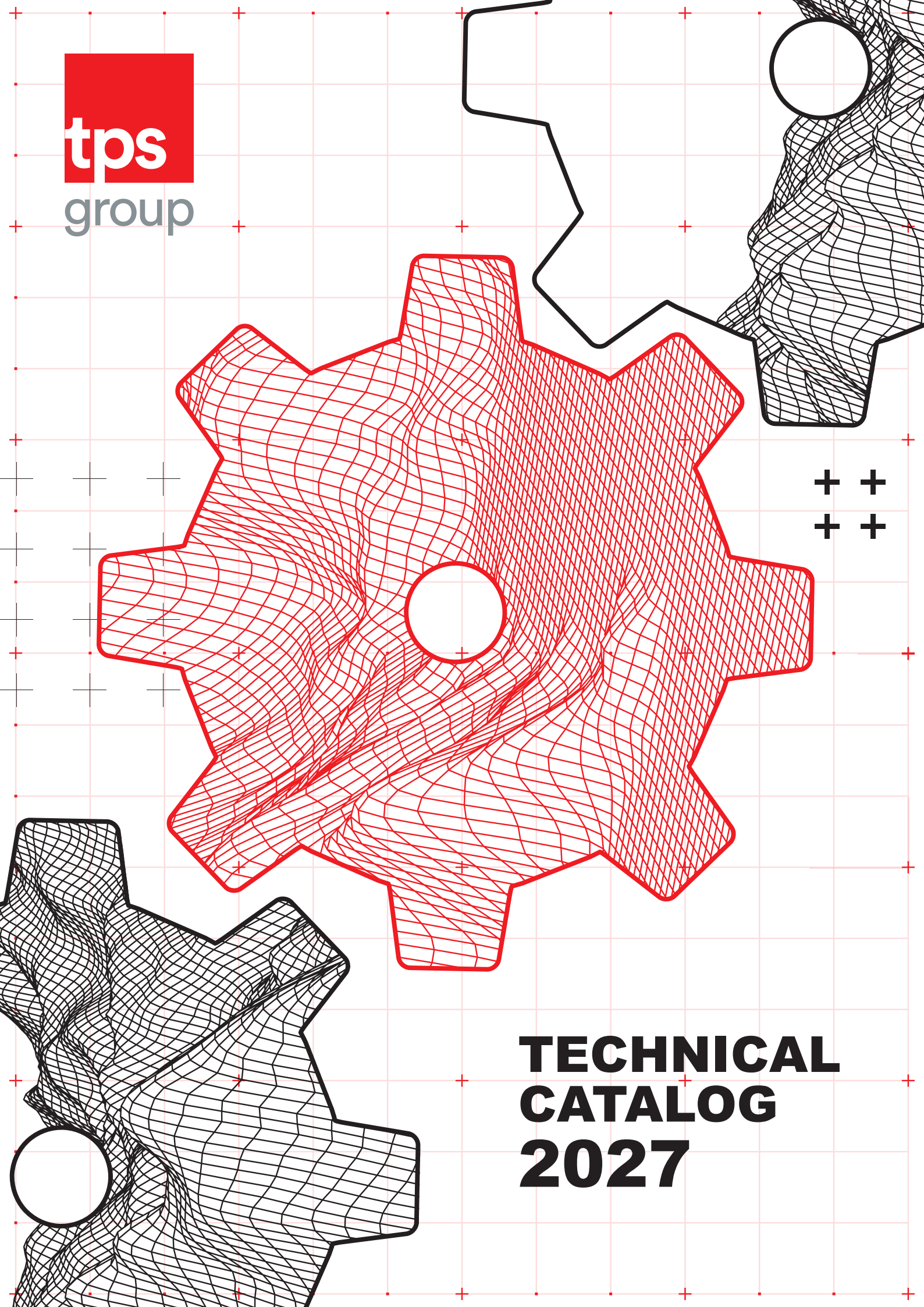
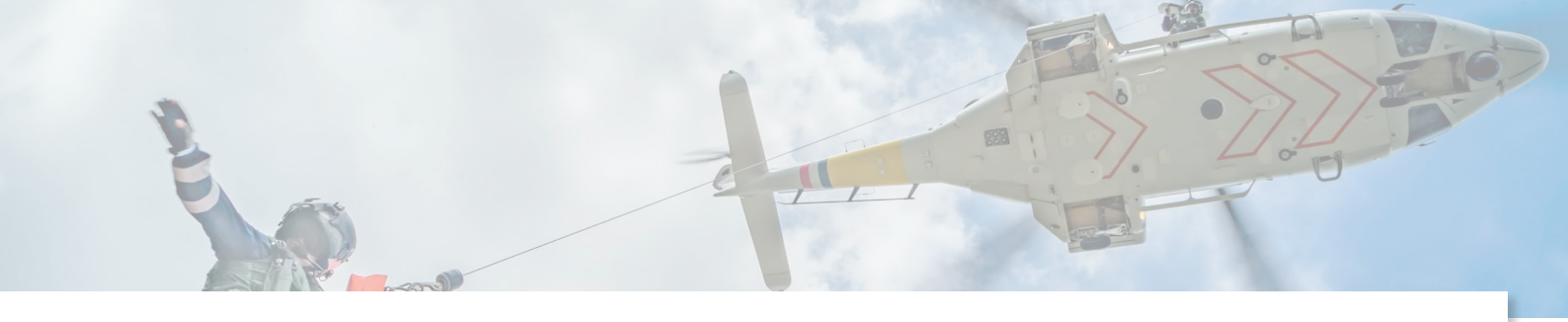
tps group



TECHNICAL CATALOG 2027

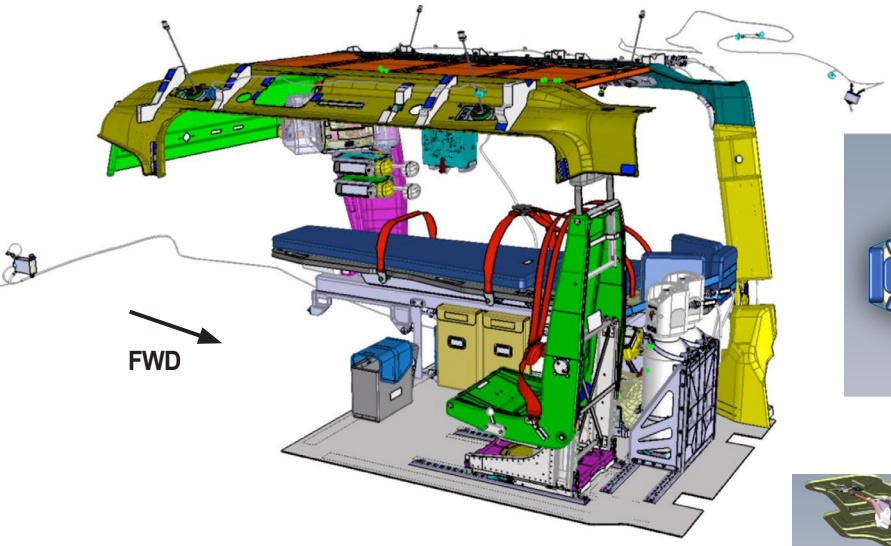


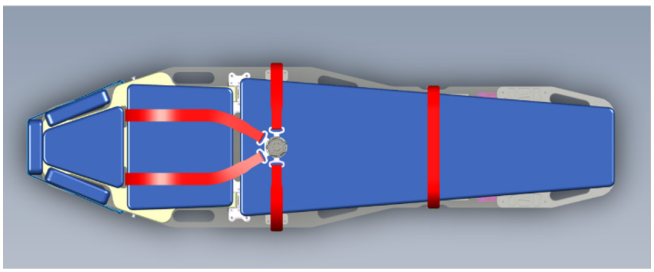
HEMS Interior on A109S Trekker 3
Medical Interior Kit AW139 – STC 10074503 4
Medical Interior Kit AW169 5
Medical Interior Kit AW189 6
Medical Rack AW139 7
Medical Rack AW169 – STC 10070355 8
Medical Rack AW189 9
Retainers for Medical Device 10
Retainers for Medical Device 11
New Neonatal Transport System 12
Cold Chain Medical Transport Kit 13
Medical Interior Kit AW189 – STC 10060444 14
Fixed Wing Medical Interior 15
Utility Pole Installation – STC 10073469 16
Multi Sensor POD 17
Magnetometer System 18
Human External Cargo Hooks 19
Dual or Single Basket – STC 10077943 20
Glass Cockpit Upgrade 21
Tip GPS Antenna Support 22
Collective Handle Protection 23
Sensor Management Internal Console 24
Battery replacement on AS332 – EASA STC 10085354 25
Battery replacement on MD900/MD902 (EASA STC on going) 26
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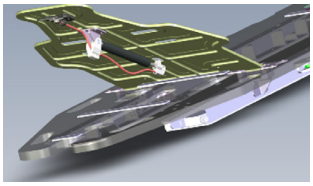
HEMS Interior on A109S

Cabin layout:

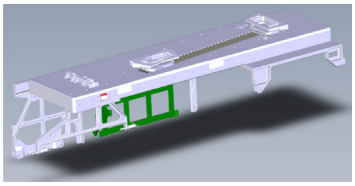




STRETCHER WITH CUSHION COLLECTION



RECLINING BACKREST



STRETCHER INTERFACE

Key Features:

Includes:

- ✓ Full HEMS interior on A109 Trekker (STC 10086111)
  - Structural and Rails Provision;
  - Stretcher installation
  - Swiveling seat
- ✓ EMS electrical provision (minor change to STC)
- ✓ Oxygen System (major change to STC)
- ✓ Retainer collection (minor change to STC)
- ✓ Incubator interface (minor change to STC)

Stretcher Major Components	Weight [kg]
Reclining Stretcher Assy	18.981
Reclining backrest Cushion Assy	1.103
Stretcher cushion Assy	2.396
Head Protection Assy	0.842
TOTAL PROVISION	23.32

