

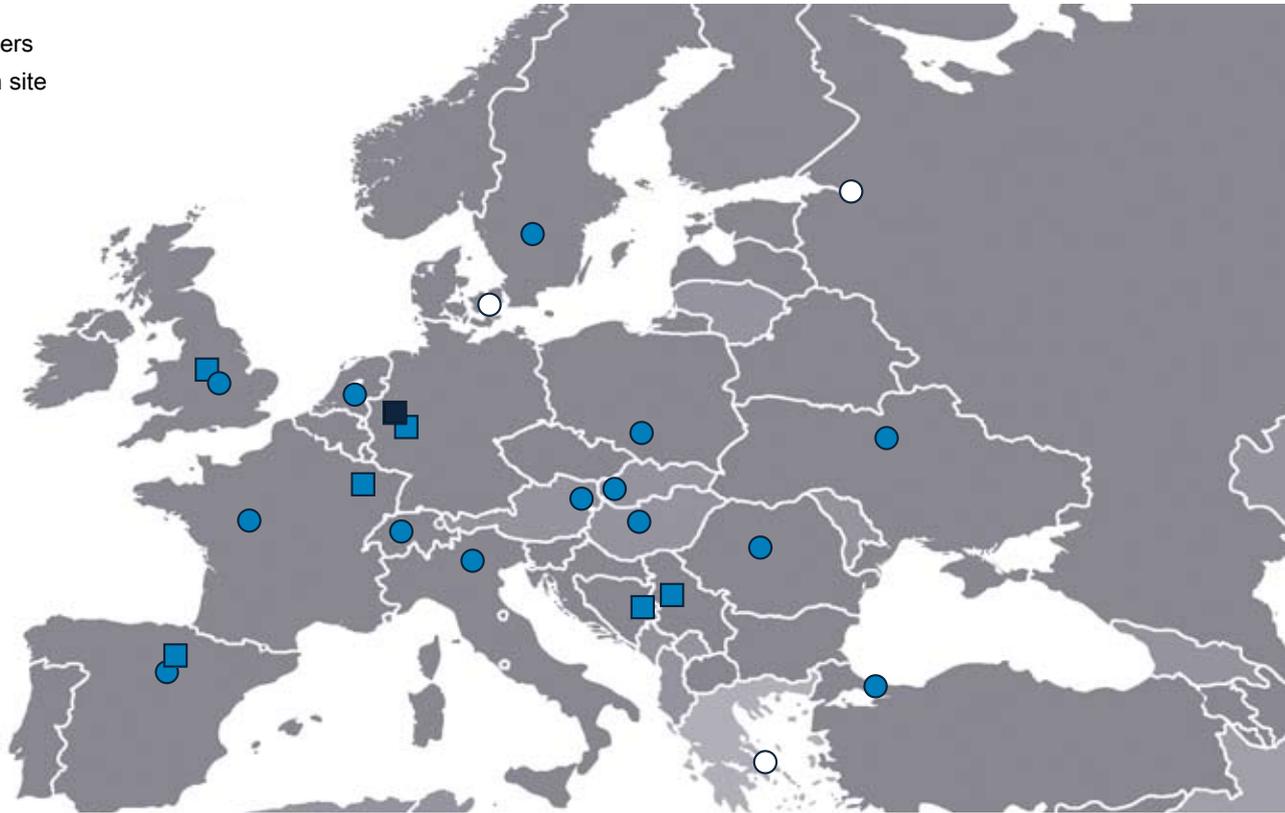


Production expertise from one source  
EMKA Bosnia d.o.o.

Quality managed in Germany



- Headquarters
- Production site
- Subsidiary
- Agencies



# EMKA worldwide

# Production in Europe



Company headquarters Velbert, Germany



Wuppertal, Germany



Henriville, France



Arnedo, Spain



Birmingham, UK



Goražde, Bosnia and Herzegovina



Mionica, Serbia



Pastrengo, Italy

## Sales



Kittsee, Austria



Interlaken, Switzerland



Bourré, France



Veghel, Netherlands



Bedzin (Katowice), Poland



Pastrengo, Italy



Arnedo, Spain



Coventry, UK



Jönköping, Sweden



Sibiu, Romania



Middletown, USA



Çerkesli-Dilovşı (Istanbul), Turkey



Tjanjin, China



Bangalore, India



Kiev, Ukraine

The EMKA GROUP is the world market leader for locking systems, hinges and gasketing that are used in switch and control cabinets. In the sectors HVAC, food technology and transport EMKA ranks among the leading manufacturers of locking technology.

