

AMS
Heli Design



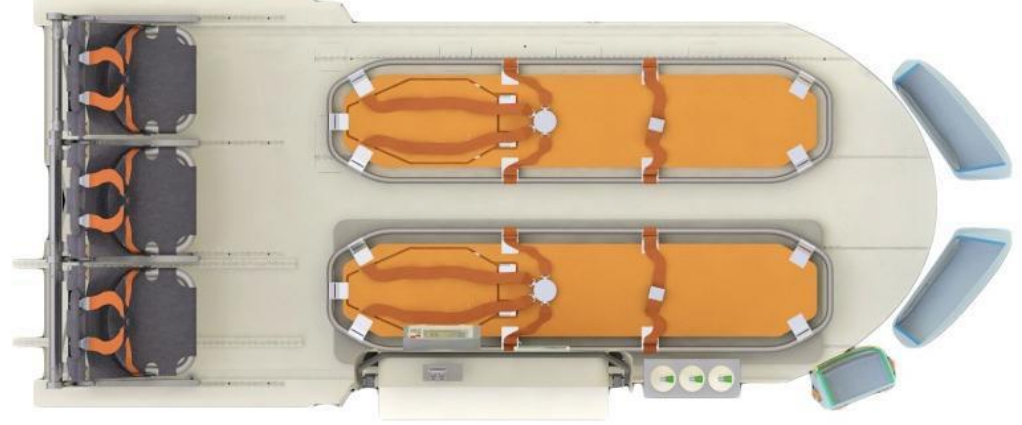
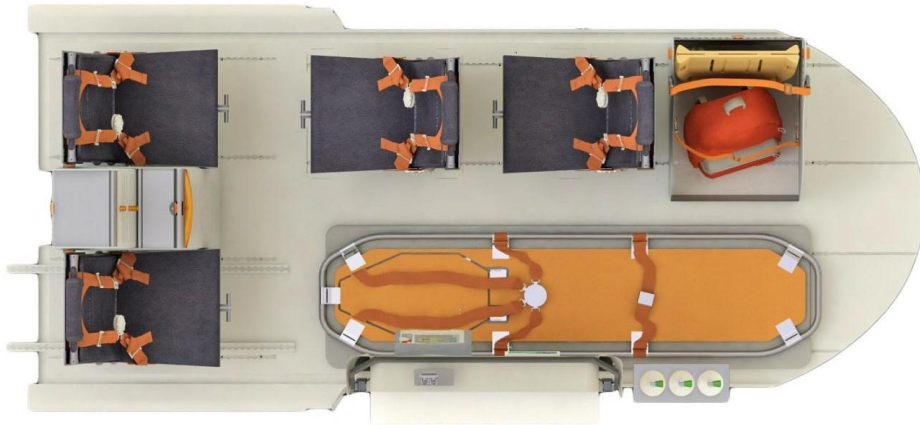
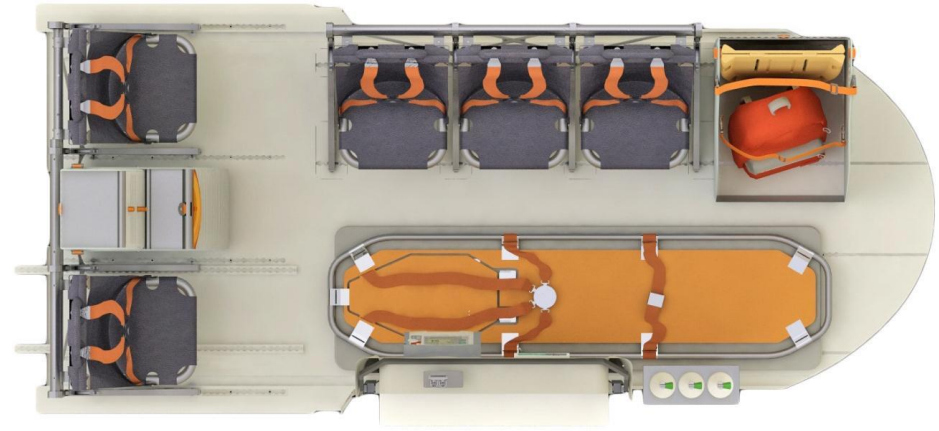
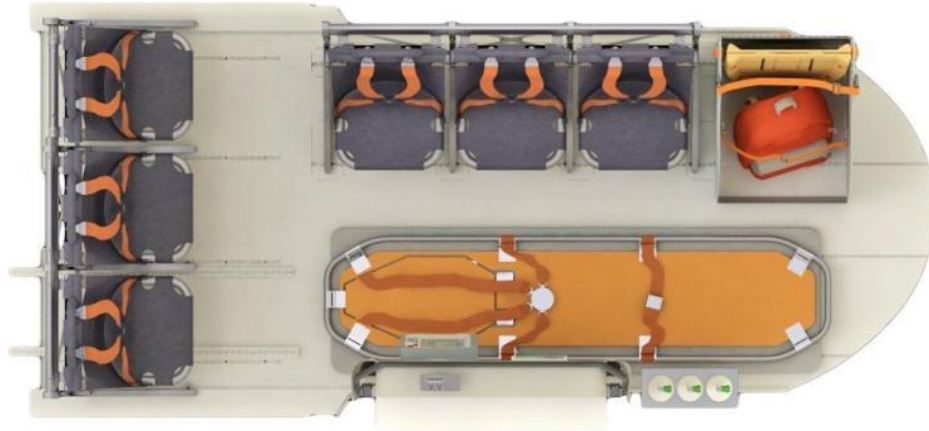
H145 D2/D3 EMS KIT

OVERVIEW

- ❖ AMS solution for H145 EMS has the goal to provide a modular and flexible cabin interior, based on some basic components, which can be easily and quickly reconfigured to different layouts
- ❖ The core of the interior is represented by the Metallic EMS Floor, which is provided with multiple tracks/rails in order to host the different possible configurations
- ❖ Light weight design
- ❖ Approved EASA and FAA STC for BK117 D-2 and D-3
- ❖ Interior design by Mecaer licenced to AMS Heli Design

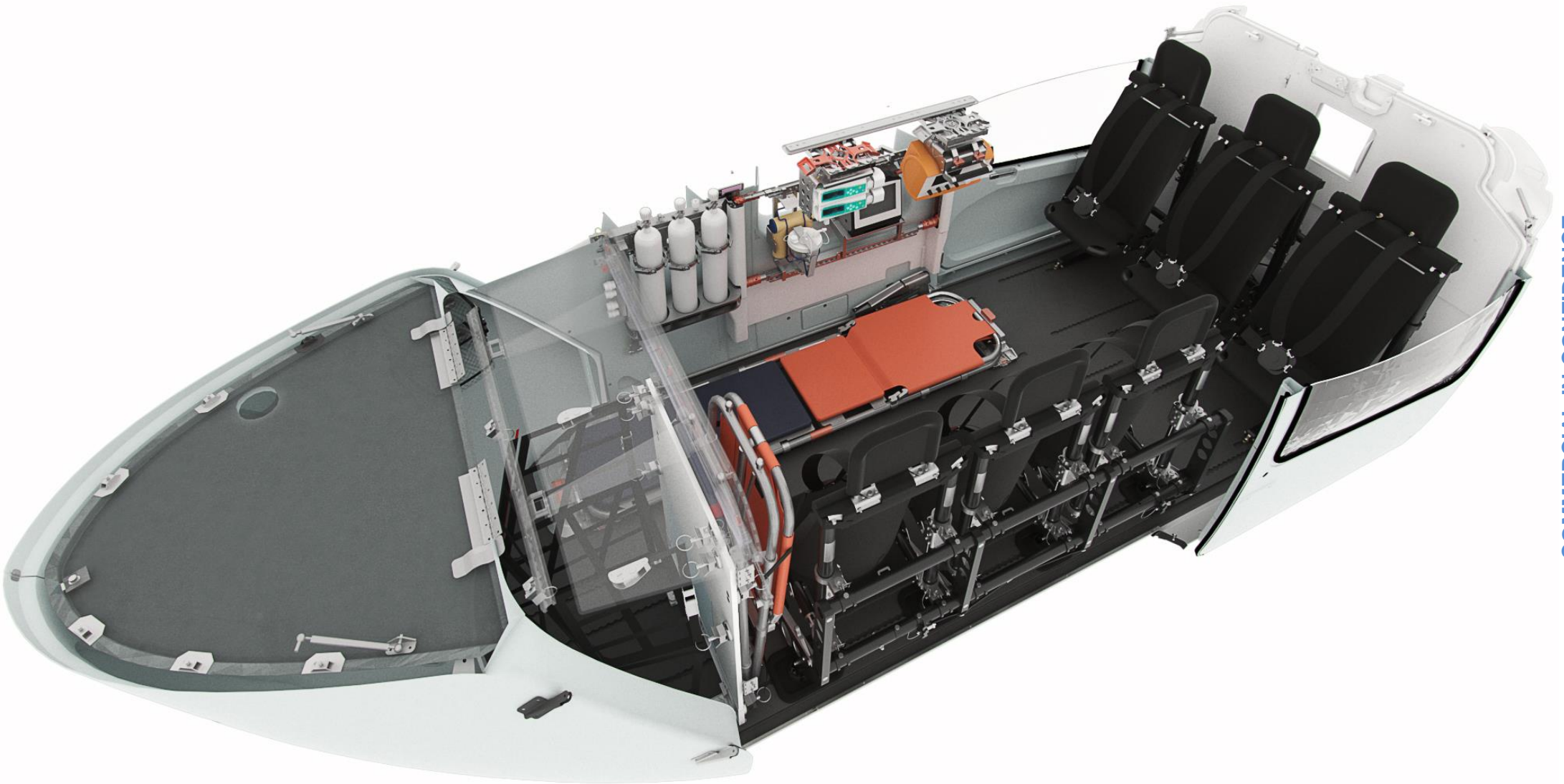


GENERAL LAYOUTS



NO. 4 MAIN CABIN LAYOUTS HAVE BEEN IDENTIFIED. HOWEVER, MANY OTHER INTERMEDIATE CONFIGURATIONS CAN BE OBTAIN THROUGH THE MODULARITY OF THE DESIGN