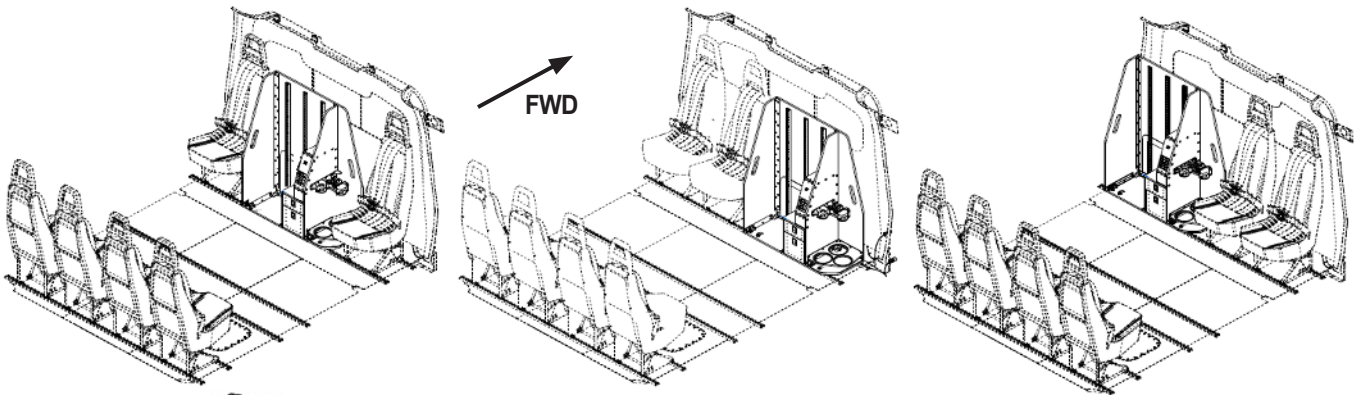
Applicability on A109S equipped with

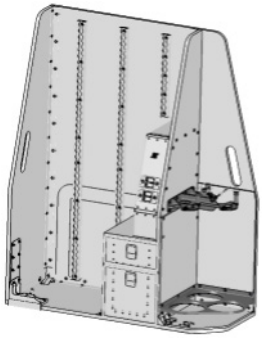
- **Trekker Kit p/n 109G0000F01-101/-201;**
- **Interior Utility (3+3 passengers places configuration) P/N 109G2520F33-103 or (2 rear passengers places configuration) P/N 109G2520F33-109.**

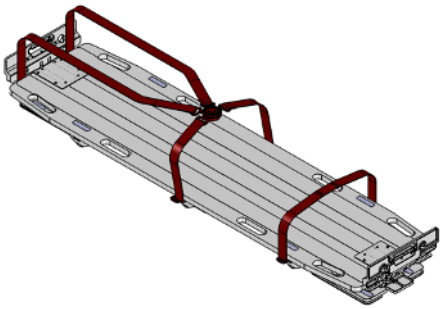
The kit installed is not compatible with LH Auxiliary Fuel Tank P/N 109-0813-32-107.



Includes a Rack with all the basic equipment for an aeromedical transportation and a custom stretcher.









Key Features:

- ✓ 3 Possible Configurations;
- ✓ CE Medical Certification & Production;
- ✓ Safe and Easy access to medical devices;
- ✓ N°2 Drawers for medical accessories, max 3kg/each;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails.

Electrical Characteristics:

- ✓ N°2 USB-A Charging Port, 2.1A/10 W per port;
- ✓ N°2 220V Universal Power Outlet;
- ✓ Max Power Consumption 500 W.

	Rack	Stretcher
p/n	TPS139-0300-0100-00-00	TPS139-0300-3000-00-00
Material	Composite Sandwich and AL 2024	
Dimension LxWxH	0.90 x 0.35 x 1.1 m	1.95 x 0.47 x 0.18 m
Weight	28.6 kg	29.5 kg

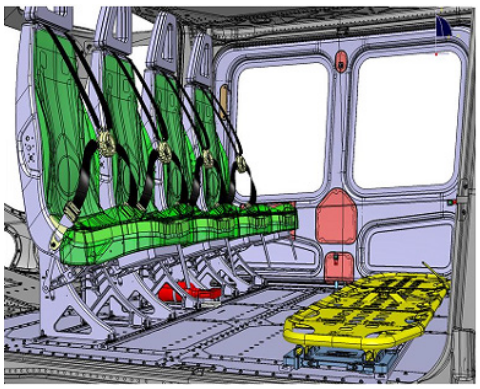
	Compatible Devices	Dimension and Weight
Monitor / Defibrillator	LIFEPAK 15 Physio-Control	40.1 x 31.7 x 23.1 cm 8.6 kg
N°2 Infusion Syringe pump	Perfusor Space B. Braun	24.9 x 6.8 x 15.2 cm 2 x 1.2 kg
Ventilator	Oxylog 3000 plus Dräger	29.0 x 18.4 x 17.5 cm 5.8 kg
Suction Unit	LSU Laerdal	31.5 x 33.0 x 16.0 cm 4.0 kg
N°3 Oxygen Cylinder	L7X-AL Luxfer gas cylinders	47.3 x (D) 14.0 cm 6.5 kg

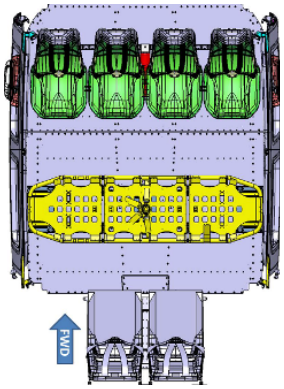
Applicability on AW 139 with:

- ✓ Leonardo helicopters Service Bulletin No. 139-290 12PAX, configuration p/n 4G2520F05911; or
- ✓ 12 passenger seats, configuration p/n 3G2520F00111.



Includes a Rack with all the basic equipment for an aeromedical transportation and a custom stretcher.

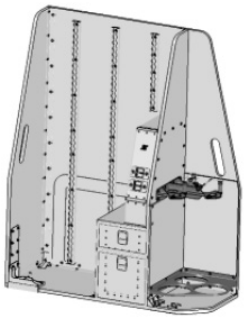


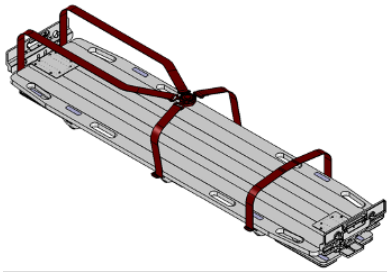


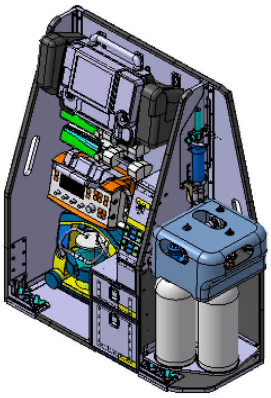
Cabin layout:

The whole installation is positioned transversally to the flight direction:

- ✓ Rack replaces two front row seats;
- ✓ Stretcher replaces the entire second row seats.







Key Features:

- ✓ 3 Possible Configurations;
- ✓ CE Medical Certification & Production
- ✓ Safe and Easy access to medical devices;
- ✓ N°2 Drawers for medical accessories, max 3 kg/each;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails.

Electrical Characteristics:

- ✓ N°2 USB-A Charging Port, 2.1A/10 W per port;
- ✓ N°2 220V Universal Power Outlet;
- ✓ Max Power Consumption 500 W.

	Rack	Stretcher
p/n	TPS139-0300-0100-00-00	TPS139-0300-3000-00-00
Material	Composite Sandwich and AL 2024	
Dimension LxWxH	0.90 x 0.35 x 1.1 m	1.95 x 0.47 x 0.18 m
Weight	28.6 kg	29.5 kg

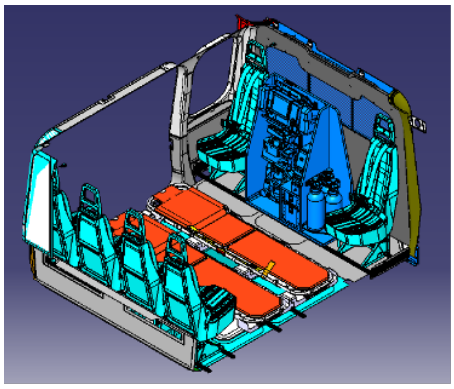
	Compatible Devices	Dimension and Weight
Monitor / Defibrillator	LIFEPAK 15 Physio-Control	40.1 x 31.7 x 23.1 cm 8.6 kg
N°2 Infusion Syringe pump	Perfusor Space B. Braun	24.9 x 6.8 x 15.2 cm 2 x 1.2 kg
Ventilator	Oxylog 3000 plus Dräger	29.0 x 18.4 x 17.5 cm 5.8 kg
Suction Unit	LSU Laerdal	31.5 x 33.0 x 16.0 cm 4.0 kg
N°3 Oxygen Cylinder	L7X-AL Luxfer gas cylinders	47.3x (D) 14.0 cm 6.5 kg

Applicability on:

- ✓ AW169 equipped with Aerolite medical interior STC to be developed.



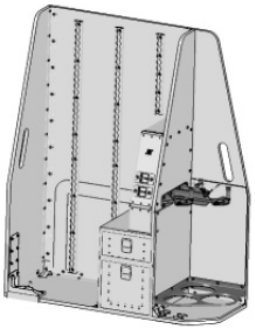
Includes a Rack with all the basic equipment for an aeromedical transportation and a custom stretcher.

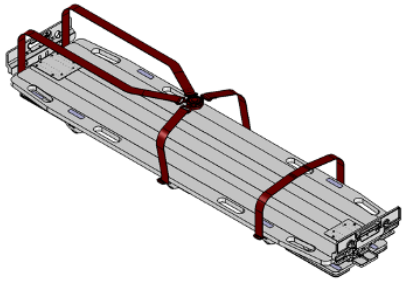


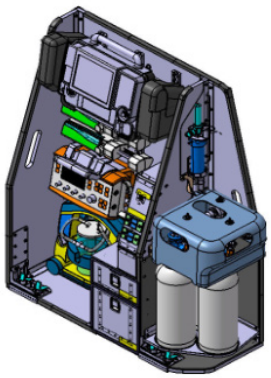
Cabin layout:

The whole installation is positioned transversally to the flight direction:

- ✓ Rack replaces two front row seats, behind Pilots. It can be installed optionally on right,centre or left of the same row, in order to have configuration flexibility;
- ✓ N°1 or N°2 Stretchers replaces the central seats rows.







Key Features:

- ✓ 3 Possible Configurations;
- ✓ CE Medical Certification & Production;
- ✓ Safe and Easy access to medical devices;
- ✓ N°2 Drawers for medical accessories, max 3 kg/each;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails.

Electrical Characteristics:

- ✓ N°2 USB-A Charging Port, 2.1A/10 W per port;
- ✓ N°2 220 V Universal Power Outlet;
- ✓ Max Power Consumption 500 W.

