

# EAV 4500

## AMBULANCE VEHICLE



### **VAN BODY**

The steel constructed body is covered with insulation material filled aluminum plates. The van-body is lifted by a two stage mast lifting system powered by hydraulic cylinders. The van-body provides a lock system for wheelchairs and stretchers. Adequate ventilation is provided inside the van body and windows are provided on the both side walls.

### **EXTENDABLE FRONT PLATFORM**

The extendable front platform is produced by steel profiles and moves with van body to serve the aircraft. The extendable front platform provides an extension by a hydraulic cylinder. The floor is covered with checkered aluminum.

### **CHASSIS**

The chassis is designed by Timsan, produced by steel plates and powered by electric traction motors. The unit is stable against wind forces up to 75 km/h.

### **TRACTION&STEERING SYSTEM**

The traction system is provided by dual direct drive 2x5 kW AC electric motors coupled to planetary wheel hub and powered by 48 V 565 Ah traction battery pack. The electric motors are driven by high efficiency AC controller that enables regenerative braking system. The steering system is

controlled by a an electrical system mounted to the steering wheel that controls electric motors which drives the gears of the wheel hub.

- CONTROL SYSTEM** An accelerator and a braking pedal are provided o the driver's panel which controls the traction system.
- HYDRAULIC SYSTEM** The hydraulic system is provided by an oil tank, hydraulic pump motor, cylinders, lock valves, hydraulic valves, gear type flow divider for stabilizers and some useful accessories. Emergency hand pump is also used in case of engine failure. 4 hydraulic stabilizers are provided for more stability.
- SURFACES** The platform is hot dip galvanized and the other parts are custom painted.
- LIGHTING** 4 lighting fixtures and headlamps in front and rear of the platform, gabary lamps at the corners and a beacon are provided on the van body.
- OPTIONS** Canopy for front platform, heating and cooling system for van body, custom painting, logo application.



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