



EMPL Interchangeable Body System

Economic * Safe * Flexible



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Empl Interchangeable Body System

Description

- Several different bodies suitable for one and the same truck chassis (Fig. 1+2)
- One and the same body can be used for different types of truck chassis (Fig. 3+4)
 - On all off-road and on-road vehicles
 - On chassis of any truck manufacturers
 - On trucks with air suspension or mechanical suspension system
- System is suitable for 2 to and 5 to military payload
- Transport of bodies within an army base, between facilities or even internationally by air or train on special three-axle trailers (Fig. 5+6)

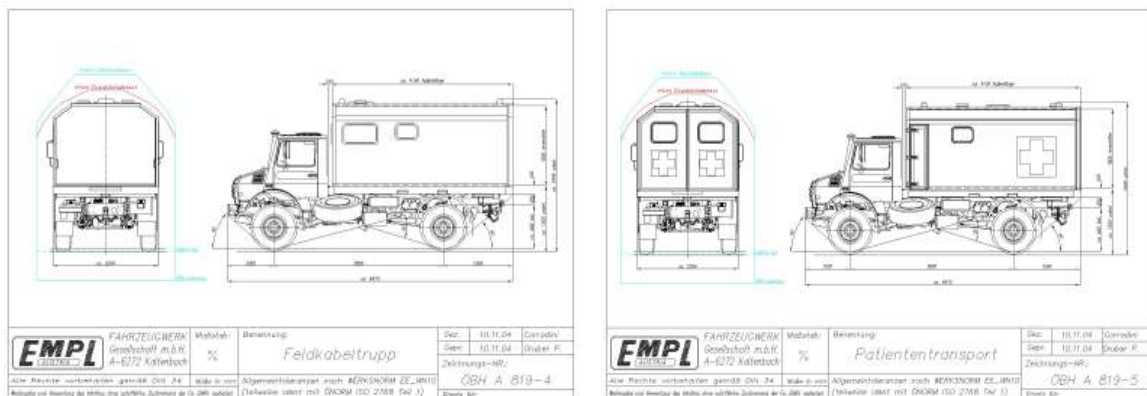


Fig. 1+2: UNIMOG with an interchangeable EMPL Shelter & Ambulance Body



Fig. 3+4: Interchangeable troop carrier mounted on an UNIMOG, MAN & Iveco



Fig. 5+6: EMPL special low bed trailer for transporting the interchangeable bodies

Special requirements fulfilled by the EMPL Body System

- Can be operated internationally: especially in the climatic categories A1 to A3, B1 to B2 as well as C0 to C1 according to STANAG 2895
- Transport on international railway routes possible
- No corrosion: All contact points / surfaces between sub frame and body as well as all guiding elements are made of stainless steel
- Torsion free sub frame (100% off-road capability)
- Free from wear sub frame
- Various equipment can be stowed in individually designed tool boxes, mounted on the truck, independently from the body, as:
 - Tow Bar
 - Fire Extinguishers
 - Chock blocks
 - Pioneer kit
- Safe working conditions guaranteed by sensors, integrated in all body locks, and by an acoustic and optic warning signal in the driver's cab informing if a body lock is not secured properly (Fig. 7+8)
- Intelligent interface (Fig.9) for the operation of:
 - Electro-hydraulic tail lift
 - Electric equipment
 - Heater & A/C Unit
 - Air tools



Fig. 7+8: Information on open locks via a warning signal and sensors



Fig. 9+10: Operation interface

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Advantages

- Economic:
 - Reduction of cost (less chassis are required)
 - Life cycle of the body: 25-30 years, the same body can be used over 2-3 truck generations
- Safe:
 - Sensors and warning signals
 - Special design of the body type "troop carrier" (tested in several separated test series)
- Easy:
 - easy & fast change-over of the bodies with the help of fork-lift, crane or mechanical lifting winches (Fig. 10-15)
 - easy and space-saving stowing of bodies (can easily be put down on the floor, can be designed stackable)
 - easy to transport with the special trailer, developed by EMPL
- Flexible:
 - Efficient arrangement of the truck fleet, at the same time: better operational readiness
 - Can be operated internationally (transport by rail or air, C130 & C160)
- Individual & extendable:
 - Body mix adjusted to the special requirements of the different army departments
 - Body pool can easily be extended after years, even with new types of special bodies