	Rack	Stretcher
p/n	TPS139-0300-0100-00-00	TPS139-0300-3000-00-00
Material	Composite Sandwich and AL 2024	
Dimension LxWxH	0.90 x 0.35 x 1.1 m	1.95 x 0.47 x 0.18 m
Weight	28.6 kg	29.5 kg

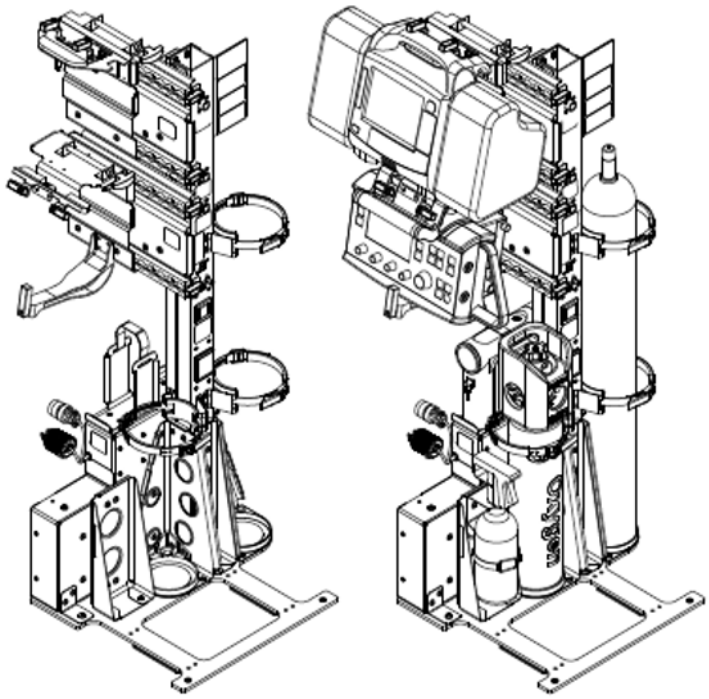
	Compatible Devices	Dimension and Weight
Monitor / Defibrillator	LIFEPAK 15 Physio-Control	40.1 x 31.7 x 23.1cm 8.6 kg
N°2 Infusion Syringe pump	Perfusor Space B. Braun	24.9 x 6.8 x 15.2 cm 2 x 1.2 kg
Ventilator	Oxylog 3000 plus Dräger	29.0 x 18.4 x 17.5 cm 5.8 kg
Suction Unit	LSU Laerdal	31.5 x 33.0 x 16.0 cm 4.0 kg
N°3 Oxygen Cylinder	L7X-AL Luxfer gas cylinders	47.3 x (D) 14.0 cm 6.5 kg

Applicability on:

- ✓ AW189 equipped with Aerolite medical interior STC to be developed.

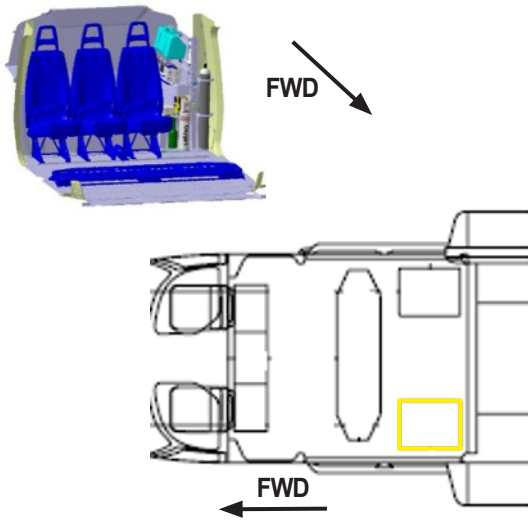


Designed to support medical devices and Air/O2 cylinders essential for airborne medical assistance.



Cabin layout:

Rack replaces the external left passenger seat in the rear row.



Key Features:

- ✓ CE Medical Certification & Production;
- ✓ Compliant with flammability Requirement;
- ✓ Accessory Box for Medical Devices and O2/Air bottles;
- ✓ Rotate shelf for clear view of Medical Devices;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails;
- ✓ Fire Extinguisher Support;
- ✓ Integrated Electrical System.

Electrical Characteristics:

- ✓ N°1 220 VAC 60 Hz 550 VA Power Outlet;
- ✓ N°1 115 VAC 50 Hz 500 VA Power Outlet;
- ✓ N°2 USB sockets up to 2.4 A;
- ✓ N°3 28 VDC Power Sockets to supply the medical devices;
- ✓ Max Power Consumption 500 W.

Applicability on:

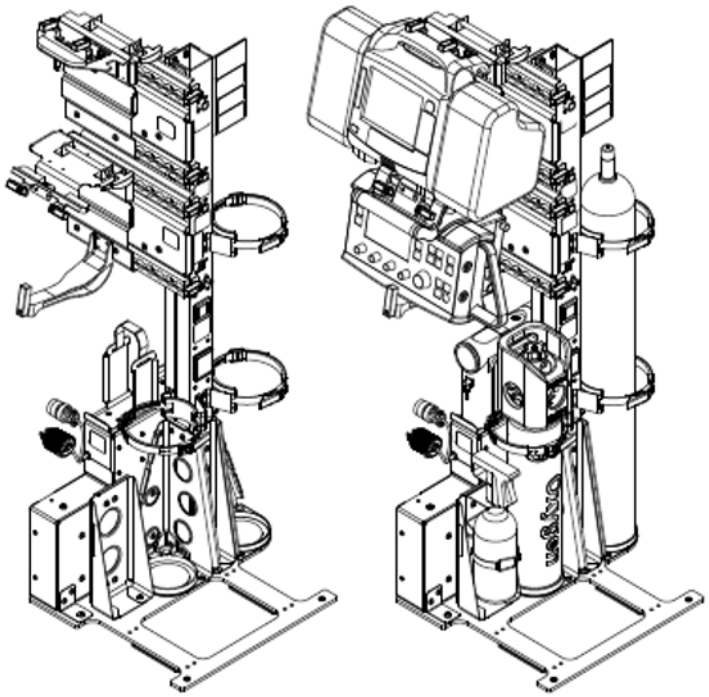
- ✓ STC to be developed.

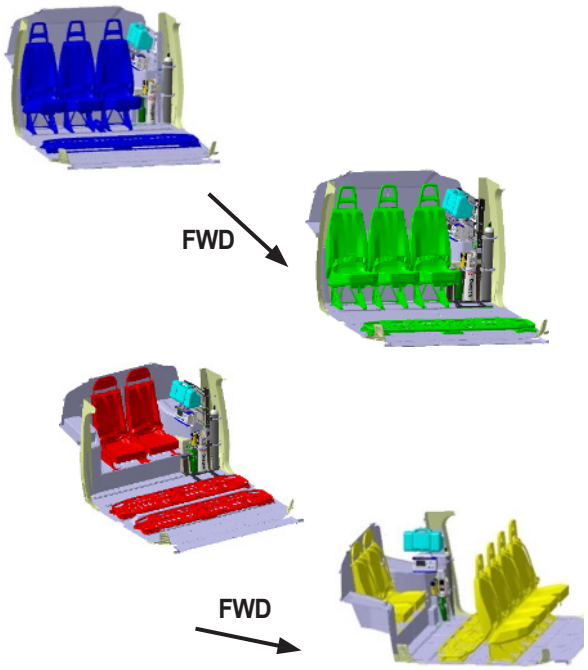
	Medical Rack
p/n	TPS169-03-00
Material	AL2024
Dimension LxWxH	40.2 x 28.3 x 122 cm
Weight	16.2 kg

	Compatible Devices	Dimension and Weight
Monitor / Defibrillator	X series Zoll	29 x 18.4 x 17.5 cm 6.0 kg
Ventilator	Oxylog 3000 Draeger	29 x 18.4 x 17.5 cm 5.8 kg
Suction Unit	LCSU4 Laerdal	22 x 13 x 10.8 cm 3 kg
Oxygen bottle	BOC 101-CD BOC	L x D: 52 x 10 cm 3.5 kg
Medical Air bottle	BOC 191-E BOC	L x D: 86.5 x 10.6 cm 6.5 kg



Designed to support medical devices and Air/O2 cylinders essential for airborne medical assistance.





Key Features:

- ✓ CE Medical Certification & Production;
- ✓ Compliant with flammability Requirement;
- ✓ Accessory Box for Medical Devices and O2/Air bottles;
- ✓ Rotate shelf for clear view of Medical Devices;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails;
- ✓ Fire Extinguisher Support;
- ✓ Integrated Electrical System.

Electrical Characteristics:

- ✓ N°1 220 VAC 60 Hz 550 VA Power Outlet;
- ✓ N°1 115 VAC 50 Hz 500 VA Power Outlet;
- ✓ N°2 USB sockets up to 2.4 A;
- ✓ N°3 28 VDC Power Sockets to supply the medical devices;
- ✓ Max Power Consumption 500 W.

	Medical Rack
p/n	TPS169-03-00
Material	AL2024
Dimension LxWxH	40.2 x 28.3 x122 cm
Weight	16.2 kg

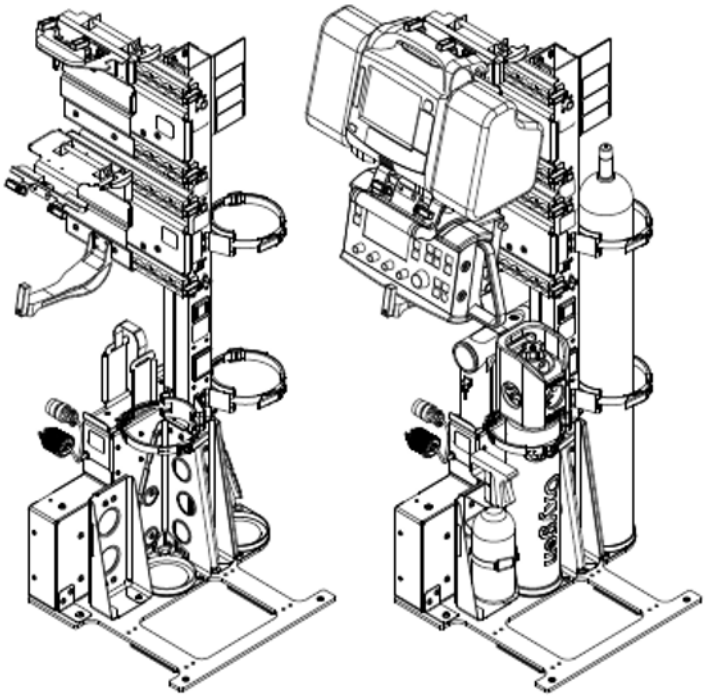
	Compatible Devices	Dimension and Weight
Monitor / Defibrillator	X series Zoll	29 x 18.4 x 17.5 cm 6.0 kg
Ventilator	Oxylog 3000 Draeger	29 x 18.4 x 17.5 cm 5.8 kg
Suction Unit	LCSU4 Laerdal	22 x 13 x 10.8 cm 3 kg
Oxygen bottle	BOC 101-CD BOC	L x D: 52 x 10 cm 3.5 kg
Medical Air bottle	BOC 191-E BOC	L x D: 86.5 x 10.6 cm 6.5 kg

Applicability on:

- ✓ AW169 RFM Supplement 40 “Stretcher installation” incorporated;
- ✓ Compatible with other configurations (STC to extended).

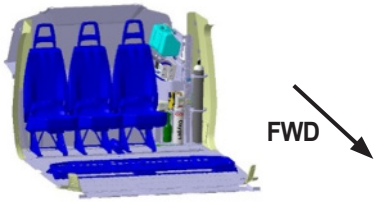


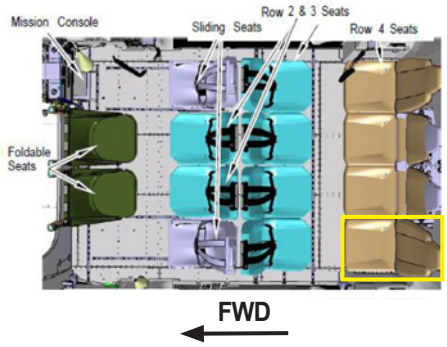
Designed to support medical devices and Air/O2 cylinders essential for airborne medical assistance.



Cabin layout:

Rack replaces the external left passenger seat in the rear row.





