EMPL

Natural Disaster Management

EMPL – A STRONG BRAND

EMPL has gained experience in manufacturing special purpose vehicles for decades. By supplying tailored vehicle solutions to all different kind of customers we constantly brought our know-how to a higher level. EMPL products have proven their value in the desert of Arabia just as well as in the jungles of Asia and South America, the steppes of Africa and the frozen wastes of the North. Due to constant product optimisation and the implementation of innovative ideas, EMPL became the preferred partner of the European truck industry when it comes to logistic applications.

For EMPL, topics like research and development have a high priority. Our engineering team is continuously optimizing our designs and manufacturing processes to bring our products to a higher level.

SOLUTIONS FOR NATURAL DISASTER MANAGEMENT

Embankment construction

EMPL designs allow the users to build dams rapidly. Vehicles are equipped with features like stabilizers to operate even in rough terrain.

Mobile water pump stations

EMPL design for vehicles equipped with high performance pumps: The pump stations are used for water supply in order to battle major fires as well.

Hose-laying vehicles

EMPL long distance water supply systems: Off and on road solutions to transport water over kilometers.

Cleaning after floods

Knuckle boom crane are used with crane winch and/ or clamshell bucket grab to dispose heavy obstacles and soil from flooded areas.

Heavy load cranes

Heavy load cranes in combination with special bodies are used to lift obstacles and transport them away from the disaster area.

Personnel and Cargo Carrier

EMPL personnel and cargo carrier helps evacuating people safely and quickly from dangerous areas. Thanks to the torsion free technology the driver can operate in heavy off-road terrain as well as on normal roads or in deep water areas.

Rapid intervention – Technical rescue vehicle

The outstanding offroad performance of Mercedes trucks as well as the special integration of EMPL bodies allows those vehicles to enter areas where no usual vehicles can fulfill their tasks.

EMPL Tippers

EMPL tippers support the client in moving heavy rock material or any other heavy load that often appears after a flooding. The design will be made exactly to the customer's needs.

Load Handling System with
Tank Bodies for water and fuel supply and turntable trailer

EARTHQUAKE RESCUE VEHICLE

The Earthquake Rescue Vehicle concept was developed by EMPL in 2010, together with our customer, the Chinese Earthquake Administration. The aim of this vehicle concept was to have a rapid reaction force that is able to save lives in earthquake affected housing zones. It was necessary to use a truck chassis, which is able to operate in extreme off road conditions, like destroyed urban areas.

The equipment is generally according to the customer's choice, needs and budgetary possibilities. EMPL will act as an adviser according to our experience. Generally recommended are floor or ground radar systems that allow the crew to detect buried people as well as tools for cutting concrete, metal and all kind of building materials as well as lifting tools.

At first the vehicles base was a MERCEDES BENZ UNIMOG chassis with 4 wheel drive. The Chassis was equipped with a special EMPL torsion free truck body, that can store all the rescue equipment. The cab offered space for 3 crew members. In the second step, to be more independent from truck manufacturers, EMPL realised a project (again for China) on a MAN TGM, also 4 wheel drive. The big advantage here was the bigger cabin with space for 6 crew members.

SOLUTIONS FOR FIRST AID

Unfortunately, natural disasters require a high level of medical support. EMPL´s wide range of products, reaching from simple 6 people casualties transport to highly sophisticated emergency doctor vehicle, help the customer care for the people and to save lives.

EMPL gained experience by supporting European and worldwide armies in developing individual solutions. All those designs met exactly the complex requirements of the different customers and allowed EMPL to become one of the world´s leaders in producing high mobility rescue solutions.

Ambulances

The ability to operate in heavy off-road terrain was proven several times. Such as on the G Wagon:

Casualties Capacity: 1 -4
Staff: 1-3

The technical and medical configuration will be chosen according customers choice and needs. EMPL will recommend the proper equipment and help the customer to find the best solution for his requirements.

To give our customers more flexibility in their operations, we developed an interface that can be installed on different trucks, that allows using the ambulance body on many different truck types – the so called interchangeable system.

The Austrian Army uses UNIMOG and MAN TGS with the same ambulance shelter.

Medical Shelters

The EMPL medical shelter fulfills the highest requirements for medical treatment in the field. Generally these shelters can be attached to a 3 or 4 axles Truck.

Transportation can be done by:

- Torsion free container frame
  (Shelter can be removed and put to ground, requires a heavy external lifting device)
- Fixed mounted shelter in torsion free execution
- Shelter mounted on flat-rack
  (Truck is equipped with load handling unit that lifts the flat track with shelter to or off the ground)