The total range of products comprises 15,000 items that are developed, manufactured, finished and assembled at nine production sites in Germany, France, England, Spain, Italy, Bosnia and Serbia.

Employing 1,600 staff, we are represented locally close to our more than 30,000 customers in 52 countries.



## In-house production also in Bosnia

EMKA has been producing in Goražde since 1989. The company EMKA Bosnia d.o.o. was founded in 2005. The expansion to become the most modern plant of the EMKA group started in 2013. Today 250 technicians, engineers and skilled workers work here with highly flexible working times ranging from one-shift operation 5 days a week to 3-shift operation 7 days a week. Our customers can benefit from a state-of-the-art indoor manufacturing plant on 18,000 m<sup>2</sup> production area.



Zinc die Casting



Injection Moulding



Punching, bending and metalworking



Frictional grinding



Finishing



PUR Sealing foam technology



Surface finishing:  
• Sand blasting  
• Powder coating



Assembly



Logistics

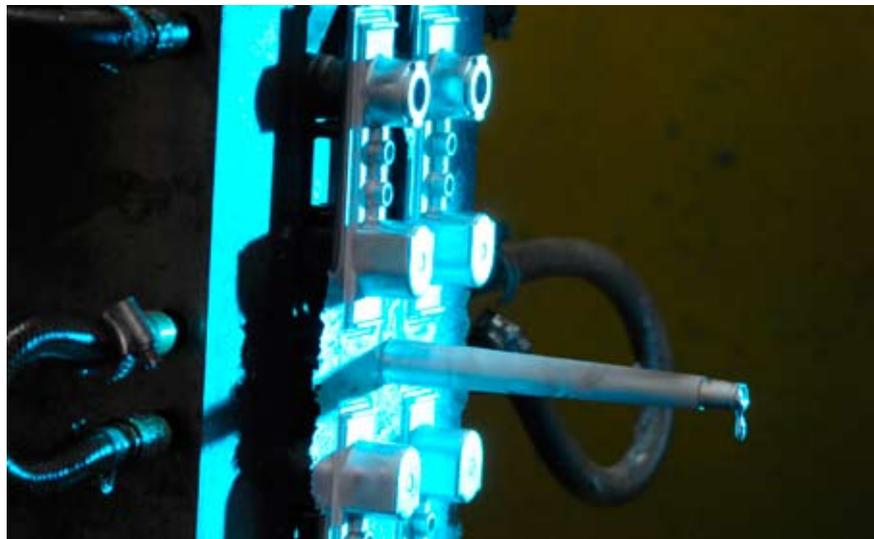
## Range of services

customer requirements from the development to the series production of a product. Controlled standards according to ISO 900 : 2008 and a continuous improvement process guarantee a very high quality level. Highly-qualified long-standing employees stand for comprehensive know-how. Rely on our process stability and our many years of experience in the field of manufacturing. We manufacture for the machine building and automotive, electrical and telecommunications industry as well as for the HVAC sector. We export to Europe, Asia and the US.

