up or down. The guide automatically moves



The new 125° clip-in hinge from EMKA allows for effortless attachment and removal of doors and flaps from the frame. To mount the door or flap in place, the door section assembly is placed on the plastic sliding discs of the frame section.

Simply push the door section assembly horizontally towards the hinge pin until it is in place. A clicking sound confirms the proper installation. Applying a light pressure against the door, the door parts of the hinges lock and are firmly connected to the frame parts.

the assembly into the correct position. Applying slight pressure to the door causes the hinges to lock, firmly connecting the door to the frame. No tools are required for this, nor does the door need to be locked. A secure connection between the door section and the frame is created as soon as the open door is pressed down. The door or flap can be removed again just as easily. To do this, the latch on the door section assembly is pulled to unlock the door section. In this open position, the latch does not need to be held down because it engages in this position. The other hinges can now be opened one after the other in the same way. The door or flap can then be removed quickly and easily. The new 125° clip-in hinge is shock and vibration tested in accordance with DIN EN 61373 Cat. 1B and has been successfully tested in continuous operation.

Trade Fair Impressions



HMI, Hannover



DCW, Frankfurt



Expo Manufactura, Mexico



Commercial Vehicle, UK

Worldwide Trade Fairs 2024/25

	Caravan Salon, Düsseldorf, Germany (30.08.–08.09.2024)
	Energetab, Bielsko-Biala, Poland (17.09.–19.09.2024)
	Sepem, Toulouse, France (24.09.–26.09.2024)
	InnoTrans, Berlin, Germany (24.09.–27.09.2024)
	EuroBlech, Hannover, Germany (22.10.–25.10.2024)

	MetalMadrid, Madrid, Spain (20.11.–21.11.2024)
	DCW, Paris, France (27.11.–28.11.2024)
	Tech Industry, Riga, Latvia (28.11.–30.11.2024)
	ISH, Frankfurt, Germany (17.03.–21.03.2025)
	Hannover Messe, Hannover, Germany (31.03.–04.04.2025)

IMPRINT

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