

EMKA ALUMINIUM

Production competence from one source



About EMKA Production

EMKA Production is the business unit of the EMKA Group that was decoupled from the core business of the fitting parts sector at the beginning of 2021 in order to operate on the market with a clear profile as a „partner to industry“. Customers from a wide range of industries thus have the opportunity to use EMKA's entire manufacturing and service spectrum for their products.

EMKA has 10 own production sites worldwide in Germany, Spain, France, England, Bosnia, Serbia, China and recently also in India. In 2020, these plants were active throughout, so that as a supplier - also for system-relevant industries - we were able to ensure at all times that there were no supply bottlenecks for our customers at any time. EMKA also manufactures products from various materials, whether as individual components or as ready-assembled and in-house tested assemblies.

EMKA Production does not see itself as a contract manufacturer, but rather as a process partner. Our consulting services begin with feasibility studies and the joint development of moulds, tools as well as fixtures for your subsequent production.

The individual parts and / or assemblies manufactured for you are then tested and certified in our accredited test laboratory in accordance with your requirements. For worldwide (JIT) delivery, we are available for packaging and logistics concepts including customer warehouses as well as for seamless spare parts service.





Henriville, France



Birmingham, UK



Arnedo, Spain



Goražde (Plant 1), Bosnia-Herzegovina



Goražde (Plant 2), Bosnia-Herzegovina

- Company headquarters
- Production site
- Subsidiary
- Agency



Company headquarters Velbert, Germany



Bhilai, India



Wuppertal, Germany - EMKA Aluminium



Tianjin, China



Mionica, Serbia

EMKA worldwide

2,100 employees

Own production at 10 international locations

Represented in 55 countries worldwide

More than 16,000 catalog products

More than 14,000 special products

More than 36,000 customers worldwide

Aluminium by EMKA Production

Facts EMKA Aluminium

Since 2021 part of the EMKA Group

Production in Wuppertal, Germany
and Pithampur, India

80 employees

5,000 m² area under roof

5,5 Mio. parts per year

2,500 t of aluminium alloys processed

3 melting furnaces
(2 tilting furnaces and 1 shaft furnace)

Fully automatic robot removal
with deburring press

Own water treatment

Certified according to ISO 9001:2015
and ISO 50001:2011

Services

Application consulting

Project planning

Development and Engineering

Mould and tool making

Alloy selection
(special alloys with heat treatment)

Tool design
(moulds, dies, punching tools)

In-house simulation calculations for
die casting and hot forming processes

Quality methodology on the entire
product life cycle

Prototyping to EMPB

Series production

Surface treatment

Post-processing

Sub-assembly production

Certification in the EMKA test laboratory

Logistics

Why Aluminium?

High stability with low weight

Low wall thicknesses possible

Good electrical conductivity as well as
very high thermal conductivity

High process stability

Good convertibility of complex parts

Corrosion and weather resistant

Low tolerances

Excellent possibilities for
mechanical finishing

Optimal material utilization

Production of small and large series
possible

Aluminium die casting

Extensive, long-standing experience with the requirements of a wide variety of industries and a machine park consisting of nine die casting machines enable EMKA to produce a wide variety of geometric shapes in common aluminum alloys from 50 g to 12,500 g part weight. Subsequent machining is performed internally on 15 machining centers of various sizes.





Technical details

9 machines for aluminium die casting

Manufacturers: Frech, Bühler, Itaipresse

Clamping forces from 220 t up to 1,250 t

15 machining centres

Max. tool clamping area:
1,500 mm x 1,500 mm

Part weight: 50 - 12,500 g

Aluminium forging

High-quality products for special stresses - with low weight at the same time. This is the best way to describe the spectrum for the aluminum production sector.

Our screw press can produce aluminum forgings with a unit weight of up to 4,000 g. In addition to lathes and machining centers, an extensive range of machinery is available for mechanical processing. The multitude of further manufacturing processes, such as PUR sealing foam technology and surface finishing, enables EMKA to realize the most complex requirements.

The assembly of entire subassemblies is also possible.



Technical details

2 machines for aluminium forging

Manufacturers: Siempelkamp, Bêché

Part weight: up to 4,000 g

Pressing force: 800 t and 1,200 t

Forging alloys:
AlMgSi0.5 / AlMgSi1 / others on request

Aluminum friction welding

The rotational friction welding process used at EMKA is designed for rotationally symmetrical weld cross sections with centered center of gravity of the rotating part.