Due to our wide range of services we are able to meet individual

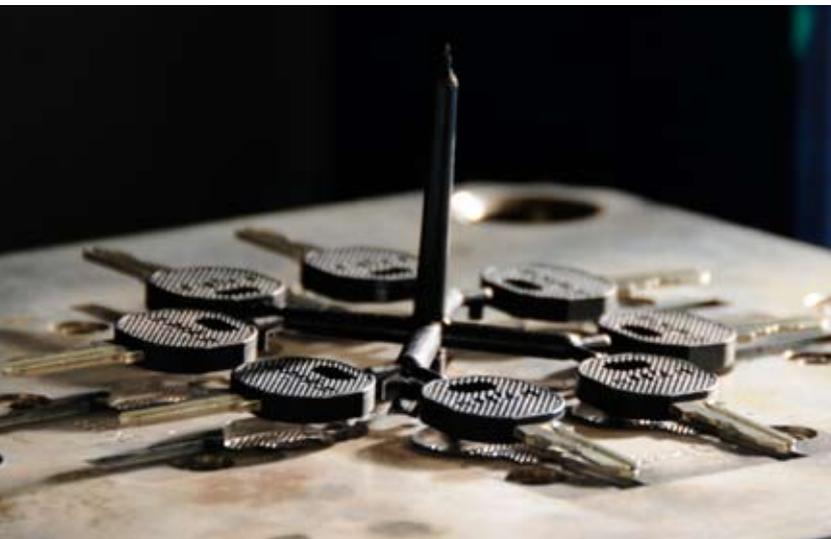


Zinc die Casting



The machinery includes 20 automatic zinc die casting machines of the company FRECH with a clamping force of 20 to 200 t. Here high-quality zinc die cast parts are made of the zinc alloy Z410 and Z430 weighing between 0.001 kg to 1.5 kg.

Subsequent mechanical work steps, surface finishing, the application of PUR sealing gaskets or individual prints by pad printing and the assembly of component groups complete the range. All services - from the production of the tools to the delivery of finished parts to the customers - are provided by EMKA Bosnia from one source.



# Injection Moulding



The 22 automatic injection moulding machines of the company ARBURG have clamping forces from 25 to 500 t and guarantee reliable production at continuously high quality.

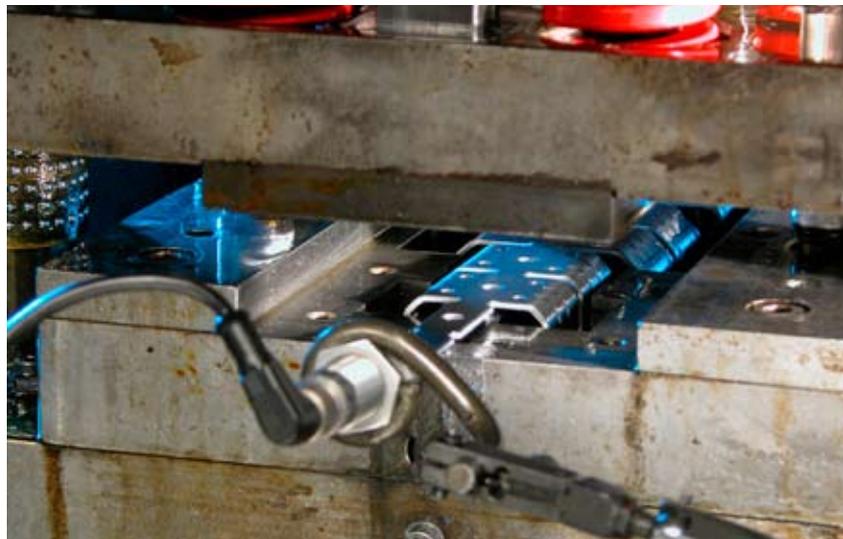
The use of different pellet grades - e. g. transparent, rubber-like to high-strength and chrome plating capable - results in a wide range of products for customer parts, the parts weighing between 1 g to 2.5 kg. The feeding of the machines with the necessary pellet grades is done by a central material feeding and drying plant.

The application of PUR sealing gaskets or individual prints by pad printing and the assembly of component groups are also offered.

All services - from the production of the tools to the delivery of finished parts to the customers - are provided by EMKA Bosnia from one source.



