

2011

# Commercial-Vehicles

Customised solutions of the highest quality

© "MAN Truck and Bus"



www EMKA com

# Experience guarantees quality



Let us have your requirements:  
**We will present our solutions made of plastics, zinc die casting, aluminium, stainless steel, etc.**

The manufacturing expertise of the EMKA Group is the basis for high quality standard and customized solutions. EMKA provides a product range from one source at the highest delivery capacity

The latest tools help to develop and to produce a new product on it's way from the idea to the complete product. Customised products are developed through our own engineering departments. High-performance tools support the whole process.



- 1948 Foundation Fa. Paul Oberholz und Söhne. Production of locks and hardware for the cooling industry
- 1965 First supplies of locks and accessories for recreational and commercial vehicles
- 1982 First supplies of interior door releases to the automotive industry
- 1996 Integration to the Zeppenfeld Group of Industry
- 1997 certified as per ISO 9001
- 2008 Integration to the EMKA Group
- Development and engineering of new products at highest stage with Pro/E and CATIA V5
- Process development for series production up to 2 million modules / year
- In-house production our products incl. premium galvanic coatings and adjacent assembly in-house
- Deliveries "just-in-time" directly to the assembly line
- Securing highest quality and function in accordance to the specifications of the automotive industry

# Manufacturing technology provided from one source



## Development engineering

- CAD based product development
- 3D interference and function control
- design models and functional prototypes

## Tool and mould manufacture

- highly qualified staffs
- ultra modern EDM machinery
- engineering and production are adjacent

## Zinc die casting technology

- more than 50 die casting machines (20 t - 315 t)
- making various parts up to 2.5 Kg (5.5 lbs)

## Aluminium die casting technology

- 9 die casting machines (200 t - 1,100 t)
- Making various parts up to 15 kg (33 lbs)

## Cutting technology

- 30 CNC milling machines, lathes, and transfer machines
- capability to produce cross-holes, hexagons etc.

## Bending, punching, and stamping machines

- more than 40 bending, punching, and stamping machines (up to 250 t)
- processing of mild and stainless steel, aluminium or brass

## Processing of all Thermoplastics

- approx. 50 injection moulding machines (30 t - 550 t)
- processing of all thermoplastics

## Gravity die-cast

ready-made surface for anodisation

## Seal technology (foam-in-place)

- fully automated application: captive sealing gaskets sealing up to IP 66 (NEMA 4X)
- extruded profiles

## Surface coating

- 4-zone pre-treatment, powder coating and baking in one production line
- approx. 1,000,000 pcs/month capacity

## Window manufacturing

- customised windows and doors
- with or without frames

## Assembly

- automated assembly
- component manufacturing

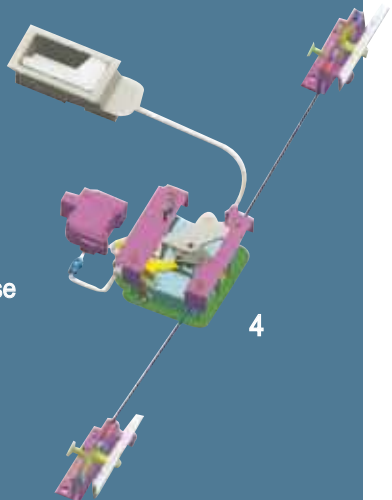


# Systems and solutions made from metal and plastic



Locking set for RV doors

- 1 Locking element
- 2 Exterior lock
- 3 Interior door release
- 4 CATIA view



Exterior lock



Interior lock

System-  
Example

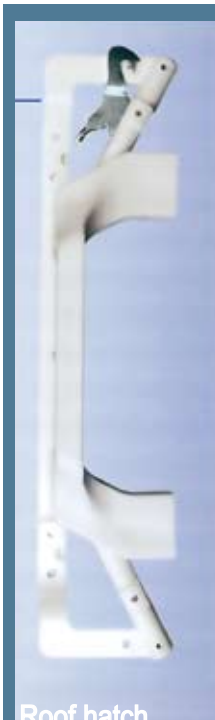
We will find you the best solution

## References:

**Passenger Cars**  
**Trucks**  
**Busses**  
**Mobile Homes**  
**Camper**  
**Commercial-Special- and Railway-Vehicles**

Audi  
 BMW  
 Böckmann  
 Busch-Jäger  
 Concorde  
 Dethleffs  
 Dyn. Nobel  
 Euramax  
 EVOBUS

Happich  
 Hella  
 Hymer  
 Karman  
 Kiekert  
 Land Rover  
 MAN  
 Siemens VDO  
 Volkswagen



Roof hatch



# for the automotive and commercial-vehicle industry



Horse trailer lock backdoor



Stainless steel hinge



- Sealing section
- Rubber profiles
- Edge protector
- Cell rubber
- Moulded rubber parts



Horse trailer exterior lock backdoor



Horse trailer interior lock backdoor



Swingdoor look

Bump stop



Lashing eye for cargo securing



Interior door handel



Spare wheel carrier lock  
VW Touareg



Ferrari-Shifting Gate

Velbert, Germany



Wuppertal, Germany



Bourré, France



Arnedo, Spain



Henriville, France



Birmingham, UK



Goražde, Bosnia-Herzegovina



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