Key Features:

- ✓ CE Medical Certification & Production;
- ✓ Compliant with flammability Requirement;
- ✓ Accessory Box for Medical Devices and O2/Air bottles;
- ✓ Rotate shelf for clear view of Medical Devices;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails;
- ✓ Fire Extinguisher Support;
- ✓ Integrated Electrical System.

Electrical Characteristics:

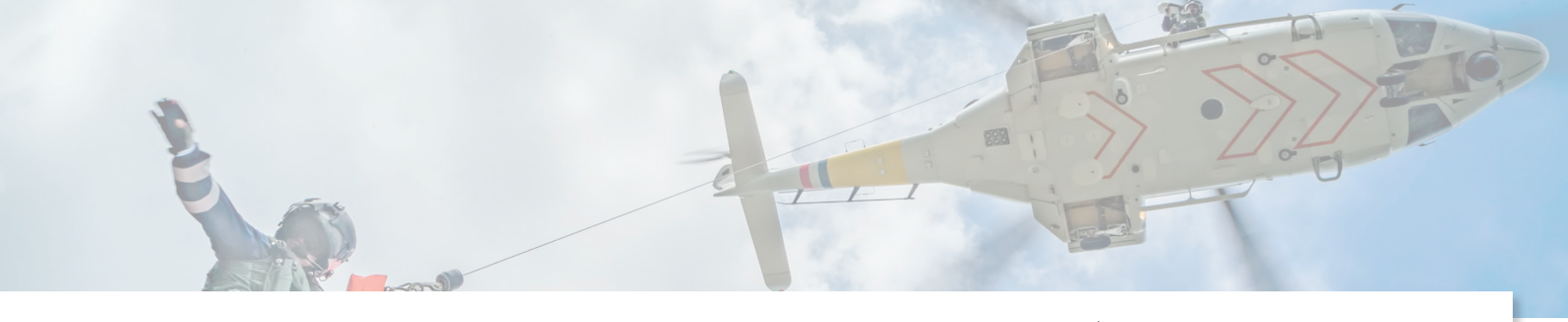
- ✓ N°1 220 VAC 60 Hz 550 VA Power Outlet;
- ✓ N°1 115 VAC 50 Hz 500 VA Power Outlet;
- ✓ N°2 USB sockets up to 2.4 A;
- ✓ N°3 28 VDC Power Sockets to supply the medical devices;
- ✓ Max Power Consumption 500 W.

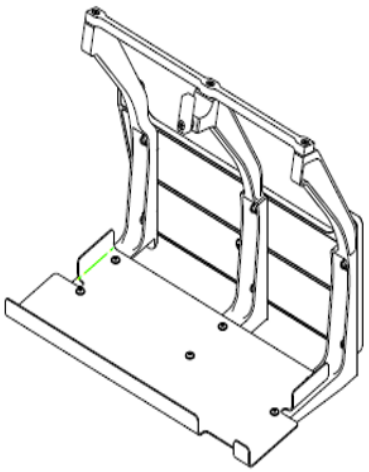
Applicability on:

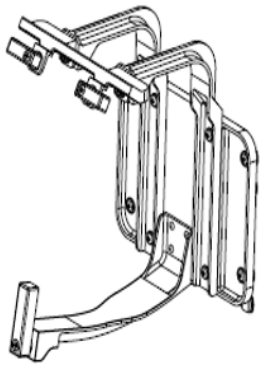
- ✓ STC to be developed.

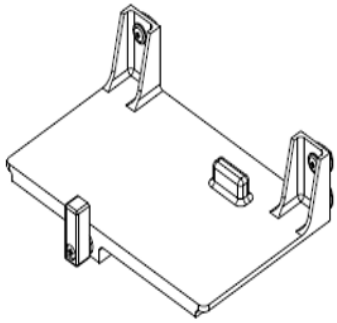
	Medical Rack
p/n	TPS169-03-00
Material	AL2024
Dimension LxWxH	40.2 x 28.3 x 122 cm
Weight	16.2 kg

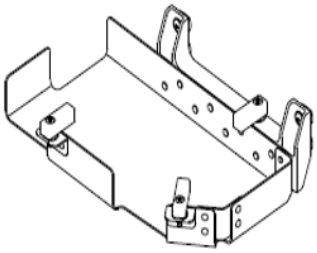
	Compatible Devices	Dimension and Weight
Monitor / Defibrillator	X series Zoll	29 x 18.4 x 17.5 cm 6.0 kg
Ventilator	Oxylog 3000 Draeger	29 x 18.4 x 17.5 cm 5.8 kg
Suction Unit	LCSU4 Laerdal	22 x 13 x 10.8 cm 3 kg
Oxygen bottle	BOC 101-CD BOC	L x D: 52 x 10 cm 3.5 kg
Medical Air bottle	BOC 191-E BOC	L x D: 86.5 x 10.6 cm 6.5 kg

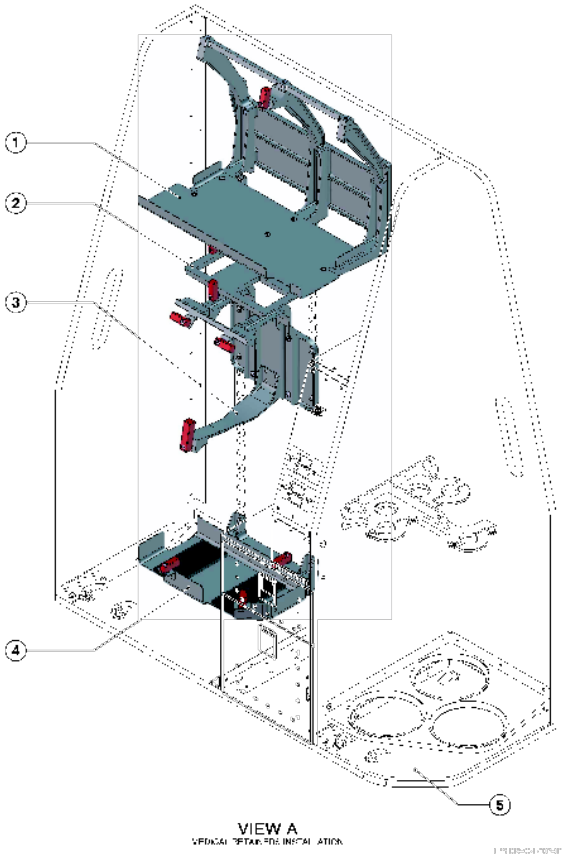












Key Features:

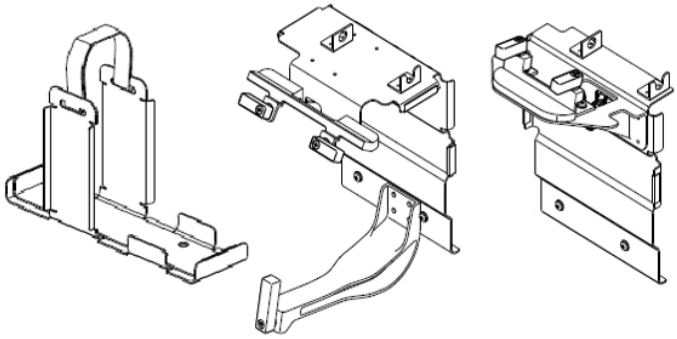
- ✓ Material AL2024;
- ✓ 1/4 turn lock the devices;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails.

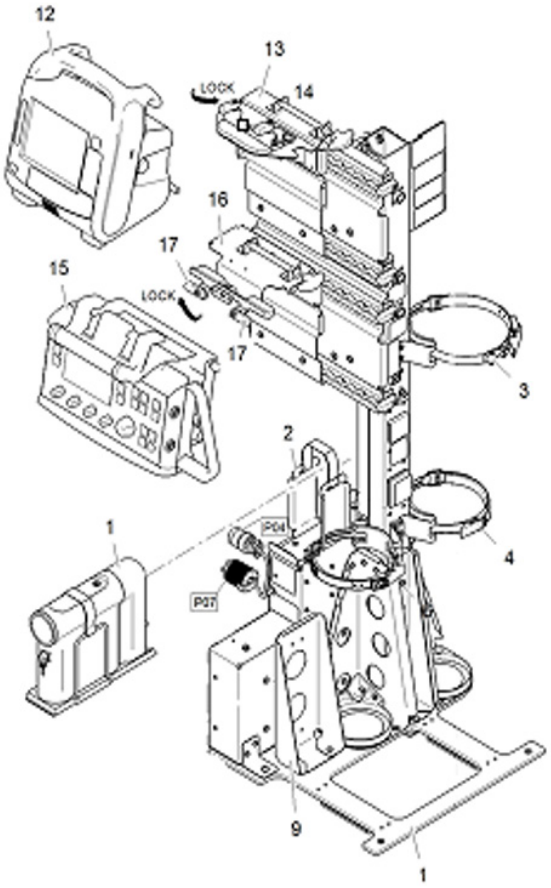
	p/n	Retainer	Max Weight
1	TPS139-0400-1010-00-00	Support Assy Lifepack15	10.5 kg
2	TPS139-0400-1030-00-00	Support Assy Braun	3.9 kg
3	TPS139-0400-1020-00-00	Oxylog3000 Support Assy	6.9 kg
4	TPS139-0400-1040-00-00	Support Assy Laerdal	4.56 kg

Applicability on:

- ✓ Medical Interior Kit AW139 Rack, p/n TPS139-0300-0100-00-00;
- ✓ Medical Rack, p/n TPS169-03-00;
- ✓ Other Medical Rack with rails to be developed.







Key Features:

- ✓ Material AL2024;
- ✓ 1/4 turn lock the devices;
- ✓ Quick and Easy Attach and Remove, compatible with standard attachment seat rails.

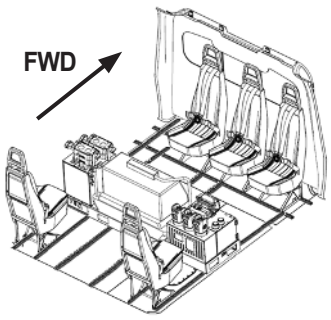
	p/n	Retainer	Max Weight
2	TPS169-0500-1010-00	Lcsu Main Support Assy	
13	TPS169-0500-1020-00	Oxylog 3000 Plus Main Support Assy	6 kg
16	TPS169-0500-1030-00	Zoll X-Series Main Support Assy	1.6 kg

Applicability on:

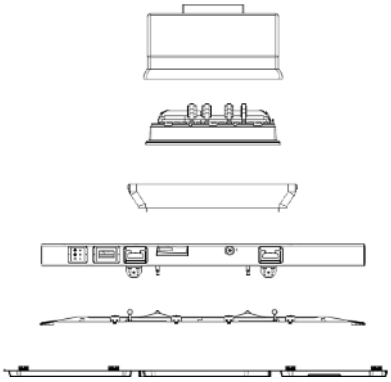
- ✓ Medical Interior Kit AW139 Rack, p/n TPS139-0300-0100-00-00;
- ✓ Medical Rack, p/n TPS169-03-00;
- ✓ Other Medical Interiors with rails to be developed.