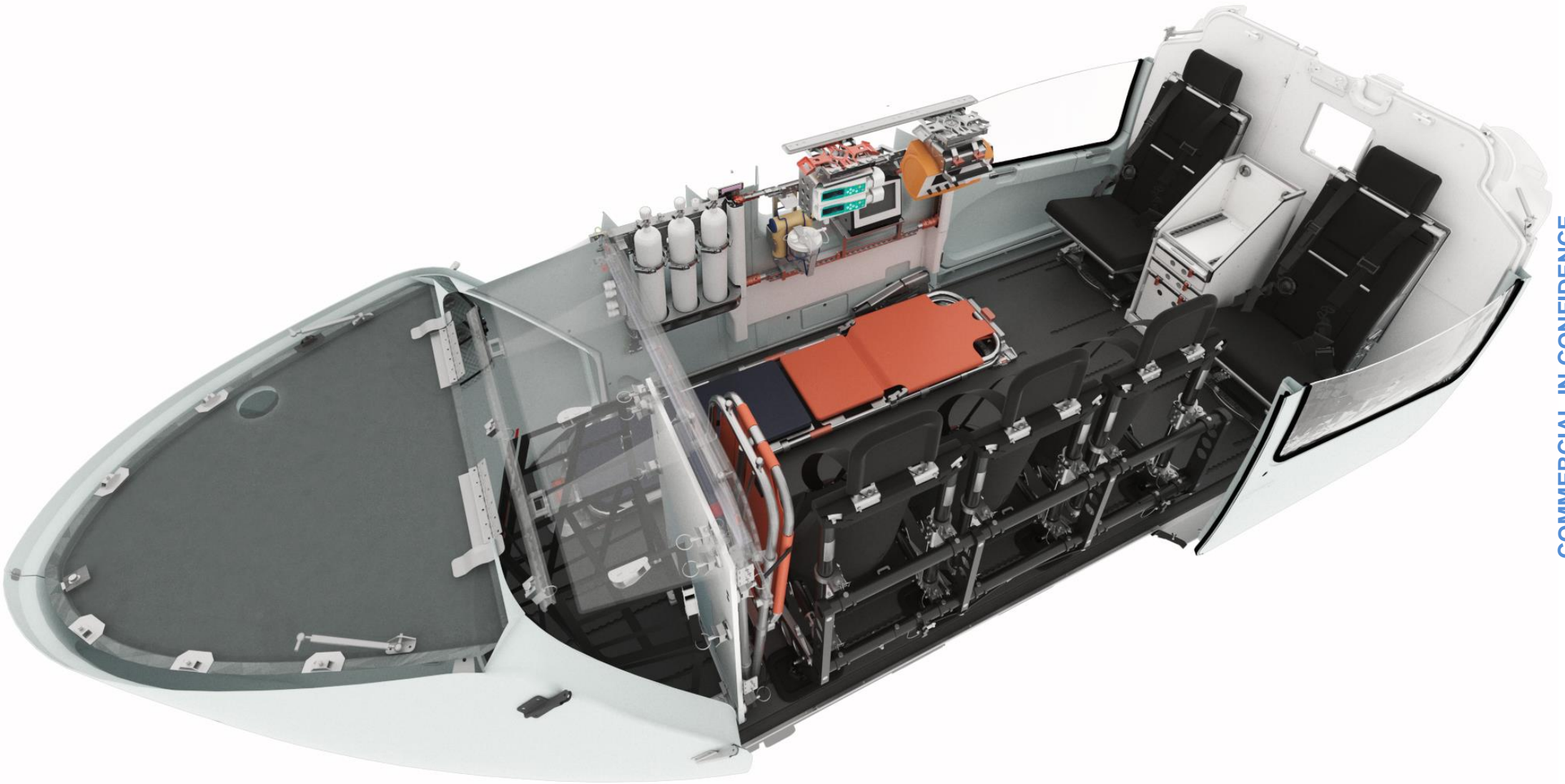
CONFIGURATION #1



CONFIGURATION #1



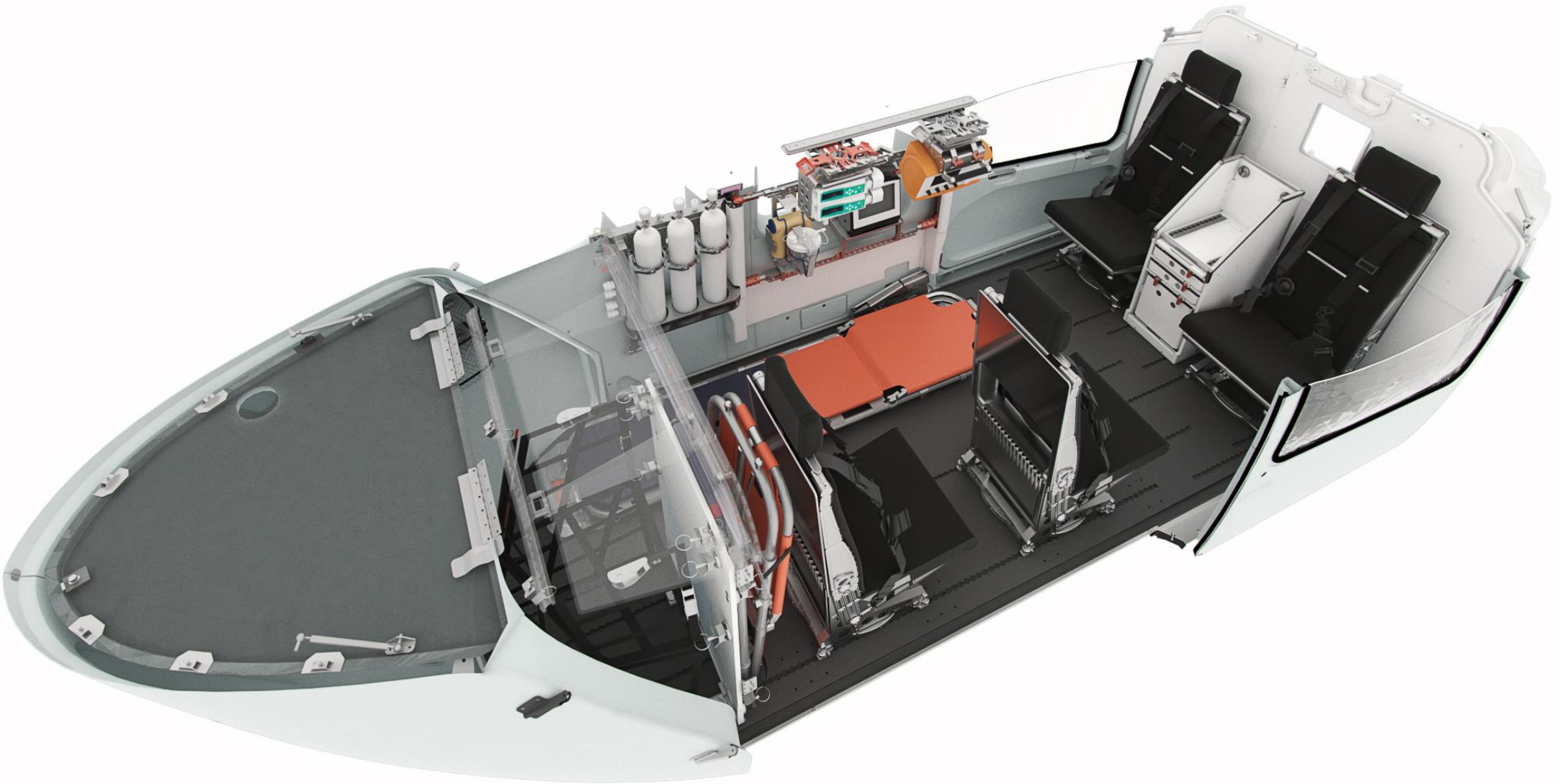
CONFIGURATION #2



CONFIGURATION #2



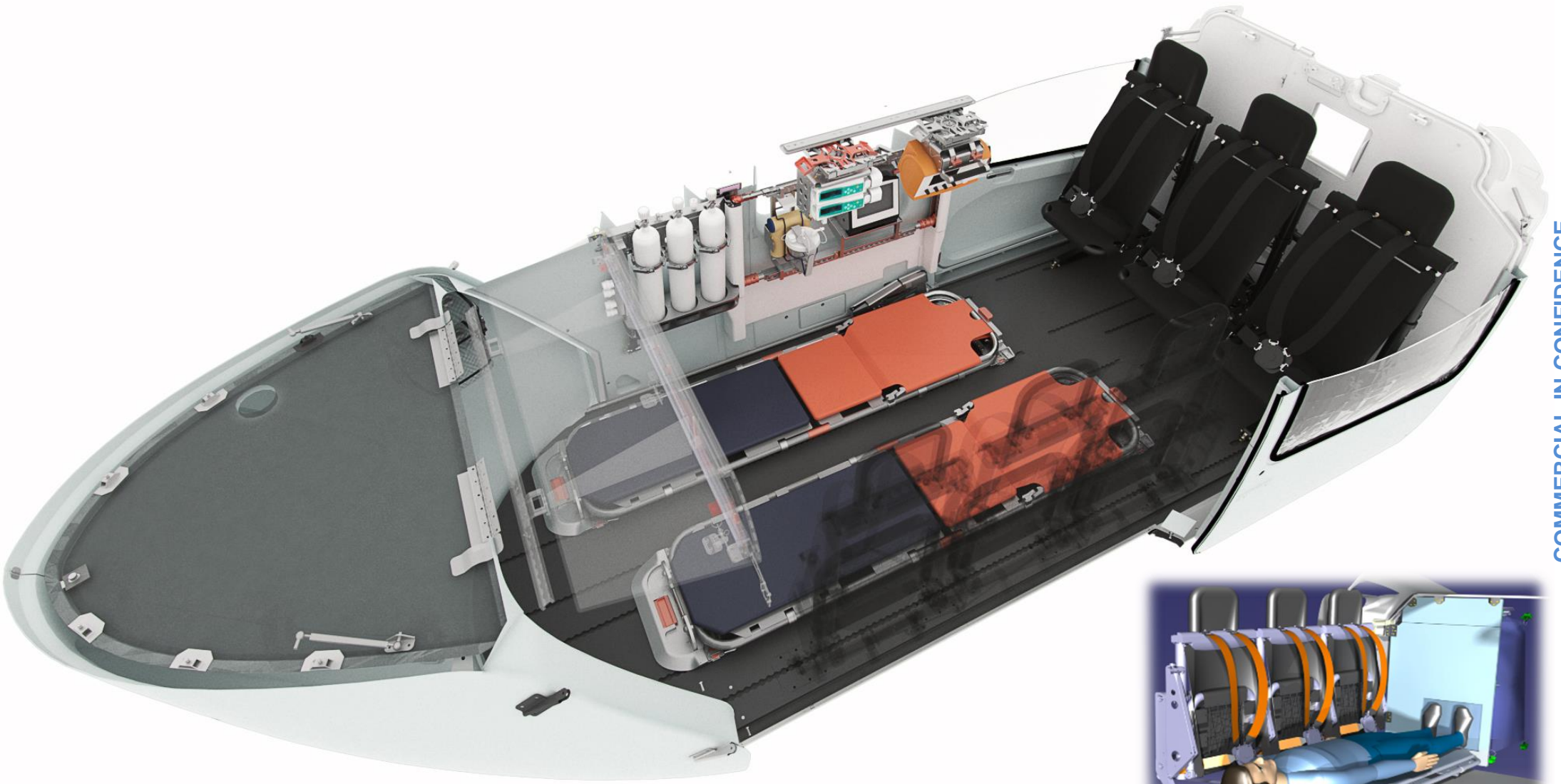
CONFIGURATION #3



CONFIGURATION #3



CONFIGURATION #4

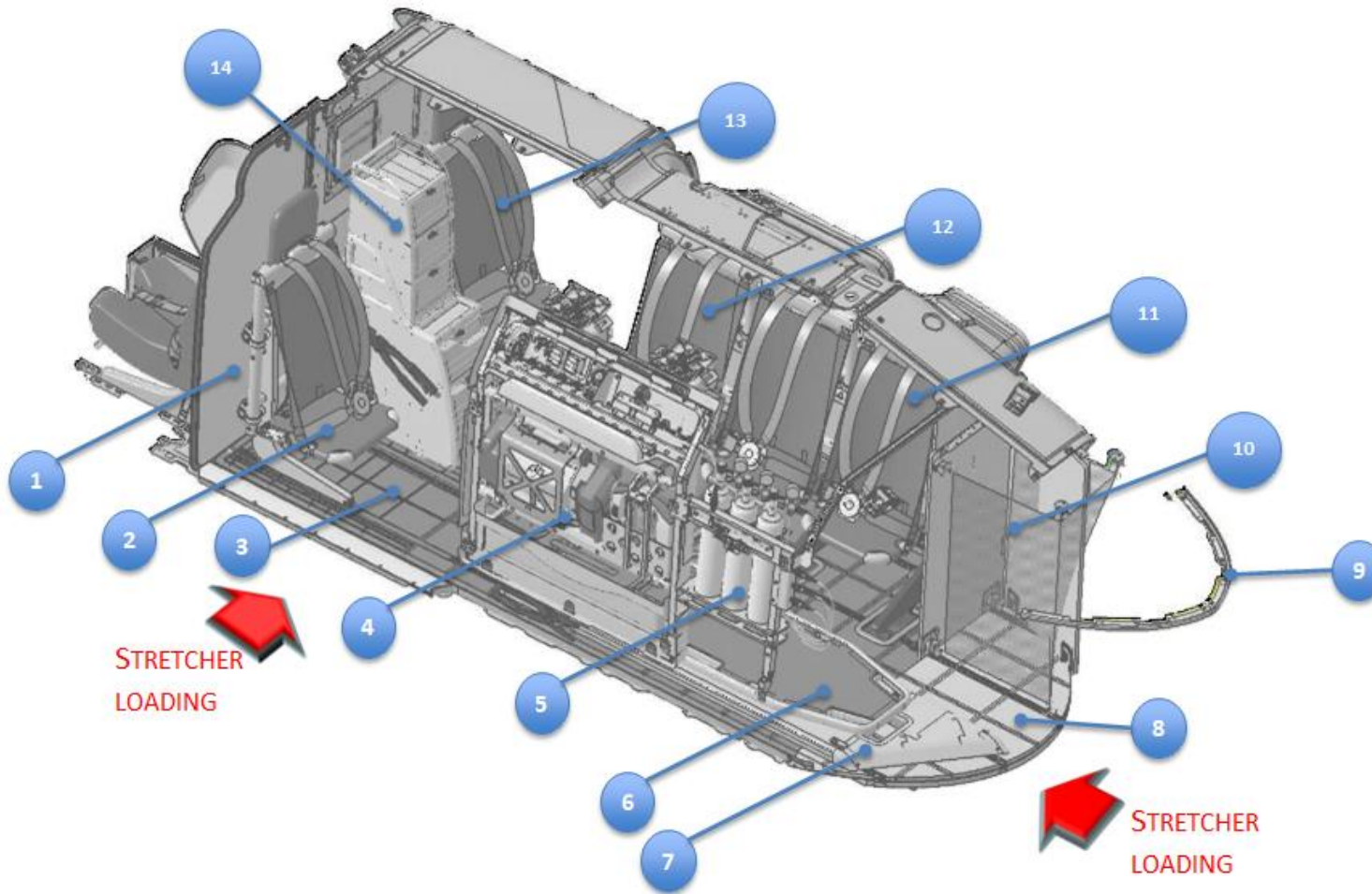


COMMERCIAL IN CONFIDENCE

CONFIGURATION #4

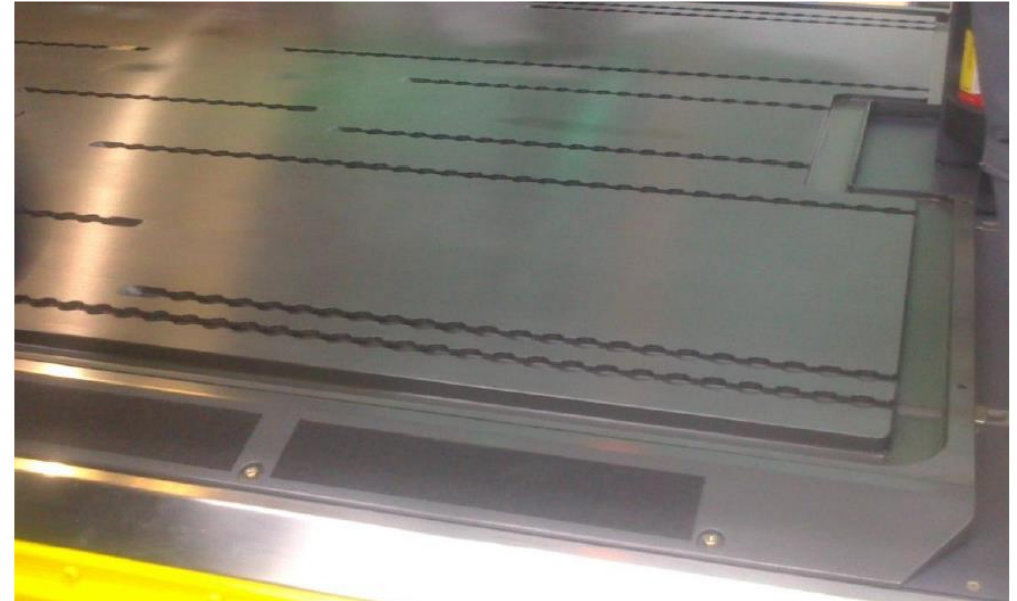
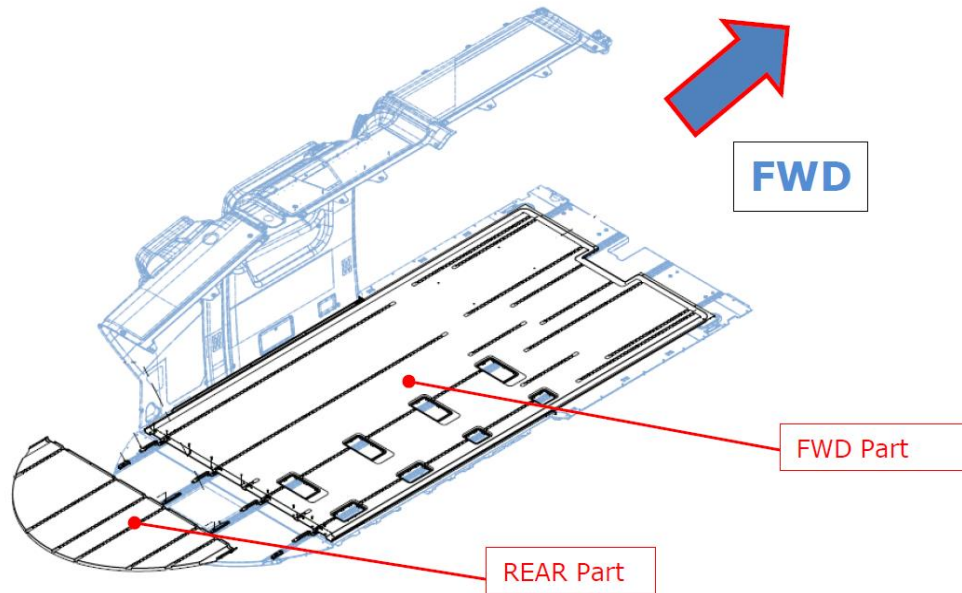


MAIN COMPONENTS



| Id. | Component |
|-----|----------------------------|
| 1 | Separation wall |
| 2 | Crew seat (hoist operator) |
| 3 | Metal floor |
| 4 | Medical rack |
| 5 | Oxygen system |
| 6 | Stretcher |
| 7 | Stretcher platform |
| 8 | Avionic rack |
| 9 | Cargo loading light |
| 10 | Cargo net |
| 11 | Ceiling cabinet |
| 12 | Crew bench |
| 13 | Crew seat |
| 14 | Medical cabinet |

ALUMINUM MEDICAL FLOOR



- Multi-configurable, entirely machined, sturdy and shock-resistant floor
