

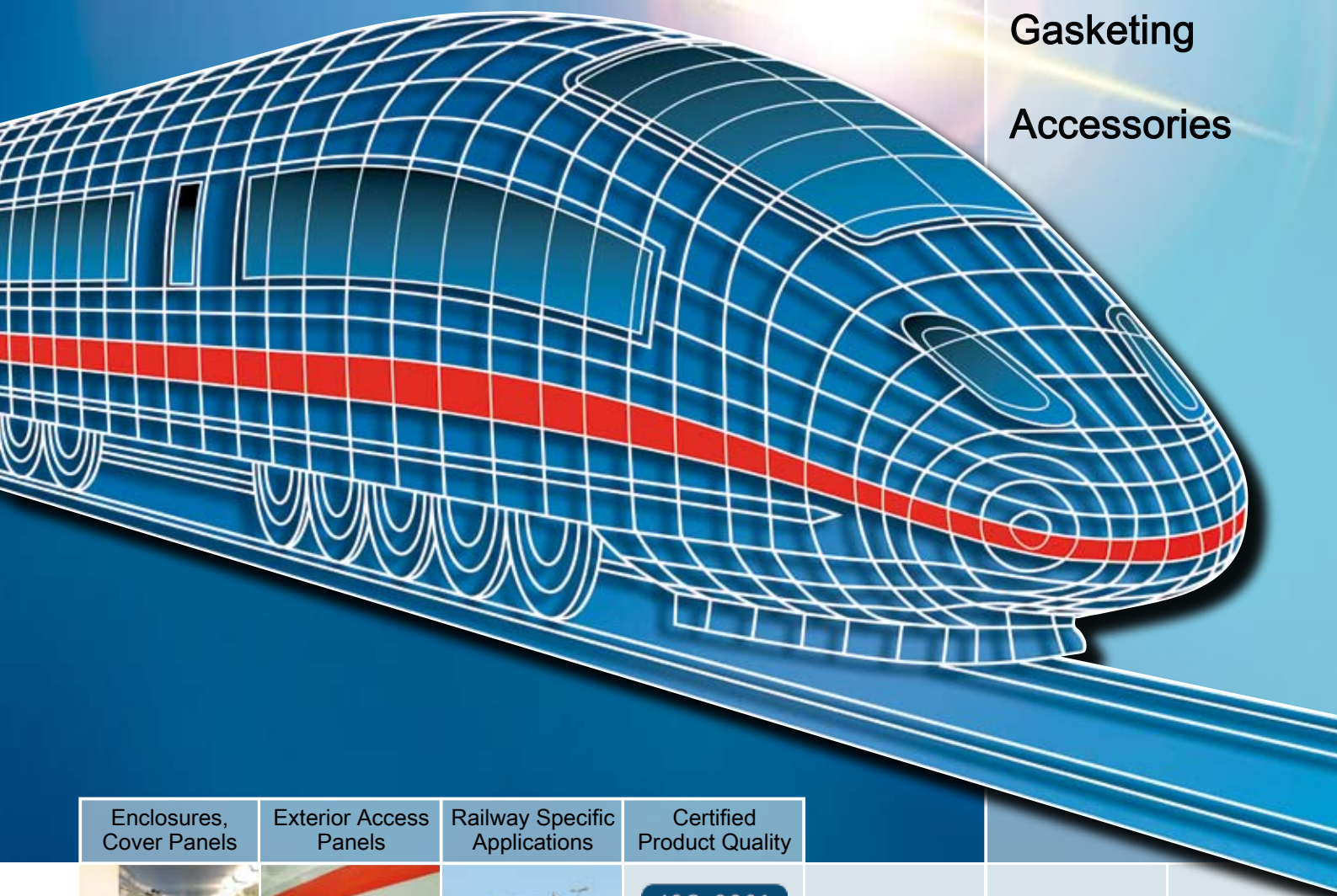
Railway

Locks/Latches

Hinges

Gasketing

Accessories



Enclosures,
Cover Panels

Exterior Access
Panels

Railway Specific
Applications

Certified
Product Quality



ISO 9001

ISO 14001

DIN EN 61373

www

EMKA

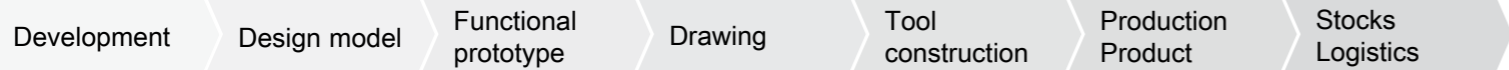
com

Assured quality



EMKA manufacturers a continually expanding range of products for the Railway Industry. Much of the range is modular thus offering the designer and end user many options. We have products that meet the relevant standards like DIN EN 61373 "Railway Applications" or specific fire protection regulations. The quality of tools, machines and processes is documentend in great detail. X-ray technology, profile projectors, spectrum analyzers, tensile and pressure testers as well as the most modern measuring instruments are used in our quality management. We are certified by Germanischer Lloyd for both quality and environmental management to ISO 9001 and 14001.