Designed for Airborne and Road Neonatal Intensive Care unit, the Neonatal Transport System is a modular platform for the ATOM V-808 incubator transport and the medical devices connected to it.







Key Features:

- ✓ Child restraint system;
- ✓ CE Medical Certification & Production;
- ✓ Compliant with flammability Requirement;
- ✓ Accessory Box for Medical Devices and O2/Air bottles;
- ✓ N°2 drawers for medical accessories, max 1.5 kg/each;
- ✓ Quick and Easy Attach and Remove;
- ✓ Platform Compatible to
  - Aerolite EMS Multimission floor through an Interface Frame;
  - Standard CE Stretcher;
- ✓ Platform equipped with
  - Electrical system;
  - Oxygen system;
  - Incubator quick release system;
  - Platform hooking system to the interface frame.

Electrical Characteristics:

- ✓ AC:220 – 240 V AC, 800 VA;
- ✓ DC:12 V DC, 16 A max.

	Medical Rack
p/n	TPS169-03-00
Material	AL2024
Dimension LxWxH	40.2 x 28.3 x 122 cm
Structure Weight	40.5 kg
Interface frame	15 kg
Transport Incubator ATOM V-808	37 kg
Weight with compatible devices	145 kg

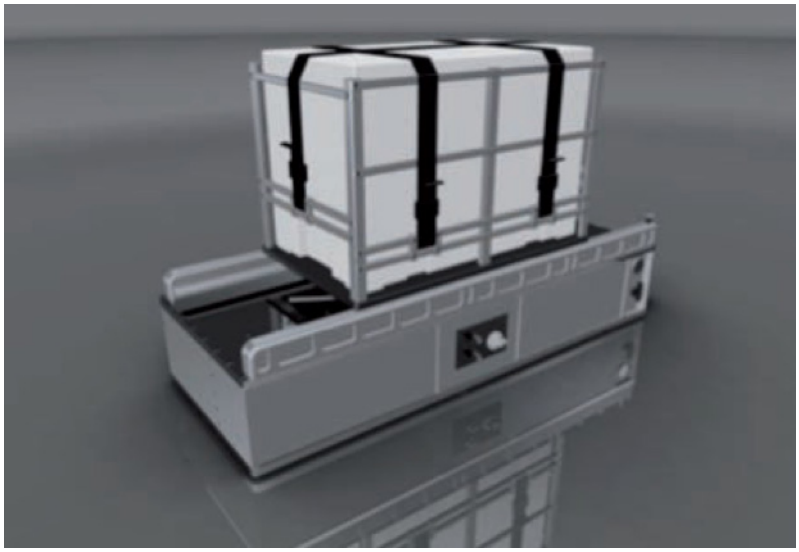
	Compatible Devices	Dimension and Weight
Intelligent transport ventilation	Hamilton – T1 Hamilton Medical AG	31 x 22 x 24.5 cm 6.5 kg
N°4 Infusion Syringe pump	Perfusor Space B. Braun	24.9 x 6.8 x 15.2 cm 4 X 1.2 kg
Suction Unit	LSU - 4 Laerdal	18.5 x 8.12 x 26.2 cm 1.6 kg
Monitor	Philips Intellivue MP30 Philips	34.5 x 23.0 x 27.5 cm 5.8 kg
N°3 O2/Air Cylinder	Luxfer type BFC	3 x 7 kg

Applicability on:

- ✓ AW139 – STC 10076967, AW169, EC145 with Aerolite EMS Equipment Symmetrical installation (FWD and AFT);
- ✓ CE marked for the use in Hospitals and on Road Ambulances.



Designed for quick and easy transport at constant temperature of medical products: Organ, Vaccines, Blood and Drugs.



Key Features:

- ✓ Maximum Payload 50 kg;
- ✓ Thermally insulated;
- ✓ Vibration damping;
- ✓ Compatible with standard attachment rails;
- ✓ Steel rail attachment points.
- ✓ Aluminum structure;
- ✓ Fire resistant in accordance with CS-25 Appendix F;
- ✓ Crash-safe as per CS-2X.561.

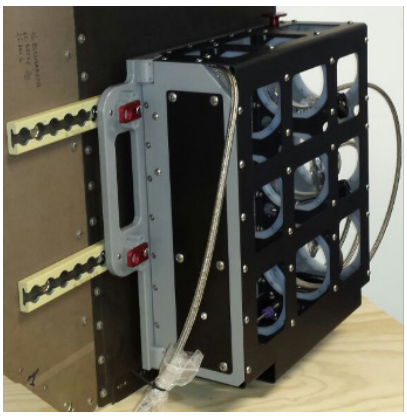
	Cold Chain Medical Transport Kit
p/n	TPSL31-001-00
Dimension LxWxH	58.0 x 35.0 x 50.0 cm
Structure Weight	13 kg

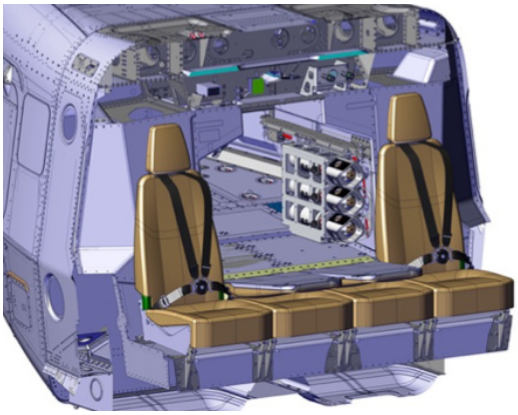
Applicability on:

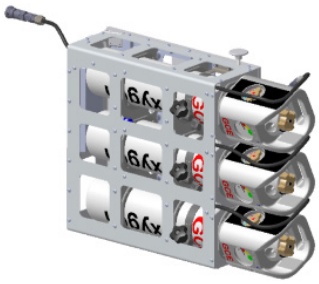
- ✓ Helicopter;
- ✓ Airplane;
- ✓ Road Ambulance.

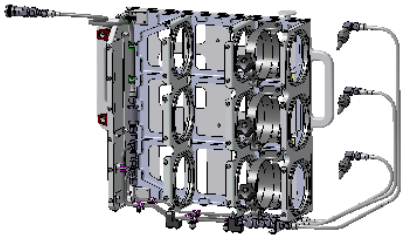


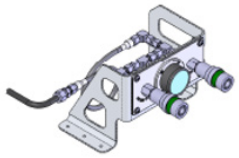
Designed to enable helicopters with a high-density cabin configuration to carry out missions which require an onboard oxygen supply.











Key Features:

- ✓ Oxygen box, fixed on the left sidewall tunnel, between cabin and baggage compartment, behind the 4th seat row;
- ✓ N°3 Oxygen cylinders, Integral valve type, max pressure 230 bar;
- ✓ oxygen lines are contained in the box and protected from accidental hits;
- ✓ Dispensing unit, composed by an oxygen distribution panel, interfacing with the fixed provision in the cabin:
  - N°2 outlets and;
  - N°1 manometer for low pressure indication;
- ✓ Oxidization is also important for the cleaning of the system, and its protection against cleaning agents, grease, oil and other liquids;
- ✓ system is not connected to any power source.

	Medical Rack
p/n	TPS189-00100-00
Material	7075 Al and AISI 630
Dimension LxWxH	52.7 x 14.8 x 40.0 cm
Structure Weight with 3 cylinders	19.9 kg

Applicability on AW 189 with:

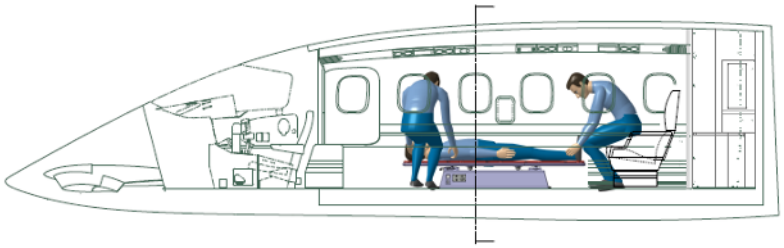
AW189 equipped the following kits (AgustaWestland part numbers):

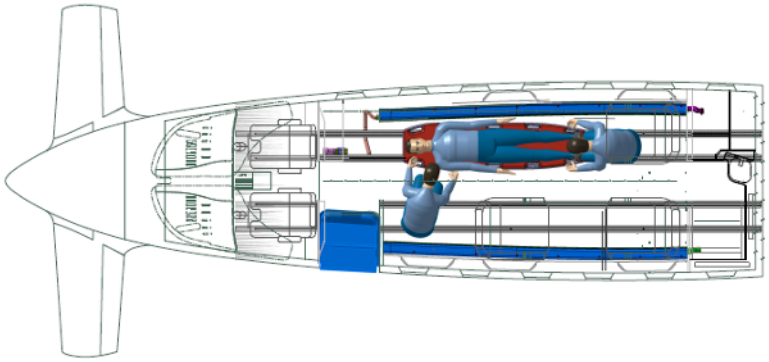
- ✓ 8G2550F00411 passenger cabin extension kit;
- ✓ 8G2550F00611 tunnel stowing zone kit;
- ✓ 8G3520F00111 oxygen system provision kit;
- ✓ 8G5315F00111 stowage tray kit.

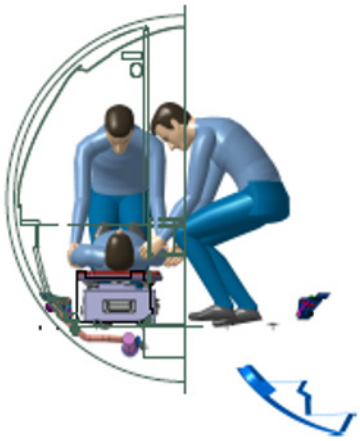


Includes a base module with all the basic equipment for an aeromedical transportation and a custom stretcher.

The interface between the stretcher and the base module is specially designed with grooves and rollers to facilitate maneuvering the patient in the confined space.
The base module can obtain oxygen from an onboard system or from two internal oxygen cylinders with up to 600L of medical oxygen.







Key Features:

- ✓ Aerospace-grade aluminum and carbon fiber construction;
- ✓ Compatible with standard attachment rails;
- ✓ Quick and Easy Attach and Remove
- ✓ Compatible to onboard oxygen system, or;
- ✓ Internal Oxygen System with, N°2 O2 Cylendr, 2L/ea capacity;
- ✓ Specially made to fit P180 cabin dimensions.

	P180 Medical Kit
p/n	TPS180-001-00
Material	Alluminum and Carbon fiber
Dimension LxWxH	184.0 x 46.0 x 30.0 cm
Structure Weight	55 kg

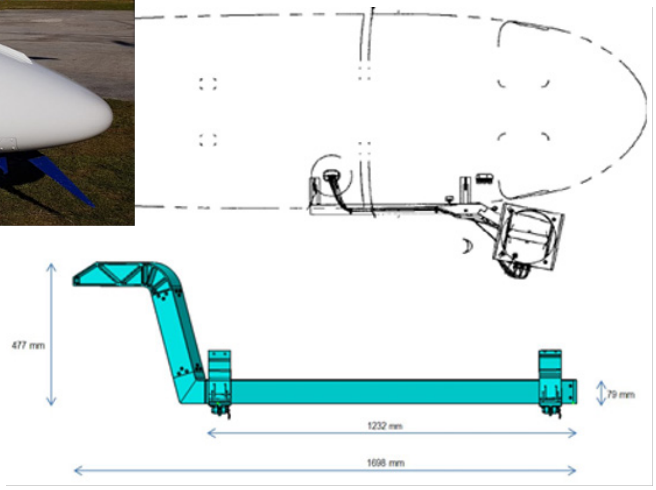
Applicability on:

- ✓ Helicopter;
- ✓ Airplane;
- ✓ Road Ambulance.