- Liquid-proof, aluminum main central plate integrates seat/cargo tracks specifically designed to accommodate different types of seats, stretcher loading devices, and the different EMS equipment, systems and components.
- Integrated drain hosing to collect and draw fluids overboard.
- Quickly removable, minimizing the number of fixations to the basic helicopter floor.
- The floor is divided in two parts for maintenance accessibility to the rear part of the basic H/C floor.
- Hard anodizing surface treatment to guarantee anti-corrosion resistance and anti-scratch protection.
- Anti-slip surfaces assure maximum operability and safety of movement in wet and harsh working environments.

SEATS

- ❑ BE Aerospace, Front and/or RH side crew bench

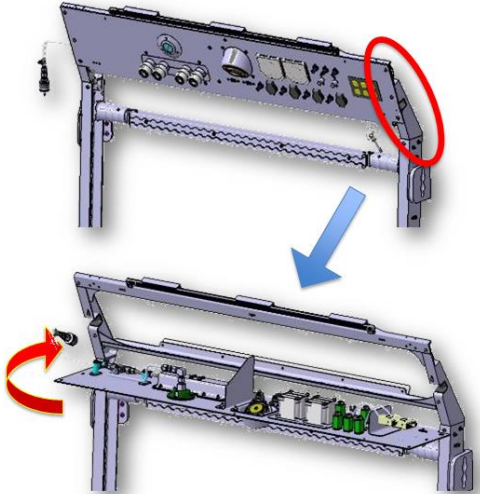
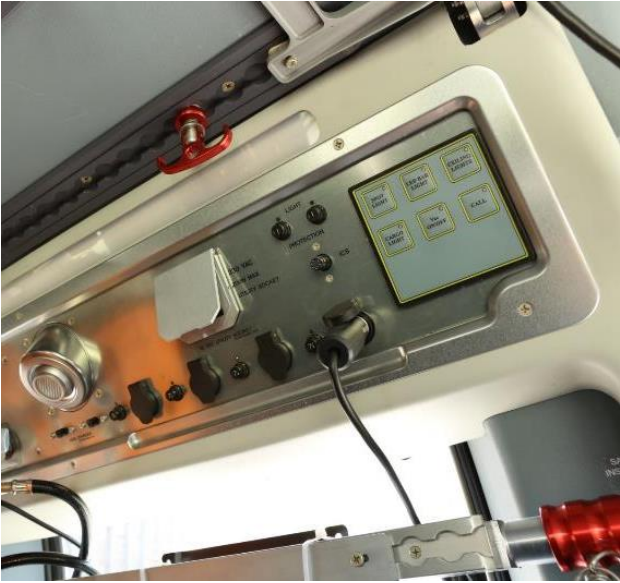
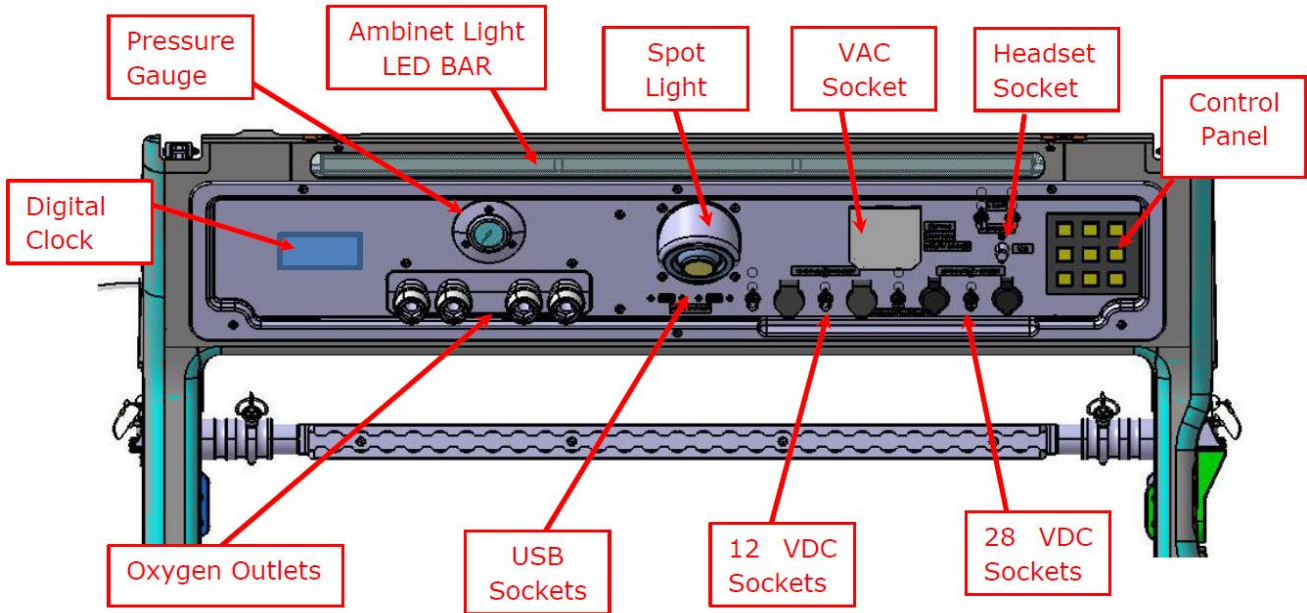
*The BE crew bench shall be provided as Buyer
Furnished Equipment (not included in MAG's kit)*



- ❑ Martin Baker Rotating/Traversing Seat P/N MBCS6930 -() (seat with 4 points restraint system, without armrests).