Punching, bending and metalworking

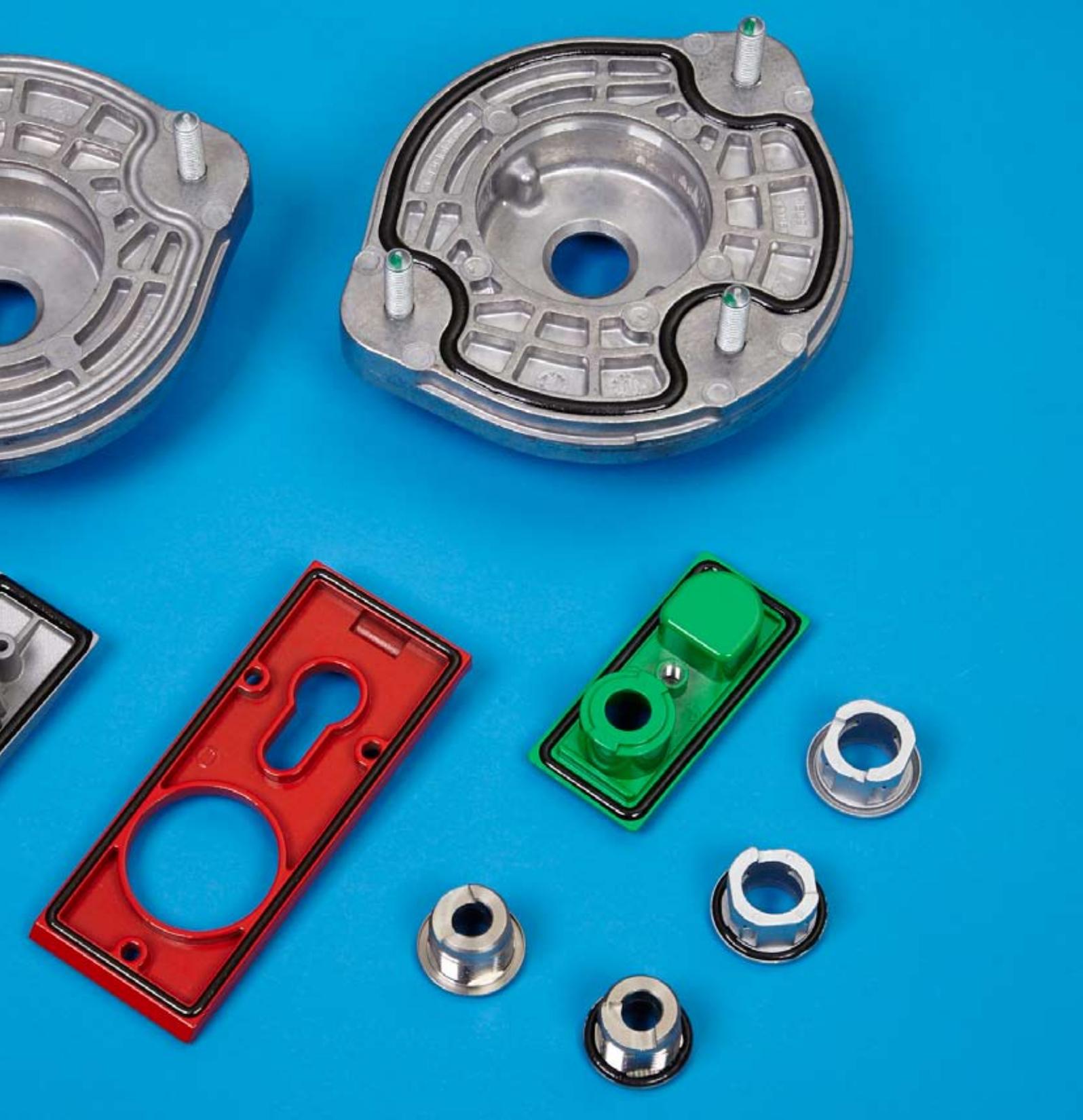


The production area punching, bending and metal working includes 8 eccentric and 5 hydraulic presses with press capacities between 5 and 100 t. A 130 t automatic punching press with program register and tool protection system complete the range of machines. On these machines most diverse punch and bending parts can be made of steel, stainless steel, aluminium and brass.

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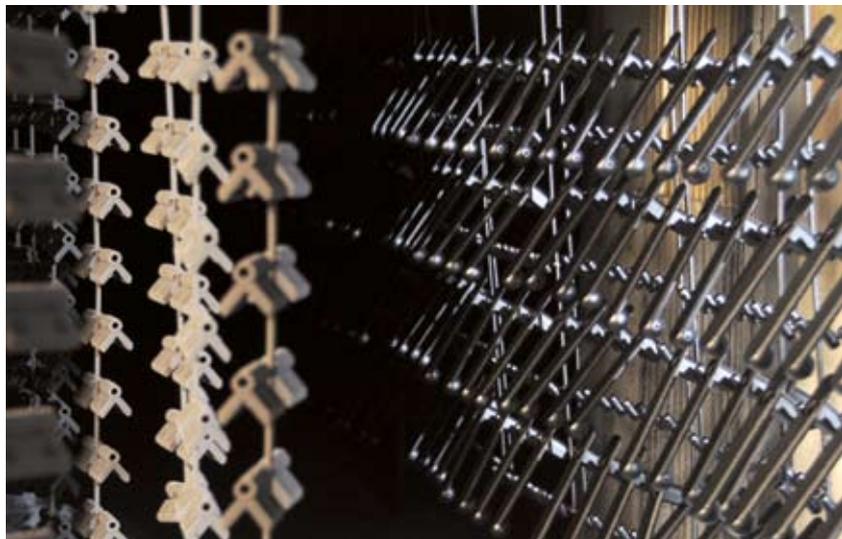
PUR sealing foam technology



