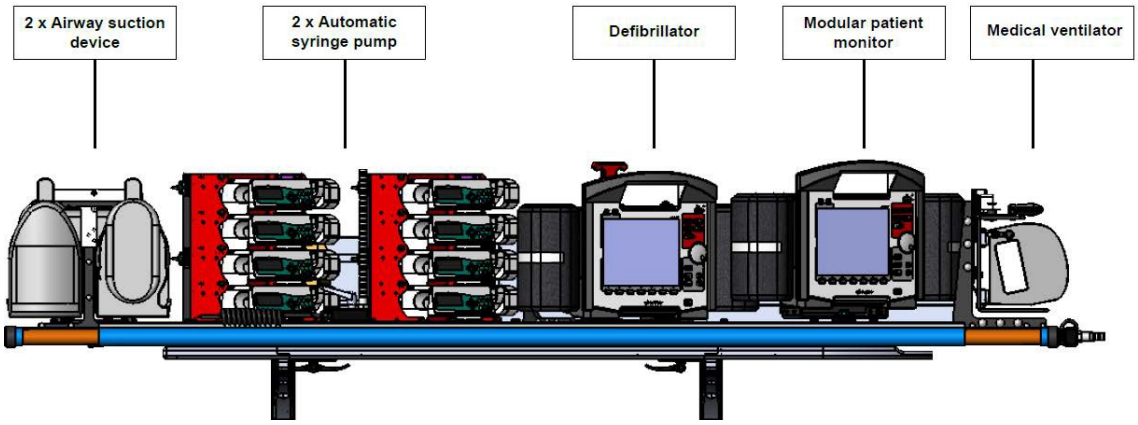
MEDICAL STRETCHERS WITH INTEGRATED SYSTEM FOR MEDICAL EQUIPMENT & DEVICES

The medical stretcher is an absolute innovation in the medical field, and it is destined to provide monitoring and treatment in an intensive care environment for one or two patients carried inside an aircraft on a system of stacked stretchers. Thanks to this, any aircraft provided with a fixation system for NATO type stretchers can basically turn into a MEDEVAC aircraft.
Our system is built on a NATO type stretcher; it was adapted and modified to accommodate the following medical equipment and the required electrical system for their charging: monitor, ventilator, monitor/defibrillator, suction pump, syringe pumps, as well as an oxygen storage and distribution system.

GENERAL DESCRIPTION



The positions of each piece of equipment are shown in the presented picture.
Equipment racks are identical to those used for the land-based services - Ambulances and SMURD are provided, which ensures an optimal transition of the patient(s) in all conditions:
- modular patient monitor and defibrillator
- medical ventilator
- 2 x airway suction device
- 2 x syringe pump

Supports for other medical equipment can be provided on request.
Dedicated machine mounts can be changed quickly without the need for tools. The distance between holders can be changed - and more - they can even be interchanged. All holders have been positioned so that their screens are oriented vertically, enhancing the viewing angle of the device screens. In particular, the patient-monitor holder, located at the cephalic end of the gill, can be rotated horizontally by 90-120 degrees.
For maximum operational feasibility, and to keep the batteries of the medical devices charged, an electrical system has been installed which allows the entire assembly to be supplied with 28V direct current or 110V/230V alternating current. In the absence of power supply, the assembly has an autonomy of at least 3 hours under standard conditions of use.
The total weight of the stretcher, with all medical equipment attached to the supports, does not exceed 100 kg.

ELECTRIC INSTALLATION

The stretcher system has a device for converting the voltage from aviation standards (28 Vdc) to voltages used by portable medical equipment (12 - 14 Vdc). An electrical panel consisting of connectors, fuses with military standards (MIL) and a main switch for powering medical equipment is provided for the distribution of power. The wiring used for the electrical installation complies with military aviation standards, i.e. smoke emissions, flame retardancy, vibration resistance, mechanical stress, oils and corrosive agents.

The system is also provided with a power supply from an external source (230 Vac AC mains) with an approved earthing socket to ensure the power supply of the medical equipment and the charging of its batteries during ground stationing.
From this device, the current is routed into the power supply panel provided with connectors.