MEDICAL RACK



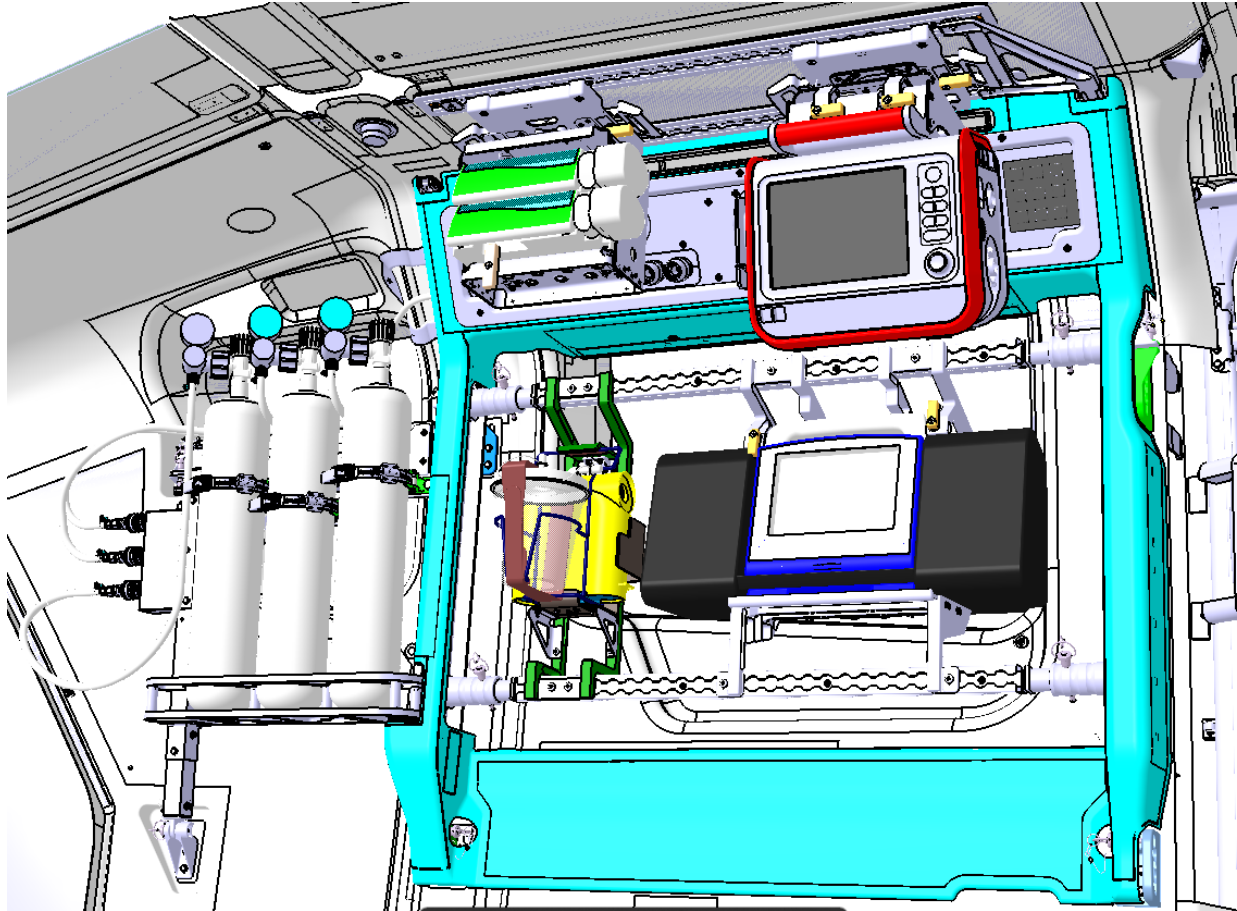
quick access for maintenance

Lights developed per RTCA DO-275 (NVIS compatibility)

RETAINERS FOR ALTERNATIVE MEDICAL DEVICES



RETAINERS FOR ALTERNATIVE MEDICAL DEVICES



DIFFERENT RETAINERS CAN BE DESIGNED FOR THE SPECIFIC MEDICAL EQUIPMENT SELECTED BY THE OPERATOR

RETAINERS FOR ALTERNATIVE MEDICAL DEVICES

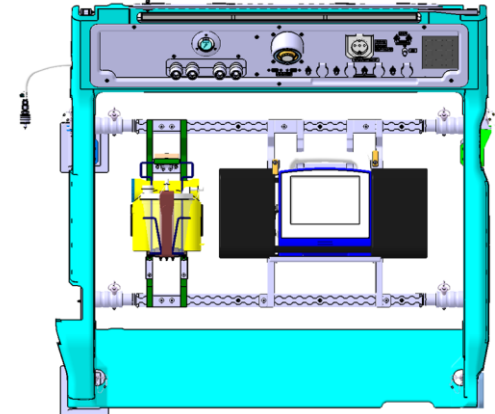
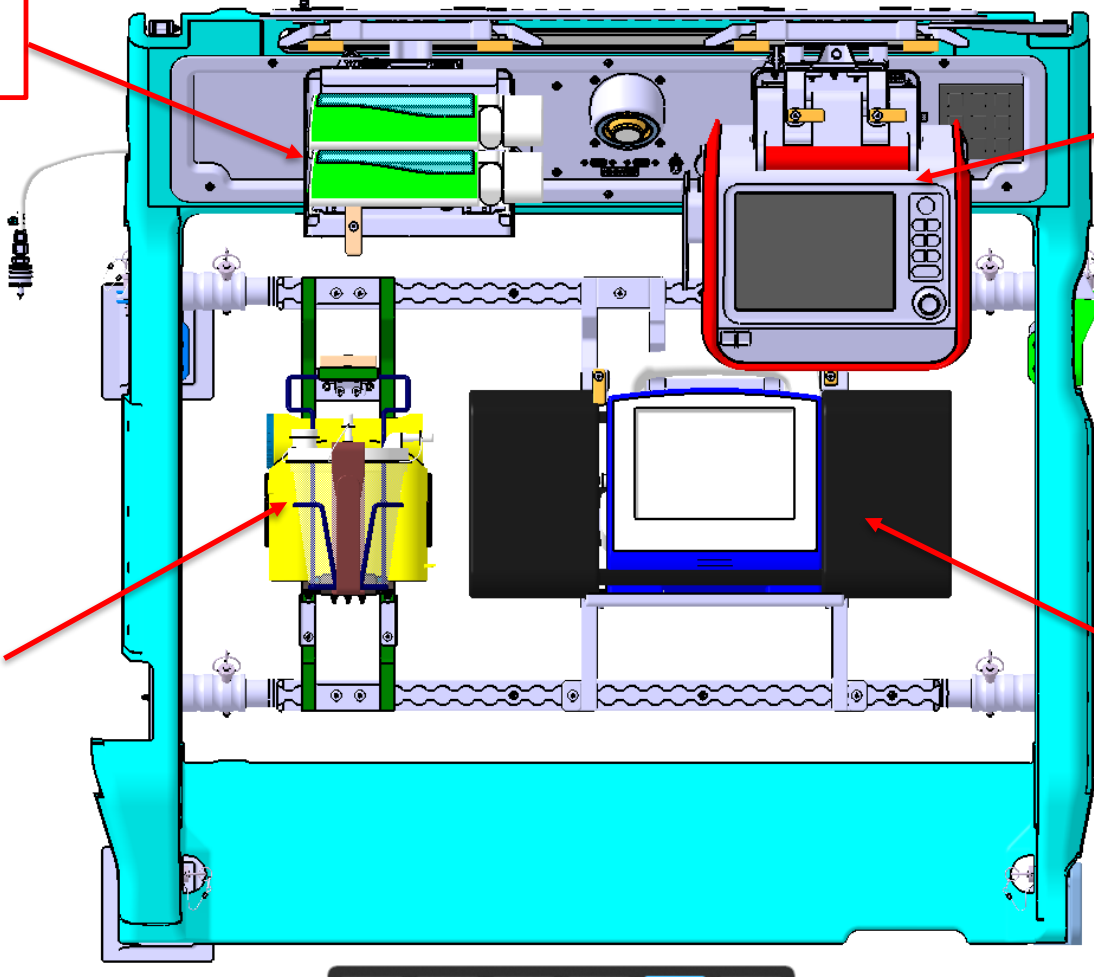
Syringe Pump
BBraun

Ventilator
Hamilton T1

Suction Pump
LCSU 4

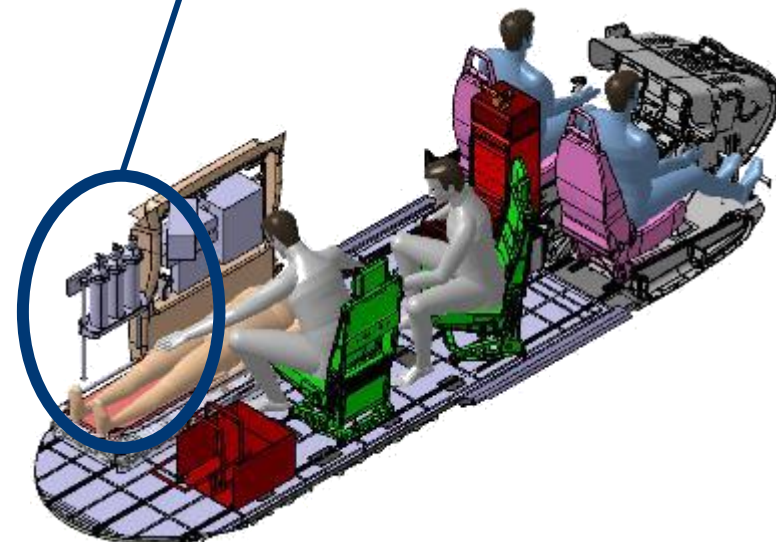
Monitor
Zoll X

DIFFERENT RETAINERS CAN BE DESIGNED FOR THE SPECIFIC MEDICAL EQUIPMENT SELECTED BY THE OPERATOR

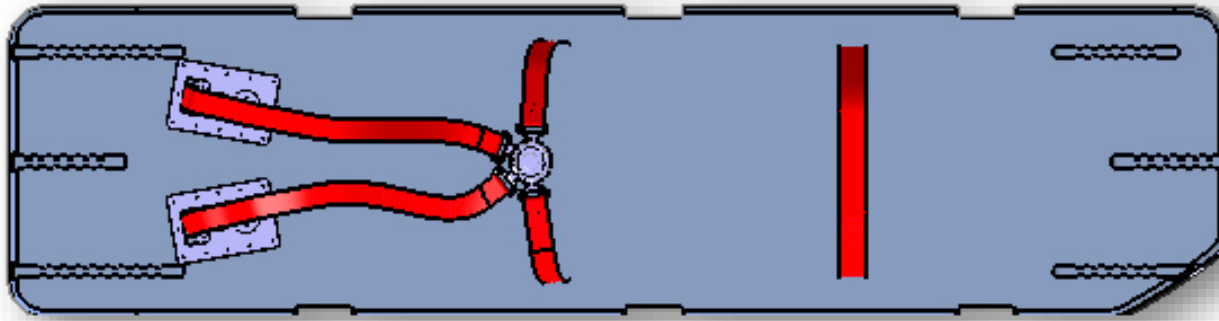


OXYGEN SYSTEM

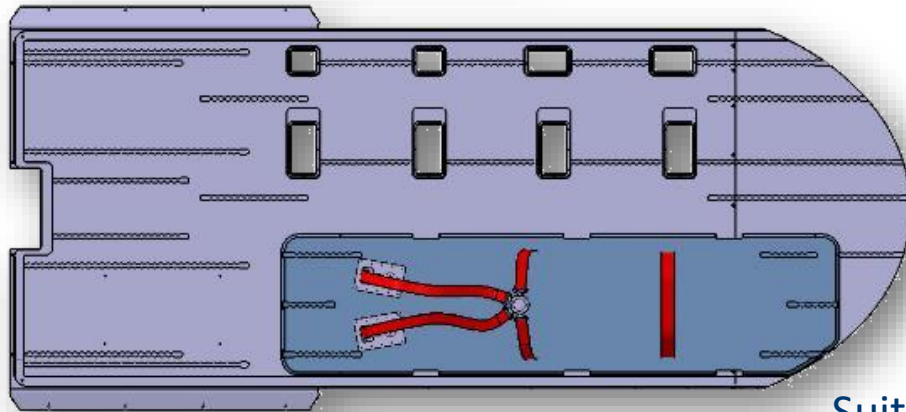
- Built-in Oxygen System
- 3 x 3L removable oxygen bottles (STD), for a total of 1,800 lt
- 2 x 5L removable oxygen bottles (Opt.), for a total of 2,000 lt
- Quick-connect DIN 13260-2 or Swagelock ports on Medical Rack
- Supply control on top of the Medical Rack