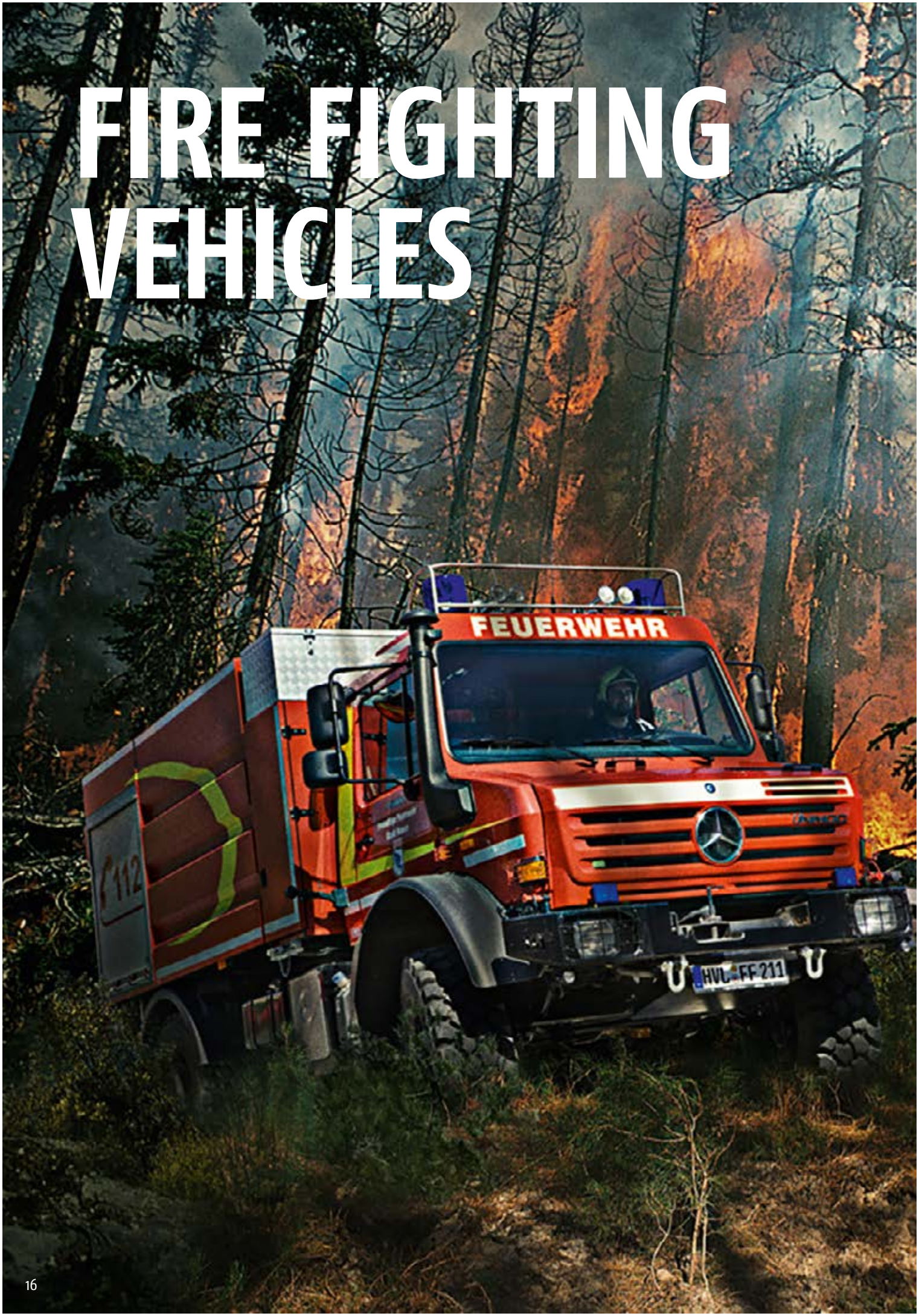
The interior of the EMPL medical shelters can be individually designed according customer's choice and needs e.g. intensive care unit, x-ray unit, surgery unit, and many more.

RECOVERY VEHICLES

Maximum efficiency and enough power in every situation. Recovery of buses, trucks, semi trailers and other vehicles worldwide approved under harsh conditions.

- Optimized and solid
- Maximum winch capacity for a safe and fast recovery
- Recovery and towing of every wheeled vehicle

FIRE FIGHTING VEHICLES



Fire Fighting Vehicle for off-road

All-wheel-drive chassis with EMPL body enables outstanding off-road capabilities and is the backbone for offroad fire fighting applications.

Protection rails to prevent mechanical damages and a heat protection for the electrical/brake system are available.

HAZMAT

EMPL hazardous material vehicles - tailor made for your general and individual HAZMAT and CBRN-threats (chemical, biological, radiological, nuclear).

Generator systems

Almost every operation requires a high amount of electricity. The EMPL generator System Truck is a very compact but effective solution to provide all the necessary electrical power.

„Perfect solutions for your challenges, even in the most difficult cases.“

Cargo Body with Crane

Troop Carrier

Troop Carrier

Swap Body

Load Handling system with CHU

Load Handling System with Flat Rack

Fuel Tank Body

Fuel Tank Body with Trailer

Medical Rescue Vehicle for major accidents

Combined Emergency Doctor and Rescue Vehicle

Rapid Intervention Vehicle, RIV

Medium Fire Fighting Vehicle

Pumper 20000

Tank Semi-Trailer with 40000 litre water tank

Breathing Apparatus Vehicle

HAZMAT

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