Manufacturing technology provided from one source



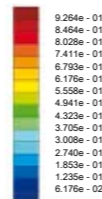
X-ray equipment



200m² (2,000 sq ft.) laboratory for life cycle and endurance tests, IP-rating tests

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:

- 3D onscreen animation including collision control via simulated motion-sequences
- Static FEA analysis
- Design studies, rapid-prototyping models
- Functional prototypes in low volume
- Overlapping data exchange withCAD, CAE, Moldflow, CAM and CAQ
- Verification by test samples, longterm and accelerated tests in ourown laboratories



Using FEA to help optimize product design

Development engineering

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

Tool and mould making

- 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)

Surface coating

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

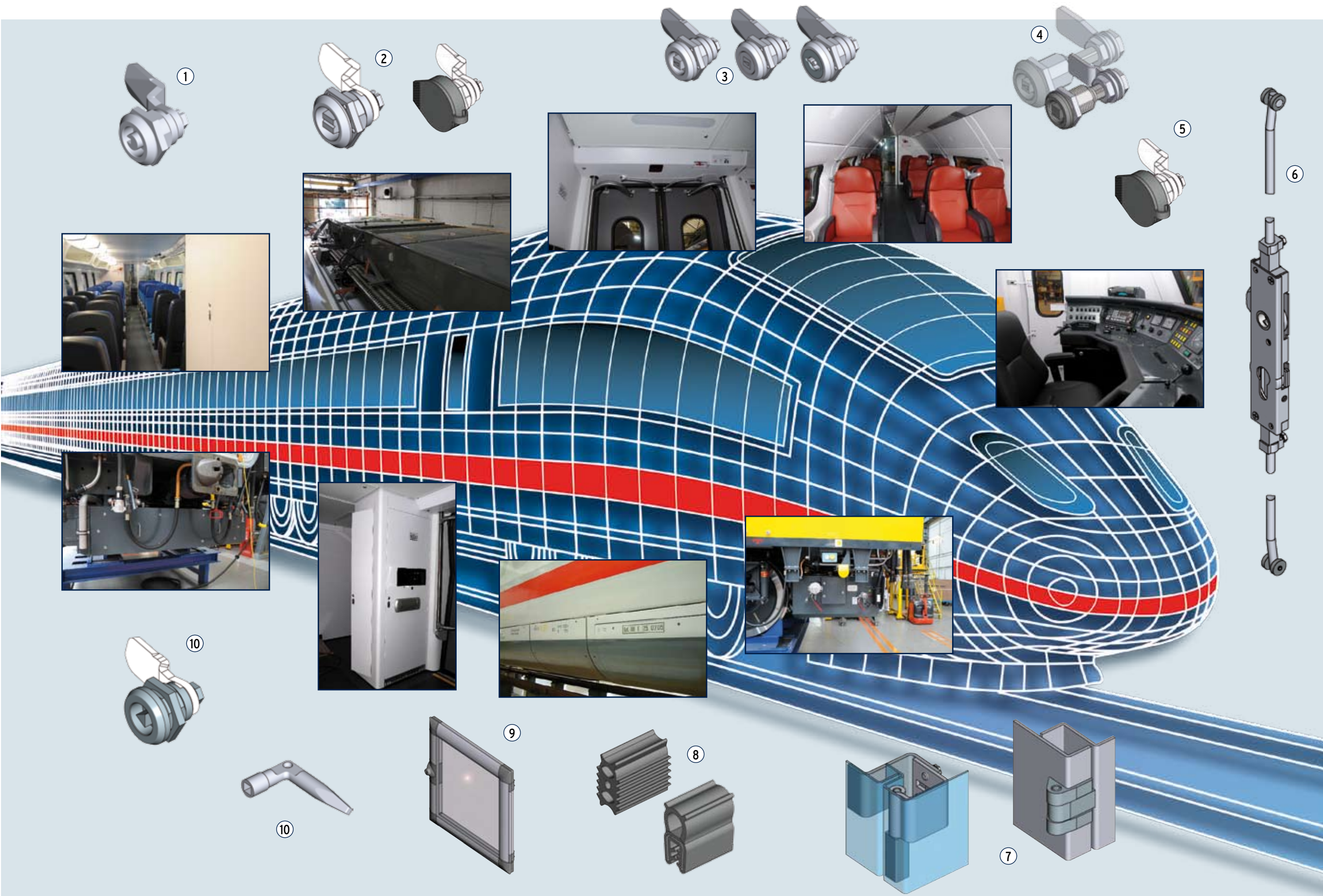
Window manufacturing

- customised windows an doors
- with or without frames

Assembly

- automated assembly
- component manufacturing

Solutions and Applications for the Railroad Industry



Index:

- ① Quarter turns
- ② Quarter turns: standard and railroad versions
- ③ Safety quarter turns
- ④ Compression latches
- ⑤ Quarter turn accessories
- ⑥ 3 point latches: Programm 1068
- ⑦ Hinges
- ⑧ Gasketing
- ⑨ Aluminium windows
- ⑩ Miscellaneous, keys

Applications:

- Locking systems for rail utilities in passenger area with special key cylinder systems and operating inserts.
- Covers for roof top - Heating, Ventilation and Air-Conditioning (HVAC).
- The cover locks in door facility areas with secured inserts or key cylinders.
- Shake proof stainless steel compression latches and hinges for hatches and lids for chassis.
- Fasteners for access panels in passenger areas.
- Locking equipment of switch gear cabinets, power plants and storage boxes in engineers cab.
- Stainless steel compression latches and hinges.
- Rod controls and door locking systems; Display- and inspection windows.
- Vibration-proof latches according to DIN EN 61373: railroad applications category 1, class B (= ultimate standard).
- Gaskets and edge protection according to special flammability standards.



Velbert, Germany



Wuppertal, Germany



Bourré, France



Henriville, France



Birmingham, UK



Goražde, Bosnia-Herzegovina

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