The combination of extruded tubes, forged aluminum parts and final friction welding results in non-porous, high-strength joints without the addition of filler metals. The weld bead that typically results from the process can be turned over in a subsequent operation. Further work steps are carried out on our machining centers. There is also the possibility of joining different types of materials.





Technical details

1 machine for friction welding

Manufacturer: KUKA

Diameter: up to 90 mm

Welding force: up to 20 t

Total length of the parts: up to 1,600 mm

Suitable for:

- Aluminium
- Copper
- Steel / various alloys

Fittings made of aluminium

In addition to the well-known materials zinc, plastic and stainless steel, EMKA also relies on products made of aluminum. With its unique vertical range of manufacture, EMKA can thus respond to every customer requirement and offer the right material for the respective application.

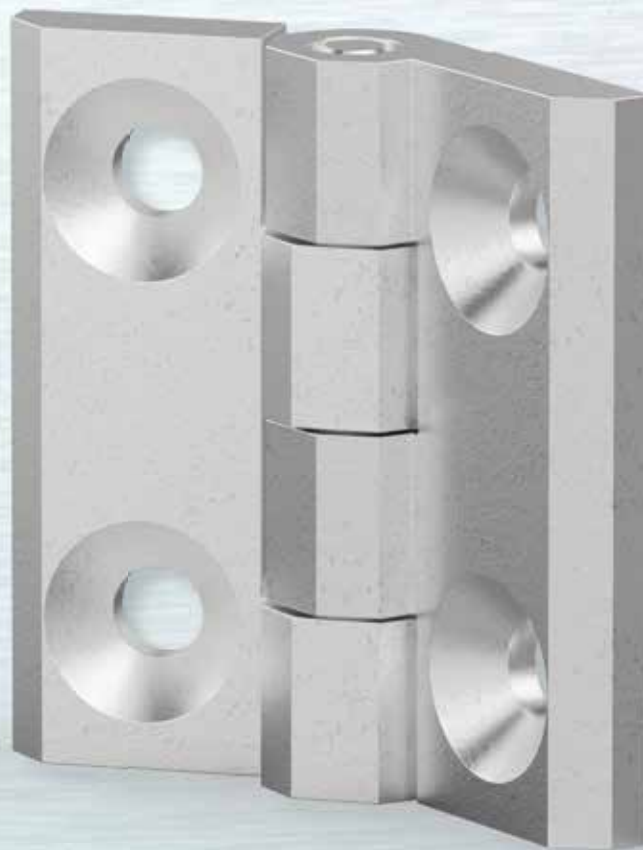
You have an idea for a product made of aluminum?

Contact us and together we will work out a customized solution for your application.