In order to achieve a high IP rating, the application of a seal of undetachable 2-component sealing foam has stood the test of time. To make the PUR foam seals, a CNC-controlled robot with a special mixing and dispensing head is used. High flexibility and a high degree of automation are achieved by an upstream pallet transportation system.



Surface finishing



For surface finishing the processes frictional grinding and powder coating are employed.

For metal parts, universal slide grinding machines are used for chamfering edges, for the polishing of surfaces as well as for creating coatable surfaces.

All conductive products can be partially or fully coated with epoxy polyester powder. At a baking temperature of 140° to 200°, the powder is liquidised and stoved. Layer thickness measuring and adhesion tests guarantee a continuously high quality. Matt, smooth and glossy varnishes are available in almost all RAL colours.

Benefits of powder coating versus liquid coating:

- Better finish quality
- Significantly more impact and abrasion resistant
- More chemically resistant



Finishing and assembly



The finishing on plastic or metal parts can include the following processing steps:

- Grinding
- Sand blasting
- Polishing
- Drilling
- Threading
- Processing on rotation parts

At ergonomically and functionally designed work stations the assembly of single parts up to sophisticated component groups can be done. For this purpose special assembly fixtures as well as air-operated power wrenches and wobble riveting machines are provided. All packing regulations are complied with as a matter of course. We are pleased to mark the products in addition according to customer requests - with e. g. logo print.

# ZERTIFIKAT



für das Managementsystem  
nach DIN EN ISO 9001:2015

Die regelwerkskonforme Anwendung wurde nachgewiesen und wird gemäß Zertifizierungsverfahren bescheinigt für das Unternehmen



**EMKA BOSNIA d.o.o.**  
Drinske brigade bb  
BiH – 73000 Goražde

## Geltungsbereich

**Herstellung, Verarbeitung und Vertrieb von Kunststoff – und Druckgussteilen sowie deren Kombination: Kunststoff & Zinkdruckguss; Zinkdruckguss & Kunststoff; Montage von Komponenten und Zubehör für alle industriellen Bereiche.**

**Durchführung von: Umformen und Stanzen von Metallteilen; elektrostatische Beschichtung; Dichtungsschäumen in 2K Technik.**

Zertifikat-Registrier-Nr.: TIC 15 100 169764

Gültig bis: 2019-12-12  
Gültig ab: 2016-12-13

Audit Bericht Nr.: 3330 2U6I A0

Diese Zertifizierung wurde gemäß TIC-Verfahren zur Auditierung und Zertifizierung durchgeführt und wird regelmäßig überwacht.

TÜV Thüringen e.V.  
Zertifizierungsstelle für  
Systeme und Personal



Jena, 2016-12-13



Originalzertifikate sind mit  
seinem Hologramm versehen

# CERTIF

for the management  
according to ISO 9

The proof of the confor  
furnished and in accorda  
for the company



## Scope

**Production, processing and combination: plastic and zinc. Installation of components a sealing technology for all inc and stamping for metal parts**

Certificate Registration No.: TIC

Audit Report No.: 3330

This certification was conducted in ac  
is subject to regular surveillance audif

TÜV Thüringen e.V.  
Certification body for  
systems and personnel



Original certificates  
are branded with a hologram.

## Quality assurance

# ICATE



nt system  
001:2015

forming application with the regulation was  
nce with certification procedure it is certified

**EMKA BOSNIA d.o.o.**

Drinske brigade bb  
BiH – 73000 Goražde

sales of plastic and diecast parts and their  
c diecasting; zinc diecasting and plastic.  
nd accessories for modular shutter-hinge and  
ustrial applications. Implementation of: forming  
, electronic coating, gasketing in 2K technology.