SAR STRETCHER PLATFORM



Thickness: 18 mm

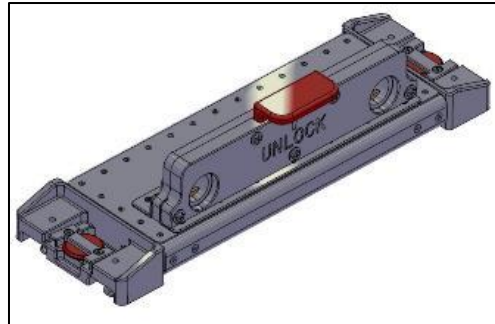


Suitable to secure :

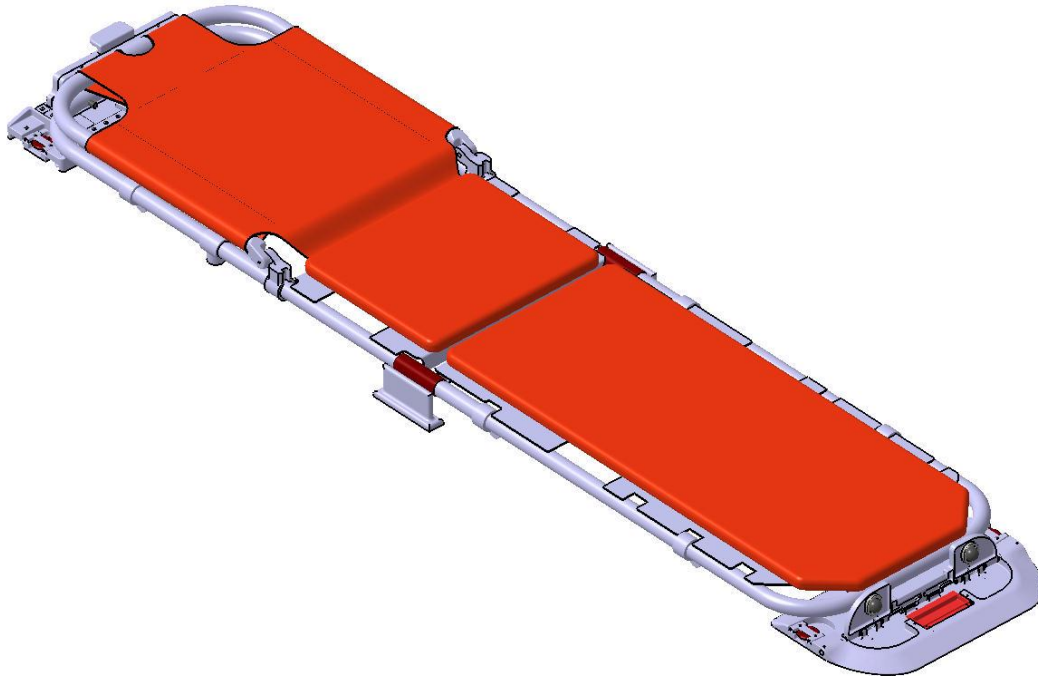
- Patient (rescue bag)
- Ferno Stretcher



FERNO STRETCHER + SAR PLATFORM



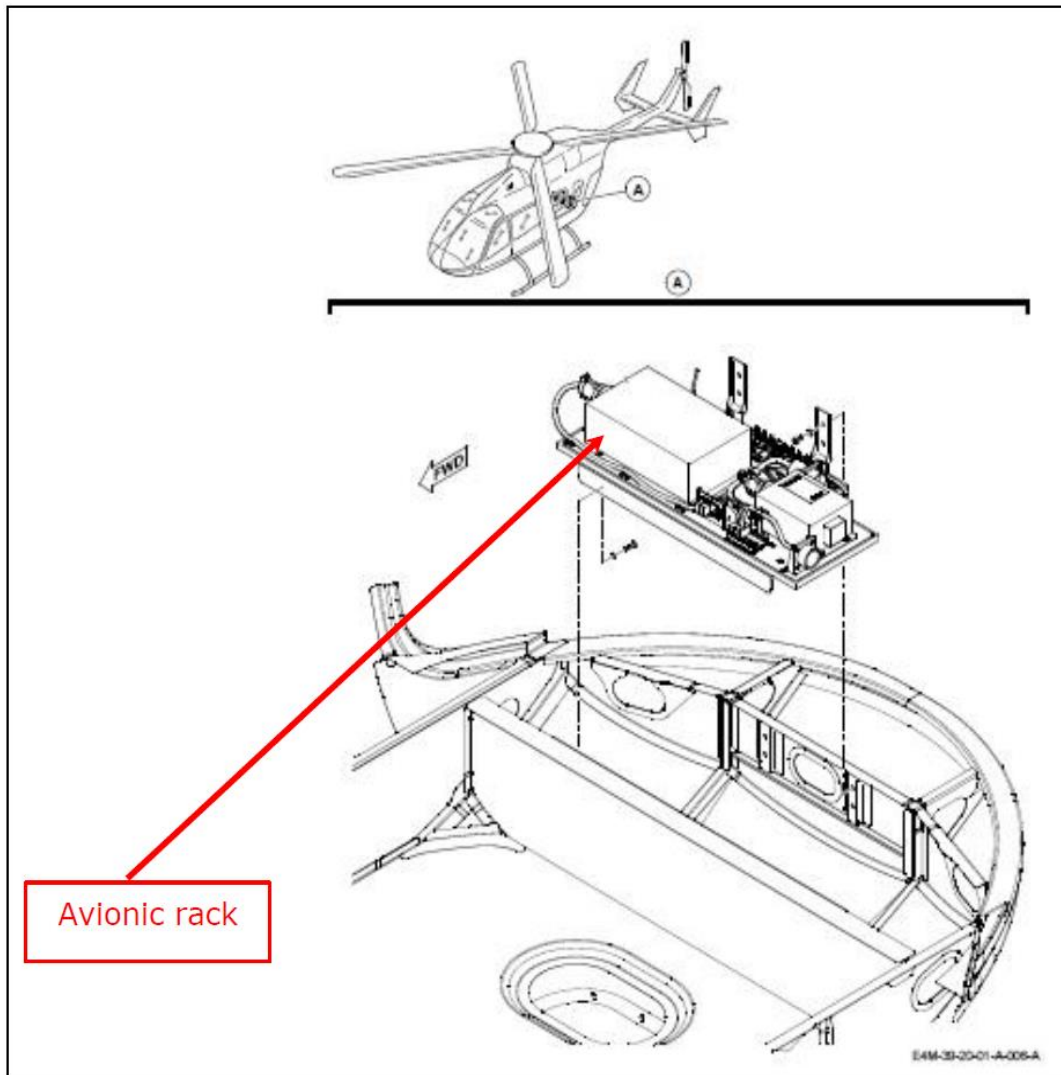
FERNO STRETCHER



Folded
Stretcher

- The stretcher is a modified off-the-shelf FERNO stretcher (tiltable head-side up to 80°): L=1.832mm, W=448mm.
- The stretcher is certified for a standard allowable patient weight of 77 Kg.
- The stretcher is equipped with monoaxial wheels to slide unidirectionally
- The stretcher can be installed directly on the medical floor or to the SAR stretcher platform
- This stretcher can be easily removed from the floor and folded, to be stowed in case of a layout change.

AVIONIC RACK AND ELECTRICAL INSTALLATION



Two (2) interface connectors in the rear belly of the helicopter, under the floor, are required as electrical provision from the basic helicopter.

The avionics rack is installed in the same rear area under the floor.

The cable routing from the rack reaches all the lights and the sockets placed in the different zones of the cabin:

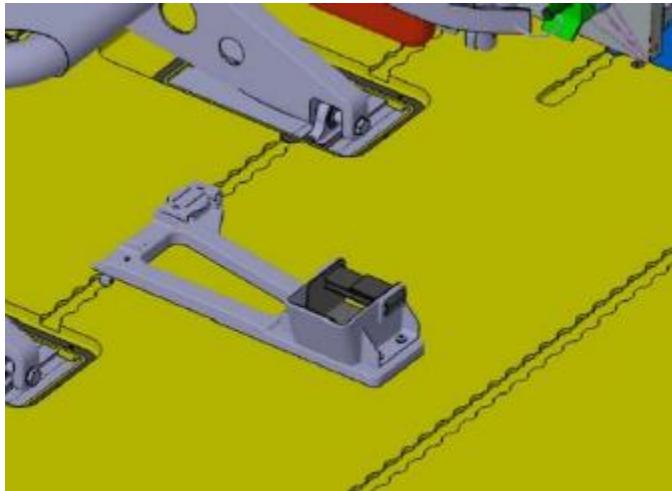
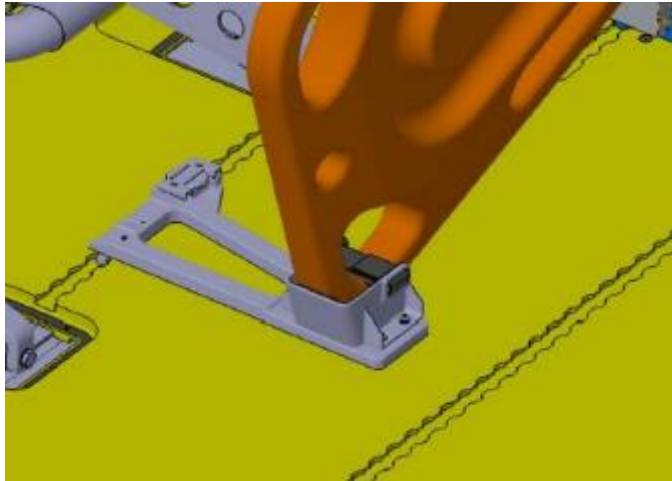
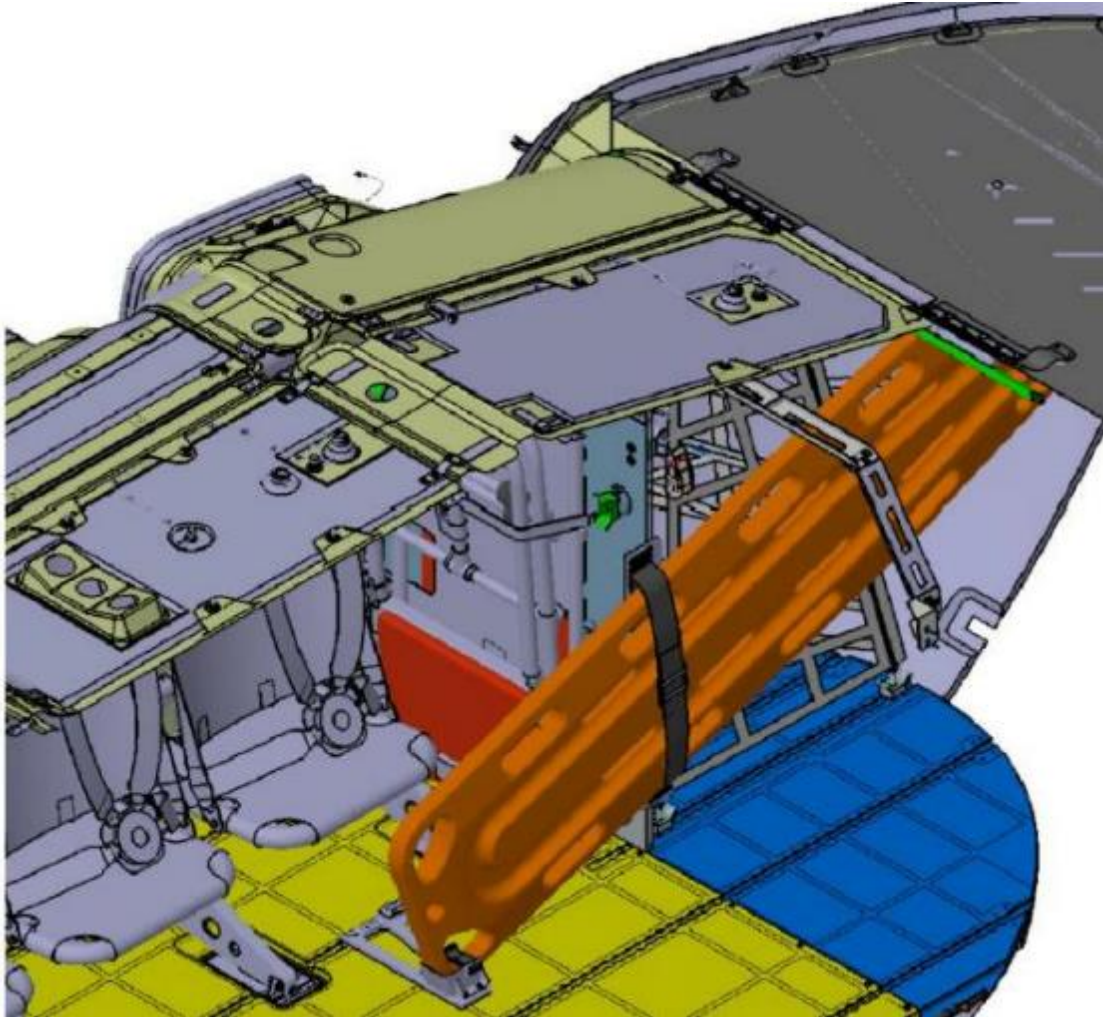
- no. 1 LED bar on top of the Medical Rack
- no. 1 LED spot-light on top of the Medical Rack
- a cargo light in the cargo (all around the upper deck curved edge)
- no. 2 USB Sockets on top of the medical Rack
- up to n. 5 sockets 12VDC
- up to n. 2 sockets 28 VDC 210 Watt
- no. 1 socket 28 VDC 84 Watt
- no. 1 socket 220 VAC 220 Watt in the rear rh zone (with limitation decal to 100 watts if used at the same time with the other sockets)
- no. 1 socket 220 VAC 220 Watt in the medical rack (with limitation decal to 100watt if used at the same time with the other sockets)

Note: 12VDC Power (up to 5 sockets)

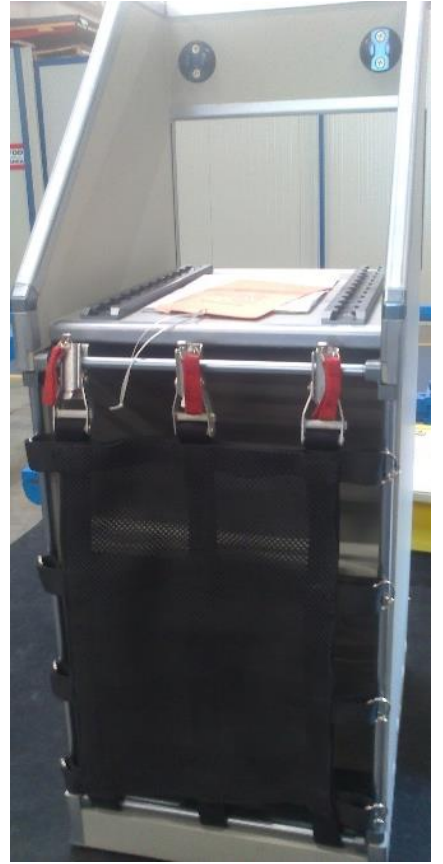
28VDC Power (up to 2 sockets)

220VAC Sockets (3 sockets) maximum power at single socket up to 880 watt

SPINAL STRETCHER STOWAGE PROVISION



STANDARD MEDICAL CENTRAL CABINET'S



COMMERCIAL IN CONFIDENCE

REAR STOWAGE AREAS



Door Pockets

Clam-shell doors pockets



Sliding doors

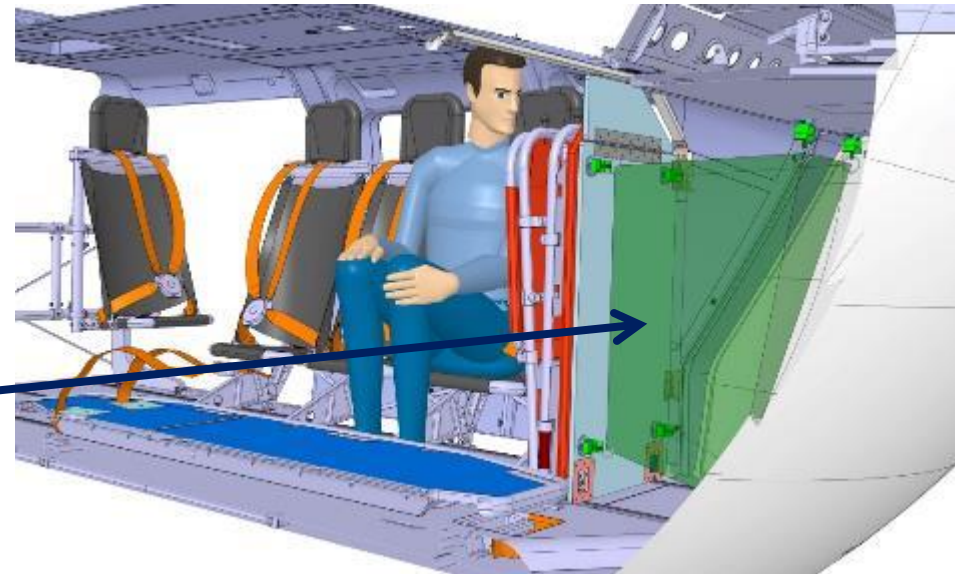
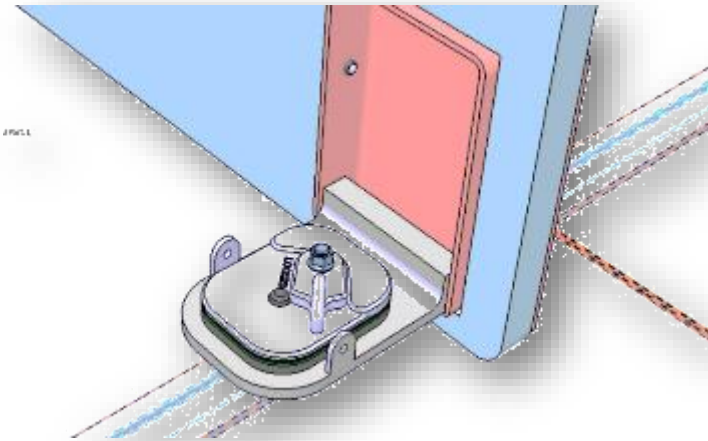
Storage utility mini box