Fig. 11-16: Easy change-over of bodies

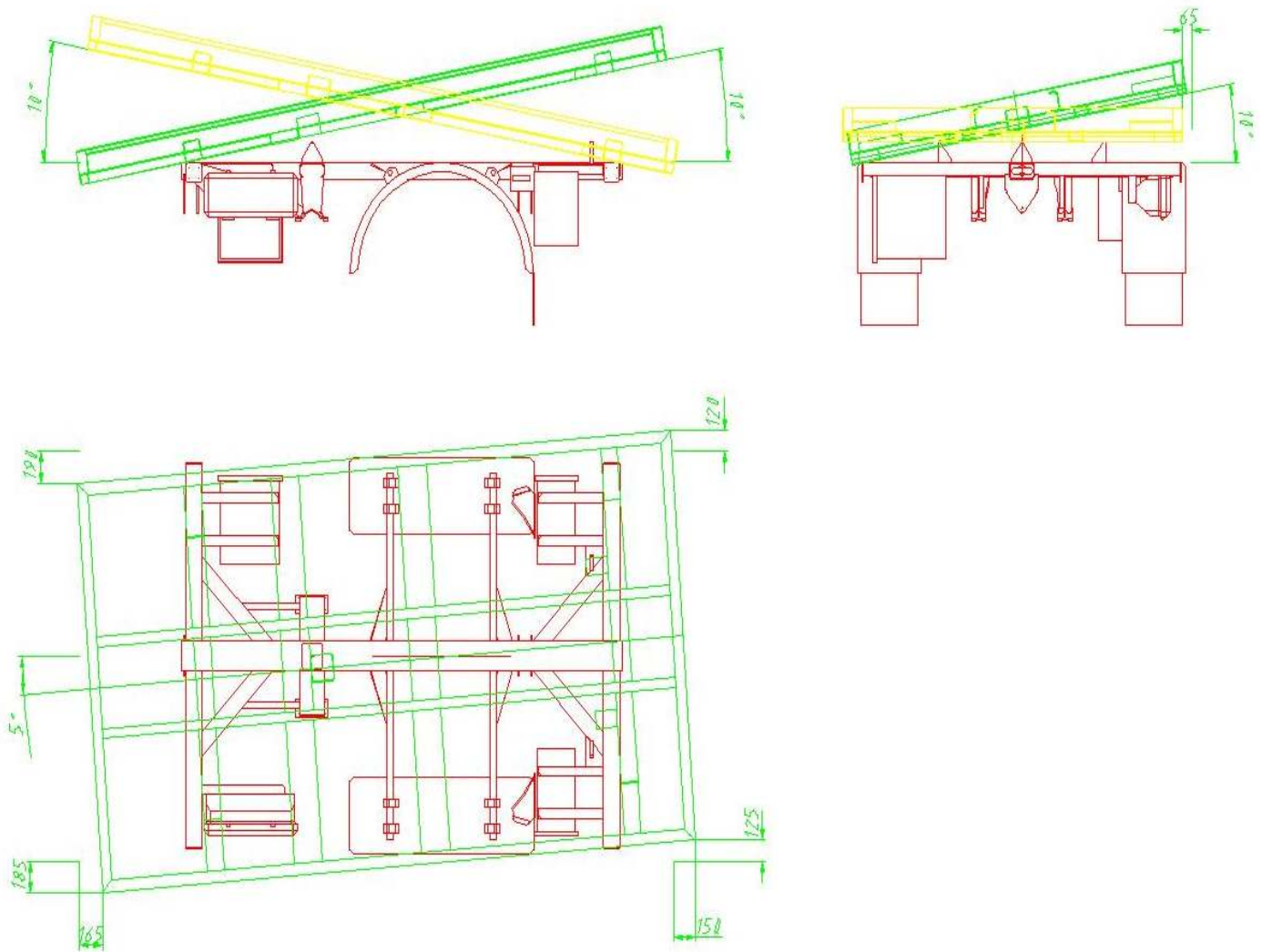


Fig. 17-19: Due to the frame integrated guiding system easy loading and unloading of the interchangeable body is guaranteed, even under severe operational conditions.

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Examples



Interchangeable
Platform Body
mounted on:
Iveco Cargo 100E 18W



Interchangeable
Ambulance
mounted on:
MAN TGM 12.240



Interchangeable
Communication Shelter
mounted on:
MAN TGM 12.240



Interchangeable
Van Type Body with Hydraulic Tailgate
mounted on:
MB UNIMOG U4000



Interchangeable
Troop Carrier
mounted on:
MB UNIMOG U4000



Interchangeable
Platform Body with Hydraulic Tailgate
mounted on:
MAN TGM 12.240