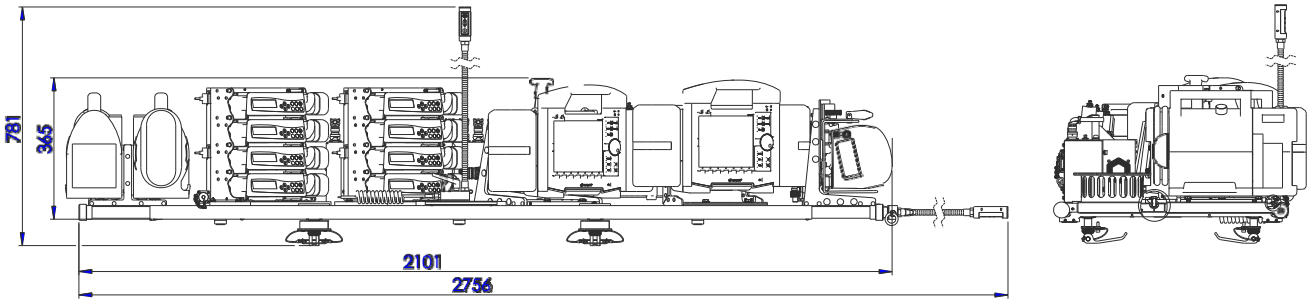
TRANSPORT SYSTEM BOX

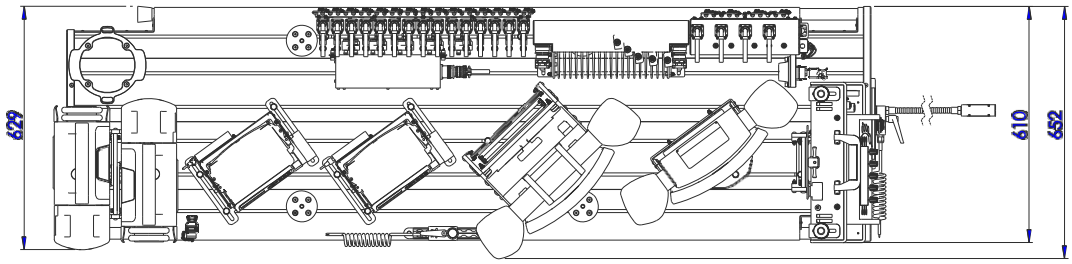
• In order to ensure that the optimal temperature and pressure levels are maintained, throughout the intervention and, therefore, that the stretcher-supported medical equipment functioned at maximum parameters, the need to adapt a special transport system for this daring project was identified.
• Following the existing limitations on the market and the niche left uncovered in this direction, it was decided to start an in-house research and production process, so that the transport system was eventually specially designed as a 100% custom-made Deltamed product.

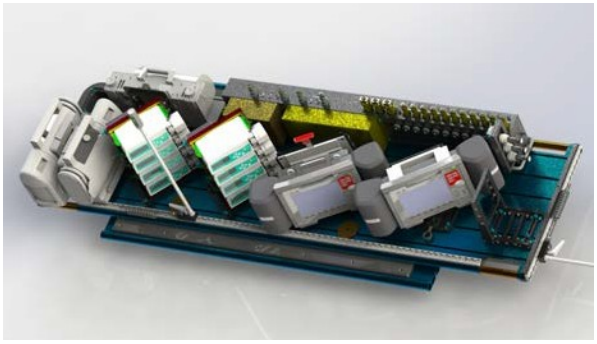
- Made of aluminium
- Overall dimensions: 250x85x58 cm
- Waterproof
- 10 carrying handles
- Painted RAL 9016
- 110V-230V distribution panel

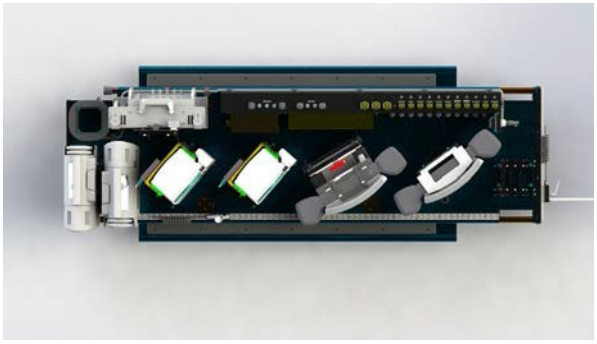
Suited also for unfavourable environmental conditions, the transport system box is equipped with an air-conditioning system to maintain optimal temperature for the medical equipment mounted on the stretcher.

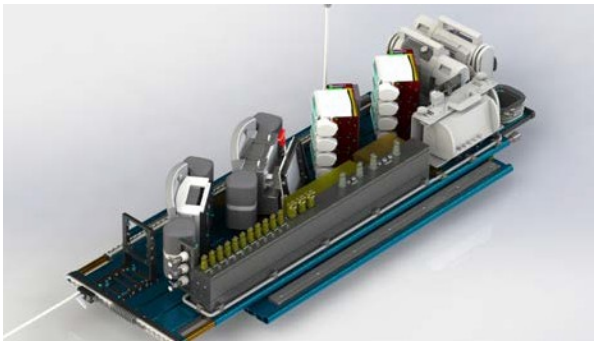
TECHNICAL RENDERS AND PHOTO GALLERY











FRAGILE
MEDICAL EQUIPMENTS
ECHIPAMENTE MEDICALE

MEDICAL EQUIPMENTS
ECHIPAMENTE MEDICALE

PORTOFOLIO

Destined for:
Intensive Care - 1 patient
Monitoring - 1 patient

MEDICAL EQUIPMENT FOR 17 SMURD HELICOPTERS (AIRBUS EC 135)

SMURD is a firefighting emergency rescue service based in Romania.