Ceiling cabinet

CARGO NET

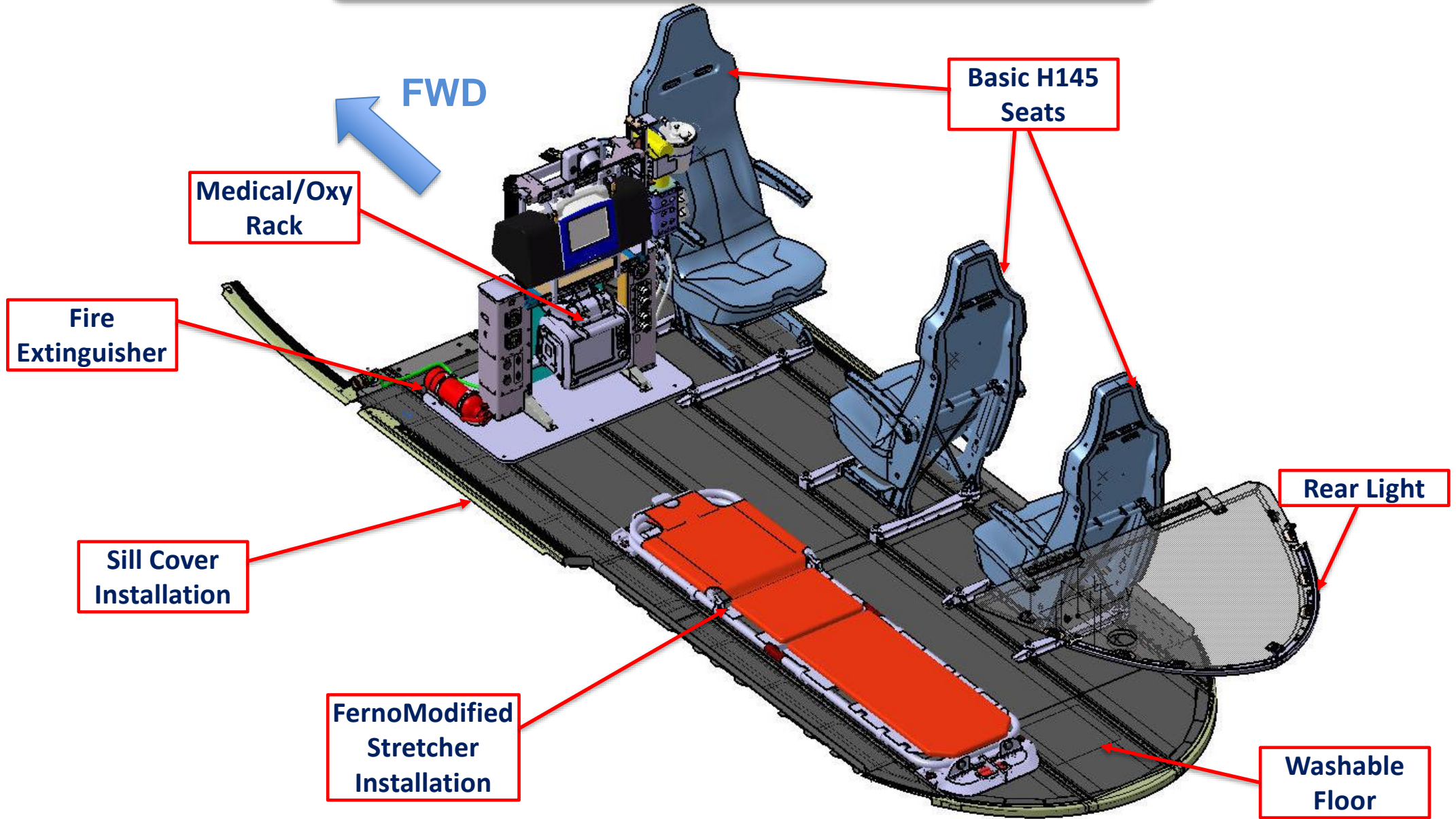


Cargo Net

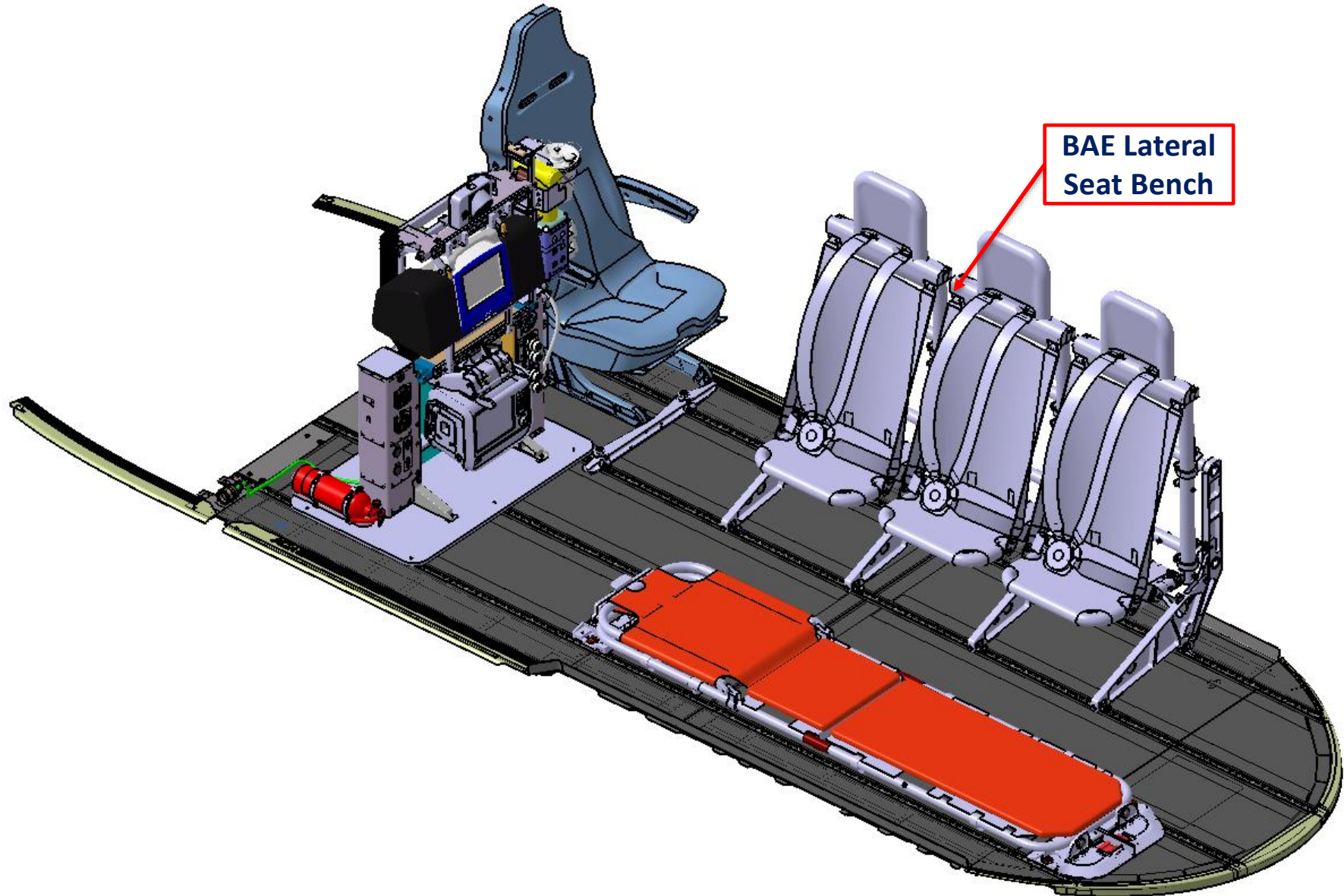


- Maximum Load: 30 kg
- Maximum Volume: 0,2 cu.m (approx. 200 lt)

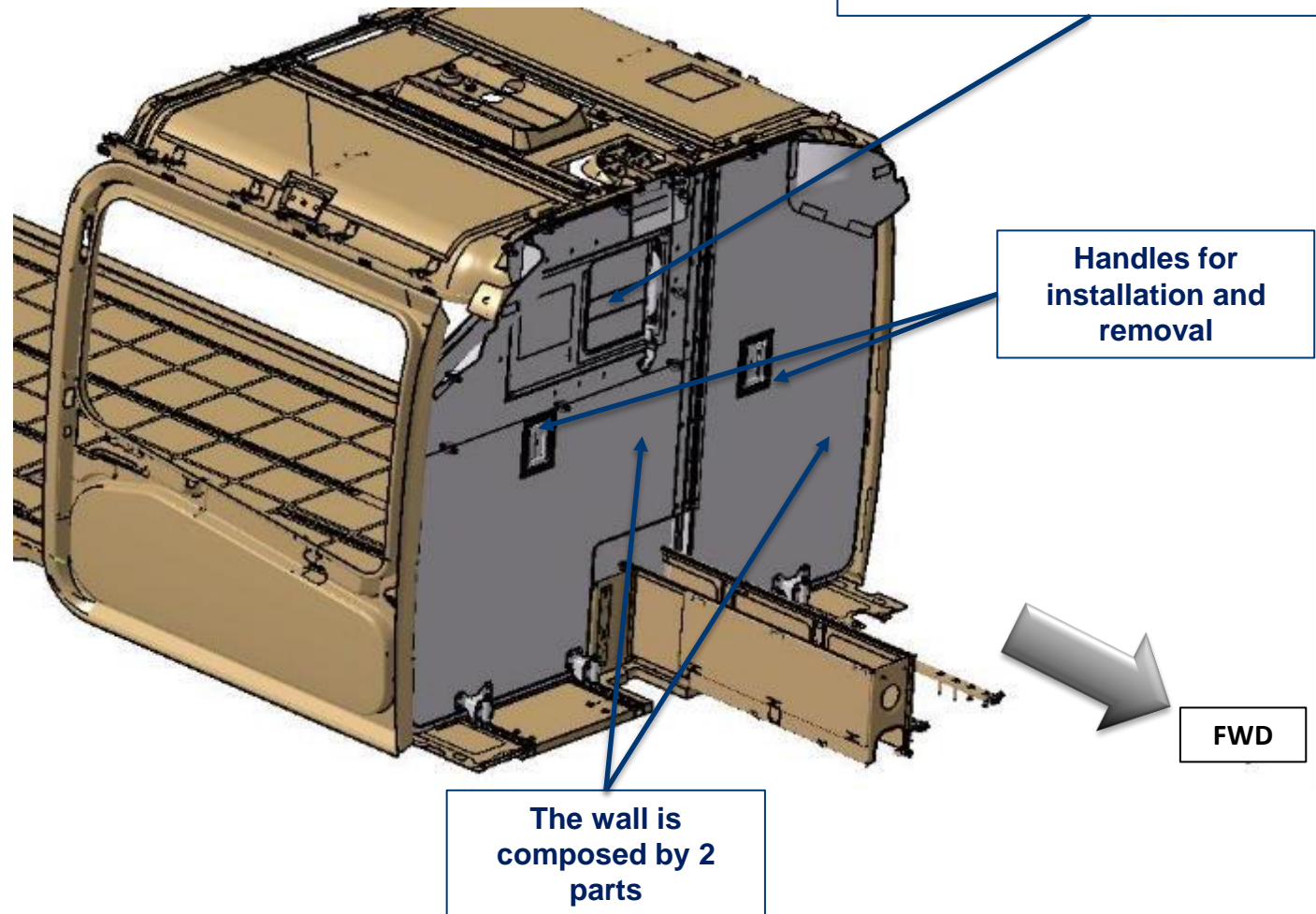
Preliminary EMS Light New Layout 1 (ISO View)



Preliminary EMS Light «Optional» layout 2

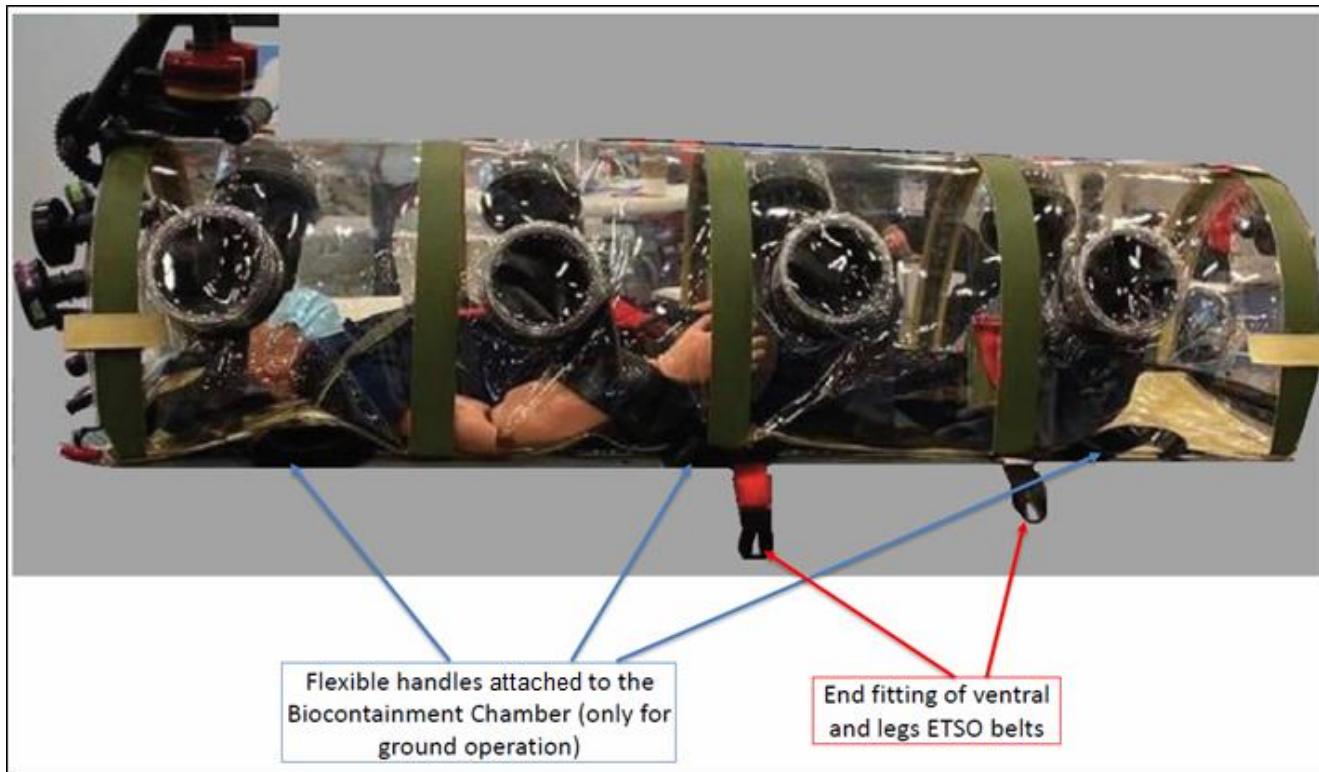


SEPARATION WALL



BIO-CONTAINMENT CHAMBER

MAG certified (first certification in EASA) the installation on the cabin of the normalized Bio-Containment Camera ISOVAC CAPSULES.