**Hybrid compression latch
with aluminium housing**



External hinge
made of aluminium



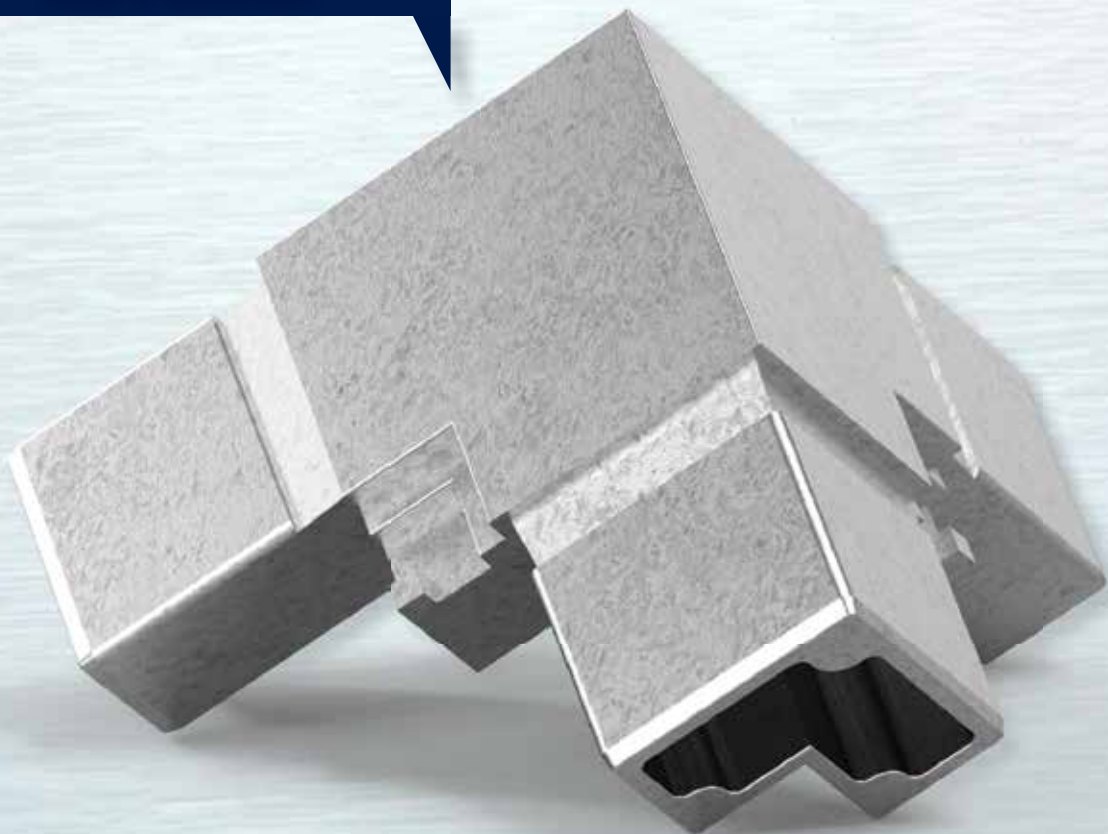
Partner of the industry

Our high-quality products, individually developed for your requirements, make us a unique partner for your demanding tasks.

We develop, design and produce according to customer requirements. Our extensive engineering capabilities, combined with modern technology, provide complex, customized solutions, even for the most difficult requirements.

Current projects include, for example, die-cast aluminum parts for an e-bike drive and forged components for pedestrian protection systems.

**Corner connector for HVACR cabinets
made of aluminium**



3D Unit connector
made of aluminium





Quality assurance in our own accredited test laboratory

EMKA equals quality: This has been proven once again by the successful audit by the German Accreditation Body (DAkkS).

The scope of DIN EN ISO/IEC 17025:2018-03 covers a wide range of simulations and test methods performed by the EMKA test laboratory team. This confirms: The EMKA test laboratory fulfills not only the requirements of the quality management system but also all technical prerequisites. It also has the high level of technical competence to perform independent tests in accordance with the current standard. Due to the affiliation of the DAkkS to the International Laboratory Accreditation Cooperation (ILAC), the accreditation is also internationally recognized.

Since the end of 2020, quality assurance has been carried out in an even larger area: The expanded EMKA test laboratory now has 600 m² of significantly more working space and even more laboratory equipment.

The high quality and product standards are also guaranteed by an excellent manufacturing know-how and by the certified process control according to ISO 9001.



DNV-GL

MANAGEMENT SYSTEM ZERTIFIKAT

Zertifikat Nr.: 194702-2019-AG-GES-0465	Datum der Erstzertifizierung: 14. Februar 2019	Gültig: 24. Februar 2019 - 15. Februar 2022
	Datum der nächsten Zertifizierungstermin: 15. Februar 2020	
	Datum der letzten Rezertifizierung: 24. Januar 2019	

Hiermit wird bescheinigt, dass das Unternehmen

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32, 42551 Velbert, Deutschland
sowie die im Anhang aufgeführten Standorte

ein Qualitäts-Managementsystem in Übereinstimmung mit dem folgenden Standard
eingeführt hat und anwendet:

ISO 9001:2015

Dieses Zertifikat ist gültig für die folgenden Produkt- oder Dienstleistungsbereiche:

**Entwicklung, Herstellung und Vertrieb von mechanischen / elektronischen
Verschluss- Systemen; Scharnieren, Kunststoffspritz-, Automattendrehteilen
und Sonderanfertigungen. Management des Herstellungsprozesses von
Dichtungen und Druckgussteilen.**

Ort und Datum:
Essen, 28. Februar 2019

Zertifizierungsstelle:
DNV GL - Güterkraft Assurance
Schießinghof 14, 42529 Essen, Germany

Zertifikatsführer:
Thomas Bick
Leiter Zertifizierungsstelle

Bei Verlust, gestrichle in Zertifikatskopie, gestrichle Bedingungen kann das Zertifikat nicht gültig sein.
DNV GL ist ein DNV-Unternehmen. DNV GL ist ein DNV-Unternehmen. DNV GL ist ein DNV-Unternehmen. DNV GL ist ein DNV-Unternehmen.

DNV-GL

MANAGEMENT SYSTEM ZERTIFIKAT

Zertifikat Nr.: 201129-2019-AG-GES-0465	Datum der Erstzertifizierung: 14. Februar 2019	Gültig: 24. Februar 2019 - 15. Februar 2022
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	Datum der letzten Rezertifizierung: 24. Januar 2019	

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