- Portable Defibrillator+ Modular Patient Monitor (Corpuls 3)
- Portable Ventilator (Weinmann)
- Automatic Syringe Pump (Bbraun)
- Airway Suction Device (Weinmann)
- Portable Oxygen System
- Restraint System for patients

MEDICAL STRETCHERS FOR ROMANIAN AIR FORCE HELICOPTERS: IAR- PUMA 330 (20 STRETCHERS & 20 TRANSPORT BOXES)

Provided Medical Equipment & fixation system:

Integrated system for the fixation and transport of medical equipment and devices

- Portable Defibrillator+ Modular Patient Monitor (Corpuls 3)
- Portable Ventilator (Weinmann)
- Automatic Syringe Pump (Bbraun)
- Airway Suction Device (Weinmann)
- Portable Oxygen System
- Restraint System for patients

Destined for:
Intensive Care - 1 patient
Monitoring - 1 patient

MEDICAL STRETCHERS FOR SMURD HELICOPTERS: BLACK HAWK S-70M (24 MEDICAL STRETCHERS)

Black Hawk S-70M - Lockheed Martin/Sikorsky
Provided Medical Equipment & fixation system: Integrated system for the fixation and transport of medical equipment and devices.

- Portable Defibrillator+ Modular Patient Monitor (Corpuls 3)
- Portable Ventilator (Weinmann)
- Automatic Syringe Pump (Bbraun)
- Airway Suction Device (Weinmann)
- Portable Oxygen System
- Restraint System for patients

One Medical Stretcher is destined for:
Intensive Care - 2 patients
Monitoring - 2 patients

DELTAMED - ABOUT US

LOCATION

The actual production units are located in NW part of Romania, in Gilău, Cluj County, close to Cluj Napoca, the capital of Transylvania.

• Gilau – Bucharest = 460 km (A3-A10 Highway & DN7/E81 National Road)
• Gilau- Budapest = 443 km (DN1/E60 & M3 National Roads)
• Distance of 30 km from Gilau to Cluj International Airport

CAPABILITIES

• 7 production halls with a cumulative area of almost 15,000 sqm;
• 2 sales offices - in Bucharest & Gilău;
• 3 service and maintenance work points, located in Bucharest, Gilău and Bacău;
• Research & Design, Quality Control and After Sales dedicated departments;
• over 140 specialists who work every day to identify and implement the best solutions in the field;
• over 20 years of accumulated experience in the production of special vehicles;
• an average turnover of more than 40 million euros for the last 3 years.

• In the dedicated workshops, our factory can currently process metal sheets and profiles through laser cutting, CNC processing (3/4 axes), bending and cutting, milling, welding, sandblasting and painting.
• The plastic workshop can process ABS plate through thermoforming and the carpentry is supplying all wooden furniture needed.
• Since 2007 we produced more than 4000 special vehicles, proudly being considered at this moment the most important and experienced integrators in Eastern Europe.

• Ambulances (Type A, B, C; 4X4 Multiple Victims Transport; All Terrain Ambulances; Ambulance for Highly Infected Patients)
• Command Centers
• Mobile Clinics, Mobile Blood Collection Centers, Mobile Screening Units
• Fire Brigades & Civil Defence Units
• Pyrotechnic & Logistic Containers
• CBRN Monitoring Vehicles
• Showroom & Training Centers

STANDARDS & CERTIFICATIONS

ISO 9001 Quality Management System Certificate

Environmental Management System Certificate according to ISO 14001

Certificate on Occupational Health and Safety Management System according to OHSAS 18001

Certificate on Social Responsibility Management System according to SA 8000

NATO Economic Agent Code (NCAGE) according to NATO Codification System

Quality Management System AQAP 2110 according to NATO requirements

We provide complete mobility solutions to various public & private entities:

- Ministry of Health
- Ministry of Defense
- Ministry of Internal Affairs
- SMURD Units
- Government and State Agencies
- Private customers

HEADQUATERS
Farm 8, 20 Hall , 407310, Gilau
Cluj County, Romania
Phone: +40 264 371568
Fax: +40 264 371569

deltamed aviation

CONTACT
poc@deltamed.ro