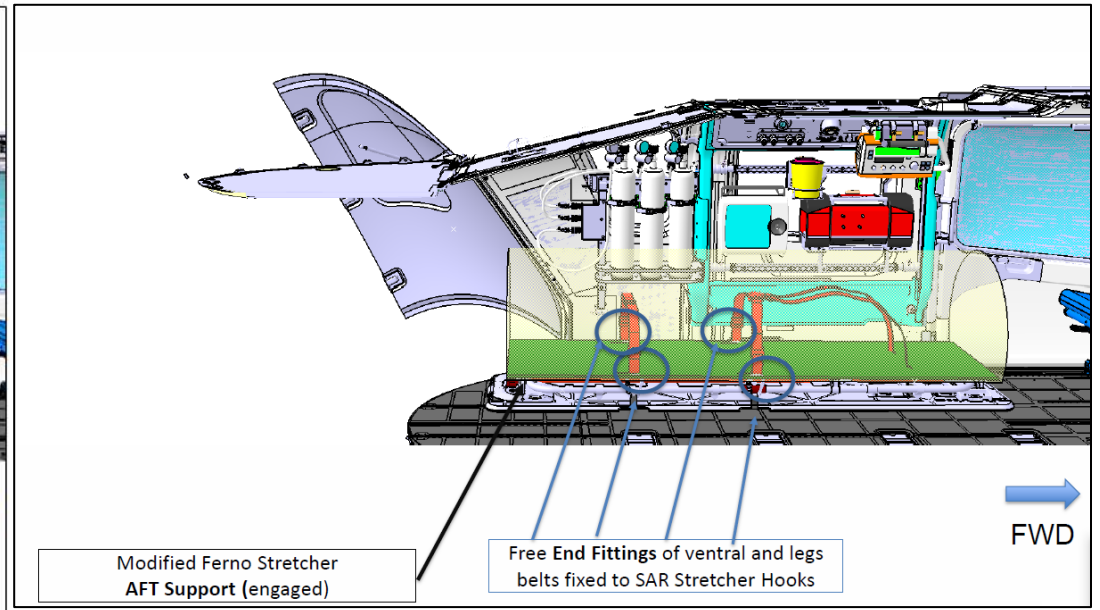
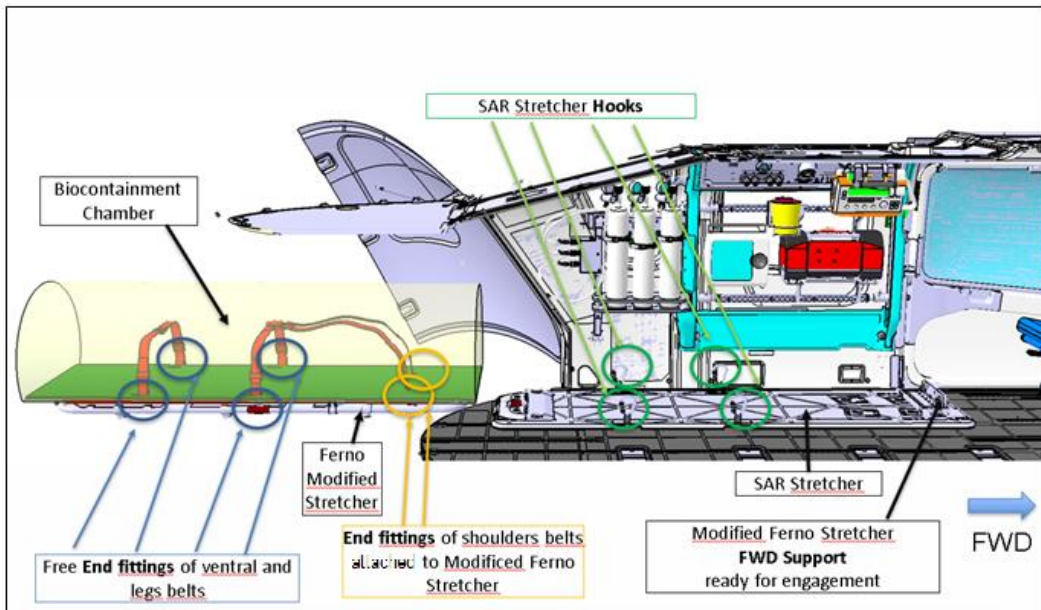


BIO-CONTAINMENT CHAMBER

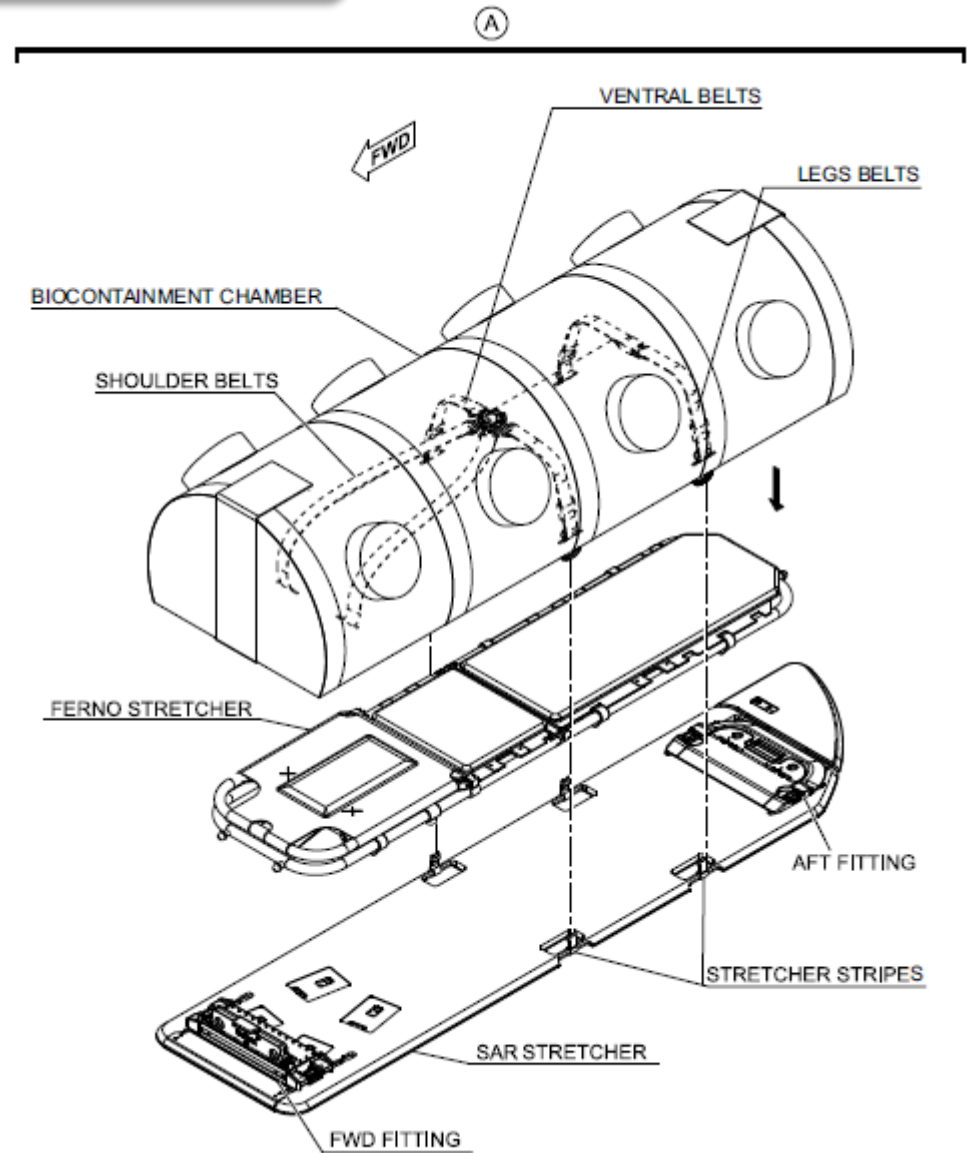
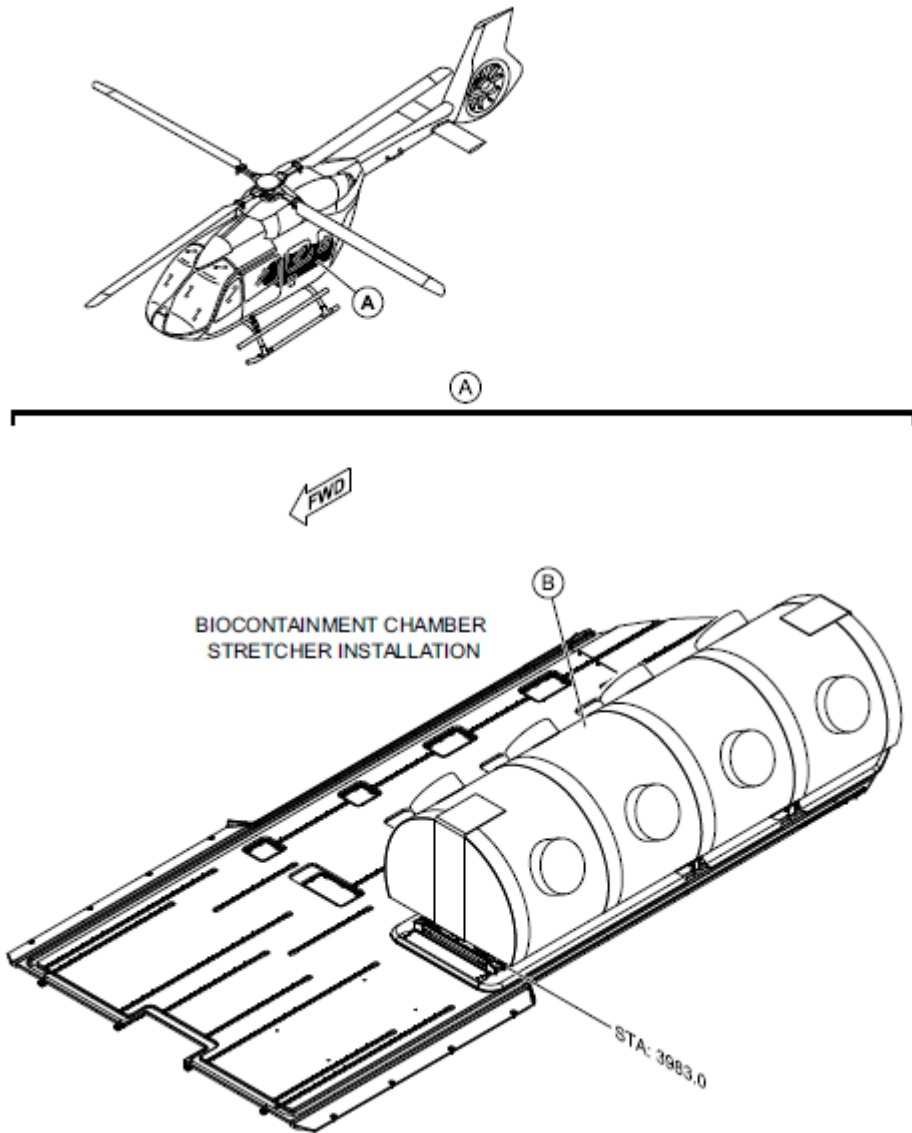
The Chamber is attached by means of a shoulder belts system (passing through the Biocontainment Camera) on top of the Ferno Modified Stretcher.

When the Ferno Modified Stretcher plus the Bio Chamber is loaded in the cabin of the helicopter, it is also attached by ventral and legs belts to the SAR Stretcher hooks.

All the belt system is an ETSO approved system.



BIO-CONTAINMENT CHAMBER





AMS Heli Design LLC.

Please meet us at:
www.amsheli.com

164 Gosnell Rd.
North Texas Regional Airport
Denison 75020 (TX)
Ph. (903) 419 2034