Designed to install the right pole with RIEGL VP-1 kit p/n TPS109-03-00 for the application of the Long Range LiDAR Sensor in airborne surveying missions.





Key Features:

- ✓ Pole:
  - Aluminium with stainless steel fittings;
  - Structure is oxidized to guarantee; protection against weather condition, grease, oil and other liquid;
  - Fixed to the primary structure of the rotorcraft through the four flanges;
- ✓ Rapid installation/removal of payloads compatible with Dove Tail (copyrighted);
- ✓ Compatible with different Pod types;
- ✓ RLE Laptop for monitoring and analyzing data, secured on passenger seat.

Electrical Characteristics:

- ✓ VP-1 Pod:
  95W, 3.40A @ 28VDC;
- ✓ RLE Laptop:
  90W.

Applicability on:

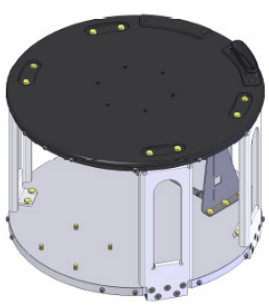
- ✓ A109E.

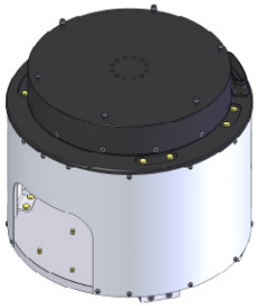
	POLE
p/n	TPS169-03-00
Material	AL2024
Dimension LxWxH	170.0 x 48.0 cm
Structure Weight	14.0 kg

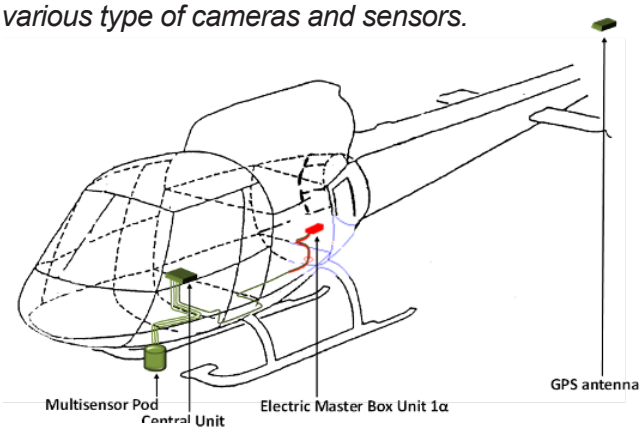
	Compatible Devices	Weight
RIEGL Airborne Laser Scanning (ASL)	RIEGL	19 kg
Dove Tail Quick Release	DT-1-11	1,09 kg
Latitude Rugged Extreme (RLE) Laptop	Model 7414	3.69 kg

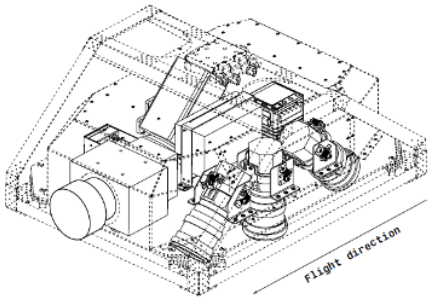


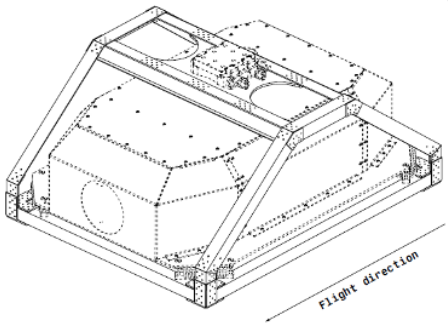
Designed to perform aerial work requiring multiple and various type of cameras and sensors.

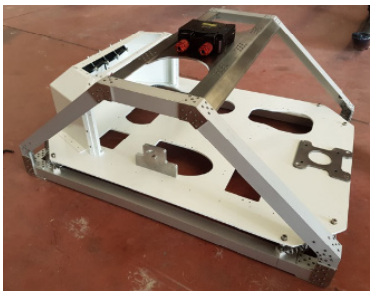












Key Features:

- ✓ POD installation does not introduce limitations;
- ✓ Attached to the AFDP-1 Down Post Utility Bracket through the Dovetail;
- ✓ Integrated Damping System;
- ✓ Structure with High stiffness and strength properties without increasing weight;
- ✓ Central Unit located on central passenger seat;
- ✓ GPS antenna mounted on vertical fin cap.

Electrical Characteristics:

- ✓ 29.9A @28VDC

Applicability on:

- ✓ AB350B2, AB350B3, Equipped with Airfilm Camera System AFDP-1 Down Post Utility Bracket, installed in accordance with STC No. SR 01784 LA - EASA IM.R.S 1158;
- ✓ AS355N Equipped with Airfilm Camera System AFSP-1 Single Pole Utility Mount, installed in accordance with STC No. 10059324;
- ✓ Bell 206B S/N 4511 marks I-ECJR equipped with STC No. SR01654 LA - EASA IM.R.S.01162 and TPS-AE Change ID TPS206-02-00;
- ✓ Helicopters equipped with Utility Brakets.

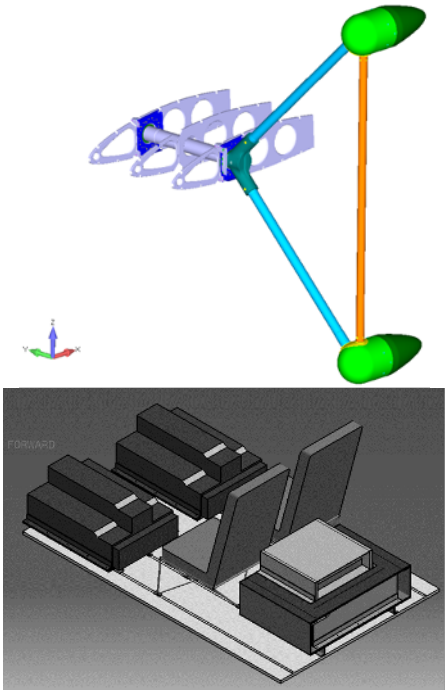
	Multi Senso PODs
Material Structural	Alluminium Alloy / Stainless Steel
Dimension DxH/LxWxH	40 x 52 cm / 40 x 32 cm / 79 x 60 x 32
Frontal Area	0.182 m^2 / 0.105 m^2 / 0.189 m^2
Structure Weight	20 ÷ 30 kg

	Compatible Devices	Weight
Laser Scanner	Riegel VUX-1	3.89 kg
VUX-1 control Module	Riegel	0.29 kg
Micro – MCA6	Tetracam	0.53 kg
Aerial Camera	Phase One iXA-160	2.0 kg
Full-HD Broadcast A/V Camera	MarshallCV342-CS	0.30 kg
Ultra-HD Camera	Avigilon H4 HD Pro	1.14 kg
Infrared Camera	VarioCAM ® HD head 900	1.30 kg
Cooling Fan	Oriental Motor MD625B-24L	0.1 kg



Designed to install the right pole with RIEGL VP-1 kit p/n TPS109-03-00 for the application of the Long Range LiDAR Sensor in airborne surveying missions.





Key Features:

- ✓ N°4 Magnetometer Supports, composed by 2-array vertical sensor system with an aerodynamic fiberglass amagnetic structure pod;
- ✓ N°3 structural interface for the internal spectrometers;
- ✓ Rack:Devices,p/n TPSPC6-00200-1503, installed inside the cabin for:
  - IMU Unit;
  - Fluxgate;
  - MiniMUX;
  - Interface Control;
  - Power Distribution Unit;
- ✓ Underwing Pod, installed on the wing strut, for:
  - Thermometer / Pressure gauge;
  - Camera;
- ✓ Row of passenger seats is installed to accommodate the payload operators;

Left and right auxiliary tanks installed, max 228 kg.

Applicability on:

- ✓ Pilatus Aircraft PC6 B2-H4.

Electrical Characteristics:

- ✓ 25.3 A @ 28 VD;
- ✓ Power consumption 708.4W.

The kit is stand alone and does not communicate nor interfere with the A/C systems.

	Compatible Devices	Weight
N°4 Magnetometer		4 x 1.3 kg
N°3 Spectometer		90 ÷ 102 kg
Underwing Pod		0.407 kg
Cabin Rack Devices		13.24 kg
N°2 auxiliary tank		2 x Max 228 Kg

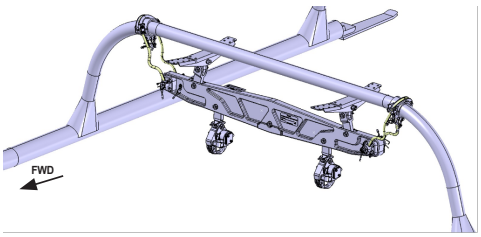


Designed to carry a 420kg HEC payload, the TPS's Human External Cargo Hooks kit is provided of:

A Load Beam fixed to the lower splices of the helicopter to support two electrohydraulic hooks, and

Its own quick Release System composed by an electrical Primary Quick Release System (PQRS) and a hydro-mechanical Backup Quick Release System (BQRS).





Key Features:

System composed by:

- ✓ Dedicated Hydraulic system for Quick Release System QRS
  - electrical PQRS
  - hydraulic BQRS
- ✓ Extended Load Beam, with
  - 2 electro-hydraulicHooks for anti-rotation and emergency attaching mean

	Human External Cargo hooks
p/n	TPS350-31-00
Material	Aluminum
Dimension Load Beam LxWxH	121.0 x 35.0 x 14.0 cm
Max Weight with payload	470 Kg (MAX Payload 420 kg)

Applicability on:

- ✓ AS 350B3e.



Designed to increase the Aircraft volume payload capability, the TPS basket compartment can carry miscellaneous items, such as luggage, up to 90 kg of mass, in a volume of 140 dm³ (5 cuft) each one.





Key Features:

- ✓ Installed on the landing skid, left or/and right;
- ✓ Rapid installation/removal;
- ✓ Inside Restraint belts for payload;
- ✓ Low weigh and high strength;
- ✓ No sharp edges.

Being installed below the step, basket(s) installation does not affect boarding or deplaning flight crew nor passengers or ground services.