15 100 169764

Valid until: 2019-12-12  
Valid from: 2016-12-13

30 2U6I A0

accordance with the TIC auditing and certification procedures and  
ls.



Jena, 2016-12-13



Since 2004 EMKA Bosnia d.o.o. has been certified by German Lloyd according to DIN EN ISO 9001. Test devices and test machines for the initial sample testing and incoming goods inspection are as much a part of a proper quality assurance in compliance with the certification as is the in-process control.

- salt spray tests
- life cycle test stands
- spectrum analyses
- hardness and density index tests
- structural examinations

Due to the close network of the EMKA manufacturing sites further testing methods are available - e. g.:

- static and dynamic component inspections



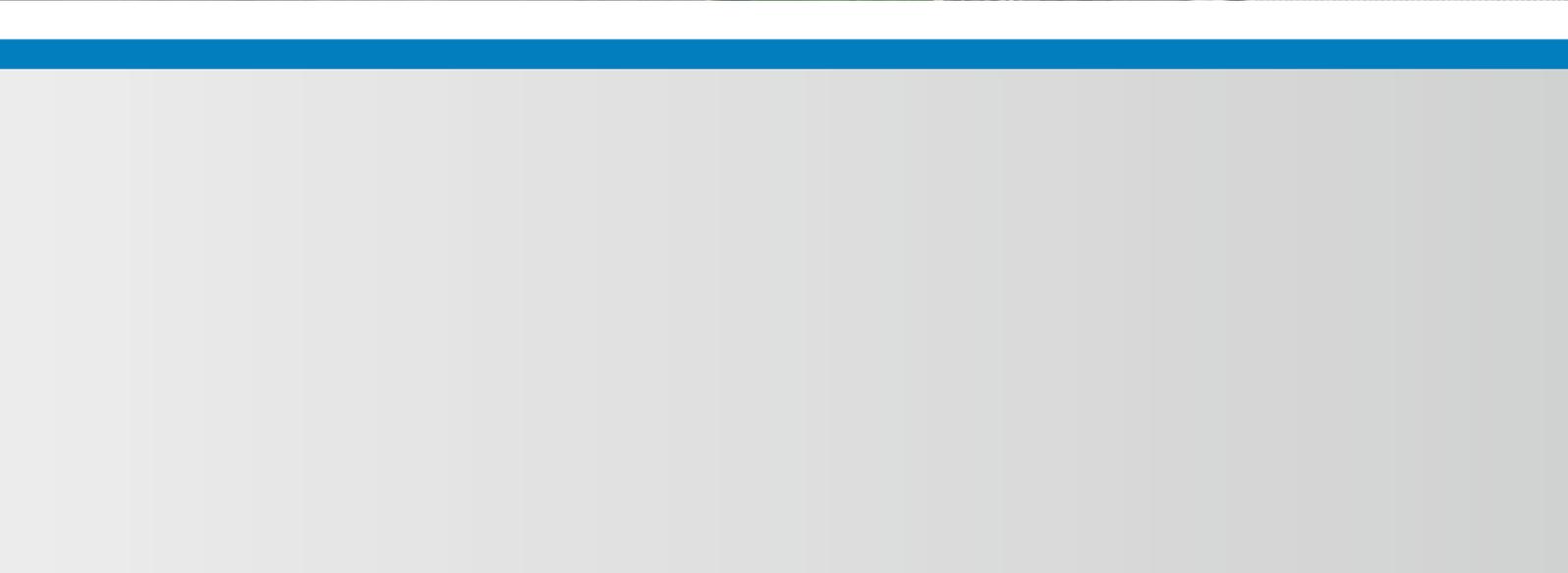
Logistics



There is daily inter plant transportation between Goražde and the central warehouse in Velbert, Germany. In addition, the execution of deliveries to customers and branches is effected by road, sea or air freight. High delivery service and certified fast logistics are a decisive competitive advantage today. Short delivery times of single parts to ready-to-install component groups are further substantial arguments for the production by EMKA Bosnia.



Aerial picture of EMKA Bosnia d.o.o.



# Subsidiaries, country representations and agencies\* worldwide



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