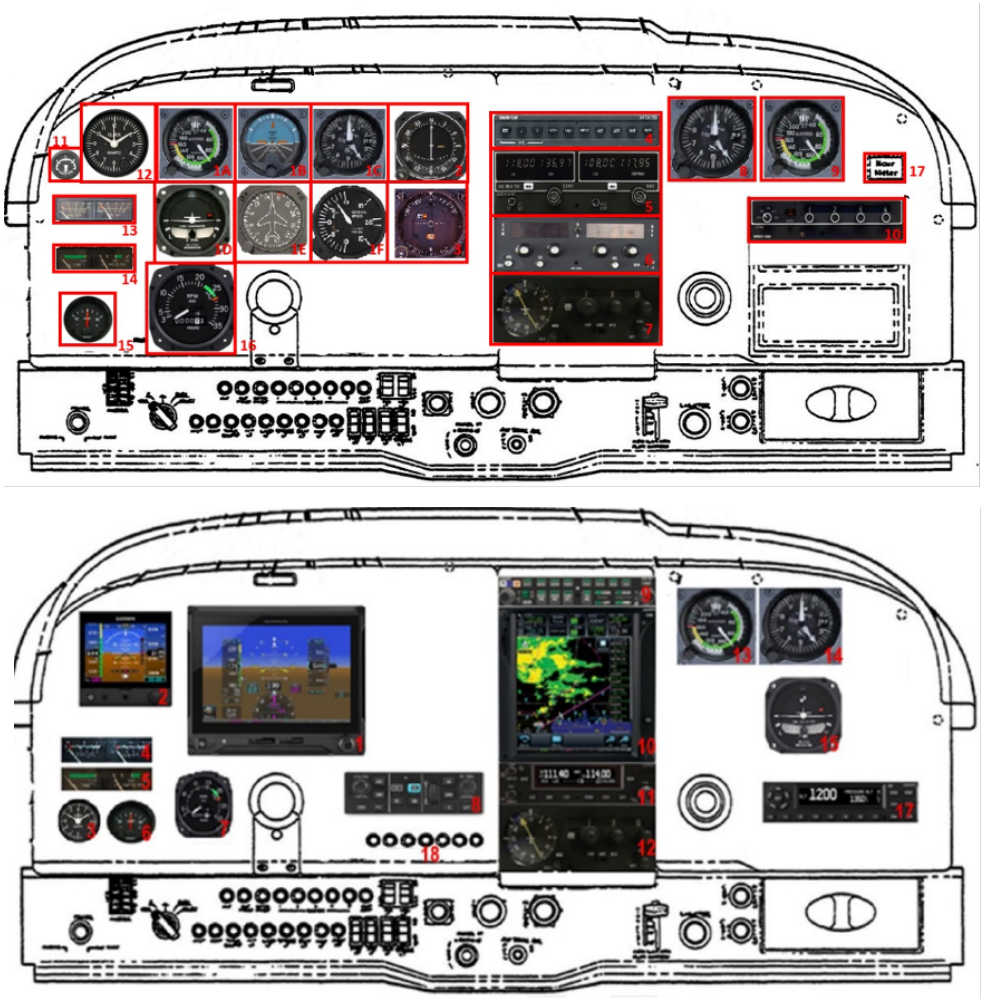
	External Basket
p/n	TPS350-12-00
Material	Aluminum
Dimension Load Beam LxWxH	130.0 x 72.5 x 32.5 cm
Max Weight with payload	114 Kg each one (MAX Payload 90 kg each one)

Applicability on:

- ✓ AS 350 B1, B2 and B3.



Designed to reduce the number of instruments and gauges on the instrument panel and pilot workload by concentrating all necessary information in one place.



Key Features:

- ✓ Replace antiquated analog equipment;
- ✓ Reorganization of instrumental panel;
- ✓ concentrates key information into one or two electronic displays;
- ✓ Reduce instrument panel clutter;
- ✓ Reduce costs for repairing;
- ✓ Optical compensation, anti-glare, full sunlight readability.

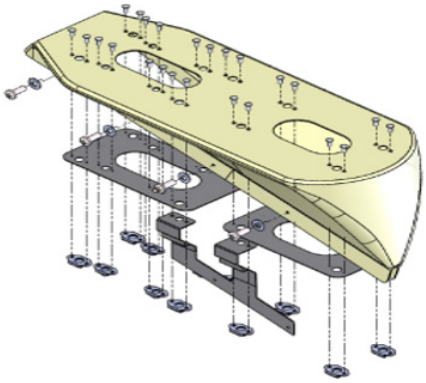
Applicability on:

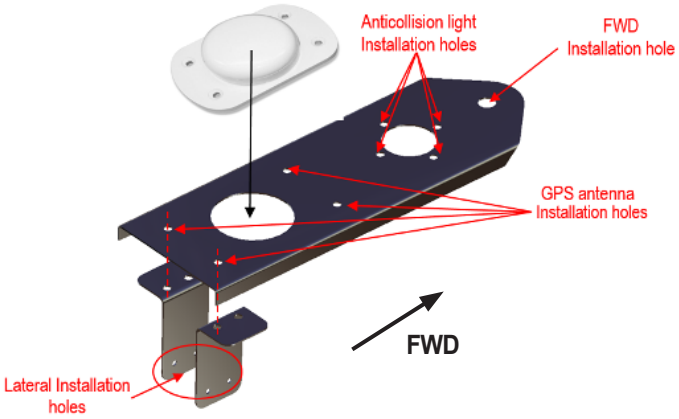
- ✓ Airplane;
- ✓ Helicoptes.

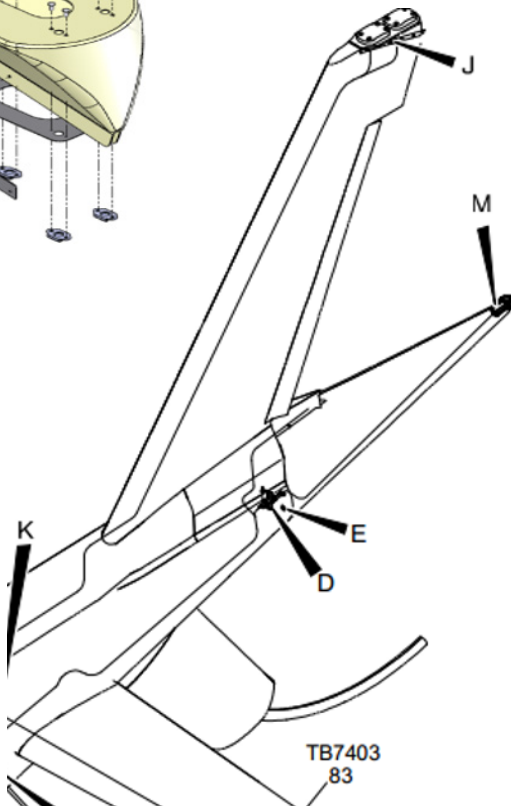


Designed to support adds the ability to mount a second antenna, without modifying the installation of the original antenna.









Key Features:

- ✓ Replaces original tail tip;
- ✓ Supports GPS antennas;
- ✓ Single or Dual antenna capability;
- ✓ manufactured with composite materials or AL 2024 to ensure high strength and low weight.

Applicability on:

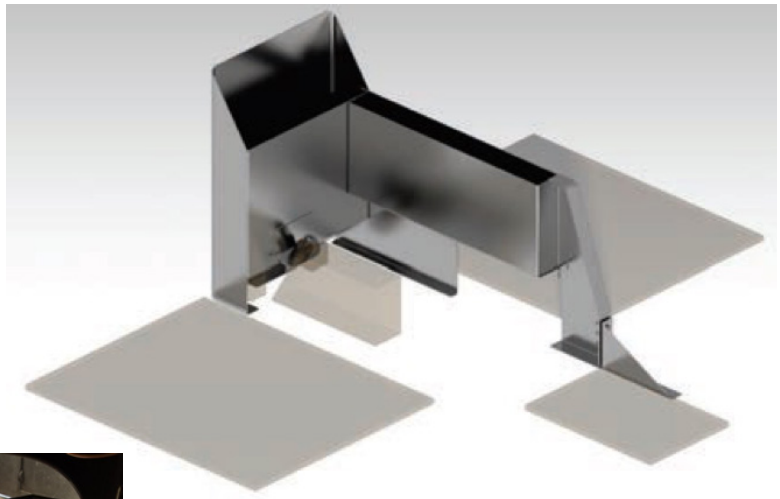
- ✓ W109, AW119, AS350/355;
- ✓ Bell 206.

	p/n	Weight
Antenna support assy	TPS119-00100-1000	0.4 kg
Material	Composite	
Antenna support assy	TPS206-0200-1000-00	0.066 kg
Material	AL 2024	

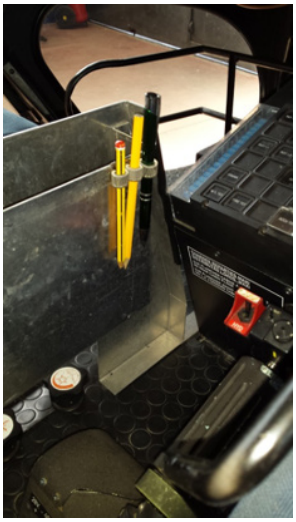
	Compatible With	
GPS antenna	G5Ant-42A4T1 Omnistar	0.227 kg

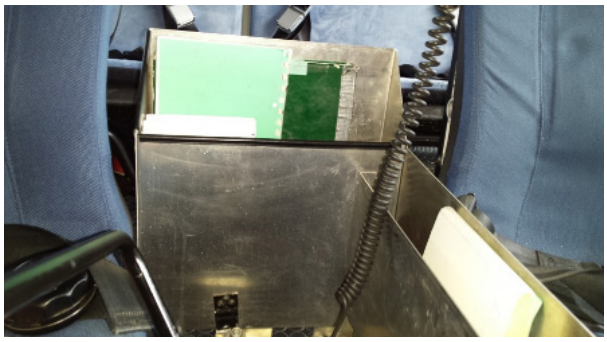


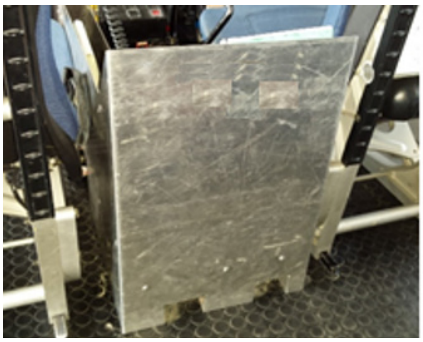
Designed to shield the pilot's collective handle from any disturbances coming from the passenger cabin. As an improvement on earlier products, it has been outfitted with a vibration dampener at the point of attachment with the collective handle's structural provision.











Key Features:

- ✓ Protection for collective handle from the rear part of cabin;
- ✓ Vibration – resistant;
- ✓ No sharp edges;
- ✓ N°2 Accessory pocket;
- ✓ No interference with pre-existing hooks or control valves on the floor;
- ✓ Fixed to the floor and collective lever;
- ✓ Sturdy aluminum construction.

	Collective Handle Protection
p/n	TPS350-00800-1000-00
Material	Aluminium 5753
Dimension LxWxH	84.0 x 31.0 x 45.0 cm
Structure Weight	3 kg

Applicability on:

- ✓ Helicopters AS350 and AS355.



Is a one-stop solution for airborne video monitoring and recording, for anything from cinematography to aerial surveillance.

Video input from up to four sensors can be viewed and recorded in real time.

To maximize ease of use, the Console runs on standard 28VDC, usually from an OEM-certified electric plug provision, and has all the necessary converters mounted internally.

On the AW119, it fully replaces the aft-facing forward passenger seat row and uses the same structural hardpoints.





Key Features:

- ✓ Aerospace-grade aluminum structure;
- ✓ Compatible with Uninterruptible Power Supply;
- ✓ Do-160 compliant;
- ✓ Vibrostop system.

	Sensor Management Internal Console
p/n	TPS119-00400-00
Material	Aluminium
Dimension LxWxH	120.0 x 57.5 x 25.0 cm
Structure Weight	60 kg

Possible configuration:

- ✓ Integrated 12 VDC and 220 VAC converters;
- ✓ N°2 dual 10” and a single 17” monitor;
- ✓ N°4 video inputs;
- ✓ N°3 video recorders;
- ✓ N°1 laptop with magnesium alloy casing;
- ✓ Includes 12VDC courtesy plug;
- ✓ LAN for internal data exchange.

Applicability on:

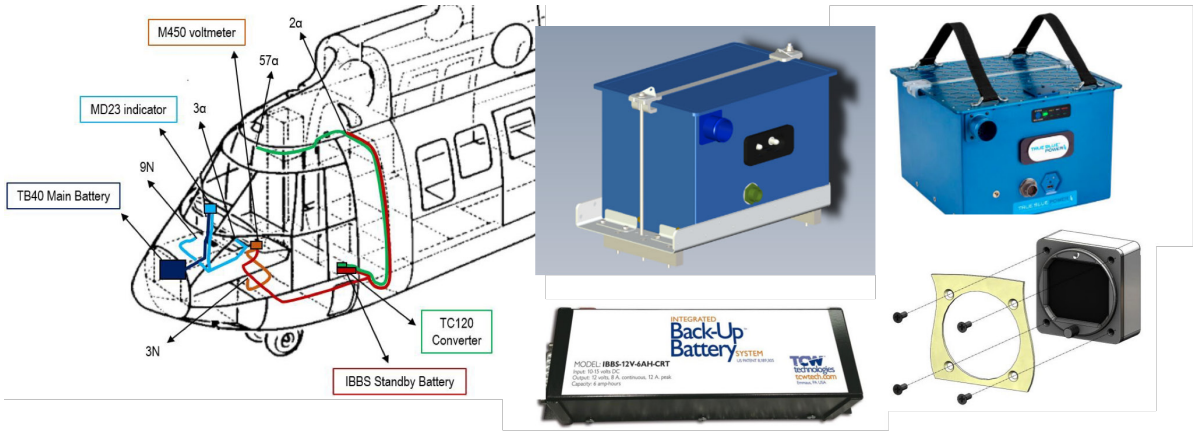
- ✓ Helicopters AW109 and AW119.



Includes the replacement of Nickel-Cadmium Main Battery and Emergency Battery with the following lithium rechargeable batteries:

- *TB40 series advances lithium battery as post mod Main Battery*
- *Integrated back-up battery system IBBS as post mod Emergency Battery*

Introduce also the installation of a main battery MD23 indicator, a standby battery M450 Voltmeter and a standby battery DC Converter.



Key Features:

- ✓ The new Main Battery TB40 series is a 40Ah Advanced Lithium-ion Battery, installed in the nose compartment in the same old main battery position and it utilizes state-of-the-art Nanophosphate lithium-ion battery cell technology.
- ✓ A dedicated MD23 Indicator, installed in the instrument panel, provides the real-time maximum battery's capacity and voltage at its terminal, in addition of back up information of the amperage being supplied and the internal temperature of the battery.
- ✓ The new Emergency Battery is a 3Ah Integrated Back-up Battery System IBBS, which consists of a lithium-iron-phosphate battery pack and a matched charging system to ensure the battery is properly charged and maintained.

		Weight [kg]
Removed	Nickel Cadmium Main Battery	38,2
	Emergency Battery	4,85
Installed	TB40 Advanced Lithium-ion Battery	16,65
	Integrated Back-up Battery System IBBS	1
	MD23 Indicator	0,17
TOTAL		-25.23

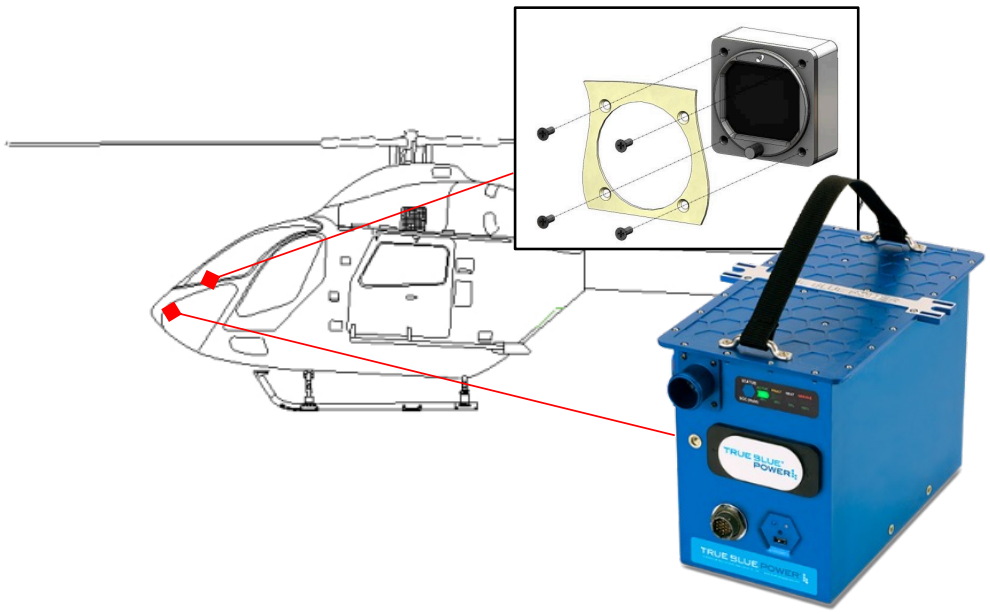
Table 1 - Change in Mass

Equipment	RTCA/DO	TSO	Software
TB40 Main battery	DO-311A DO-160G	TSO C179b	TSO-C178c
IIBS Standby battery	DO-311A DO-160G	TSO C179b	-
MD23 Main battery indicator	DO-160G	TSO C113b	TSO-C178c
M450 Standby battery voltmeter	DO-160F	-	TSO-C178b
TC120 DC Converter	DO-160G	TSO-C71	-

Applicability on Airbus Helicopter AS332 C, C1, L and L1.



Includes the replacement of Nickel-Cadmium Main Battery with TB30 series Advanced Lithium-ion rechargeable Battery, to optimize the electrical system performance and weight.



Key Features:

- ✓ The post-mod Main Battery TB30 series is a 30Ah Advanced Lithium-ion Battery, installed in the nose compartment, in the same pre-mod main battery position, using the same pre-mod battery means of attachments, and it utilizes state-of-the-art Nanophosphate lithium-ion battery cell technology.
- ✓ In post-mod a dedicated MD23 Indicator, installed in the instrument panel, provides real-time battery performance and specifications. In addition, cause and nature of battery specific faults can be monitored by the crew on this indicator.

		Weight [kg]
Removed	Nickel Cadmium Main Battery	28,3
Installed	TB30 Advanced Lithium-ion Battery	12,6
	MD23 Indicator	0,17
TOTAL		-15,5

Change in Mass

Equipment	RTCA/DO	TSO	Software
TB30 Main battery	DO-311A DO-160G	TSO C179b	TSO-C178c
MD23 Main battery indicator	DO-160G	TSO C113b	TSO-C178c

Equipment qualifications summary

Applicability on MD Helicopters, model MD900, configuration 900 and 902.



TPS Aerospace's UPS is a heavy-duty system designed to sustain delicate avionic system from onboard power system failures.

3 large sealed Gel VRLA batteries, chosen for their excellent resistance to shock and vibration, as well as their maintenance-free nature, form the heart of the system.

A power management module interfaces with the batteries and the external power supply to ensure optimal charge and discharge performance.



Key Features:

- ✓ Custom Ah capacity;
- ✓ 20A max continuous current;
- ✓ 24A peak current;
- ✓ 24VDC input/output;
- ✓ Sealed Lead-Acid batteries;
- ✓ Rugged construction;
- ✓ Crash-safe.

	UPS
p/n	TPSUPS-001-00
Material	Aluminum or Steel
Dimension LxWxH	To be stored in the cabin
Structure Weight	2 kg (battery weight excluded)

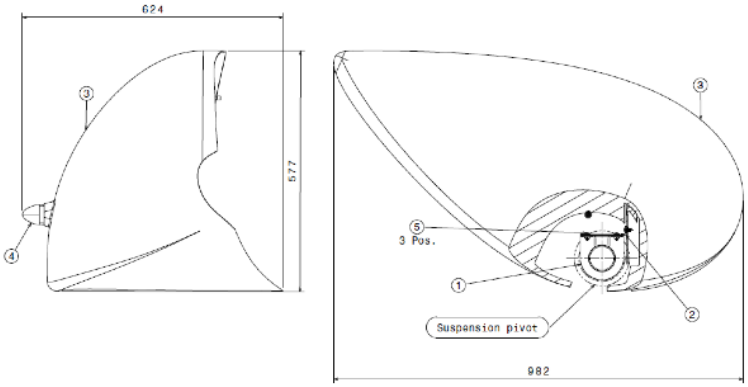
Applicability on:

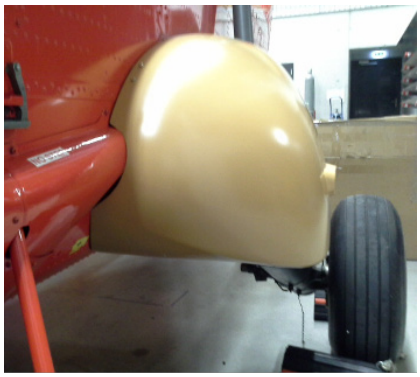
- ✓ Helicopters;
- ✓ Airplane.



Designed to install a new sponson on the AS332. The system to be installed is aimed to provide an external cover for hydraulic landing gear system and to provide positioning and electrical provision for position/anticollision lights.







Key Features:

- ✓ Cover for hydraulic landing gear system;
- ✓ Electrical system for anticollision light;
- ✓ Smaller than standard helicopter sponson;
- ✓ Easy connection to the helicopter structure:
  tight connection and a fine positioning of the sponson during assembly;
- ✓ High stiffness and strength properties without increasing weight.

	Sponsons
p/n	TPS332-00100-1000
Material	Composite
Dimension LxWxH	98.2 x 62.4x 57.7 cm
Structure Weight	2 X 11 kg

Applicability on:

- ✓ Helicopters AS 332L/L1 (AS332L2 and H225 ongoing).